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Peer-Reviewed Publications Citing Vapourtec

Total publications as of September 2024: 1178

2024

Year Total: 92

[1178] N. Reis Conceição, K. Mahmudov, M. Guedes da Silva, A. Pombeiro, "Alkane functionalization: Recent advances," Coordination Chemistry Reviews, pp. 216175, vol. 522, 2024. https://www.sciencedirect.com/science/article/pii/S0010854524005216

[1177] D. Taylor, J. Tobin, L. Amicosante, A. Prentice, M. Paterson, S. Dalgarno, N. McKeown, F. Vilela, "Immobilisation of benzo[c][1,2,5]thiadiazole (BTZ) within polymers of intrinsic microporosity (PIMs) for use in flow photochemistry," Journal of Materials Chemistry A, vol. 12, no. 18, pp. 10932-10941, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/ta/d4ta01009d

[1176] M. Regnier, C. Vega, D. I. Ioannou, T. Noël, "Enhancing electrochemical reactions in organic synthesis: the impact of flow chemistry," Chemical Society reviews, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cs/d4cs00539b

[1175] S. Beduru, D. B. Huple, A. G. Kutateladze, "Complexity-Building Exhaustive Dearomatization of Benzenoid Aromatics within an ESIPT-Initiated Three-Step Photochemical Cascade," Angewandte Chemie (International ed. in English), pp. E202415176, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202415176

[1174] T. Patra, S. Arepally, J. Seitz, T. Wirth, "Electrocatalytic continuous flow chlorinations with iodine(I/III) mediators," Nature communications, pp. 6329, vol. 14, no. 17, 2024. https://www.nature.com/articles/s41467-024-50643-z

[1173] A. Mudugamuwa, U. Roshan, S. Hettiarachchi, H. Cha, H. Musharaf, X. Kang, Q. T. Trinh, H. M. Xia, N.T. Nguyen, J. Zhang, "Periodic Flows in Microfluidics," Small (Weinheim an der Bergstrasse, Germany), pp. E2404685, 2024.

https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.202404685

[1172] R. Nallagonda, R. Quan, L. Grant, C. Jorge, S. Yip, D. Wu, T. Dhar, J. Kempson, A. Mathur, M. Oderinde, “Unveiling the Stereoselectivity Aspects of Metallaphotoredox Decarboxylative Arylation,” ACS Catalysis, pp. 13439-13450, vol. 14. No. 17, 2024. https://pubs.acs.org/doi/abs/10.1021/acscatal.4c03818

[1171] S. Marchetti, C. Tinajero, G. Palmara, E. García-Verdugo, I. Roppolo, M. Zanatta, V. Sans, “High-resolution 3D printable inks based on functional polymeric ionic liquids for applications in carbon dioxide valorization,” Additive Manufacturing, pp. 104304, vol. 89, 2024. https://www.sciencedirect.com/science/article/pii/S2214860424003506

[1170] S. Gillhuber, J. O. Holloway, K. Mundsinger, J. A. Kammerer, J. R. Harmer, H. Frisch, C. Barner-Kowollik, P. W. Roesky, “Visible light photoflow synthesis of a Cu(ii) single-chain polymer nanoparticle catalyst,” Chemical science, pp. 15280-15290, vol.15, no. 37, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/sc/d4sc03079f

[1168] F. Rodrigues, V. Masliy, Y. Hryhoryev, L. Dias, R. Carrilho, M. Calvete, A. Takács, G. Mikle, L. Kollár, M. Pereira, “Gas-liquid tubular continuous-flow Pd-catalysed aminocarbonylation process for scalable synthesis of carboxamides,” Catalysis Science & Technology, pp. 4245-4255, vol. 14, no. 15, 2024. http://dx.doi.org/10.1039/d4cy00633j

[1167] E. Graziano, P. Natho, M. Andresini, F. Mastrolorito, I. Mahdi, E. Mesto, M. Colella, L. Degennaro, O. Nicolotti, R. Luisi, “1-Oxa-2,6-Diazaspiro[3.3]heptane as a New Potential Piperazine Bioisostere - Flow-Assisted Preparation and Derivatisation by Strain-Release of Azabicyclo[1.1.0]butanes,” Advanced Synthesis & Catalysis, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202400781

[1166] S. Michałek, A. M. Maj, L. Gurba-Bryśkiewicz, W. Maruszak, K. Wiśniewski, M. Zagozda, M. Stypik, K. Dubiel, M. Wieczorek, “Development of the telescoped flow Pd-catalyzed aerobic alcohol oxidation/reductive amination sequence in the synthesis of new phosphatidylinositide 3-kinase inhibitor (CPL302415),” RSC advances, pp. 28516-

28523, vol. 14, no. 39, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/ra/d4ra04923c

[1165] J. Kwon, N. Y. Ko, J. W. Lim, "Characterization of Continuous Neutralization of a Chemical Warfare Agent and Its Simulants," ACS omega, pp. 38583-38590, vol. 9, no. 37, 2024.
https://pubs.acs.org/doi/abs/10.1021/acsomega.4c04000

[1164] A. Ładosz, A. Friedli, A. Lhuillery, G. Rueedi, "Carbonylations in flow: tube-in-tube reactor vs. gas-liquid slug flow," Reaction Chemistry & Engineering, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00287c

[1163] K. Okamoto, T. Ueno, Y. Hato, Y. Kawaguchi, T. Hakogi, S. Majima, T. Ohara, M. Hagihara, N. Tanimoto, T. Tsuritani, "Stereoselective Synthesis of Baloxavir Marboxil Using Diastereoselective Cyclization and Photoredox Decarboxylation of l-Serine," The Journal of organic chemistry, pp. 9937-9948, vol. 89, no. 14, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.4c00799

[1163] O. Revu, M. Vasilev, P. Gajula, N. Kalikinidi, M. Gadi, H. Zhao, S. Gamage, G. Hibbert, O. Ravikumar, L. Gummidi, V. Nasipireddy, A. Vinodini, J. Bietsch, Z. Wang, J. Brown, G. Sirasani, J. Armstrong, A. Gangu, B. Qu, C. Senanayake, "Development of a Safer Continuous Flow Process for B2(OH)4-Mediated Chemoselective Reduction of Nitroarenes to Anilines," Organic Process Research & Development, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00267

[1162] Hodgin, G;Burns, M;Deadman, B;Roberts, C;Hii, K;Nguyen, B; Reactivities of N-Nitrosamines against Common Reagents and Reaction Conditions, Organic Process Research & Development, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00217

[1161] P. Brady, K. Harper, B. Sorensen, S. Greszler, C. Lai, A. Florjancic, G. Zhao, B. Shelat, G. Storer, R. Henry, T. Hansen, "Stereoselective Synthesis of ABBV-992 Enabled by a Flow Diazotization and a Partial Reduction of a Pyridone," Organic Process Research & Development, pp. 3152-3160, vol. 28, no. 9, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00077

[1160] I. Patel, G. Ganesan, S. Jain, "Catalytic Advancements: Optimizing Pd-Based Cross-Coupling Reactions Through Flow Chemistry," Organic Process Research & Development, pp. 3464-3508, vol. 28, no.9, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00027

[1159] M. Agnes, A. Santagata, D. Veclani, A. Venturini, M. Monari, P. Dambruoso, I. Manet, "Structure-Based Design and in-Flow Synthesis of Aromatic Endoperoxides Acting as Oxygen Releasing Agents," European Journal of Organic Chemistry, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202400861

[1158] F. Minuto, A. Basso, M. Baumann, "Expedited access to β-lactams via a telescoped three-component Staudinger reaction in flow," Journal of Flow Chemistry, 2024. https://link.springer.com/article/10.1007/s41981-024-00333-0

[1157] S. Green, H. Broderick, K. Wheelhouse, J. Hallett, P. Miller, J. Bull, "Continuous preparation and reaction of nonaflyl azide (NfN3) for the synthesis of organic azides and 1,2,3-triazoles," Journal of Flow Chemistry, pp. 559-568, vol. 14, no. 3, 2024. https://link.springer.com/article/10.1007/s41981-024-00327-y

[1156] S. Patrick, J. Bull, P. Miller, M. Crimmin, "A Continuous Flow Process for the Defluorosilylation of HFC-23 and HFO-1234yf," ChemRxiv Organic Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66d075a0a4e53c4876039c57

[1155] K. Lyon, C. Pan, S. Sathiyalingam, Y. Wu, J. Brandt, "Continuous photo-flow synthesis of heterohelicenes," ChemRxiv Materials Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66ddfa12cec5d6c14286ffb4

[1154] J. Zhang, D. Semochkina, N. Sugisawa, D. Woods, A. Lapkin, "Multi-objective reaction optimization under uncertainties using expected quantile improvement," ChemRxiv Chemical Engineering and Industrial Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66a26aef01103d79c5aaa7ea

[1153] M. Agnes, A. Santagata, D. Veclani, A. Venturini, M. Monari, P. Dambruoso, I. Manet, "Structural design and in flow synthesis of aromatic endoperoxides as oxygen

releasing agents at physiological conditions," ChemRxiv Organic Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/669f867b01103d79c558bba8

[1152] J. Woodliffe, J. Molinar-Díaz, B. Holland, O. Hussein, E. Lester, K. Robertson, "Magnetic Framework Composites Via Continuous Flow Syntheses for Co-2 Capture and Other Applications," Available at SSRN, 2024. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4962672

[1151] F. Molinari, L. Nespoli, E. Ribul Moro, J. Mafezoli, M. Contente, S. Donzella, D. Romano, "Biocatalytic Oxidation of Benzyl Alcohol Derivatives into Carboxylic Acids: From Biocatalyst Discovery to Productivity Leap in a Continuous Flow System," Available at SSRN, 2024. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4940632

[1150] C. Pinna, "NATURE-INSPIRED COMPOUNDS AS MULTI-TARGET DIRECTED LIGANDS," Thesis, 2024. https://air.unimi.it/handle/2434/1055872

[1149] M. Waskaas, "Synthesis and Comparative Analysis of Carbon Dots: A Study on Continuous Flow, Microwave, and Furnace Methods," Thesis, 2024. https://bora.uib.no/bora-xmlui/handle/11250/3149476

[1148] J. Schütte, D. Corsi, W. Haumer, S. Schmid, J. Žurauskas, J. Barham, "A hydrazine-free photoredox catalytic synthesis of azines by reductive activation of readily available oxime esters," *Green Chemistry,* vol. 26, no. 11, pp. 6446-6453, 2024. http://dx.doi.org/10.1039/d4gc00804a

[1147] R. Barrulas, C. Tinajero, D. Ferreira, C. Illanes-Bordomás, V. Sans, M. Carrott, C. García-González, M. Zanatta, M. Corvo, "Poly(ionic liquid)-based aerogels for continuous-flow CO2 upcycling," *Journal of CO2 Utilization,* vol. 83, pp. 102771, 2024. https://www.sciencedirect.com/science/article/pii/S2212982024001069

[1146] F. Nanto, S. Ötvös, C. Oliver Kappe, P. Canu, "Experimental and computational investigation of fluid flow and solid transport in split-and-recombine oscillatory flow reactors for organic chemistry in water," *Journal of Industrial and Engineering*

Chemistry, 2024. https://www.sciencedirect.com/science/article/pii/S1226086X2400255

[1145] S. B. H. Patterson, V. Arrighi, F. Vilela, "A Sacrificial Linker in Biodegradable Polyesters for Accelerated Photoinduced Degradation, Monitored by Continuous Atline SEC Analysis," *ACS macro letters,* vol. 13, no. 5, pp. 508-514, 2024. https://pubs.acs.org/doi/abs/10.1021/acsmacrolett.4c00117

[1144] D. Ghosh, A. Sherin, S. Ghosh, S. Kalose, A. Hajra, "Photochemical and Electrochemical Synthesis of Oxazoles and Isoxazoles: An Update," *Advanced Synthesis ; Catalysis,* vol. 366, no. 10, pp. 2186-2208, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202400221

[1143] A. I. Alfano, M. Smyth, S. Wharry, T. S. Moody, M. Nuño, C. Butters, M. Baumann, "Multiphase photochemistry in flow mode via an integrated continuous stirred tank reactor (CSTR) approach," *Chemical communications (Cambridge, England)*, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cc/d4cc02477j

[1142] K. Donnelly, M. Baumann, "Advances in the Continuous Flow Synthesis of 3- and 4-Membered Ring Systems," *chemistry - A european journal,* vol. 30, no. 32, pp. E202400 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202400758

[1140] J. O. Wenzel, L. Santos Correa, S. Schmidt, M. A. R. Meier, "Benign synthesis of terpene-based 1,4-p-menthane diamine," *Scientific reports,* vol. 14, no. 1, pp. 8055, 2024. https://www.nature.com/articles/s41598-024-58615-5

[1139] M. Spano, A. Pamidi, M. Liu, A. Evans, G. Weiss, "Optimizing Continuous-Flow Biocatalysis with 3D-Printing and Inline IR Monitoring," *ChemCatChem,* 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202400498

[1138] B. Vandekerckhove, L. Van Coillie, B. Metten, T. Heugebaert, C. Stevens,"Development of a solid-compatible continuous flow reactor for the paraformaldehyde slurry mediatedα-hydroxymethylation of methyl vinyl ketone," *Reaction Chemistry &*

Engineering, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00220b

[1137] Y. Tsai, M. Cattoen, G. Masson, G. Christen, L. Traber, M. Donnard, F. Leroux, G. Bentzinger, S. Guizzetti, J. Monbaliu, "On a seamlessly replicable circular photoreactor for lab-scale continuous flow applications," *Reaction Chemistry & Engineering,* vol. 9, no. 7, pp. 1646-1655, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00109e

[1136] T. Masson, S. Zondag, J. Schuurmans, T. Noël, "Open-source 3D printed reactors for reproducible batch and continuous-flow photon-induced chemistry: design and characterization," *Reaction Chemistry ; Engineering,* 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00081a

[1135] M. Weiser, A. M. Pálvölgyi, M. Weil, K. Bica-Schröder, "Continuous Enantioselective α-Alkylation of Ketones via Direct Photoexcitation," *The Journal of organic chemistry,* vol. 89, no. 12, pp. 8906-8914, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.4c00759

[1134] K. Ruhl, M. Di Maso, H. Rose, D. Schultz, F. Lévesque, S. Grosser, S. Silverman, S. Li, N. Sciammetta, U. Mansoor, "Continuous-Flow Solid-Phase Peptide Synthesis to Enable Rapid, Multigram Deliveries of Peptides," *Organic Process Research & Development*, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00165

[1133] H. Thalla, V. Uma Jayaraman, M. Uppada, V. Eda, S. Sen, R. Bandichhor, S. Oruganti, "Supervised Machine-Learning Algorithm using Low Data Sets: Flow Chemistry Optimization of the Key Urea Moiety Construction in Larotrectinib," *Organic Process Research & Development,* 2024
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00489

[1132] M. Hosoya, A. Manaka, T. Kawajiri, T. Ohara, "Application of Taylor Vortex Flow Reactor Enabling Precise Control of Nucleation in Reactive Crystallization," *Organic Process Research & Development,* vol. 28, no. 5, pp. 1752-1763, 2024.
http://dx.doi.org/10.1021/acs.oprd.3c00369

[1131] R. Lapierre, T. Le, B. Schiavi, D. Thevenet, M. Bazin, R. Buzdygon, P. Jubault, T. Poisson, "Photocatalytic and Photoinduced Phosphonylation of Aryl Iodides: A Batch and Flow Study," *Organic Process Research & Development,* vol. 28, no. 5, pp. 1436-1446, 2024. http://dx.doi.org/10.1021/acs.oprd.2c00379

[1130] B. C. Hong, R. R. Indurmuddam, "Tetrabutylammonium decatungstate (TBADT), a compelling and trailblazing catalyst for visible-light-induced organic photocatalysis," *Organic & biomolecular chemistry,* vol. 22, no. 19, pp. 3799-3842, 2024. http://dx.doi.org/10.1039/d4ob0017

[1129] S.Pollington, B. Kalirai, E. Stitt, "Batch to Continuous: From Laboratory Recycle Trickle Bed Test Reactor Data to Full-Scale Plant Preliminary Design—A Case Study Based on the Hydrogenation of Resorcinol," *Processes*, vol. 12, no. 5, pp. 859, 2024. https://www.mdpi.com/2227-9717/12/5/859

[1128] A. Alshammari, J. Boyd, N. Greaves, J. Kettle, J. McKendrick, L. Parker, A. Russell, A. Sani, C. Smith, "Effect of Tether Length on endo/exo Stereoselectivity in Alkene-Arene meta-Photocycloaddition Reactions towards the Aphidocolin/Stemodin Scaffolds," *European Journal of Organic Chemistry*, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202400463

[1127] T. Arunkumar, M. Pallavi, R. Philip, G. Anilkumar, "Nickel-Catalysed Decarboxylative Coupling Reactions - An Overview," *ChemistrySelect,* vol. 9, no. 20, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202400367

[1126] I. C. F. Fonseca, M. L. Pais, F. M. S. Rodrigues, J. Sereno, M. Castelo-Branco, C. Cavadas, M. M. Pereira, A. J. Abrunhosa, "Improved Chemical and Radiochemical Synthesis of Neuropeptide Y Y2 Receptor Antagonist N-Methyl-JNJ-31020028 and Preclinical Positron Emission Tomography Studies," *Pharmaceuticals (Basel, Switzerland),* vol. 17, no. 4, 2024. https://www.mdpi.com/1424-8247/17/4/474

[1125] A. Luguera Ruiz, B. Pijper, M. Linares, S. Cañellas, S. Protti, M. Fagnoni, J. Alcazar,

"Automated One-pot Library Synthesis with Aldehydes as Radical Precursors," *ChemRxiv,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/667c2131c9c6a5c07a712920

[1124] L. Weerarathna, O. Weismantel, T. Junkers, "Comprehensive Screening of Conditions for Block Copolymer Nanoaggregate Formation via Automated DLS," *Thesis,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666c2ee201103d79c534c2a1

[1123] J. Morvan, K. Kuijpers, D. Fanfair, B. Tang, K. Bartkowiak, L. Van eynde, E. Renders, S. Wolkenberg, J. Alcazar, P. Buijnsters, M. Carvalho, A. Jones, "Enabling Electrochemical C-O and C-N Arylation Libraries using Alternating Polarity in Flow," *ChemRxiv*, 2024. https://chemrxiv.org/engage/api-gateway/chemrxiv/assets/orp/resource/item/66707cfc5101a2ffa8cb0228/original/enabling-electrochemical-c-o-and-c-n-arylation-libraries-using-alternating- polarity-in-flow.pdf

[1123] T. Ozaki, S. Bentley, N. Rybansky, B. Li, S. Liu, "A BN-Benzvalene," *Chemxiv,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666bea6ec9c6a5c07a72a802

[1122] O. Weismantel, L. Weerarathna, T. Junkers, "Autonomous Size-Targeting for Block Copolymer Nanoparticles," *ChemRxiv*, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666d872701103d79c547c3c1

[1121] A. Bogdan, M. Organ, "Durchflusschemie als Werkzeug zur Arzneimittelforschung: eine medizinchemische Perspektive," *Flow-Chemie für die Synthese von Heterocyclen*, pp. 349 - 374, 2024. https://link.springer.com/chapter/10.1007/978-3-031-51912-3_7

[1120] R. Gérardy, J. Monbaliu, "Mehrstufige kontinuierliche Durchflussprozesse zur Herstellung von heterocyclischen Wirkstoffen," *Flow-Chemie für die Synthese von Heterocyclen*, pp. 1-112, 2024. https://link.springer.com/chapter/10.1007/978-3-031-51912-3_

[1119] M. Vartabedian, "Study of the Hydrodynamics of Wastewater Treatment Plant Reactors," *Thesis,* 2024.

https://digital.wpi.edu/downloads/cn69m876n

[1118] D. T. Hogan, “Mapping the Unexplored Reactivity Landscape of Benzo [ghi] perylene,” *Thesis,* 2024 https://prism.ucalgary.ca/server/api/core/bitstreams/12deb78e-f870-4044-864a-902084fb05a8/content

[1117] X. Bertrand, “Synthèse d'halogénures tertiaires aliphatiques,” *Thesis,* 2024. https://theses.hal.science/tel-04547854

[1116] J. Chen, Y. Yuan, A. K. Ziabari, X. Xu, H. Zhang, “AI for Manufacturing and Healthcare: a chemistry and engineering perspective,” *preprint arXiv*, 2024. https://arxiv.org/abs/2405.01520

[1114] S. D. Rihm, Y. R. Tan, W. Ang, M. Hofmeister, X. Deng, S. D. Rihm, Y. R. Tan, W. Ang, M. Hofmeister, X. Deng, “Supplementary Information: The Digital Lab Manager: Automating Research Support,” *Thesis,* 2024. https://www.repository.cam.ac.uk/bitstreams/40a9cd5c-785d-41e3-8a3f-a6953e2c2826/downl oad

[1113] A. Slattery, Z. Wen, P. Tenblad, J. Sanjosé-Orduna, D. Pintossi, T. den Hartog, T. Noël, “Automated self-optimization, intensification, and scale-up of photocatalysis in flow,” *Science (New York, N.Y.)*, vol. 383, no. 6681, pp. eadj1817, 2024. https://www.science.org/doi/abs/10.1126/science.adj1817

[1112] J. Bai, S. Mosbach, C. J. Taylor, D. Karan, K. F. Lee, S. D. Rihm, J. Akroyd, A. A. Lapkin, M. Kraft, “A dynamic knowledge graph approach to distributed self-driving laboratories,” *Nature communications*, vol. 15, no. 1, pp. 462, 2024. https://www.repository.cam.ac.uk/items/bf946b4e-d41e-4d25-a852-0612c75fad16

[1111] S. Cañellas, M. Nuño, E. Speckmeier, “Improving reproducibility of photocatalytic reactions-how to facilitate broad application of new methods,” *Nature communications*, vol. 15, no. 1, pp. 307, 2024. https://www.nature.com/articles/s41467-023-44362-0

[1110] I. Östergren, I. Darmadi, S. Lerch, R. da Silva, M. Craighero, S. Paleti, K. Moth-Poulsen,

C. Langhammer, C. Müller, “A surface passivated fluorinated polymer nanocomposite for carbon monoxide resistant plasmonic hydrogen sensing,” *Journal of Materials Chemistry A*, vol. 12, no. 13, pp. 7906-7915, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/ta/d4ta00055b

[1109] P. Díaz-Kruik, F. Paradisi, “Rapid production of the anaesthetic mepivacaine through continuous, portable technology,” *Green chemistry : an international journal and green chemistry resource : GC*, vol. 26, no. 4, pp. 2313-2321, 2024. http://dx.doi.org/10.1039/d3gc04375d

[1108] P. Mizar, S. Arepally, T. Wirth, “Biphasic organic synthesis with continuous electro-flow,” *Current Opinion in Green and Sustainable Chemistry*, vol. 46, pp. 100896, 2024. https://www.sciencedirect.com/science/article/pii/S2452223624000178

[1107] J. Duan, X. Ding, P. Choy, B. Xu, L. Li, H. Qin, Z. Fang, F. Kwong, K. Guo, “Oxidative spirolactonization for modular access of γ-spirolactones via a radical tandem annulation pathway,” *Chinese Chemical Letters,* pp. 109565, 2024. https://www.sciencedirect.com/science/article/pii/S1001841724000

[1106] D. Cantillo, “Recent advances in synthetic organic electrochemistry using flow systems,” *Current Opinion in Electrochemistry*, vol. 44, pp. 101459, 2024. https://www.sciencedirect.com/science/article/pii/S2451910324000206

[1105] E. Leclercq, W. Barakat, R. Maazaoui, M. Penhoat, I. Gillaizeau, L. Chausset-Boissarie, “Electrochemical Trifluoromethylalkoxylation of Endocyclic Enamides in Batch and Flow,” *Advanced Synthesis ; Catalysis,* 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202301485

[1104] A. Guntermann, L. Koch, H. Gröger, “Process Development for the Sustainable and Economic Production of Biobased and Biodegradable High-Performance Lubricants,” *ACS Sustainable Chemistry & Engineering*, 2024. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.3c06884

[1103] D. Sutar, G. Swami, A. Jamdade, B. Gnanaprakasam, “Direct Intramolecular Coupling of Primary/Secondary Alcohols with Secondary Alcohols for Macrocyclic Alkenylation

Using Ni-Zeolite Catalyst Under Continuous-Flow Conditions," *Advanced Synthesis & Catalysis,* vol. 366, no. 6, pp. 1356-1365, 2024. http://dx.doi.org/10.1002/adsc.202301195

[1102] J. García-Lacuna, M. Baumann, "Continuous Flow Synthesis of Benzotriazin-4(3H)-ones via Visible Light Mediated Nitrogen-Centered Norrish Reaction," *Organic letters*, vol. 26, no. 12, pp. 2371-2375, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.4c00248

[1101] J. Yu, J. Liu, C. Li, J. Huang, Y. Zhu, H. You, "Recent advances and applications in high-throughput continuous flow," *Chemical communications (Cambridge, England),* vol. 60, no. 24, pp. 3217-3225, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cc/d3cc06180a

[1100] D. Pollon, F. Annunziata, S. Paganelli, L. Tamborini, A. Pinto, S. Fabris, M. A. Baldo, O. Piccolo, "Improved Process for the Continuous Acylation of 1,3-Benzodioxole," *Molecules (Basel, Switzerland),* vol. 29, no. 3, 2024. https://www.mdpi.com/1420-3049/29/3/726

[1099] K. Stalder, A. Benitez-Mateos, F. Paradisi, "Biocatalytic Syntheis of L-Pipecolic Acid by a Lysine Cyclodeaminase: Batch and Flow Reactors," *ChemCatChem,* 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202301671

[1098] G. Prakash, J. Grover, P. Pathak, A. Mittal, P. Balasubramaniam, D. Maiti, "A scalable continuous photo-flow protocol for anaerobic oxidative cleavage of styrenes," *Reaction Chemistry ; Engineering,* 2024. https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00009a

[1097] H. Stephen, H. Longhurst, M. Nunn, C. Parsons, M. Burns, "The electrochemical oxidation of a thioether to form an API intermediate and the effects of substrate electronics on impurity formation," *Reaction Chemistry ; Engineering,* vol. 9, no. 4, pp. 883-887, 2024. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00632h

[1096] M. A. Shaikh, A. S. Ubale, B. Gnanaprakasam, "Amberlyst-A26-Mediated Corey-

Chaykovsky Cyclopropanation of 9-Alkylidene-9H-fluorene under Continuous Process," *The Journal of organic chemistry*, vol. 89, no. 4, pp. 2283-2293, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02260

[1095] P. Khairnar, J. Saathoff, D. Cook, S. Hochstetler, U. Pandya, S. Robinson, V. Satam, K. Donsbach, B. Gupton, L. Jin, C. Shanahan, "Practical Synthesis of 6-Amino-1-hydroxy-2,1-benzoxaborolane: A Key Intermediate of DNDI-6148," *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00031

[1094] J. Bennett, P. Murphy, "Flow Chemistry for Synthesis of 2-(C-Glycosyl)acetates from Pyranoses via Tandem Wittig and Michael Reactions," *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00414

[1093] G. Yano, M. Hyakumura, K. Nakano, H. Yasukouchi, H. Kawachi, M. Funabashi, T. Ohishi, Y. Ogawa, A. Nishiyama, "Establishment and Development of Organolithium-Mediated Continuous Flow Process for Intermediate of Canagliflozin," *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00385

[1092] K. Veeramani, M. Shinde, V. Eda, S. Peraka, S. Mohan, R. Bandichhor, S. Oruganti, "Investigation into a high-p,T,c continuous flow synthesis of myristyl-γ-picolinium chloride (MGPC) - a preservative in pharmaceutical formulations," *Journal of Flow Chemistry,* 2024. https://link.springer.com/article/10.1007/s41981-024-00309-0

[1091] B. Pijper, L. Saavedra, M. Lanzi, M. Alonso, A. Fontana, M. Serrano, J. Gómez, A. Kleij, J. Alcázar, S. Cañellas, "Addressing Reproducibility Challenges in High-Throughput Photochemistry," *ChemRxiv Back toOrganic Chemistry,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/65ecd15a66c1381729a481e2

[1090] O. Alzaidi, T. Wirth, "Continuous Flow Electroselenocyclization of Allylamides and Unsaturated Oximes to Selenofunctionalized Oxazolines and Isoxazolines," *ACS Organic ; Inorganic Au,* 2024.

https://pubs.acs.org/doi/abs/10.1021/acsorginorgau.4c00008

[1089] J. Lu, J. Pan, Y. Mo, Q. Fang, "Automated Intelligent Platforms for High-Throughput Chemical Synthesis," *Artificial Intelligence Chemistry,* vol. 2, no. 1, pp. 100057, 2024. https://www.sciencedirect.com/science/article/pii/S2949747724000150

[1088] E. Selmi Higashi, "Innovative Developments in the field of Difluoromethylation Chemistry," *Thesis,* 2024. https://qmro.qmul.ac.uk/xmlui/handle/123456789/95679

[1087] J. Liu, "The control and analysis of one-pot multistep reactions by automation and reaction monitoring technologies," *Thesis,* 2024. https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0440689

2023

Year Total: 16

[1086] S. Gianolio, "Decarboxylases and Dehydrogenases in Biocatalysis: Sustainable Production of Amines in Batch and Continuous Flow Systems," *Thesis,* 2023. https://boristheses.unibe.ch/id/eprint/4983

[1085] L. Capaldo, Z. Wen, T. Noël, "A field guide to flow chemistry for synthetic organic chemists," Chemical science, pp. 4230-4247, vol. 14, no. 16, 2023. http://dx.doi.org/10.1039/d3sc00992k

[1084] Deeksha, Bittu, R. Singh, "Synthetic strategies for the construction of C3-fluorinated oxindoles," *Organic & biomolecular chemistry,* vol. 21, no. 32, pp. 6456-6467, 2023. http://dx.doi.org/10.1039/d3ob01012k

[1083] S. Luan, "New development in electrochemistry-Toward new methods for the functionalization of electron-rich olefins," *Thesis,* 2023. https://theses.hal.science/tel-04502328/

[1082] M. A. Gutiérrez López, R. Ali, M. L. Tan, N. Sakai, T. Wirth, S. Matile, "Electric field-assisted anion-π catalysis on carbon nanotubes in electrochemical microfluidic

devices," *Science advances*, vol. 9, no. 41, pp. eadj5502, 2023. https://www.science.org/doi/abs/10.1126/sciadv.adj5502

[1081] D. Iglesias, C. Tinajero, S. Marchetti, I. Roppolo, M. Zanatta, V. Sans, "Multi-step oxidative carboxylation of olefins with carbon dioxide by combining electrochemical and 3D-printed flow reactors," *Green Chemistry,* vol. 25, no. 23, pp. 9934-9940, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/gc/d3gc03360k

[1080] N. Baggi, H. Hölzel, H. Schomaker, K. Moreno, K. Moth-Poulsen, "Flow-Integrated Preparation of Norbornadiene Precursors for Solar Thermal Energy Storage," *ChemSusChem*, pp. e202301184, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202301184

[1079] S. Paul, D. Adelfinsky, C. Salome, T. Fessard, M. K. Brown, "2,5-disubstituted bicyclo[2.1.1]hexanes as rigidified cyclopentane variants," *Chemical science,* vol. 14, no. 30, pp. 8070-8075, 2023. https://pdfs.semanticscholar.org/d181/b81932e31bcdbf81247434ee071a1f1160da.pdf

[1078] A. I. Alfano, M. Smyth, S. Wharry, T. S. Moody, M. Baumann, "Modular Synthesis of Benzoylpyridines Exploiting a Reductive Arylation Strategy," *Organic letters*, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c03833

[1077] M. Mlakić, H. Perinić, V. Vušak, O. Horváth, D. Sampedro, R. Losantos, I. Odak, I. Škorić, "Photochemical Transformations of Diverse Biologically Active Resveratrol Analogs in Batch and Flow Reactors," *Molecules,* vol. 29, no. 1, pp. 201, 2023. https://www.mdpi.com/1420-3049/29/1/201

[1076] N. Fracchiolla, S. Patti, F. Sangalli, D. Monti, F. Presini, P. Giovannini, F. Parmeggiani, E. Brenna, D. Tessaro, E. Ferrandi, "Insight into the Stereoselective Synthesis of (1S)-Nor(pseudo)ephedrine Analogues by a Two-Steps Biocatalytic Process," *ChemCatChem*, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202301199

[1075] I. E. Romero, A. Postigo, S. M. Bonesi, "Preparation of Carbazoles

Involving 6π-Electrocyclization, Photoredox-, Electrochemical-, and Thermal Cyclization Reactions: Mechanistic Insights," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202303229, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202303229

[1074] K. Stagel, L. Ielo, K. Bica-Schröder, "Continuous Synthesis of Carbamates from CO2 and Amines," *ACS omega*, vol. 8, no. 50, pp. 48444-48450, 2023. https://pubs.acs.org/doi/abs/10.1021/acsomega.3c0824

[1073] E. Rial-Rodríguez, J. Wagner, H. Eggenweiler, T. Fuchss, A. Sommer, C. Kappe, J. Williams, D. Cantillo, "A low-volume flow electrochemical microreactor for rapid and automated process optimization," *Reaction Chemistry ; Engineering,* vol. 9, no. 1, pp. 31-36, 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00586k

[1072] D. Karan, G. Chen, N. Jose, J. Bai, P. McDaid, A. Lapkin, "A machine learning-enabled process optimization of ultra-fast flow chemistry with multiple reaction metrics," *Reaction Chemistry & Engineering*, 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00539a

[1071] R. Labes, J. Pastre, R. Ingham, C. Battilocchio, H. Marçon, M. Damião, D. Tran, S. Ley, "Automated multistep synthesis of 2-pyrazolines in continuous flow, Reaction Chemistry ;" Engineering, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00515a

[1070] D. Drelinkiewicz, T. Corrie, R. Whitby, "Rapid investigation of the effect of binary and ternary solvent gradient mixtures on reaction outcomes using a continuous flow system," *Reaction Chemistry ; Engineering*, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00464c

[1069] N. Disney, M. Smyth, S. Wharry, T. Moody, M. Baumann, "A cyanide-free synthesis of nitriles exploiting flow chemistry," *Reaction Chemistry & Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00458a

[1068] S. Martinuzzi, M. Tranninger, P. Sagmeister, M. Horn, J. Williams, C. Kappe, "Dynamic

experiments in flow accelerate reaction network definition in a complex hydrogenation using catalytic static mixers," *Reaction Chemistry & Engineering,* vol. 9, no. 1, pp. 132-138, 2023.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00451a

[1067] L. van Wyk, N. Neyt, J. Jugmohan, J. Panayides, D. Riley, "The synthesis of bupropion hydrochloride under greener and safer conditions utilizing flow technologies," *Reaction Chemistry & Engineering,* vol. 9, no. 1, pp. 45-57, 2023.
https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00443k

[1066] H. F. Grantham, R. J. Lee, G. M. Wardas, J. R. Mistry, M. R. J. Elsegood, I. A. Wright, G. J. Pritchard, M. C. Kimber, "Transition-Metal-Free Continuous-Flow Synthesis of 2,5-Diaryl Furans: Access to Medicinal Building Blocks and Optoelectronic Materials," *The Journal of organic chemistry*, 2023.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02237

[1066] J. García-Lacuna, M. Baumann, "Continuous Flow Synthesis of Nitrosoarenes via Photochemical Rearrangement of Aryl Imines," *The Journal of organic chemistry,* 2023.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02362

[1064] N. Kánya, T. Zsigmond, T. Hergert, K. Lövei, G. Dormán, F. Kálmán, F. Darvas, "Click Reactions Meet Flow Chemistry: An Overview of the Applications of Click Chemistry under Continuous Flow Conditions," *Organic Process Research &; Development,* 2023.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00364

[1063] T. Jerkovic, H. Cruickshank, Y. Chen, A. Trindade, A. Dumas, J. Edwards, A. Alorati, H. Ho, "Development and Kilogram-Scale Implementation of a Flavin-Catalyzed Photoredox Fluorodecarboxylation," *Organic Process Research & Development,* 2023.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c0034

[1062] P. Filipponi, B. Cerra, A. Piccinno, E. Camaioni, A. Gioiello, "Continuous Flow Synthesis of the PARP-1/2 Inhibitor HYDAMTIQ: Synthetic Strategy, Optimization, and Green

Metrics Evaluation," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00295

[1061] D. Bhagwandin, J. Dunlap, L. Tran, A. Reidell, D. Austin, A. Putnam-Neeb, M. Loveday, R. Rao, L. Baldwin, N. Glavin, "Covalent organic framework crystallization using a continuous flow packed-bed reactor," *CrystEngComm,* vol. 26, no. 1, pp. 27-31, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ce/d3ce01030a

[1060] M. Spennacchio, P. Natho, M. Andresini, M. Colella, "Continuous Flow Generation of Highly Reactive Organometallic Intermediates: A Recent Update," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-023-00292-y

[1059] P. Singh, V. Srivastava, "Visible-Light Photoredox Catalysis in the Late-Stage Functionalization of Anticancer Agents," *ChemistrySelect*, vol. 8, no. 44, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202302732

[1058] T. Maschmeyer, B. Conklin, T. C. Malig, D. J. Russell, K. L. Kurita, J. E. Hein, J. G. Napolitano, "A reliable external calibration method for reaction monitoring with benchtop NMR," *Magnetic resonance in chemistry : MRC*, 2023. https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5421

[1057] M. Hosoya, A. Manaka, T. Kawajiri, T. Ohara, "Application of Taylor Vortex Flow Reactor Enabling Precise Control of Nucleation in Reactive Crystallization," *ChemRxiv Back to Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/65289f668bab5d20553d8a32

[1056] R. Mondal, N. Jacob, M. Devuyst, M. Quertenmont, G. Averochkin, S. Deri, L. Galmidi, D. Gordon-Levitan, M. Feller, J. Vantourout, P. Echeverria, S. Gnaim, "Electro-Oxidative Platform for Nucleophilic α-Functionalization of Ketones," *ChemRxiv Back toOrganic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/65411e9ba8b423585aa73285

[1055] S. Bonciolini, A. Pulcinella, M. Leone, D. Schiroli, A. Luguera Ruiz, A. Sorato, M. Dubois, R. Gopalakrishnan, G. Masson, N. Della Ca', S. Protti, M. Fagnoni, E. Zysman-Colman,

M. Johansson, T. Noel, “Metal-free Photocatalytic Cross-Electrophile Coupling enables C1 Homologation and Alkylation of Carboxylic Acids with Aldehydes,” *ChemRxiv Back to Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/655518f0dbd7c8b54b55adbd

[1054] J. Zhang, N. Sugisawa, K. Felton, S. Fuse, A. Lapkin, “Multi-objective Bayesian optimisation using q-Noisy Expected Hypervolume Improvement (qNEHVI) for Schotten-Baumann reaction,” *Reaction Chemistry & Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00502j

[1054] J. Santiago-Arcos, S. Velasco-Lozano, E. Diamanti, D. Grajales, A. Mateos, F. Paradisi, F. López-Gallego, “Optimized Spatial Configuration of Heterogeneous Biocatalysts Maximizes Cell-Free Biosynthesis of ω-Hydroxy and ω-Amino Acids,” *Research Square,* 2023. https://www.researchsquare.com/article/rs-3644964/latest

[1052] 中原祐一, “Advanced Control of Reaction Selectivity via High-speed Micromixing Flow Processes: A Breakthrough Approach to Protein Functionalization,” *Thesis,* 2023. https://eprints.lib.hokudai.ac.jp/dspace/bitstream/2115/90796/1/NAKAHARA_Yuichi.pdf

[1051] T. Maschmeyer-Tombs, “Advancing benchtop nuclear magnetic resonance (NMR) spectroscopy as a tool for pharmaceutical development,” *Thesis,* 2023. https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0438307

[1050] K. Felton, “Transfer Learning for Accelerated Process Development,” *Thesis,* 2023. https://www.repository.cam.ac.uk/items/a89ff0da-f6b0-49a6-b426-9f61f319135e

[1049] S. Thuillier, “Étude du mode d'action de la radulanine A, une molécule phytotoxique d'origine naturelle,” *Thesis,* 2023. https://theses.hal.science/tel-04318019/

[1048] G. Mathieu, “Nouvelles méthodologies de synthèse pour la création de liens carbone-azote par voie nucléophile et electrophile,” *Thesis,* 2023. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/31920

[1047] J. A. D. Silvestre, “Síntese de Espiro-β-lactamas com potente atividade antimicrobiana: Estudo de condições de reação em fluxo contínuo,” *Thesis,* 2023. https://estudogeral.uc.pt/retrieve/265439/Tese%20Mestrado_Quimica%20Medicinal_Jo%C3%A3o%20Silvestre.pdf

[1046] K. Greis, “Structural Analysis of Glycosyl Cations and Other Intermediates Using Cryogenic Infrared Spectroscopy,” *Thesis,* 2023. https://search.proquest.com/openview/89af7a9e95aa6f88e9914fd32786ce8f/1?pq-origsite=gscholar;cbl=2026366;diss=y

[1045] X. Yuan, H. Fan, J. Liu, L. Qin, J. Wang, X. Duan, J. Qiu, K. Guo, “Recent advances in photoredox catalytic transformations by using continuous-flow technology,” *Chinese Journal of Catalysis,* vol. 50, pp. 175-194, 2023. https://www.sciencedirect.com/science/article/pii/S187220672364447X

[1044] S. Hammer, F. Nanto, P. Canu, S. B. Otvos, C. O. Kappe, “Application of an Oscillatory Plug Flow Reactor to Enable Scalable and Fast Reactions in Water Using a Biomass-Based Polymeric Additive,” *ChemSusChem,* pp. e202301149, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202301149

[1043] J. H. Dunlap, J. G. Ethier, A. A. Putnam-Neeb, S. Iyer, S. L. Luo, H. Feng, J. A. Garrido Torres, A. G. Doyle, T. M. Swager, R. A. Vaia, P. Mirau, C. A. Crouse, L. A. Baldwin, “Continuous flow synthesis of pyridinium salts accelerated by multi-objective Bayesian optimization with active learning,” *Chemical science,* vol. 14, no. 30, pp. 8061-8069, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01303k

[1042] T. Biremond, M. Riomet, P. Jubault, T. Poisson, “Photocatalytic and Electrochemical Borylation and Silylation Reactions,” *Chemical record (New York, N.Y.),* pp. e202300172, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/tcr.202300172

[1041] Q. Cao, J. D. Tibbetts, G. L. Wrigley, A. P. Smalley, A. J. Cresswell, “Modular, automated synthesis of spirocyclic tetrahydronaphthyridines from primary alkylamines,”

Communications chemistry, vol. 6, no. 1, pp. 215, 2023. https://www.researchsquare.com/article/rs-3146809/latest

[1040] L. F. Peña, P. González-Andrés, L. G. Parte, R. Escribano, J. Guerra, A. Barbero, E. López, "Continuous Flow Chemistry: A Novel Technology for the Synthesis of Marine Drugs," *Marine drugs,* vol. 21, no. 7, 2023. https://www.mdpi.com/1660-3397/21/7/402

[1039] J. Nova-Fernández, G. Pascual-Coca, S. Cabrera, J. Alemán, "Rapid and Safe Continuous-Flow Simmons-Smith Cyclopropanation using a Zn/Cu Couple Column," *Advanced Synthesis ; Catalysis,* 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202300665

[1038] A. Ubale, M. Shaikh, N. Mohanta, B. Gnanaprakasam, "Peroxidation and Skeletal Rearrangement for the Synthesis of Dioxole-2-Carboxamide Derivatives under ContinuousFlow Conditions," *Advanced Synthesis & Catalysis,* vol. 365, no. 18, pp. 3094-3100, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202300591

[1037] J. García-Lacuna, M. Baumann, "Modular Photochemical Flow Synthesis of Structurally Diverse Benzyne and Triazine Precursors," *Advanced Synthesis ; Catalysis*, vol. 365, no. 15, pp. 2628-2635, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202300414

[1036] E. Broumidis, C. G. Thomson, B. Gallagher, L. Sotorríos, K. G. McKendrick, S. A. Macgregor, M. J. Paterson, J. E. Lovett, G. O. Lloyd, G. M. Rosair, A. S. Kalogirou, P. A. Koutentis, F. Vilela, "The Photochemical Mediated Ring Contraction of 4H-1,2,6-Thiadiazines To Afford 1,2,5Thiadiazol-3(2H)-one 1-Oxides," *Organic letters*, vol. 25, no. 37, pp. 6907-6912, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c02673

[1035] C. Bracken, M. Baumann, "Synthesis of Highly Reactive Ketenimines via Photochemical Rearrangement of Isoxazoles," *Organic letters*, vol. 25, no. 35, pp. 6593-6597, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c02556

[1034] M. Mhate, C. S. Mahanta, D. K. Dhaked, V. Ravichandiran, S. P. Swain, “Metal-free synthesis of selenoesters directly from carboxylic acids using bifunctional selenoureas under batch and continuous-flow conditions,” *Chemical communications (Cambridge, England),* vol. 59, no.73, pp. 10920-10923, 2023. https://pubs.rsc.org/en/content/articlehtml/2003/x4/d3cc02872k

[1033] E. Callard-Langdon, A. Steven, R. Kahan, “Shining a Light on the Advances, Challenges and Realisation of Utilising Photoredox Catalysis in Pharmaceutical Development,” *ChemCatChem,* vol. 15, no. 15, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202300537

[1032] M. O'Shaughnessy, A. C. Padgham, R. Clowes, M. A. Little, M. C. Brand, H. Qu, A. G. Slater, A. I. Cooper, “Controlling the crystallisation and hydration state of crystalline porous organic salts,” *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202302420, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202302420

[1031] J. H. Griwatz, M. L. Kessler, H. A. Wegner, “Continuous-Flow Synthesis of Cycloparaphenylene Building Blocks on a Large Scale,” *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202302173, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202302173

[1030] A. K. Mittal, P. Pathak, G. Prakash, D. Maiti, “Highly Scalable and Inherently Safer Preparation of Di, Tri and Tetra Nitrate Esters Using Continuous Flow Chemistry,” *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202301662, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202301662

[1029] S. Vicinanza, F. Annunziata, D. Pecora, A. Pinto, L. Tamborini, “Lipase-mediated flow synthesis of nature-inspired phenolic carbonates,” *RSC advances*, vol. 13, no, 33pp. 2290122904, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ra/d3ra04735k

[1028] J. Liao, D. N. Hunter, U. N. Oloyede, J. W. McLaughlin, C. Wang, A. El Marrouni, “Metal-Free Addition of Alkyl Bromides to Access 3,3-Disubstituted Quinoxalinones Enabled by VisibleLight Photoredox Catalysis,” *The Journal of organic chemistry,* vol. 88, no.

16, pp.1176211766, 2023.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c01054

[1027] J. Noh, J. Y. Cho, M. Park, B. Y. Park, "Visible-Light-Mediated TiO2-Catalyzed Aerobic Dehydrogenation of N-Heterocycles in Batch and Flow," *The Journal of organic chemistry,* vol. 88, no. 15, pp. 10682-10692, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c00743

[1026] P. Naik, J. García-Lacuna, P. O'Neill, M. Baumann, "Continuous Flow Oxidation of Alcohols Using TEMPO/NaOCl for the Selective and Scalable Synthesis of Aldehydes," *Organic Process Research ; Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00237

[1025] A. Bonner, M. Baumann, "Development of a Continuous Flow Baldwin Rearrangement Process and Its Comparison to Traditional Batch Mode," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00213

[1024] M. Vasilev, A. Gangu, P. Gajula, N. Kaetzel, V. Natarajan, B. Desai, G. Sirasani, B. Qu, C. Senanayake, "Development of Continuous Flow Processes to Access Pyrrolo[2,1f][1,2,4]triazin-4-amine: An RSM for the Synthesis of Antiviral Drugs," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00184

[1023] J. Swierk, "The Cost of Quantum Yield," *Organic Process Research & Development,* vol. 27, no. 7, pp. 1411-1419, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00167

[1022] K. Kumar, M. Mhate, V. Ravichandiran, S. Swain, "Bis(pinacoloto)diboran/4-phenyl pyridine system for one-pot photocatalyzed borylation and reduction of aldehyde: synthesis of tavaborole in a flow reactor," Synthesis, 2023. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/a-2169-6200.pdf

[1021] A. Petronilli, T. Carofiglio, P. Zardi, "Direct Arylation of Thiophenes in Continuous Flow," *ChemistrySelect,* vol. 8, no. 30, 2023. https://chemistry-

europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202302326

[1020] T. Maschmeyer, D. J. Russell, J. G. Napolitano, J. E. Hein, "Reaction monitoring via benchtop nuclear magnetic resonance spectroscopy: A practical comparison of on-line stopped-flow and continuous-flow sampling methods," *Magnetic resonance in chemistry : MRC,* 2023. https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5395

[1019] S. Michałek, A. Powała, L. Gurba-Bryśkiewicz, N. Piórkowska, P. Olejkowska, A. Yamani, Z. Ochal, K. Dubiel, M. Wieczorek, "Fast Claisen condensation reaction optimization in a continuous flow reactor," *Monatshefte für Chemie- Chemical Monthly,* 2023. https://link.springer.com/article/10.1007/s00706-023-03121-z

[1018] S. Jana, V. Mayerhofer, C. Teskey, "Photo- und Electrochemische Cobalt-Katalysierte Wasserstoffatomübertragung für die Hydrofunktionalisierung von Alkenen," *Angewandte Chemie*, vol. 135, no. 41, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202304882

[1017] T. C. Lee, Y. Tong, W. C. Fu, "Advances in Continuous Flow Fluorination Reactions," *Chemistry, an Asian journal,* pp. e202300723, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202300723

[1016] R. Martin, C. Odena, M. Linares, N. Castellanos-Blanco, R. McGuire, J. Alonso, A. Dieguez, E. Tan, J. Alcazar, P. Buijnsters, S. Cañellas, "Late-Stage C(sp2)-C(sp3) Diversification via Nickel Oxidative Addition Complexes," *Organic Chemistry*, 2023. https://chemrxiv.org/engage/chemrxiv/article-details/64cca70469bfb8925a551908

[1015] F. Nanto, S. Otvos, C. Kappe, P. Canu, "Experimental and Computational Investigation of Fluid Dynamics and Solid Transport in Split-and-Recombine Oscillatory Flow Reactors Using Water as Medium," Chemical Engineering and Industrial Chemistry, 2023. https://chemrxiv.org/engage/chemrxiv/article-details/64c260649ed5166e938e8632

[1014] N. Petrović, B. Malviya, C. Kappe, D. Cantillo, "Scaling-up electroorganic synthesis

using a spinning electrode electrochemical reactor in batch and flow mode," *Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/64c24b15ce23211b20a321ff

[1013] H. Grantham, R. Lee, G. Wardas, J. Mistry, M. Elsegood, I. Wright, G. Pritchard, M. Kimber, "Transition metal free continuous flow synthesis of 2,5-diaryl furans: access to medicinal building blocks and optoelectronic materials," *Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/65007e50b6ab98a41c5299a0

[1012] M. Kraft, J. Bai, S. Mosbach, C. Taylor, D. Karan, K. Lee, S. Rihm, J. Akroyd, A. Lapkin, "From Platform to Knowledge Graph: Distributed Self-Driving Laboratories," *Research Square,* 2023. https://www.researchsquare.com/article/rs-3141873/latest

[1011] T. A. Nguyen, T. H. Nguyen, V. D. Pham, M. T.Vu, "Research Activities at Faculty of Chemical Technology, Hanoi University of Industry-20 Years of Growth and Development, Vietnam Journal of CHEMISTRY," 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/vjch.202300081

[1010] J. Lowe, "4-π-Photocyclisation of Troponoids-Scope and Applications," *Thesis,* 2023. https://eprints.lancs.ac.uk/id/eprint/202402/

[1009] M. Kraft, J. Bai, S. Mosbach, C. Taylor, D. Karan, K. Lee, S. Rihm, J. Akroyd, A. Lapkin, "Expanding the Scope of the Paternò-Büchi Reaction Methodology Development and Mechanistic Studies," *Thesis,* 2023. https://eprints.lancs.ac.uk/id/eprint/200309/

[1008] P. Zambelli, "A biocatalytic approach for the synthesis of Lilybelle and other fragrances starting from citrus industry by-products," *Thesis,* 2023. https://www.politesi.polimi.it/handle/10589/204686

[1007] E. Brenna, "A biocatalytic approach for the synthesis of Lilybelle® and other fragrances starting from citrus industry by-products," *Thesis,* 2023. https://www.politesi.polimi.it/retrieve/e17a4e6a-99cb-45ee-82c0-46a4b5cc65a0/2023_5_Z ambelli_Tesi_easy_read_02.pdf

[1006] L. Caron, “Étude de nouvelles méthodes d'oxydation d'hydrazones en composés diazoïques,” *Thesis,* 2023. https://corpus.ulaval.ca/entities/publication/01aee3e4-767c-4c65-b6a1-b1ffabd3db81

[1005] R.C. Epplin, “[2]-Ladderanes as Building Blocks for Medicinal Chemistry,” *Thesis,* 2023. https://search.proquest.com/openview/39bd0b22805503b3741dcb248c8405ee/1?pq-origsi te=gscholar;cbl=18750;diss=y

[1004] T. Jiang, G. Darlot, C. Ma, T. Gefflaut, V. De, “Enzyme activity prediction using neural networks, docking and high-throughput screening results.” *Conference,* 2023. https://www.mabc-cambridge.ai/_files/ugd/02bec4_b501901cafeb4de7928c407b92f43f9d. pdf#page=20

[1003] P. Sagmeister, M. Prieschl, D. Kaldre, C. G1adiyar, “Continuous Flow-Facilitated CB2 Agonist Synthesis, Part 1: Azidation and [3+ 2] Cycloaddition,” *Org. Process Res. Dev.*, 2023. https://pubs.acs.org/doi/full/10.1021/acs.oprd.3c00035

[1002] S. B. H Patterson, R. Wong, G. Barker, F. Vilela, “Advances in continuous polymer analysis in flow with application towards biopolymers,” *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-023-00268-y

[1001] M. Oliva, V.V. Chernobrovkina, E. Van Der Eyken, “Boronic acids and their derivatives as continuous flow friendly alkyl radical precursors,” *Synlett,* 2023. https://www.thiemeconnect.com/products/ejournals/abstract/10.1055/a-2068-6038

[1000] A.I. Alfano, S. Pelliccia, G. Rossino, O. Chianese, “Photo-Flow Technology for Chemical Rearrangements: A Powerful Tool to Generate Pharmaceutically Relevant Compounds,” *ACS Med. Chem. Lett.,* 2023. https://pubs.acs.org/doi/full/10.1021/acsmedchemlett.3c00072

[999] P. Baronas, J.L. Elholm, K. Moth-Poulsen, “Efficient degassing and ppm-level oxygen monitoring flow chemistry system,” *Reaction Chemistry & Engineering,* 2023.

https://pubs.rsc.org/en/Content/ArticleLanding/2023/RE/D3RE00109A

[998] M. Smyth, T.S. Moody, S. Wharry, M. Baumann, "Continuous Flow Synthesis of Cyclobutenes Using LED Technology," *Synlett,* 2023. https://www.thiemeconnect.com/products/ejournals/abstract/10.1055/a-2086-0630

[997] E. Cooper, E. Alcock, M. Power, G. McGlacken, "The α-alkylation of ketones in flow," *Reaction Chemistry & Engineering,* 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d3re00229b

[996] S. Jana, V.J. Mayerhofer, C. Teskey, "Photo-and Electrochemical Cobalt Catalysed Hydrogen Atom Transfer for the Hydrofunctionalisation of Alkenes," *Angewandte Chemie International Edition,* 2023. https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202304882

[995] D. C. Salgueiro, "Tuning Reactivity in C (sp 3)—C (sp 2) Cross-Electrophile Coupling," *The University of Wisconsin - Madison ProQuest Dissertations Publishing,* 2023. https://www.proquest.com/docview/2812309946?pqorigsite=gscholar&fromopenview=true

[994] L. Chang, S. Wang, Q. An, L. Liu, H. Wang, Y. Li, K. Feng, "Resurgence and advancement of photochemical hydrogen atom transfer processes in selective alkane functionalizations," *Chemical Science,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01118f?page=search

[993] B. Pijper, R. Martín, A.J. Huertas-Alonso, M.L. Linares, "Fully Automated Flow Protocol for C (sp3)–C (sp3) Bond Formation from Tertiary Amides and Alkyl Halides," *Organic Letters,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.orglett.3c01390

[992] Y. Hato, T.F. Jamison, "Multi-platform synthesis of ondansetron featuring process intensification in flow," *Reaction Chemistry & Engineering*, 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d3re00249g

[991] A. Slattery, Z. Wen, P. Tenblad, D. Pintossi, "An all-in-one multipurpose robotic

platform for the self-optimization, intensification and scale-up of photocatalysis in flow," *ChemRxiv,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/64809b97e64f843f41767eac

[990] P.G. Grützmacher, R. Neuhauser, K. Stagel, "Combining Tailored Ionic Liquids with Ti3C2T x MXenes for an Enhanced Load-Carrying Capacity under Boundary Lubrication," *Advanced Engineering Materials,* 2023. https://onlinelibrary.wiley.com/doi/10.1002/adem.202300721

[989] A. Kukor, "Leveraging novel process analytical technologies to access chiral small molecule drug precursors via dynamic crystallization," *PhD Thesis,* 2023. https://scholar.google.es/scholar_url?url=https://open.library.ubc.ca/media/download/pdf

[988] A. Azizan, L. Venter, P.J. Jansen van Rensburg, "Metabolite Changes of Perna canaliculus Following a Laboratory Marine Heatwave Exposure: Insights from Metabolomic Analyses," *Metabolites,* 2023. https://www.mdpi.com/2218-1989/13/7/815

[987] T.A. Nguyen, T.H. Nguyen, V.D. Pham, M.T. Vu, T.M.H. Pham, "Research Activities at Faculty of Chemical Technology, Hanoi University of Industry - 20 Years of Growth and Development," *Vietnam Journal of Chemistry,* 2023. https://onlinelibrary.wiley.com/doi/full/10.1002/vjch.202300081

[986] J. Garcia-Lacuna, M. Baumann, "Modular Photochemical Flow Synthesis of Structurally Diverse Benzyne and Triazine Precursors," *Advanced Synthesis & Catalysis,* 2023 https://onlinelibrary.wiley.com/doi/full/10.1002/adsc.202300414

[985] A. Cresswell, Q. Cao, J. Tibbetts, G. Wrigley, A. Smalley, "Modular, Automated Synthesis of Spirocyclic Tetrahydronaphthyridines from Primary Alkylamines," 2023. https://assets.researchsquare.com/files/rs-3146809/v1_covered_a2cbd9e6-0327-4c2ba86d- f08b5c29e752.pdf?c=1689241276

[984] E.E. Callard-Langdon, A. Steven, R.J. Kahan, "Shining a Light on the Advances,

Challenges and Realisation of Utilising Photoredox Catalysis in Pharmaceutical Development," *ChemCatChem,*2023. https://chemistryeurope.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202300537

[983] Y. Sato, J. Liu, I.E. Ndukwe, M.V.S. Elipe, D.J. Griffin "Liquid/liquid heterogeneous reaction monitoring: Insights into biphasic Suzuki-Miyaura cross-coupling," *Chem Catalysis,* 2023. https://www.cell.com/chem-catalysis/pdf/S2667-1093(23)00219-1.pdf

[982] J. R. Swierk, "The Cost of Quantum Yield," *Org. Process Res. Dev.,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.oprd.3c00167

[981] J.H. Dunlap, J.G. Ethier, A.A. Putnam-Neeb, S. Iyer, "Continuous flow synthesis of pyridinium salts accelerated by multi-objective Bayesian optimization with active learning," *Chemical Science,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01303k

[980] J. Noh, J.Y. Cho, M. Park, B.Y. Park, "Visible-Light-Mediated TiO2-Catalyzed Aerobic Dehydrogenation of N-Heterocycles in Batch and Flow," *The Journal of Organic Chemistry,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.joc.3c00743

[979] L. F. Peña, P. González-Andrés, L. G. Parte, R. Escribano, "Continuous Flow Chemistry: A Novel Technology for the Synthesis of Marine Drugs," *Marine Drugs,* 2023. https://www.mdpi.com/1660-3397/21/7/402

[978] M. Kraft, J. Bai, S. Mosbach, C. Taylor, D. Karan, K. F. Lee, "From Platform to KnowledgeGraph: Distributed Self-Driving Laboratories," 2023. https://assets.researchsquare.com/files/rs

[977] L. Chang, S. Wung, Q. An, L. liu, H. Wang, Y. Li, K. Feng, Z. Zuo, "Resurgence and advancement of photochemical hydrogen atom transfer processes in selective alkane functionalizations," *Chemical Science,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01118f

[976] S. Jana, V. Mayerhofer, C. Teskey "Photo- and electrochemical cobalt catalyzed hydrogen atom transfer for the hydrofunctionalisation of Alkenes," *Angewandte Chemie International Edition,* pp. e202304882, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202304882

[975] E. Cooper, E. Alcock, M. Power, G. McGlacken, "The α-alkylation of ketones in flow," *Reaction Chemistry and Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00229b

[974] M. Smyth, T.S. Moody, S. Wharry, M. Baumann, "Continuous flow synthesis of cyclobutenes using LED technology," *Synlett,* 2023. https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2086-0630

[973] P. Baronas, J.L. Elholm, K. Moth-Poulsen, "Efficient degassing and ppm level oxygen monitoring flow chemistry system," *Reaction Chemistry and Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00109a

[972] M. Oliva, V.V. Chernobrovkina, E.V. Van der Eycken. U.K. Sharma, "Boronic acids and their derivatives as continuous flow-friendly alkyl radical precursors," *Synlett,* 2023 https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2068-6038

[971] S.B.H. Patterson, R. Wong, G. Barker, F. Vilela, "Advances in continuous polymer analysis in flow with application towards biopolymers," *Journal of Flow Chemistry,* 20 https://link.springer.com/article/10.1007/s41981-023-00268-y

[970] P. Sagmeister, M. Prieschl, D. Kaldre, C. Gadiyar, C. Moessner, J. Sedelmeier, J.D. Williams, C.O. Kappe, "Continuous Flow-Facilitated CB2 Agonist Synthesis, Part 1: Azidation and [3+2] cycloaddition," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00036

[969] R. Ali, T. Patra, T. Wirth, "Alkene reactions with superoxide radical anions in flow electrochemistry," *Faraday Discussions,* 2023. https://pubs.rsc.org/en/content/articlelanding/2023/fd/d3fd00050h

[968] M. Zhang, P. Roth, "Flow photochemistry – from microreactors to large-scale

processing." *Science Direct,* 2023.
https://www.sciencedirect.com/science/article/abs/pii/S2211339823000011

[967] M. Krstic, S. Rossi, M. Sanz, A. Puglisi, "Laboratory scale continuous flow systems for the Enantioselective Phase Transfer catalytic synthesis of quaternary amino acids," *Molecules,* vol. 28, no. 3, pp. 1002, 2023.
https://www.mdpi.com/1420-3049/28/3/1002

[966] M. Molnar, M. Baumann, "Continuous flow synthesis of phenyl glucosazone and its conversion to 2h-1,2,3- triazole building blocks," *Journal of Flow Chemistry,* 2023.
https://link.springer.com/article/10.1007/s41981-022-00255-9

[965] A.A. Ryan, S. D. Dempsey, M. Smyth, K. Fahey, T.S. Moody, S. Wharry, P. Dingwall, D.W. Rooney, J.M. Thompson, P.C. Knipe, M.J. Muldoon, "Continuous flow epoxidation of alkenes using a homogenous manganese catalyst with paracetic acid," *ACS Publications,* vol. 27, no. 2, pp. 262-268, 2023.
https://pubs.acs.org/doi/10.1021/acs.oprd.2c00222

[964] K. Veeramani, N. Nayak, N. R. Cameron, A. Kumar, "Process intensification of dendritic fibrous nanospheres (DFMS) via continuous flow: a scalable and sustainable alternative to the conventional batch synthesis," *Reaction Chemistry and Engineering,* no. 4, 2023.
https://pubs.rsc.org/en/content/articlelanding/2023/re/d2re00405d

[963] Y. Sato, "Development of process analytical technologies and application for complicated reaction conditions," *Thesis,* 2023.
https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0423046

[962] B. Pijper, J. Alcázar, G. Oksdath-Mansilla, F. Bisogno, "Continuous-flow photochemistry as an automated platform integrated with closed-loop AI/ML approaches," *Chem Catalysis,* vol.3, no. 1, pp. 100488, 2023.
https://www.sciencedirect.com/science/article/pii/S2667109322006674

[961] Q. Wu, L. Li, B. Xu, J. Sun, D. Ji, Y. Li, L. Shen, Z. Fang, J. Duan, B. Chen, K. Guo, "Ironcatalyzed [4 + 2] annulation of amidines with α,β-unsaturated ketoxime acetates

toward 2,4,6-trisubstituted pyrimidines," *Green Synthesis and Catalysis,* 2023. https://www.sciencedirect.com/science/article/pii/S2666554923000017

[960] G. Kiala Kinkutu, C. Louis, M. Roy, J. Blanchard, J. Oble, "C3-Alkylation of Furfural Derivatives by Continuous Flow Homogeneous Catalysis," *ChemRxiv Catalysis,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/63e561ca9da0bc6b33a50b4b

[959] B. Wright, A. Matviitsuk, M. Black, P. García-Reynaga, L. Hanna, A. Herrmann, M. Ameriks, R. Sarpong, T. Lebold, "Skeletal Editing Approach to Bridge-Functionalized Bicyclo[1.1.1]pentanes from Aza-Bicyclo[2.1.1]hexanes," *ChemRxiv Organic Chemistry,* 2023. https://pubs.acs.org/doi/abs/10.1021/jacs.3c02616

[958] C. Taylor, K. Felton, D. Wigh, M. Jeraal, R. Grainger, G. Chessari, C. Johnson, A. Lapkin "Accelerated Chemical Reaction Optimization using Multi-Task Learning," *ChemRxiv Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/63d54989bb08ed3ed71ac4fa

[957] K. Veeramani, M. Shinde, V. Eda, B. Darapaneni, R. Hindupur, S. Madarapu, S. Sen, S. Oruganti, "Alternate end-game strategies towards Nirmatrelvir synthesis: Defining a continuous flow process for the preparation of an anti-COVID drug," *Tetrahedron Letters,* vol. 116, pp. 154344, 2023. https://www.sciencedirect.com/science/article/pii/S0040403923000084

[956] F. Fanini, A. Luridiana, D. Mazzarella, A. Alfano, P. van der Heide, J. Rincón, P. García-Losada, C. Mateos, M. Frederick, M. Nuño, T. Noël, "Flow photochemical Giese reaction via silanemediated activation of alkyl bromides," *Tetrahedron Letters,* vol. 117, pp. 154380, 2023. https://www.sciencedirect.com/science/article/pii/S0040403923000540

[955] K. Kiss, S. Ránky, G. Gyulai, L. Molnár, "Development of a novel, automated, robotic system for rapid, high-throughput, parallel, solid-phase peptide synthesis," *SLAS technology,* vol. 28, no. 2, pp. 89-97, 2023. https://www.sciencedirect.com/science/article/pii/S2472630323000031

[954] A. Labiche, M. Norlöff, S. Feuillastre, F. Taran, D. Audisio, "Continuous Flow Synthesis of Non-Symmetrical Ureas from CO2," *Asian Journal of Organic Chemistry,* vol. 12, no.3, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.202200640

[953] R. Rubert, R. Paul, "The applications of organozinc reagents in continuous flow chemistry: Negishi coupling," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-022-00253-x

[952] M. Molnar, M. Baumann, "Continuous flow synthesis of phenyl glucosazone and its conversion to 2H-1,2,3-Triazole building blocks," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-022-00255-9

[951] K. Simon, D. Znidar, J. Boutet, G. Guillamot, J. Lenoir, D. Dallinger, C. Kappe, "Generation of 1,2-Difluorobenzene via a Photochemical Fluorodediazoniation Step in a Continuous Flow Mode," *Organic Process Research & Development,* vol. 27, no. 2, pp. 322-330, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00348

[950] D. Tarange, N. Nayak, A. Kumar, "Continuous Flow Synthesis of Substituted 3,4-Propylenedioxythiophene Derivatives," *Organic Process Research & Development,* vol. 27, no.2, pp. 358-366, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00356

[949] K. Cole, J. Douglas, T. Hammerstad, C. Stephenson, "Visible-Light Photocatalysis AcademicIndustrial Collaboration Retrospective: Shared Learning and Impact Analysis," *Organic Process Research & Development,* vol. 27, no. 2, pp. 399-408, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00358

[948] M. Prieschl, P. Sagmeister, C. Moessner, J. Sedelmeier, J. Williams, C. Kappe, "Continuous Flow-Facilitated CB2 Agonist Synthesis, Part 2: Cyclization, Chlorination, and Amination," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00036

[947] H. Thankappan, C. Burke, B. Glennon, "Indium chloride catalysed benzyl bromination

using continuous flow technology," *Organic & biomolecular chemistry*, vol. 21, no. 2, pp. 508-513, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ob/d2ob01840c

[946] Y.M. Kang, R.H. Kim, S.R. Atriardi, S.K. Woo, "Visible-Light Photoredox-Catalyzed Giese Reaction of α-Silyl Ethers with Various Michael Acceptors," *The Journal of organic chemistry,* vol. 88, no. 6, pp. 3555-3566, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c02754

[945] D.V. Sutar, N.U. Sarang, A.B. Jamdade, B. Gnanaprakasam, "Continuous Flow Inter- and Intramolecular Macrolactonization under High Dilution Conditions," *The Journal of organic chemistry,* vol. 88, no. 6, pp. 3740-3759, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c03000

[944] A.I. Alfano, S. Pelliccia, G. Rossino, O. Chianese, V. Summa, S. Collina, M. Brindisi, "Continuous-Flow Technology for Chemical Rearrangements: A Powerful Tool to Generate Pharmaceutically Relevant Compounds," *ACS medicinal chemistry letters,* vol. 14, no. 3, pp. 326-337, 2023. https://pubs.acs.org/doi/abs/10.1021/acsmedchemlett.3c00010

[943] M. Krstić, S. Rossi, M. Sanz, A. Puglisi, "Laboratory Scale Continuous Flow Systems for the Enantioselective Phase Transfer Catalytic Synthesis of Quaternary Amino Acid," *Molecules (Basel,Switzerland),* vol. 28, no. 3, 2023. https://www.mdpi.com/1420-3049/28/3/1002

[942] R. Ali, R. Babaahmadi, M. Didsbury, R. Stephens, R.L. Melen, T. Wirth, "Flow Electrochemistry for the N-Nitrosation of Secondary Amines," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202300957, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202300957

[941] S. Michałek, A. Maj, L. Gurba-Bryśkiewicz, W. Maruszak, M. Zagozda, Z. Ochal, K. Dubiel, M. Wieczorek, "Development and optimization of a continuous flow ester reduction with LiAlH4 in the synthesis of a key intermediate for a PI3Kδ inhibitor (CPL302415*)," Reaction Chemistry ; Engineering,* 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d2re00561a

[940] M. Zhang, P. Roth, "Flow photochemistry – from microreactors to large-scale processing." *Science Direct,* 2023. https://www.sciencedirect.com/science/article/abs/pii/S2211339823000011

[939] M. Zhang, P. Roth, "Flow photochemistry — from microreactors to large-scale processing," *Current Opinion in Chemical Engineering,* vol. 39, pp. 100897, 2023. https://www.sciencedirect.com/science/article/pii/S2211339823000011

[938] A. Burke, M. Di Filippo, S. Spiccio, A.M. Schito, D. Caviglia, C. Brullo, M. Baumann, "Antimicrobial Evaluation of New Pyrazoles, Indazoles and Pyrazolines Prepared in Continuous Flow Mode," *International journal of molecular sciences,* vol. 24. no. 6, 2023. https://www.mdpi.com/1422-0067/24/6/5319

[937] F. Rodrigues, V.Masliy, M. Silva, A. Felgueiras, R. Carrilho, M. Pereira, "Catalytic multi-step continuous-flow processes for scalable transformation of eugenol into potential fragrances," *Catalysis Today,* vol. 418, pp. 114055, 2023. https://www.sciencedirect.com/science/article/pii/S0920586123000627

[936] E. Brenna, V. De Fabritiis, F. Parmeggiani, F. Tentori, D. Tessaro, "Lipase-Mediated Synthesis of Oleoyl Ethanolamide Starting from High-Oleic Sunflower Oil Soapstock," *ACS Sustainable Chemistry & Engineering,* vol. 11, no. 7, pp. 2764-2772, 2023. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.2c05598

[935] C.J. Taylor, A. Pomberger, K.C. Felton, R. Grainger, M. Barecka, T.W. Chamberlain, R.A. Bourne, C.N. Johnson, A.A. Lapkin, "A Brief Introduction to Chemical Reaction Optimization," *Chemical reviews,* vol. 123, no. 6, pp. 3089-3126, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.2c00798

[934] T. Kliś, "Visible-Light Photoredox Catalysis for the Synthesis of Fluorinated Aromatic Compounds," *Catalysts,* vol. 13, no. 1, pp. 94, 2023. https://www.mdpi.com/2045554

2022

Year total: 122

[933] A.I. Benitez-Mateos, A. Schneider, E. Hegarty, B. Hauer, F. Paradisi, "Spheroplasts preparation boosts the catalytic potential of a squalene-hopene cyclase," *Nature Journal,* vol. 13, no. 6269, 2022. https://www.nature.com/articles/s41467-022-34030-0

[932] C. Cavedon, S. Gisbertz, S. Reischauer, S. Vogl, E. Sperlich, J. H. Burke, R. F. Wallick, S. Schrottke, W. Hsu, L. Aghileri, Y. Pfeifer, N. Richter, C. Teutloff, H. Muller-Werkmeister, D. Cambie, P. H. Seeberger, J. Vura-Weis, R. M. Van dee Veen, A. Thomas, B. Pieber, "Intraligand charge transfer enables visible-light-mediated Nickel-catalysed cross-coupling reactions," *Angewandte Chemie International Edition,* vol. 61, no. 46, pp. e202211433, 2022. https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202211433

[931] R.I. Rodriguez, M. Sicignano, M.J. Garcia, R.C. Enriquez, S. Cabrera, J. Aleman, "Taming photocatalysis in flow: easy and speedy preparation of α-aminoamide derivatives," *Green Chemistry,* no. 17, 2022. https://pubs.acs.org/doi/10.1021/acscentsci.1c00303

[930] T. Cohen, N. Waiskopf, A. Levi, D. Stone, S. Remennik, U. Banin, "Flow synthesis of photocatalytic semiconductor-metal hybrid nanocrystals," *Nanoscale,* no. 5, 2022. https://pubs.rsc.org/en/content/articlelanding/2022/nr/d1nr07681g

[929] K. Machida, H. Yasukouchi, "Innovative process development of pharamaceutical intermediates under continuous- flow system," *Flow and Microreactor Technology in Medicinal Chemistry,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch9

[928] W. Hsu, S. Reischauer, P.H. Seeberger, B. Pieber, D. Cambie, "Heterogenous metallophotoredox catalysis in a continuous-flow packed bed reactor," *Beilstein Journal of Organic Chemistry,* vol. 18, pp. 1123-1130, 2022. https://www.beilstein-journals.org/bjoc/articles/18/115

[927] X. Tian, J. Kaur, S. Yakubov, J. P. Barham, "α-amino radical halogen atom transfer

agents for metallaphotoredox catalyzed cross-electrophile couplings of distinct organic halides," *ChemSusChem,* vol. 15, no. 15, pp. e202200906, 2022 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cssc.202200906

[926] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "Total synthesis of phytotoxic radulanin A facilitated by the photochemical ring expansion of a 2,2-dimethylchromene in flow," *ACS Publications,* vol. 24, no. 22, pp. 4029-4033, 2022. https://pubs.acs.org/doi/10.1021/acs.orglett.2c01462

[925] C.F. Liang, H.S. Hahm, N.M. Sabbavarapu, P.H. Seeberger, "Automated synthesis of chondroitin sulfate oligosaccharides," *MethodsMolBiol,* vol. 2303, pp. 319-327, 2022. https://pubmed.ncbi.nlm.nih.gov/34626390/

[924] G. Xu, H. Yan, S. Zhang, Q. Wu, J. Duan, K. Guo, "Iron-catalysed synthesis of pyridines from α,β-unsaturated ketoxime acetates and N-acetyl enamides," *Synlett,* vol. 33, no. 03, pp. 283287, 2022. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/a-1679-7225

[923] L. Candish, K.D. Collins, G.C. Cook, J.J. Douglas, A. Gomez-Suarez, A. Jolit, S. Keess, "Photocatalysis in the life science industry," *Chemical Reviews,* vol. 122, no. 2, pp. 2907-2980, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.1c00416

[922] Y. Ko, M. Kim, C. Noh, M. J. Kim, K. lee, J. Kim, S. D. Kim, S. S. Jee, "Organic-inorganic hybrid electro-optic material with disperse red 1 chromophore fabricated by flow chemistry," *Journal of Flow Chemistry,* vol. 12, pp. 79-90, 2022. https://link.springer.com/article/10.1007/s41981-021-00191-0

[921] L. Buglioni, F. Raymenants, A. Slattery, S.D.A. Zondag, T. Noel, "Technological Innovations in photochemistry for organic synthesis: Flow chemistry, high-Throughput Experimentation, scale-up, photochemistry," *Chemical Review,* vol. 122, no. 2, pp. 2752-2906, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.1c00332

[920] C. A. Shukla, B. Udaykumar, Y. Saisivanarayana, A. Ismaili, T. Haripriya, M. M. Shinde, S.

Neti, M. Uppada, V. Eda, S. Sen, S. Oruganti, “Delineating a green, catalyst free synthesis of a popular ntraceutical methylsulfonylmethane (MSM) in continuous flow,” *Journal of Flow Chemistry,* vol. 12, pp. 1-7, 2022. https://link.springer.com/article/10.1007/s41981-021-00186-x

[919] K. Baldwin, “Photochemical approaches to azetidines,” *Thesis,* 2022. http://eprints.nottingham.ac.uk/69782/

[918] T. Wan, Z. Wen, G. Laudadio, L. Capaldo, R. Lammers, J.A. Rincón, P. García-Losada, C. Mateos, M.O. Frederick, R. Broersma, T. Noël, “Accelerated and Scalable C(sp3)-H Amination via Decatungstate Photocatalysis Using a Flow Photoreactor Equipped with High-Intensity LEDs,” *ACS central science,* vol. 8, no. 1, pp. 51-56, 2022. https://link.springer.com/protocol/10.1007/978-1-0716-1579-9_14

[917] B. Casali, E. Brenna, F. Parmeggiani, F. Tentori, D. Tessaro, “Multi-step chemo-enzymatic synthesis of azelaic and pelargonic acids from the soapstock of high-oleic sunflower oil refinement,” *Green Chemistry*, vol. 24, no. 5, pp. 2082-2093, 2022. http://dx.doi.org/10.1039/d1gc03553c

[916] A.I. Benítez-Mateos, F. Paradisi, “Sustainable Flow-Synthesis of (Bulky) Nucleoside Drugs by a Novel and Highly Stable Nucleoside Phosphorylase Immobilized on Reusable Supports, *ChemSusChem,* vol. 15, no. 1, pp. e202102030, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202102030

[915] J.L. Nova-Fernández, M.J. García, L. Mollari, G. Pascual-Coca, S. Cabrera, J. Alemán, “Continuous-flow synthesis of alkyl zinc sulfinates for the direct photofunctionalization of heterocycles,” *Chemical communications (Cambridge, England),* 2022. https://pubs.rsc.org/en/content/articlehtml/2022/cc/d2cc01065h

[914] J.B. Azeredo, F. Penteado, V. Nascimento, L. Sancineto, A.L. Braga, E.J. Lenardao, C. Santi, “Green Is the Color": An Update on Ecofriendly Aspects of Organoselenium Chemistry,” *Molecules (Basel, Switzerland),* vol. 27, no. 5, 2022. https://www.mdpi.com/1521466

[913] T. Maschmeyer, L. Yunker, J. Hein, "Quantitative and convenient real-time reaction monitoring using stopped-flow benchtop NMR," *Reaction Chemistry & Engineering,* 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d2re00048b

[912] L. Wan, M. Jiang, D. Cheng, M. Liu, F. Chen, "Continuous flow technology-a tool for safer oxidation chemistry*," Reaction Chemistry ; Engineering,* vol. 7, no. 3, pp. 490-550, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d1re00520k

[911] H. Marçon, J. Pastre, "Continuous flow Meerwein-Ponndorf-Verley reduction of HMF and furfural using basic zirconium carbonate," *RSC Advances,* vol. 12, no. 13, pp. 7980-7989, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra00588c

[910] H. Lehmann, T. Ruppen, T. Knoepfel,"Scale-Up of Diazonium Salts and Azides in a Three-Step Continuous Flow Sequence," *Organic Process Research & Development*, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00016

[909] G. Gambacorta, I. Baxendale, "Continuous-Flow Hofmann Rearrangement Using Trichloroisocyanuric Acid for the Preparation of 2-Benzoxazolinone," *Organic Process Research & Development,* vol. 26, no. 2, pp. 422-430, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00440

[908] S. Nabil, E. Shalaby, M. Elkady, Y. Matsushita, A. El-Shazly, "Optimizing the Performance of the Meso-Scale Continuous-Flow Photoreactor for Efficient Photocatalytic CO2 Reduction with Water Over Pt/TiO2/RGO Composites," *Catalysis Letters,* 2022. https://link.springer.com/article/10.1007/s10562-021-03915-y

[907] M. Werłos, G. Kachkovskyi, M. Cieślak, P. Graczyk, P. Zawadzki, J. Kalinowska-Tłuścik, "Photocatalytic Approach to α,α-Difluoroalkyl Alcohols," *Photocatalytic Approach to α,αDifluoroalkyl Alcohols,* Synthesis, 2022. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0041-1737546

[906] J. Forni, M. Czyz, D. Lupton, A. Polyzos, "An electrochemical γ-C-H arylation of amines in

continuous flow," *Tetrahedron Letters,* vol. 91, pp. 153647, 2022. https://www.sciencedirect.com/science/article/pii/S0040403922000223

[905] J. Bai, L. Cao, S. Mosbach, J. Akroyd, A.A. Lapkin, M. Kraft, "From Platform to Knowledge Graph: Evolution of Laboratory Automation," *JACS Au,* vol. 2, no. 2, pp. 292-309, 2022. https://pubs.acs.org/doi/abs/10.1021/jacsau.1c00438

[904] A. Benítez-Mateos, A. Schneider, E. Hegarty, B. Hauer, F. Paradisi, "Spheroplasts preparation boosts the catalytic potential of a terpene cyclase," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/623b279f5c8dae26acf3e8c5

[903] M. Oliva, F. Martens, E. Van der Eycken, U. Sharma "A continuous-flow protocol for photoredox-catalyzed multicomponent Petasis reaction," *STAR Protocols*, vol. 3, no.1, pp.101162, 2022. https://www.sciencedirect.com/science/article/pii/S2666166722000429

[902] J.R. Baker, P.J. Cossar, M.A.T. Blaskovich, A.G. Elliott, "Amino Alcohols as Potential Antibiotic and Antifungal Leads," *Molecules,* 2022. https://www.mdpi.com/1553974

[901] D. Kyprianou, G. Rarata, G. Emma, G. Diaconu, M. Vahčič, "Flow chemistry and the synthesis of energetic materials," *European Commission,* 2022. http://dx.doi.org/10.2760/097972

[900] F. Sommer, R.G. Aeschbacher, U. Thurnheer, C.O. Kappe, "Sustainable and Scalable Synthesis of Noroxymorphone via a Key Electrochemical N-Demethylation Step," *ChemRxiv,*2022. https://chemrxiv.org/engage/chemrxiv/article-details/6241ff57bdebbaaa466f9be1

[899] C. Bracken, M. Baumann, "Assessment of the Impact of Continuous Flow Chemistry on Modern Heterocyclic Chemistry," *researchgate.net*, pp. 21-307, 2022. http://dx.doi.org/10.17374/targets.2022.25.281

[898] M.A. Quibus, "Hydrogénation de dérivés de cétones en flux continu par catalyse de paires de Lewis frustrées," *Thesis,* 2022.

https://pure.unamur.be/ws/portalfiles/portal/62795805/Quibus_Marie_Astrid_M_moire_de_ recherche.pdf

[897] A. Luridiana, D. Mazzarella, L. Capaldo, J.A. Rincón, P. García-Losada, C. Mateos, M.O. Frederick, M. Nuño, W. Jan Buma, T.Noël, "The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbofunctionalization of Olefins," *ACS catalysis,* vol. 12, no. 18, pp. 11216-11225, 2022. https://pubs.acs.org/doi/abs/10.1021/acscatal.2c03805

[896] A. Putnam-Neeb, J. Kaiser, A. Hubbard, D. Street, M. Dickerson, D. Nepal, L. Baldwin, "Selfhealing and polymer welding of soft and stiff epoxy thermosets via silanolates," *Advanced Composites and Hybrid Materials,* 2022. https://link.springer.com/article/10.1007/s42114-022-00558-4

[895] N. Abd Razak, P. Cognet, Y. Pérès, L. Gew, M. Aroua, "Kinetics and hydrodynamics of Candida antartica lipase-catalyzed synthesis of glycerol dioleate (GDO) in a continuous flow packedbed millireactor," *Journal of Cleaner Production*, vol. 373, pp. 13381, 2022. https://www.sciencedirect.com/science/article/pii/S0959652622033923

[894] H. Luo, J. Ren, Y. Sun, Y. Liu, F. Zhou, G. Shi, J. Zhou, "Recent advances in chemical fixation of CO2 based on flow chemistry," *Chinese Chemical Letters*, pp. 107782, 2022. https://www.sciencedirect.com/science/article/pii/S1001841722007938

[893] K. Kochetkov, N. Bystrova, P. Pavlov, M. Oshchepkov, A. Oshchepkov, "Microfluidic asymmetrical synthesis and chiral analysis," Journal of Industrial and Engineering Chemistry, vol., 115, pp. 62- 91, 2022. https://www.sciencedirect.com/science/article/pii/S1226086X22004518

[892] D. Perumal, M. Krishnan, K. Lakshmi, "Eco-friendly based stability-indicating RP-HPLC technique for the determination of escitalopram and etizolam by employing QbD approach," *Green Chemistry Letters and Reviews,* vol. 15, no. 3, pp. 671-682, 2022. https://www.tandfonline.com/doi/abs/10.1080/17518253.2022.2127334

[891] M.A. Levenstein, K. Robertson, T.D. Turner, L. Hunter, C. O'Brien, C.,

O'Shaughnessy A.N. Kulak, P. Le Magueres, J. Wojciechowski, O.O. Mykhaylyk, N. Kapur, F.C. Meldrum, "Serial small- and wide-angle X-ray scattering with laboratory sources," *IUCrJ*, vol. 9, no. Pt 5, pp. 538-543, 2022. https://scripts.iucr.org/cgi-bin/paper?lq5047

[890] D. Taylor, T. Malcomson, A. Zhakeyev, S. Cheng, G. Rosair, J. Marques-Hueso, Z. Xu, M. Paterson, S. Dalgarno, F. Vilela, "4,7-Diarylbenzo[c][1,2,5]thiadiazoles as fluorophores and visible light organophotocatalysts," *Organic Chemistry Frontiers*, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/qo/d2qo01316a

[889] J. Feng, X. Jia, S. Zhang, K. Lu, D. Cahard, "State of knowledge in photoredox-catalysed direct difluoromethylation," *Organic Chemistry Frontiers,* vol. 9, no. 13, pp. 3598-3623, 2022. http://dx.doi.org/10.1039/d2qo00551d

[888] M. Andresini, S. Carret, L. Degennaro, F. Ciriaco, J.F. Poisson, R. Luisi, "Multistep Continuous Flow Synthesis of Isolable NH2 -Sulfinamidines via Nucleophilic Addition to Transient Sulfurdiimide," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202202066, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202202066

[887] W. Li, M. Jiang, M. Liu, X. Ling, Y. Xia, L. Wan, F. Chen, "Development of a Fully ContinuousFlow Approach Towards Asymmetric Total Synthesis of Tetrahydroprotoberberine Natural Alkaloids," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 28, no. 33, pp. e202200700, 2022. https://www.sciencedirect.com/science/article/pii/S2666554922000795

[886] C. Carlucci, "An Overview on the Production of Biodiesel Enabled by Continuous Flow Methodologies," *Catalysts,* vol. 12, no. 7, pp. 717, 2022. https://www.mdpi.com/1703958

[885] O.M. Griffiths, S.V. Ley, "Multicomponent Direct Assembly of N-Heterospirocycles Facilitated by Visible-Light-Driven Photocatalysis," *The Journal of organic chemistry,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c01684

[884] A.M. Pandey, S. Mondal, B. Gnanaprakasam, "Continuous-Flow Direct Azidation of Alcohols and Peroxides for the Synthesis of Quinoxalinone, Benzooxazinone, and Triazole Derivatives," *The Journal of organic chemistry*, vol. 87, no. 15, pp. 9926-9939, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c00941

[883] B. Venezia, D. Morris, A. Gavriilidis, "Taylor-vortex membrane reactor for continuous gasliquid reactions," *AIChE Journal,* 2022. https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/aic.17880

[882] M. Mlakić, L. Rajič, A. Ljubić, V. Vušak, B. Zelić, M. Gojun, I. Odak, I. Čule, I. Šagud, A. Šalić, I. Škorić, "Synthesis of new heterocyclic resveratrol analogues in milli- and microreactors: intensification of the Wittig reaction," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00239-9

[881] W. Connors, R. DeKorte, S. Lucas, A. Gopalsamy, R. Ziegler, "Synthesis of Benzothiazinones from Benzoyl Thiocarbamates: Application to Clinical Candidates for Tuberculosis Treatment," *European Journal of Organic Chemistry,* vol. 2022, no. 34, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202200684

[880] K. Safo, H. Noby, M. Matatoshi, H. Naragino, A. El-Shazly, "Statistical optimization modeling of organic dye photodegradation process using slag nanocomposite," *Research on Chemical Intermediates,* vol. 48, no. 10, pp. 4183-4208, 2022. https://link.springer.com/article/10.1007/s11164-022-04807-5

[879] A. Mittal, G. Prakash, P. Pathak, D. Maiti, "Synthesis of CTA and DNAN Using Flow Chemistry," *Asian Journal of Organic Chemistry,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.20220044

[878] J.H. Griwatz, A. Kunz, H.A. Wegner, "Continuous flow synthesis of azobenzenes via BaeyerMills reaction," *Beilstein journal of organic chemistry*, vol. 18, pp. 781-787, 2022. https://www.beilstein-journals.org/bjoc/articles/18/78

[877] V. Laude, M. Nuño, R.C. Moses, D. Guthrie, "Evaluation of unexpected protecting group

removal in solid-phase peptide synthesis: Quantified using continuous flow methods," *Journal of peptide science : an official publication of the European Peptide Society,* pp. e3441, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/psc.3441

[876] A. Riddell, P. Kvist, D. Bernin, "A 3D printed photoreactor for investigating variable reaction geometry, wavelength, and fluid flow," *The Review of scientific instruments*, vol. 93,no. 8, pp. 084103, 2022. https://aip.scitation.org/doi/abs/10.1063/5.0087107

[875] E. Broumidis, C. Thomson, B. Gallagher, L. Sotorríos, K. McKendrick, S. Macgregor, M. Paterson, J. Lovett, G. Lloyd, G. Rosair, A. Kalogirou, P. Koutentis, F. Vilela, "Photochemical Ring Editing: Access to Privileged 1,2,5-Thiadiazole Scaffolds via Efficient Carbon Excision from Thiadiazines Under Ambient, Aerobic Conditions," *ChemRxiv Organic Chemistry*, 2022. https://chemrxiv.org/engage/chemrxiv/article-details/6304c0620187d93ebb9e35fe

[874] S. Pillitteri, P. Ranjan, G. Ojeda-Carralero, L. Vázquez Amaya, J. Alfonso-Ramos, E. Van der Eycken, U. Sharma, "Merging dual photoredox/cobalt catalysis and boronic acid (derivatives) activation for the Minisci reaction," *ChemRxiv Organic Chemistry*, 2022. https://chemrxiv.org/engage/chemrxiv/article-details/631080ad11986c10ce4e2761

[873] L. Wan, G. Kong, M. Liu, M. Jiang, D. Cheng, F. Chen, "Flow chemistry in the multi-step synthesis of natural products," *Green Synthesis and Catalysis,* vol. 3, no. 3, pp. 243-258, 2022. http://dx.doi.org/10.1016/j.gresc.2022.07.007

[872] F. Akwi, P. Watts, "Application of Continuous-Flow Processing in Multistep API and Drug Syntheses," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 199-231, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch6

[871] P. Richardson, "Flow Chemistry in Medicinal Chemistry: Applications to Bcr-Abl Kinase Inhibitors," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 103-158, 2022.

https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch4

[870] H. Wang, "Analysis of the Current Uses and Future Possibilities of Flow Chemistry in Organic synthesis," *Highlights in Science, Engineering and Technology,* 2022. https://drpress.org/ojs/index.php/HSET/article/view/3238

[869] V. Masliy, "Sustainable synthesis of natural-based potential fragrances via flow chemistry," *Thesis,* 2022. https://estudogeral.uc.pt/handle/10316/104724

[868] A. Kremsmair, "Stereoretentive preparation and reactions of highly optically enriched secondary alkyllithium, alkylmagnesium and alkylzinc reagents," *Thesis,* 2022. https://edoc.ub.uni-muenchen.de/30976/1/Kremsmair_Alexander.pdf

[867] F. Herbrik, "(Asymmetric) photocatalysi under homogenous and heterogenous conditions – optimization in continuo, novel catalytic reactors and materials," *Thesis,* 2022. https://air.unimi.it/handle/2434/938229

[866] M. Krystic, "In batch and in flow synthesis of quaternary amino acids/amino derivatives," *Thesis,* 2022. https://air.unimi.it/bitstream/2434/938246/6/phd_unimi_R12466_1.pdf

[865] A. Santanilla, G. Cook, "Applications of High Throughput Chemistry to Medicinal Chemistry," *The Power of High-Throughput Experimentation: Case Studies from Drug Discovery, Drug Development, and Catalyst Discovery (Volume 2),* pp. 21-mar, 2022. https://pubs.acs.org/doi/abs/10.1021/bk-2022-1420.ch001

[864] A. Burke, S. Spiccio, M. Di Filippo, M. Baumann, "Photochemical Synthesis of Pyrazolines from Tetrazoles in Flow," *SynOpen,* 2022. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/a-1995-1859

[863] J. Spils, T. Wirth, B. Nachtsheim, "Two-Step Continuous-Flow Synthesis of 6-Membered Cyclic Iodonium Salts via Anodic Oxidation," *ChemRxiv Organic Chemistry,* 2022. https://chemrxiv.org/engage/chemrxiv/article-

details/634bfda24a18762789e5c3b1

[862] A. Kumar Mittal, G. Prakash, P. Pathak, D. Maiti, "Synthesis of Picramide Using Nitration and Ammonolysis in Continuous Flow," *Chemistry, an Asian journal,* pp. e202201028, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202201028

[861] J. Sharley, G. Gambacorta, A. Collado Pérez, E. Ferri, A. Miranda, I. Fernández, J. Quesada, I. Baxendale, "A simple one-pot oxidation protocol for the synthesis of dehydrohedione from Hedione," *Tetrahedron,* pp. 133068, 2022. https://www.sciencedirect.com/science/article/pii/S0040402022005361

[860] M. Ivanova, T. Poisson, P. Jubault, J. Legros, "Flow platform for the synthesis of benzodiazepines," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00243-z

[859] E. Brown, "Minireview: recent efforts toward upgrading lignin-derived phenols in continuous flow," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00248-8

[858] S. Donzella, A. Colacicco, L. Nespoli, M.L. Contente, "Mimicking Natural Metabolisms: CellFree Flow Preparation of Dopamine," *Chembiochem : a European journal of chemical biology,* pp. e202200462, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cbic.202200462

[857] S. Lathrop, L. Mlinar, O. Manjrekar, Y. Zhou, K. Harper, E. Sacia, M. Higgins, A. Bogdan, Z. Wang, S. Richter, W. Gong, E. Voight, J. Henle, M. Diwan, J. Kallemeyn, J. Sharland, B. Wei, H. Davies, "Continuous Process to Safely Manufacture an Aryldiazoacetate and Its Direct Use in a Dirhodium-Catalyzed Enantioselective Cyclopropanation," *Organic Process Research & Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00288

[856] M.B. Chaudhari, P. Gupta, P. Llanes, L. Zhou, N. Zanda, M.A. Pericàs, "An enantio- and diastereoselective approach to indoloquinolizidines in continuous flow," *Organic & biomolecular chemistry,* vol. 20, no. 42, pp. 8273-8279, 2022.

http://dx.doi.org/10.1039/d2ob01462a

[855] D. Drelinkiewicz, R.J. Whitby, "A practical flow synthesis of 1,2,3-triazoles," *RSC advances,* vol. 12, no. 45, pp. 28910-28915, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra04727f

[854] S. Michałek, L. Gurba-Bryśkiewicz, W. Maruszak, M. Zagozda, A.M. Maj, Z. Ochal, K. Dubiel, M. Wieczorek, "The design of experiments (DoE) in optimization of an aerobic flow Pd-catalyzed oxidation of alcohol towards an important aldehyde precursor in the synthesis of phosphatidylinositide 3-kinase inhibitor (CPL302415)," *RSC advances,* vol. 12, no. 52, pp. 33605-33611, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra07003k

[853] G. Righetti, F. Tentori, E. Brenna, C. Gambarotti, "Development of a flow process for an easy and fast access to 2-pyrone derivatives," *Reaction Chemistry & Engineering,* vol. 8, no.1, pp. 199-204, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00312k

[852] K. Veeramani, N. Nayak, N. Cameron, A. Kumar, "Process intensification of dendritic fibrous nanospheres of silica (DFNS) via continuous flow: a scalable and sustainable alternative to the conventional batch synthesis," *Reaction Chemistry & Engineering*, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00405d

[851] S. Mondal, A. Pandey, B. Gnanaprakasam, "Continuous-flow Fe-zeolite-catalyzed temperature-directed synthesis of bioactive tetraketones and xanthenes using epoxides and cyclic-1,3-diketones via a Meinwald rearrangement," *Reaction Chemistry & Engineering*, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00452f

[850] S. Zhu, H. Li, Y. Li, Z. Huang, L. Chu, "Exploring visible light for carbon-nitrogen and carbonoxygen bond formation via nickel catalysis," *Organic Chemistry Frontiers,* 2022. https://pubs.rsc.org/en/content/articlehtml/2023/qo/d2qo01700h

[849] B. Pijper, I. Abdiaj, D. Leonori, J. Alcázar, "Development of an automated platform for

C(sp3)C(sp3) bond formation via XAT chemistry," *ChemCatChem*, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202201289

[848] A. Cruise, M. Baumann, "TBADT-Mediated C-C Bond Formation Exploiting Aryl Aldehydes in a Photochemical Flow Reactor," *ChemCatChem*, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202201328

[847] R. Crawford, M. Di Filippo, D. Guthrie, M. Baumann, "Consecutive photochemical reactions enabled by a dual flow reactor coil strategy," *Chemical communications (Cambridge, England)*, vol. 58, no. 95, pp. 13274-13277, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/cc/d2cc05601a

[846] H. Kim, J. Lee, S. Jae Lee, J. Eun Oh, S. Dong Kim, Y. Malpani, Y. Hwang, B. Park, "Improving the sustainability and safety of ursodeoxycholic acid synthesis in continuous flow process with water," *Journal of Industrial and Engineering Chemistry,* 2022. https://www.sciencedirect.com/science/article/pii/S1226086X22006785

[845] I. Abdiaj, S. Cañellas, A. Dieguez, M.L. Linares, B. Pijper, A. Fontana, R. Rodriguez, A. Trabanco, E. Palao, J. Alcázar, "End-to-End Automated Synthesis of C(sp3)-Enriched Drug-like Molecules via Negishi Coupling and Novel, Automated Liquid-Liquid Extraction," *Journal of medicinal chemistry*, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.2c01646

[844] J.J. Walkowiak, C. van Duijnhoven, P. Boeschen, N.A Wolter, J. Michalska-Walkowiak, M. Dulle, A. Pich, "Multicompartment polymeric colloids from functional precursor Microgel: Synthesis in continuous process," *Journal of colloid and interface science,* vol. 634, pp. 243254, 2022. https://www.sciencedirect.com/science/article/pii/S0021979722021920

[843] W.A. Ribeiro Junior, "Análise da distribuição de vapor de uma lavanderia hospitalar," *Thesis,* 2022. https://repositorio.ufu.br/handle/123456789/35099

[842] J. Sæle, "Design and Synthesis of xCT Inhibitor Candidates," *Thesis,* 2022.

https://bora.uib.no/bora-xmlui/bitstream/handle/11250/3014567/Design-and-Synthesis-of-xC T-Inhibitor-Candidates.pdf?sequence=1

[841] A. Bogdan, "Flow Chemistry at the Extremes: Turning Complex Reactions into Scalable Processes," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 31-Jan, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch1

[840] M. Linares, E. López, E. Palao, J. Alcázar, "Flow Chemistry Opportunities for Drug Discovery," *Flow and Microreactor Technology in Medicinal Chemistry*, pp. 67-102, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch3

[839] B. Heinz, "The Preparation of Ketones in Continuous Flow using Li- or MgOrganometallics and Convenient Ester and Amide Acylation Reagents and The Preparation of Functionalized Pyridines via Pyridyne Intermediates," *Thesis*, 2022. https://edoc.ub.uni-muenchen.de/29756/1/Heinz_Benjamin_Lukas.pdf

[838] C. Lai, "Synthèse de sulfilimines et sulfoximines à partir de N-mésyloxycarbamates catalysée par des complexes de fer," *Thesis,* 2022. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/26404

[837] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "A concise total synthesis of phytotoxic radulanin A facilitated by the photochemical ring expansion of a 2,2-dimethylchromene in flow," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/62693c0cef2ade019c3f214f

[836] Z. Wen, D. Pintossi, M. Nuno, T. Noel, "Membrane-based TBADT recovery: increasing the sustainability of continuous-flow photocatalytic HAT transformations," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/629304972f3a05788108a0a8

[835] J. Harenberg, R. Reddy Annapureddy, K. Karaghiosoff, P. Knochel, "Herstellung von Benzylischen Natrium Metallorganylen im Kontinuierlichen Durchfluss," *Angewandte Chemie*, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202203807

[834] A. Ladosz, B. Martin, "Selected Topic: SCS Seminar on Flow Chemistry 2022: Flow

Chemistry Highlights," *Conferrence,* 2022. https://chimia.ch/chimia/article/download/2022_367/5318

[833] F. Lou, Q. Cao, C. Zhang, N. Ai, Q. Wang, J. Zhang, "Continuous synthesis of benzaldehyde by ozonolysis of styrene in a micro-packed bed reactor," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00220-6

[832] C. Buonomano, M. Holtz-Mulholland, S. Sullivan, P. Forgione, "Development of a palladiumcatalyzed decarboxylative arene cross-coupling of pyrrole derivatives in a flow reactor," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00222-4

[831] M. Ivanova, J. Legros, T. Poisson, P. Jubault, "A multi-step continuous flow synthesis of pomalidomide," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00223-3

[830] M.S. Phull, S.S. Jadav, C.S. Bohara, R. Gundla, P.S. Mainkar, "Continuous flow process for preparing budesonide," *Journal of flow chemistry*, vol. 12, no. 2, pp. 237-246, 2022. https://link.springer.com/article/10.1007/s41981-022-00221-5

[829] L. Vinet, L. Di Marco, V. Kairouz, A. harette, "Process Intensive Synthesis of Propofol Enabled by Continuous Flow Chemistry," *Organic Process Research & Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00416

[828] U. Wietelmann, J. Klösener, P. Rittmeyer, S. Schnippering, H. Bats, W. Stam, "Continuous Processing of Concentrated Organolithiums in Flow Using Static and Dynamic Spinning Disc Reactor Technologies," *Organic Process Research ; Development,* vol. 26, no. 5, pp. 1422-1431, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00007

[827] R. Radjagobalou, M. Imbratta, J. Bergraser, M. Gaudeau, G. Lyvinec, D. Delbrayelle, O. Jentzer, J. Roudin, B. Laroche, S. Ognier, M. Tatoulian, J. Cossy, P. Echeverria, "Selective Photochemical Continuous Flow Benzylic Monochlorination," *Organic Process*

Research ; Development, vol. 26, no. 5, pp. 1496-1505, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00065

[826] B. Vandekerckhove, N. Piens, B. Metten, C. Stevens, T. Heugebaert, "Practical Ferrioxalate Actinometry for the Determination of Photon Fluxes in Production-Oriented Photoflow Reactors," *Organic Process Research; Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00079

[825] M. Hosoya, M. Tanaka, A. Manaka, S. Nishijima, N. Tsuno, "Integration of Liquid-Liquid Biphasic Flow Alkylation and Continuous Crystallization Using Taylor Vortex Flow Reactors," *Organic Process Research ; Development,* vol. 26, no. 5, pp. 1531-1544, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00088

[824] M. Rodriguez-Zubiri, F. Felpin, "Analytical Tools Integrated in Continuous-Flow Reactors: Which One for What?," *Organic Process Research ; Development, vol. 26,* no. 6, pp. 1766-1793, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00102

[823] N. Fuenzalida, E. Alme, F. Lundevall, H. Bjørsvik, "An environmentally benign and high-rate Appel type reaction," *Reaction Chemistry ; Engineering*, vol. 7, no. 7, pp. 1650-1659, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d2re00071g

[822] K. Donnelly, M. Baumann, "Continuous Flow Technology as an Enabler for Innovative Transformations Exploiting Carbenes, Nitrenes, and Benzynes," The Journal of organic chemistry, vol. 87, no. 13, pp. 8279-8288, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c00963

[821] A. Marchand, R. Mishra, A. Bernard, J.N. Dumez, "Online reaction monitoring with fast and flow-compatible diffusion NMR spectroscopy," *Chemistry (Weinheim an der Bergstrasse, Germany),* 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202201175

[820] T. Shioiri, K. Ishihara, M. Matsugi, "Cutting edge of diphenyl phosphorazidate (DPPA) as a synthetic reagent - A fifty-year odyssey," *Organic Chemistry Frontiers*, vol. 9, no. 12,

pp. 33603391, 2022.
https://pubs.rsc.org/en/content/articlehtml/2022/qo/d2qo00403h

[819] F. Herbrik, S. Rossi, M. Sanz, A. Puglisi, M. Benaglia, "Immobilized Eosin Y for the photocatalytic oxidation of tetrahydroisoquinolines in flow," *ChemCatChem,* 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202200461

[818] K. Guo, G. Xu, X. Wang, C. Jia, H. Yan, S. Zhang, Q. Wu, N. Zhu, Z. Fang, J. Duan, "Synthesis of 2,4,6-Trisubstituted Pyrimidines via Iron-Catalyzed Homocoupling of α,β-Unsaturated Ketoximes," *Advanced Synthesis & Catalysis,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202200554

[817] X. Li, Y. Yang, "Automated Chemical Solid-Phase Synthesis of Glycans," *Chinese Journal of Chemistry,* vol. 40, no. 14, pp. 1714-1728, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/cjoc.202200183

[816] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "Total Synthesis of Phytotoxic Radulanin A Facilitated by the Photochemical Ring Expansion of a 2,2-Dimethylchromene in Flow," *Organic letters,* vol. 24, no. 22, pp. 4029-4033, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.2c01462

[815] F. Annunziata, M.L. Contente, V. Anzi, S. Donzella, P. Conti, F. Molinari, P. A. Martino, G. Meroni, V.M. Sora, L. Tamborini, A. Pinto, "Enzymatic continuous-flow preparation of natureinspired phenolic esters as antiradical and antimicrobial agents," *Food chemistry*, vol. 390, pp. 133195, 2022. https://www.sciencedirect.com/science/article/pii/S0308814622011578

[814] J.H. Harenberg, R. Reddy Annapureddy, K. Karaghiosoff, P. Knochel, "Continuous Flow Preparation of Benzylic Sodium Organometallics," *Angewandte Chemie (International ed. in English),* pp. e202203807, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202203807

[813] Z. Huang, M. Shanmugam, Z. Liu, A. Brookfield, E.L. Bennett, R. Guan, D.E. Vega Herrera, J.A. Lopez-Sanchez, A.G. Slater, E.J.L. McInnes, X. Qi, J. Xiao, "Chemical Recycling of Polystyrene to Valuable Chemicals via Selective Acid-Catalyzed Aerobic Oxidation

under Visible Light," *Journal of the American Chemical Society,* vol. 144, no. 14, pp. 6532-6542, 2022. https://pubs.acs.org/doi/abs/10.1021/jacs.2c01410

[812] S. Gnaim, A. Bauer, H.J. Zhang, L. Chen, C. Gannett, C.A Malapit, D.E. Hill, D. Vogt, T. Tang, R.A. Daley, W. Hao, R. Zeng, M. Quertenmont, W.D. Beck, E. Kandahari, J.C. Vantourout, P.G. Echeverria, H.D. Abruna, D.G. Blackmond, S.D. Minteer, S.E. Reisman, M.S. Sigman, P.S. Baran, "Cobalt-electrocatalytic HAT for functionalization of unsaturated C-C bonds," *Nature,* vol. 605, no. 7911, pp. 687-695, 2022. https://www.nature.com/articles/s41586-022-04595-3

2021

Year total: 110

[811] F. Anunziata, M. L. Contente, C. Pinna, L. Tamborini, A. Pinto, "Biocatalyzed flow oxidation of tyrosol to hydroxytyrosol and efficient production of their acetate esters," *Antioxidants,* vol. 10, no. 7, pp. 1142, 2021. https://www.mdpi.com/2076-3921/10/7/1142

[810] C. G. Thomson, C. Banks, M. Allen, G. Baker, C. R. Coxon, A. L. Lee, F. Vilela, "Expanding the tool kit of automated flow synthesis: development of In-line flash chromatography purification," *Journal of Organic Chemistry,* vol. 86, no. 20, pp. 14079-14094, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01151

[809] A. Scurria, M. Pagliaro, R. Ciriminna, "Quick, convenient, and clean: advancing education in green chemistry and nanocatalysis using solgel catalysts under flow," *Current Research in Green and sustainable Chemistry,* vol. 4, 2021. https://www.sciencedirect.com/science/article/pii/S2666086521000709

[808] A. Di Michele, S. Giovagnoli, P. Filipponi, F. Venturoni, A. Gioiello, "SBA 15-supported Nanoruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow conditions," *Tetrahedron Letters,* vol. 86, pp. 153509, 2021. https://www.sciencedirect.com/science/article/abs/pii/S0040403921007978#:~:text=SBA15%2Dsupported%20ruthenium%20nanoparticles%20were,for%20producing%20aldehydes%20fro m%20alkenes.

[807] A. B. Wood, S. Plummer, R. I. Robinson, M. Smith, J. Chang, F. Gallou, B. H. Lipshutz, "Continuous slurry plig flow Fe/ppm Pd nanoparticle catalyzed Suzuki-miyaura couplings in water utilizing novel solid handling equipment," *Green Chemistry,* no. 19, 2021. https://pubs.rsc.org/en/content/articlehtml/2021/gc/d1gc02461b

[806] J. A. Souto, "Continuous-flow preparation of benzotropolones: combined batch and flow synthesis of epigenetic modulators of the (JmjC)- containing domain," *Chemistry Select,* vol. 6, no. 39, pp. 10717-10721, 2021. https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.202102457

[805] M. Oliva, P. Ranjan, S. Pillitteri, C. A. Coppola, M. Messina, E. V. van der Eycken, U. K. Sharma "Photoredox-catalyzed multicomponent Petasis Reaction in Batch and Continuous Flow with Alkyl Boronic acids," *iScience,* vol. 24, no. 10, pp. 103134, 2021. https://www.sciencedirect.com/science/article/pii/S2589004221011020

[804] O. M. Griffiths, H. A. Esteves, Y. Chen, K. Sowa, O. S. May, P. Morse, D. C. Blakemre, S. V. Ley, "Photoredox-Catalyzed Dehydrogenative Csp3-Csp2 cross-coupling of alkylarenes to aldehydes in flow," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13559-13571, 2021. https://pubs.acs.org/doi/10.1021/acs.joc.1c01621

[803] P. Richardson, I. Abdiaj, "Drug discovery automation and library synthesis in flow," *Flow Chemistry in Drug Discovery,* pp. 421-479, 2021. https://link.springer.com/chapter/10.1007/7355_2021_135

[802] T. Tiyasakulchai, N. Charoensekatul, T. Khamkhenshorngphanuch, C. Thongpanchanga, O. Srikun, Y. Yuthavong, N. Srimongkolpithak, "Scalable synthesis of favipiravir via conventional and continuous flow chemistry," *RSC Advances,* no. 61, 2021. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9044180/

[801] J. A. Souto, "Continuous-flow preparation of benzotropolones: combined batch and flow synthesis of epigenetic modulators of the (JmjC)- containing domain," *Chemistry Select,* vol. 6, no. 39, pp. 10717-10721, 2021.

https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.20210245

[800] M. Oliva, P. Ranjan, S. Pillitteri, C. A. Coppola, M. Messina, E. V. van der Eycken, U. K. Sharma "Photoredox-catalyzed multicomponent Petasis Reaction in Batch and Continuous Flow with Alkyl Boronic acids," *iScience,* vol. 24, no. 10, pp. 103134, 2021. https://www.sciencedirect.com/science/article/pii/S2589004221011020

[799] O. M. Griffiths, H. A. Esteves, Y. Chen, K. Sowa, O. S. May, P. Morse, D. C. Blakemore, S. V. Ley, "Photoredox-Catalyzed Dehydrogenative Csp3-Csp2 cross-coupling of alkylarenes to aldehydes in flow," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13559-13571, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01621

[798] P. Richardson, I. Abdiaj, "Drug discovery automation and library synthesis in flow," *Flow Chemistry in Drug Discovery,* pp. 421-479, 2021. https://www.researchgate.net/publication/356900088_Drug_Discovery_Automation_and_Lib rary_Synthesis_in_Flow

[797] T. Tiyasakulchai, N. Charoensekatul, T. Khamkhenshorngphanuch, C. Thongpanchanga, O. Srikun, Y. Yuthavong, N. Srimongkolpithak, "Scalable synthesis of favipiravir via conventional and continuous flow chemistry," *RSC Advances,* no. 61, 2021. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9044180/

[796] 乔凯张锴李玉光何伟郭凯 "Method for preparing epoxidized trans-1,4- polyisoprene by using microreaction device," CN113354758A, *Nanjing Advanced Biomaterials And Process Equipment Research Institute Co. ltd.* 2021. https://patents.google.com/patent/CN113354758A/en

[795] V. E. Murie, P. V. Nicolino, T. dos Santos, G. Gambacorta, R. H. V. Nishimura, I. S. Perovani, L. C. Furtado, L. V. Costa-lotufo, A. M. de Oliveira, R. Vessecchi, I. R. Baxendale, G. C. Closoki, "Synthesis of 7- chloroquinoline derivatives using mixed lithium-magnesium reagents," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13402-13419, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01521

[794] H. E. Askey, J. D. Grayson, J. D. Tibbetts, J. C. Turner-Dore, J. M. Holmes, G.

Kociok-Kohn, G. L. Wrigley, A. J. Cresswell, “Photocatalytic hydroaminoalkylation of styrenes with unprotected primary alkylamines,” *Journal of American Chemical Society,* vol. 143, no. 39, pp. 1593615945, 2021. https://pubs.acs.org/doi/abs/10.1021/jacs.1c07401

[793] B. Poznansky, S. E. Cleary, L. A. Thompson, H. A. Reeve, K. A. Vincent, “Boosting the productivity of H2-driven biocatalysis in a commercial hydrogenation flow reactor using H2 from water electrolysis,” *Frontiers Chemical Engineering,* 2021. https://www.researchgate.net/publication/353736661_Boosting_the_Productivity_of_H2-Driven_Biocatalysis_in_a_Commercial_Hydrogenation_Flow_Reactor_Using_H2_From_Water_El ectrolysis

[792] M. Wernik, G. Sipos, B. Buchholcz, F. Darvas, Z. Novak, S. B. Otvos, C. O. Kappe, “Continuous flow heterogeneous catalytic reductive aminations under aqueous micellar conditions enabled by an oscillatory plug flow reactor,” *Green Chemistry,* no. 15, 2021. https://pubs.rsc.org/en/content/articlelanding/2021/gc/d1gc02039k

[791] P. Bianchi, J. D. Williams, C. O. Kappe, “Continuous flow processing of bismuth-photocatalyzed atom transfer radical addition reaction using an oscillatory flow reactor,” *Green Chemistry,* no. 7, 2021. https://pubs.rsc.org/en/content/articlelanding/2021/gc/d0gc03070h

[790] A. Pulcinella, D. Mazzarella, T. Noel, “Homogenous Catalytic C(sp3)-H functionalization of gaseous alkanes” *Chemical Communications,* no. 78, 2021 https://pubs.rsc.org/en/content/articlehtml/2021/cc/d1cc04073a

[789] D. Polterauer, J. D. Williams, C. A. Hone, C. O. Kappe, “Telescoped lithiation, C –arylation and methoxylation in flow batch hybrid toward the synthesis of canagliflozin,” *Tetrahedron Letters,* vol. 82, pp. 153351, 2021. https://www.sciencedirect.com/science/article/pii/S0040403921006110

[788] F. Sommer, D. Cantillo, C. O. Kappe, “A small footprint ocycodone generator based on continuous flow technology and real time analytics,” *Journal of Flow Chemistry,* vol. 11,

pp. 707-715, 2021.
https://link.springer.com/article/10.1007/s41981-021-00193-y

[787] P. Ranjan, S. Pillitteri, G. Coppola, M. Oliva, E. V. van der Eycken, U. K. Sharma, "Unlocking the accessibility of alkyl radicals from boronic acids through solvent-assisted organophotoredox activation," *American Chemical Society,* vol. 11, no. 17, pp. 10862-10870, 2021.
https://pubs.acs.org/doi/abs/10.1021/acscatal.1c02823

[786] B. J. M. Baker, W. J. Kerr, D. M. Lindsay, V. K. K. Patel, D. L. Poole, "A sustainable and scalable multicomponent continuous flow process to access fused imidazoheterocycle pharmacophores," *Green Chemistry,* no. 1, 2021.
https://pubs.rsc.org/ko/content/articlehtml/2021/gc/d0gc03675g

[785] P. Alper, J. Deane, S. Jiang, Tao, Jiang, T. Knoepfel, P. Y. Michellys, D. Mutnic, W. Pei, P. Syka, G. Zhang, Y. Zhang, "Compounds and compositions as inhibitors of endosomal toll-like receptors," US201902110009A1, 2021.
https://patents.google.com/patent/US20190211009A1/en

[784] J. Orrego-Hernández, H. Hölzel, M. Quant, Z. Wang, K. Moth-Poulsen, "Scalable Synthesis of norbornadienes via in situ Cracking of Dicyclopentadiene Using Continuous Flow Chemistry," *European Journal of Organic Chemistry,* vol. 2021, no. 38, 2021.
https://research.chalmers.se/publication/526064/file/526064_Fulltext.pdf

[783] W. Shin, W. Ko, S. H. Jin, T. Earmme, Y. J. Hwang, "Reproducible and rapid synthesis of a conjugated polymer by stille polycondensation in flow effects of reaction parameters on molecular weight," *Chemical Engineering Journal* vol. 412, 2021.
https://www.sciencedirect.com/science/article/pii/S1385894721001716

[782] D. Li, H. Zhang, T. W. Lyons, T. A. Martinot, A. Achab, M. Lu, L. Nogle, S. McMinn, M. Mitcheltree, M. Childers, Q. Pu, S. Gathiaka, A. Palani, K. Chakravarthy, A. Decastro, J. O'neil, R. Afshar, N. C. Walsh, P. W. Fan, M. Cheng, R. Miller, A. Doty, R. Palte, H. Y. Kim, J. Sauri, A. Beard, C. Brynczka, C. Fischer, "Innovation in delivering synthethically challenging bicyclic arginase inhibitors to enhance immunotherapy," *Cancer Research,*

vol. 81, no. 13, pp. 297, 2021. https://aacrjournals.org/cancerres/article/81/13_Supplement/297/668796/Abstract-297-Inno vation-in-delivering

[781] B. Winterson, T. Renningholtz, T. Wirth "Flow electrochemistry: a safe tool for fluorine chemistry," *Chemical Science,* vol. 12, pp. 9053-9059, 2021. https://pubs.rsc.org/en/content/articlelanding/2021/sc/d1sc02123k

[780] T. Duhail, T. Bortolato, J. Mateos, E. Anselmi, B. Jelier, A. Togni, E. Magnier, G. Dagousset, L. Dell'Amico, "Radical alpha- trifluoromethoxylation of ketones by means of organic photoredox catalysis," *Organic Letters,* vol. 23, no. 8, pp. 7088-7093, 2021. https://chemrxiv.org/engage/chemrxiv/article-details/60cb5ea1403d993be2bb0a92

[779] C. M. Heckmann, B. Dominguez, F. Paradisi, "Enantio-complementary continuous-flow synthesis of 2-aminobutanes using covalently immobilized transaminases,"*ACS Sustainable Chemical, Engineering,* vol. 9, no. 11, pp. 4122-4129, 2021. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.0c09075

[778] W. Dermaut, B. Cappuyns, M. Moens, C. Stevens, "A process for making brominating agents in flow. 20210017024, 2021. https://patents.google.com/patent/US20210017024A1/en

[777] F. Annunziata, A. Guaglio, P. Conti, L. Tamborini, R. Gandolfi, "Continuous-flow stereoselective reduction of prochiral ketones in a whole cell bioreactor with natural deep eutectic solvents," *Green Chemistry*, vol. 24, no. 2, pp. 950-956, 2021. http://dx.doi.org/10.1039/d1gc03786b

[776] J. Seitz, T. Wirth, "Electrochemical bromofunctionalization of alkenes in a flow reactor," *Organic & biomolecular chemistry,* vol. 19, no. 31, pp. 6892-6896, 2021. http://dx.doi.org/10.1039/d1ob01302e

[775] E. Skrotzki, "Taming Highly Reactive Species for Use in Organic Synthesis," *Thesis, 2021.* https://ruor.uottawa.ca/handle/10393/42739

[774] H. Grantham, M. Kimber, "Dimeric Cyclobutane Formation Under Continuous Flow

Conditions Using Organophotoredox-Catalysed [2+2] Cycloaddition**," *ChemPhotoChem,* 2021. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cptc.202100273

[773] M. Haas, D. Krisch, S. Gonglach, M. Bechmann, M. Scharber, M. Ertl, U. Monkowius, W. Schöfberger, "Gallium(III) Corrole Complexes as Near-Infrared Emitter - Synthesis, Computational and Photophysical Study," *European Journal of Organic Chemistry*, vol. 2021, no. 10, pp. 1525-1537, 2021. http://dx.doi.org/10.1002/ejoc.202100097

[772] T. Rosalba, S. Kas, A. Sampaio, C. Salvador, C. Andrade, "The Ugly Duckling Metamorphosis: The Ammonia/Formaldehyde Couple Made Possible in Ugi Reactions," *European Journal of Organic Chemistry*, vol. 2021, no. 20, pp. 2831-2842, 2021. http://dx.doi.org/10.1002/ejoc.202001671

[771] A.P. Felgueiras, "Catalisadores para desenvolvimento de processos sequenciais sustentáveis," *Thesis,* 2021. https://eg.uc.pt/handle/10316/98008

[770] N. Leadbeater, "Flow Chemistry as an Enabling Technology for Synthetic Organic Chemistry," *Methods in Pharmacology and Toxicology*, pp. 489-526, 2021. https://link.springer.com/protocol/10.1007/978-1-0716-1579-9_14

[769] A. Gelle, "Shining light on plasmonic silver nanoparticles for catalysis,". thesis 2021 https://escholarship.mcgill.ca/concern/theses/zk51vn71

[768] K. Donnelly, M. Di Filippo, C. Bracken, "Flow Chemistry – Fundamentals," *Flow Chemistry– Fundamentals,* 2021. https://www.degruyter.com/document/doi/10.1515/9783110693676/pdf#page=395

[767] Z. Wang, Z. Wu, Z. Hu, J. Orrego-Hernandez, E. Mu, Z. Zhang, M. Jevric, Y. Liu, X. Fu, F. Wang, T. Li, K. Moth-Poulsen, "Chip-Scale Solar-Thermal-Electrical Power Generation," *SSRN Electronic Journal*, 2021. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3971145

[766] L. Capaldo, S. Bonciolini, A. Pulcinella, M. Nuno, T. Noel, "Modular allylation of C(sp3)−H bonds by combining decatungstate photocatalysis and HWE olefination in flow," *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/61894fce92abe0f30f39d079

[765] H. Grantham, M. Kimber, "Dimeric cyclobutane formation under continuous flow conditions using organophotoredox catalysed [2+2]-cycloaddition," *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/61800ae9e04a8e15e7234b64

[764] A. Ladosz, B. Martin, "Review of recent literature on flow Chemistry:. Selected Topic: Academic-Industrial partnerships: Flow Chemistry Highlights," *Chimia,* 2021. https://ojs.chimia.ch/index.php/chimia/article/download/662/69

[763] A. Abu-Hashem, A. El-Gazzar, A. Abdelgawad, M. Gouda, "Synthesis and chemical reactions of thieno[3,2-c]quinolines from arylamine derivatives, part (V): a review," *Phosphorus, Sulfur, and Silicon and the Related Elements,* pp. 1-24, 2021. https://www.tandfonline.com/doi/abs/10.1080/10426507.2021.2012176

[762] P. Sagmeister, D. Kaldre, J. Sedelmeier, C. Moessner, "Flow Chemistry Highlights," Conference, 2021. http://chimia.ch/component/phocadownload/category/335-flow-chemistry-column?downloa d=4550:2021-984

[761] J. Souto, "Continuous-Flow Preparation of Benzotropolones: Combined Batch and Flow Synthesis of Epigenetic Modulators of the (JmjC)-Containing Domain," *ChemistrySelect,* vol. 6, pp. 10717-10721, 2021. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202102457

[760] D. Padrosa, M. Contente, "Multi-gram preparation of cinnamoyl tryptamines as skin whitening agents through a chemo-enzymatic flow process," *Tetrahedron Letters,* vol. 86, pp. 153453, 2021. https://www.sciencedirect.com/science/article/pii/S004040392100736X

[759] A. Di Michele, S. Giovagnoli, P. Filipponi, F. Venturoni, A. Gioiello, "SBA15-supported nanoruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow

conditions," *Tetrahedron Letters,* vol. 86, pp. 153509, 2021. https://www.sciencedirect.com/science/article/pii/S0040403921007978

[758] M. Duffy, M. Di Filippo, M. Baumann, "Synthesis of 2H-indazoles via the Cadogan reaction in batch and flow mode," *Tetrahedron Letters,* vol. 86, pp. 153522, 2021. https://www.sciencedirect.com/science/article/pii/S0040403921008108

[757] A. Mohammadzadeh, S. Sharif, V. Semeniuchenko, N. Townsend, A. Corbett, M. Organ, "Lithium aluminum hydride in flow: overcoming exotherms, solids, and gas evolution en route to chemoselective reductions," *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00201-1

[756] M. Ivanova, J. Legros, T. Poisson, P. Jubault, "Continuous flow synthesis of Celecoxib from 2bromo-3,3,3-trifluoropropene," *Journal of Flow Chemistry,* pp. 1-5, 2021. https://link.springer.com/article/10.1007/s41981-021-00205-x

[755] J. Orrego-Hernández, H. Hölzel, M. Quant, Z. Wang, K. Moth-Poulsen, "Scalable Synthesis of Norbornadienes via in situ Cracking of Dicyclopentadiene Using Continuous Flow Chemistry," European Journal of Organic Chemistry, vol. 2021, no. 38, pp. 5337-5342, 2021. https://research.chalmers.se/publication/526064/file/526064_Fulltext.pdf

[754] R. Duvadie, A. Pomberger, Y. Mo, E. Altinoglu, H. Hsieh, K. Nandiwale, V. Schultz, K. Jensen, R. Robinson, "Photoredox Iridium-Nickel Dual Catalyzed Cross-Electrophile Coupling: From a Batch to a Continuous Stirred-Tank Reactor via an Automated Segmented Flow Reactor," *Organic Process Research & Development,* vol. 25, no. 10, pp. 2323-2330, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00251

[753] G. Glotz, K. Waniek, J. Schöggl, D. Cantillo, C. Stueckler, A. Arzt, A. Gollner, R. Schipfer, R. Baumgartner, C. Kappe, "Continuous Flow Synthesis of a Blocked Polyisocyanate: Process Intensification,Reaction Monitoring Via In-Line FTIR Analysis, and Comparative Life Cycle Assessment," *Organic Process Research & Development,* vol. 25, no. 10, pp. 2367-2379, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00329

[752] C. Sagandira, S. Nqeketo, K. Mhlana, T. Sonti, P. Watts, S. Gaqa, "Towards 4th industrial revolution efficient and sustainable continuous flow manufacturing of active pharmaceutical ingredients," *Reaction Chemistry & Engineering*, 2021. https://pubs.rsc.org/en/content/articlehtml/2022/re/d1re00483b

[751] N.P. Rossouw, M.A Rizzacasa, A. Polyzos, "Flow-Assisted Synthesis of Alkyl Citrate Natural Products," *The Journal of organic chemistry*, vol. 86, no. 20. pp. 14223-14231, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01645

[750] D. Djukanovic, B. Heinz, F. Mandrelli, S. Mostarda, P. Filipponi, B. Martin, P. Knochel, "Continuous Flow Acylation of (Hetero)aryllithiums with Polyfunctional N,N-Dimethylamides and Tetramethylurea in Toluene," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 27, no. 56, pp. 13977-13981, 2021. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8519161/

[749] C. Pinna, P.A. Martino, G. Meroni, V.M. Sora, L .Tamborini, S. Dallavalle, M.L. Contente, A. Pinto, "Biocatalyzed Synthesis of Vanillamides and Evaluation of Their Antimicrobial Activity," *Journal of agricultural and food chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.jafc.1c06213

[748] C.E. Mowbray, S. Braillard, P.A. Glossop, G.A. Whitlock, R.T. Jacobs, J. Speake, B. Pandi, B. Nare, L. Maes, V. Yardley, Y. Freund, R.J. Wall, S. Carvalho, D. Bello, M. Van den Kerkhof, G. Caljon, I.H. Gilbert, V. Corpas-Lopez, I. Lukac, S. Patterson, F. Zuccotto, S. Wyllie, "DNDI-6148: A Novel Benzoxaborole Preclinical Candidate for the Treatment of Visceral Leishmaniasis," *Journal of medicinal chemistry,* vol. 64, no. 21, pp. 16159-16176, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.1c01437

[747] B. He, L.K. Macreadie, J. Gardiner, S.G. Telfer, M.R. Hill, "In Situ Investigation of Multicomponent MOF Crystallization during Rapid Continuous Flow Synthesis," *ACS applied materials & interfaces*, vol. 13, no. 45, pp. 54284-5429, 2021. https://pubs.acs.org/doi/abs/10.1021/acsami.1c04920

[746] C.D. Jones, L.J. Kershaw Cook, D. Marquez-Gamez, K.V. Luzyanin, J.W. Steed, A.G. Slater, "High-Yielding Flow Synthesis of a Macrocyclic Molecular Hinge," *Journal of the*

American Chemical Society, vol. 143, no. 19, pp. 7217-7590, 2021. https://pubs.acs.org/doi/10.1021/jacs.1c02891

[745] J.T. Kohrt, P.H. Dorff, M. Burns, C. Lee, S.V. O'Neil, R.J. Maguire, R. Kumar, M. Wagenaar, L. Price, M.S. Lall, "Application of Flow and Biocatalytic Transaminase Technology for the Synthesis of a 1-Oxa-8-azaspiro [4.5] decan-3-amine," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00075

[744] N. Amri and T. Wirth, "Flow Electrosynthesis of Sulfoxides, Sulfones, and Sulfoximines without Supporting Electrolytes," *The Journal of organic chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c00860

[743] J. Baker, C. Russell, J. Gilbert, A. McCluskey and J. Sakoff, "Amino alcohol acrylonitriles as broad spectrum and tumour selective cytotoxic agents," *RSC Medicinal Chemistry,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/md/d1md00021g

[742] Z. Bao, J. Luo, Y. Wang, T. Hu, S. Tsai, Y. Tsai, H. Wang, F. Chen, Y. Lee, T. Tsai, R. Chung and R. Liu, "Microfluidic synthesis of CsPbBr3/Cs4PbBr6 nanocrystals for inkjet printing of miniLEDs," *Chemical Engineering Journal,* vol. 426, p. 130849, 2021. https://www.sciencedirect.com/science/article/pii/S1385894721024347

[741] M. Baumann, C. Bracken and A. Batsanov, "Development of a Continuous Photochemical Benzyne-Forming Process," *SynOpen,* vol. 05, no. 01, pp. 29-35, 2021. http://dx.doi.org/10.1055/s-0040-1706016

[740] M. Baumann, T. Moody, M. Smyth and S. Wharry, "Interrupted Curtius Rearrangements of Quaternary Proline Derivatives: A Flow Route to Acyclic Ketones and Unsaturated Pyrrolidines," *The Journal of organic chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01133

[739] A. Benítez-Mateos, M. Contente, D. Roura Padrosa and F. Paradisi, "Flow biocatalysis 101: design, development and applications," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d0re00483a

[738] F. Dedè, O. Piccolo and D. Vigo, “Dimethyl Fumarate: Heterogeneous Catalysis for the Development of an Innovative Flow Synthesis,” *Organic Process Research & Development,* vol. 25, no. 2, pp. 292-299, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00503

[737] L. Dell'Amico, T. Duhail, T. Bortolato, J. Mateos, E. Anselmi, B. Jelier, A. Togni, E. Magnier and G. Dagousset, “Radical alpha-Trifluoromethoxylation of Ketones by Means of Organic Photoredox Catalysis,” *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/60cb5ea1403d993be2bb0a92

[736] K. Donnelly and M. Baumann, “A continuous flow synthesis of [1.1.1]propellane and bicyclo[1.1.1]pentane derivatives,” *Chemical communications (Cambridge, England),* vol. 57, no. 23, pp. 2871-2874, 2021. https://pubs.rsc.org/da/content/articlehtml/2021/cc/d0cc08124h

[735] K. Donnelly and M. Baumann, “Scalability of photochemical reactions in continuous flow mode,” *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00168-z

[734] J. Duan, G. Xu, B. Rong, H. Yan, S. Zhang, Q. Wu, N. Zhu and K. Guo, “Iron-catalyzed [4 + 2] annulation of α,β-unsaturated ketoxime acetates with enaminones toward functionalized pyridines,” *Green Synthesis and Catalysis,* 2021. https://www.sciencedirect.com/science/article/pii/S2666554921000259

[733] J. García-Lacuna, T. Fleiß, R. Munday, K. Leslie, A. O’Kearney-McMullan, C. Hone and C. Kappe, “Synthesis of the Lipophilic Amine Tail of Abediterol Enabled by Multiphase Flow Transformations,” *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00002

[732] M. González-Esguevillas, D. Fernández, J. Rincón, M. Barberis, O. de Frutos, C. Mateos, S. García-Cerrada, J. Agejas and D. MacMillan, “Rapid Optimization of Photoredox Reactions for Continuous-Flow Systems Using Microscale Batch Technology,” *ACS Central Science,* 2021. https://pubs.acs.org/doi/abs/10.1021/acscentsci.1c00303

[731] K. Grollier, A. De Zordo-Banliat, F. Bourdreux, B. Pegot, G. Dagousset, E. Magnier and T. Billard, "(Trifluoromethylselenyl)methylchalcogenyl as Emerging Fluorinated Groups: Synthesis under Photoredox Catalysis and Determination of the Lipophilicity," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 27, no. 19, pp. 6028-6033, 2021. https://hal.science/hal-03183403v1/file/version%20HAL.pdf

[730] M. Guidi, "An automated platform for multistep synthesis based on a new paradigm for combining flow modules," *Thesis,* 2021. https://refubium.fu-berlin.de/handle/fub188/29954

[729] M. Guidi, S. Moon, L. Anghileri, D. Cambié, P. Seeberger and K. Gilmore, "Combining radial and continuous flow synthesis to optimize and scale-up the production of medicines," *Reaction Chemistry & Engineering,* vol. 6, pp. 220-224, 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d0re00445f

[728] Q. Han, X. Zhou, X. He and H. Ji, "Mechanism and kinetics of the aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by cobalt porphyrin in a membrane microchannel reactor," *Chemical Engineering Science,* vol. 245, p. 116847, 2021. https://www.sciencedirect.com/science/article/pii/S000925092100412

[727] W. He, C. Zhang, W. Zhang, Y. Zhu, Z. Fang, L. Zhao and K. Guo, "The integration of catalyst design and process intensification in the efficient synthesis of 5-hydroxymethyl-2furancarboxylic acid from fructose," *Chemical Engineering Science,* vol. 245, p. 116858, 2021. https://www.sciencedirect.com/science/article/pii/S0009250921004231

[726] M. Hosoya, G. Shiino and N. Tsuno, "A Practical Transferring Method from Batch to Flow Synthesis of Dipeptides via Acid Chloride Assisted by Simulation of the Reaction Rate," *Chemistry Letters,* 2021. https://www.journal.csj.jp/doi/abs/10.1246/cl.210103

[725] G. Ignacz and G. Szekely, "6 Continuous microflow processes," *Sustainable Process Engineering,* pp. 95-116, 2021. https://www.degruyter.com/document/doi/10.1515/9783110717136-006/html

[724] J. Kestemont, J. Frost, J. Jacq, P. Pasau, F. Perl, J. Brown and M. Tissot, "Scale-Up and Optimization of a Continuous Flow Carboxylation of N-Boc-4,4-difluoropiperidine Using sBuLi in THF," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00092

[723] A. Leslie, T. Moody, M. Smyth, S. Wharry and M. Baumann, "Coupling biocatalysis with highenergy flow reactions for the synthesis of carbamates and β-amino acid derivatives," *Beilstein Journal of Organic Chemistry,* vol. 17, pp. 379-384, 2021. https://www.beilstein-journals.org/bjoc/articles/17/33

[722] J. Li, H. Šimek, D. Ilioae, N. Jung, S. Bräse, H. Zappe, R. Dittmeyer and B. Ladewig, "In situ sensors for flow reactors – a review," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00038a

[721] H. Lin, C. Chen, T. Lin, L. Yeh, W. Hsieh, S. Gao, P. Burnouf, B. Chen, T. Hsieh, P. Dashnyam, Y. Kuo, Z. Tu, S. Roffler and C. Lin, "Entropy-driven binding of gut bacterial β-glucuronidase inhibitors ameliorates irinotecan-induced toxicity," *Communications biology,* p. 280, 2021. https://www.nature.com/articles/s42003-021-01815-w

[720] S. Miao and X. Li, "Enzymatic esterification of lauric acid to give monolaurin in a microreactor," *Journal of Chemical Research,* 2021. https://journals.sagepub.com/doi/abs/10.1177/1747519820977164

[719] S. Nabil, A. Hammad, H. El-Bery, E. Shalaby and A. El-Shazly, "The CO2 photoconversion over reduced graphene oxide based on Ag/TiO2 photocatalyst in an advanced meso-scale continuous-flow photochemical reactor," *Environmental science and pollution research international,* 2021. https://link.springer.com/article/10.1007/s11356-021-13090-7

[718] N. Neyt and D. Riley, "Application of reactor engineering concepts in continuous flow chemistry: a review," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00004g

[717] P. Nichols, "Automated and enabling technologies for medicinal chemistry," *Progress*

in medicinal chemistry, vol. 60, pp. 191-272, 2021. http://dx.doi.org/10.1016/bs.pmch.2021.01.003

[716] A. Petti, C. Fagnan, C. van Melis, N. Tanbouza, A. Garcia, A. Mastrodonato, M. Leech, I. Goodall, A. Dobbs, T. Ollevier and K. Lam, "Supporting-Electrolyte-Free Anodic Oxidation of Oxamic Acids into Isocyanates: An Expedient Way to Access Ureas, Carbamates, and Thiocarbamates," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00112

[715] R. Radjagobalou, V. Freitas, J. Blanco, F. Gros, J. Dauchet, J. Cornet and K. Loubiere, "A revised 1D equivalent model for the determination of incident photon flux density in a continuous-flow LED-driven spiral-shaped microreactor using the actinometry method with Reinecke's salt," *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00179-w

[714] D. Roura Padrosa, Z. Nisar and F. Paradisi, "Efficient Amino Donor Recycling in Amination Reactions: Development of a New Alanine Dehydrogenase in Continuous Flow and Dialysis Membrane Reactors," *Catalysts,* vol. 11, no. 4, p. 520, 2021. https://www.mdpi.com/1079618

[713] S. Sade, "Methods, Photocatalytic N-Arylation of 3-Substituted Pyrrolidines and Comparison with Traditional," *Thesis,* 2021. https://helda.helsinki.fi/handle/10138/327327

[712] E. Seurat, A. Verdin, F. Cazier, D. Courcot, R. Fitoussi, K. Vié, V. Desauziers, I. Momas, N. Seta and S. Achard, "Influence of the environmental relative humidity on the inflammatory response of skin model after exposure to various environmental pollutants," *Environmental research,* vol. 196, p. 110350, 2021. https://www.degruyter.com/document/doi/10.1051/978-2-7598-2478-6-015/html

[711] T. Shi, S. Wang, Z. Yang, Y. Wang, C. Liu, W. He, Z. Fang and K. Guo, "Enzyme-electrochemical continuous flow cascades synthesis of substituted benzimidazoles," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00058f

[710] E. Skrotzki, J. Vandavasi and S. Newman, “Ozone-Mediated Amine Oxidation and Beyond: A Solvent Free, Flow-Chemistry Approach,” *ChemRxiv,* 2021. https://chemrxiv.org/ndownloader/files/26654969

[709] T. Faraggi, C. Rouget-Virbel, J. Rincón, M. Barberis, C. Mateos, S. García-Cerrada, J. Agejas, O. de Frutos and D. MacMillan, "Synthesis of Enantiopure Unnatural Amino Acids by Metallaphotoredox Catalysis," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00208

[708] F. Tentori, E. Brenna, C. Ferrari, F. Gatti, M. Ghezzi and F. Parmeggiani, “Chemo-enzymatic oxidative cleavage of isosafrole for the synthesis of piperonal,” *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00173f

[707] M. Van De Walle, “Continuous photoflow for macromolecular design,” *Queensland University of Technology,* 2021. https://eprints.qut.edu.au/208293/

[706] T. Wan, L. Capaldo, G. Laudadio, A. Nyuchev, J. Rincon, P. Garcia-Losada, C. Mateos Gutierrez, M. O Frederick, M. Nuno and T. Noel, “Decatungstate-mediated C(sp3)-H Heteroarylation via Radical-Polar Crossover in Batch and Flow,” *Angewandte Chemie (International ed. in English),* 2021. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202104682

[705] M. Waterford, S. Saubern and C. Hornung, “Evaluation of a Continuous-Flow PhotoBromination Using N-Bromosuccinimide for Use in Chemical Manufacture,” *Australian Journal of Chemistry,* 2021. https://www.publish.csiro.au/ch/CH20372

[704] A. Zhakeyev, M. Jones, C. Thomson, J. Tobin, H. Wang, F. Vilela and J. Xuan, “Additive manufacturing of intricate and inherently photocatalytic flow reactor components,” *Additive Manufacturing,* vol. 38, 2021. https://www.sciencedirect.com/science/article/pii/S2214860420312008

[703] I. Östergren, A. Pourrahimi, I. Darmadi, R. da Silva, A. Stolaś, S. Lerch, B. Berke, M.

GuizarSicairos, M. Liebi, G. Foli, V. Palermo, M. Minelli, K. Moth-Poulsen, C. Langhammer and C. Müller, "Highly Permeable Fluorinated Polymer Nanocomposites for Plasmonic Hydrogen Sensing," *ACS applied materials & interfaces,* vol. 13, no. 18, pp. 21724-21732, 2021.
https://pubs.acs.org/doi/abs/10.1021/acsami.1c01968

[702] E. Skrotzki, J. Vandavasi and S. Newman, "Ozone-Mediated Amine Oxidation and Beyond: A Solvent-Free, Flow-Chemistry Approach," *The Journal of organic chemistry,* 2021.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c00768

2020

Year total: 106

[701] C. O'Beirne, M. E. Piatek, J. Fossen, H. Muller-Bunz, D. R. Andes, K. Kavanaugh, S. A. Patil, M. Baumann, M. Tackle, "Continuous flow synthesis and antimicrobial evaluation of NHC* silver carboxylate derivatives of SBC3 in vitro and in vivo," *Metallomics,* vol. 13, no. 2, 2020.
https://mural.maynoothuniversity.ie/17301/

[700] S. Bonciolini, M. Filippo, M. Baumann, "A scalable continuous photochemical process for the generation of aminopropylsulfones," *Organic and Biomolecular Chemistry,* no. 46, 2020.
https://pubs.acs.org/doi/10.1021/acscentsci.1c01109

[699] M. I. Jeraal, S. Sung, A. A. Lapkin, "A machine learning-enabled autonomous flow chemistry platform for process optimization of multiple reaction metrics," *Chemistry-Methods,* vol. 1, no. 1, pp. 71-77, 2020.
https://chemistry-europe.onlinelibrary.wiley.com/doi/full/101002/cmtd.202000044

[698] J. Hert, D. Hunziker, C. Kuratli, R. E. Martin, P. Mattei, A. L. Satz, "Bicyclic quinazolinone derivatives," 20200317624, 2020.
https://patents.justia.com/inventor/patrizio-mattei?page=2

[696] C. J. Spedaliere, "Antibody conjugation method," 20200254112, 2020.

https://patents.justia.com/assignee/fujirebio-diagnostics-inc

[696] M. Di Filippo, M. Baumann, “Continuous flow synthesis of quinolones via a scalable tandem photoisomerization cyclization process,” *European Journal of Organic chemistry,* vol. 2020, no. 39, pp. 6199-6211, 2020. https://www.researchgate.net/publication/343407327_Continuous_Flow_Synthesis_of_Quinolines_via_a_Scalable_Tandem_Photoisomerization-Cyclization_Process

[695] J. M. Bartolome-Nebreda, A. A. Trabanco-Suarez, A. I. D. Olivares, S. A. A. De Diego, “Pyrrolidine and bicycloheteroaryl containing oga inhibitor compoundsm,” WO2021094312A1, 2020. https://patents.google.com/patent/WO2021094312A1/en

[694] S. Chatterjee, M. Guidi, P. Seeberger and K. Gilmore, "Automated radial synthesis of organic molecules," Nature, vol. 579, pp. 379-384, 2020. https://www.nature.com/articles/s41586-020-2083-5

[693] D. Heard and A. Lennox, "Minimal manual input," Nat Chem, vol. 12, no. 2, pp. 113-114, 2020. https://www.nature.com/articles/s41557-019-0416-5

[692] S. Han, M. A. Kashfipour, M. Ramezani, M. Abolhasani “Accelerating gas-liquid chemical reactions in flow,” *Chemical Communications,* no. 73, 2020. https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03511d#:~:text=The%20tube%2Din%2Dtube%20flow,toxic%20and%20flammable%20gases%20or

[691] E. Farrant, “Automation of synthesis in medicinal chemistry: progress and challenges,” *ACS Medicinal Chemistry Letters,* vol. 11, no. 8, pp. 1506-1513, 2020. https://pubs.acs.org/doi/10.1021/acsmedchemlett.0c00292

[690] S. Ötvös and C. Kappe, "Continuous-Flow Amide and Ester Reductions Using Neat Borane Dimethylsulfide Complex," ChemSusChem, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/cssc.201903459

[689] M. Shea, U. Mansoor and B. Hopkins, "A Metallaphotoredox Method for the Expansion of

Benzyl SAR on Electron-Deficient Amines," Org. Lett., vol. 22, no. 3, pp. 1052-1055, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b04587

[688] M. Chaudhari, K. Jayan and B. Gnanaprakasam, "Sn-Catalyzed Criegee-Type Rearrangement of Peroxyoxindoles Enabled by Catalytic Dual Activation of Esters and Peroxides," J. Org. Chem., vol. 85, no. 5, pp. 3374-3382, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03160

[687] C. Bracken and M. Baumann, "Development of a Continuous Flow Photoisomerization Reaction Converting Isoxazoles into Diverse Oxazole Products," J. Org. Chem., vol. 85, no. 4, pp. 2607-2617, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03399

[686] B. Park, M. Pirnot and S. Buchwald, "Visible Light-Mediated (Hetero)aryl Amination Using Ni(II) Salts and Photoredox Catalysis in Flow: A Synthesis of Tetracaine," J. Org. Chem., vol. 85, no. 5, pp. 3234-3244, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03107

[685] A. Folgueiras-Amador, A. Teuten, D. Pletcher and R. Brown, "A design of flow electrolysis cell for 'Home' fabrication," React. Chem. Eng., vol. 5, no. 4, pp. 712-718, 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00019a

[684] D. Fitzpatrick, M. O'Brien and S. Ley, "A tutored discourse on microcontrollers, single board computers and their applications to monitor and control chemical reactions," React. Chem. Eng., vol. 5, no. 2, pp. 201-220, 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/c9re00407f

[683] N. Weeranoppanant and A. Adamo, "In-Line Purification: A Key Component to Facilitate Drug Synthesis and Process Development in Medicinal Chemistry," ACS Med Chem Lett, vol. 11, no. 1, pp. 9-15, 2020. https://pubs.acs.org/doi/abs/10.1021/acsmedchemlett.9b00491

[682] F. Tentori, E. Brenna, M. Crotti, G. Pedrocchi-Fantoni, M. Ghezzi and D. Tessaro, "Continuous-Flow Biocatalytic Process for the Synthesis of the Best Stereoisomers of the Commercial Fragrances Leather Cyclohexanol (4-Isopropylcyclohexanol) and

Woody Acetate (4-(Tert-Butyl)Cyclohexyl Acetate)," Catalysts, vol. 10, no. 1, p. 102, 2020. https://www.mdpi.com/2073-4344/10/1/102

[681] M. Hosoya, S. Nishijima and N. Kurose, "Investigation into an Unexpected Impurity: A Practical Approach to Process Development for the Addition of Grignard Reagents to Aldehydes Using Continuous Flow Synthesis," Org. Process Res. Dev., vol. 24, no. 3, pp. 405414, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00515

[680] L. Tamborini, C. Previtali, F. Annunziata, T. Bavaro, M. Terreni, E. Calleri, F. Rinaldi, A. Pinto, G. Speranza, D. Ubiali and P. Conti, "An Enzymatic Flow-Based Preparative Route to Vidarabine," Molecules, vol. 25, no. 5, 2020. https://www.mdpi.com/1420-3049/25/5/1223

[679] P. Luque Navarro and D. Lanari, "Flow Synthesis of Biologically-Relevant Compound Libraries," Molecules, vol. 25, no. 4, 2020. https://www.mdpi.com/1420-3049/25/4/909

[678] M. Di Filippo, C. Bracken and M. Baumann, "Continuous Flow Photochemistry for the Preparation of Bioactive Molecules," Molecules, vol. 25, no. 2, 2020. https://www.mdpi.com/1420-3049/25/2/356

[677] J. Baker, C. Russell, J. Gilbert, J. Sakoff and A. McCluskey, "Amino Alcohol Acrylonitriles as Activators of the Aryl Hydrocarbon Receptor Pathway: An Unexpected MTT Phenotypic Screening Outcome," ChemMedChem, vol. 15, no. 6, pp. 490-505, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.201900643

[676] K. Omoregbee, K. Luc, A. Dinh and T. Nguyen, "Tropylium-promoted prenylation reactions of phenols in continuous flow," J Flow Chem, vol. 10, no. 1, pp. 161-166, 2020. https://link.springer.com/article/10.1007/s41981-020-00082-w

[675] S. Govaerts, A. Nyuchev and T. Noel, "Pushing the boundaries of C–H bond functionalization chemistry using flow technology," J Flow Chem, vol. 10, no. 1, pp. 13-71, 2020. https://link.springer.com/article/10.1007/s41981-020-00077-7

[674] C. Thomson, C. Jones, G. Rosair, D. Ellis, J. Marques-Hueso, A. Lee and F. Vilela, "Continuousflow synthesis and application of polymer-supported BODIPY Photosensitisers for the generation of singlet oxygen; process optimised by in-line NMR spectroscopy," J Flow Chem, vol. 10, no. 1, pp. 327-345, 2020. https://link.springer.com/article/10.1007/s41981-019-00067-4

[673] M. Ramezani, M. Kashfipour and M. Abolhasani, "Minireview: Flow chemistry studies of high-pressure gas-liquid reactions with carbon monoxide and hydrogen," J Flow Chem, vol. 10, no. 1, pp. 93-101, 2020. https://link.springer.com/article/10.1007/s41981-019-00059-4

[672] S. Maljuric, W. Jud, C. Kappe and D. Cantillo, "Translating batch electrochemistry to singlepass continuous flow conditions: an organic chemist's guide," J Flow Chem, vol. 10, no. 1, pp. 181-190, 2020. https://link.springer.com/article/10.1007/s41981-019-00050-z

[671] B. Li, S. Bader, S. Guinness, S. Ruggeri, C. Hayward, S. Hoagland, J. Lucas, R. Li, D. Limburg, J. McWilliams, J. Raggon and J. Van Alsten, "Continuous flow aminolysis under high temperature and pressure," J Flow Chem, vol. 10, no. 1, pp. 145-156, 2020. https://link.springer.com/article/10.1007/s41981-019-00049-6

[670] G. Meir, M. Leblebici, S. Kuhn and T. Van Gerven, "Principles of co-axial illumination for photochemical reactors: Part 2. Model Validation," Jnl Adv Manuf ; Process, 2020. https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/amp2.10045

[669] C. Allais, E. Hansen, N. Ide, R. Perkins and E. Swift, "Selected Free Radical Reactions," Practical Synthetic Organic Chemistry, pp. 563-589, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119448914.ch11

[668] M. Guberman, "Development of Synthetic Strategies to Address Bottlenecks in Glycan Synthesis," Thesis, 2020. https://refubium.fu-berlin.de/handle/fub188/26983

[667] A. Ryder, W. Cunningham, G. Ballantyne, T. Mules, A. Kinsella, J. Turner-Dore, C. Alder, L. Edwards, B. McKay, M. Grayson and A. Cresswell, "Unmasked Primary Amines as

CNucleophiles for Catalytic C–C Bond-Formation," ChemRxiv, 2020. https://chemrxiv.org/articles/Unmasked_Primary_Amines_as_C-Nucleophiles_for_Catalytic_ C_C_Bond-Formation/11841489

[666] W. He, Y. Gao, G. Zhu, H. Wu, Z. Fang and K. Guo, "Microfluidic synthesis of fatty acid esters: Integration of dynamic combinatorial chemistry and scale effect," *Chemical Engineering Journal,* 2020. https://www.sciencedirect.com/science/article/pii/S1385894719321242

[665] H. Qin, C. Liu, N. Lv, W. He, J. Meng, Z. Fang and K. Guo, "Continuous and green microflow synthesis of azobenzene compounds catalyzed by consecutively prepared tetrahedron CuBr," *Dyes and Pigments,* vol. 174, p. 108071, 2020. https://www.sciencedirect.com/science/article/pii/S0143720819321138

[664] A. Ryder, W. Cunningham, G. Ballantyne, T. Mules, A. Kinsella, J. Turner-Dore, C. Alder, L. Edwards, B. McKay, M. Grayson and A. Cresswell, "Photocatalytic α-Tertiary Amine Synthesis via C-H Alkylation of Unmasked Primary Amines," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202005294

[663] M. Van De Walle, K. De Bruycker, J. Blinco and C. Barner-Kowollik, "Two Colour Photoflow Chemistry for Macromolecular Design," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202003130

[662] E. Corcoran, J. McMullen, F. Lévesque, M. Wismer and J. Naber, "Photon Equivalents as a Parameter for Scaling Photoredox Reactions in Flow: Translation of Photocatalytic C-N CrossCoupling from Lab Scale to Multikilogram Scale," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201915412

[661] C. Schotten, T. Nicholls, R. Bourne, N. Kapur, B. Nguyen and C. Willans, "Making electrochemistry easily accessible to the synthetic chemist," *Green Chem.,* vol. 22, no. 11, pp. 3358-3375, 2020. https://pubs.rsc.org/--/content/articlehtml/2020/gc/d0gc01247e

[660] E. Sletten, J. Danglad-Flores, M. Nuño, D. Guthrie and P. Seeberger, "Automated Glycan Assembly in a Variable-Bed Flow Reactor Provides Insights into Oligosaccharide-Resin Interactions," *Org. Lett.,* vol. 22, no. 11, pp. 4213-4216, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.0c01264

[659] S. Anand, S. Mardhekar, R. Raigawali, N. Mohanta, P. Jain, C. D Shanthamurthy, B. Gnanaprakasam and R. Kikkeri, "Continuous-Flow Accelerated Sulfation of Heparan Sulfate Intermediates," *Org. Lett.,* vol. 22, no. 9, pp. 3402-3406, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.0c00878

[658] M. Levenstein, L. Wayment, C. Scott, R. Lunt, P. Flandrin, S. Day, C. Tang, C. Wilson, F. Meldrum, N. Kapur and K. Robertson, "Dynamic Crystallization Pathways of Polymorphic Pharmaceuticals Revealed in Segmented Flow with Inline Powder X-ray Diffraction," *Anal. Chem.,* vol. 92, no. 11, pp. 7754-7761, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.analchem.0c00860

[657] C. Hunter, M. Boyd, G. May and R. Fimognari, "Visible-Light-Mediated N-Desulfonylation of N-Heterocycles Using a Heteroleptic Copper(I) Complex as a Photocatalyst," *J. Org. Chem.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00983

[656] M. Ruggeri, A. Dombrowski, S. Djuric and I. Baxendale, "Rearrangement of 3-Hydroxyazetidines into 2-Oxazolines," *J. Org. Chem.,* vol. 85, no. 11, pp. 7276-7286, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00656

[655] N. Mohanta, K. Nair, D. Sutar and B. Gnanaprakasam, "Continuous-Flow Approach for the Multi-Gram Scale Synthesis of C2-Alkyl- or β-Amino Functionalized 1,3-Dicarbonyl Derivatives and Ondansetron Drug Using 1,3-Dicarbonyls," *React. Chem. Eng.,* 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00171f

[654] W. He, P. Kang, Z. Fang, J. Hao, H. Wu, Y. Zhu and K. Guo, "Flow Reactor Synthesis of BioBased Polyol from Soybean Oil for the Production of Rigid Polyurethane Foam," *Ind. Eng. Chem. Res.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.iecr.0c01175

[653] T. Vieira, A. Stevens, A. Chtchemelinine, D. Gao, P. Badalov and L. Heumann, "Development of a Large-Scale Cyanation Process Using Continuous Flow Chemistry En Route to the Synthesis of Remdesivir," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00172

[652] T. Phung Hai, L. De Backer, N. Cosford and M. Burkart, "Preparation of Mono- and Diisocyanates in Flow from Renewable Carboxylic Acids," *Org. Process Res. Dev.,* 2020. http://dx.doi.org/10.1021/acs.oprd.0c00167

[651] N. Uhlig, A. Martins and D. Gao, "Selective DIBAL-H Monoreduction of a Diester Using Continuous Flow Chemistry: From Benchtop to Kilo Lab," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00158

[650] W. Debrouwer, W. Kimpe, R. Dangreau, K. Huvaere, H. Gemoets, M. Mottaghi, S. Kuhn and K. Van Aken, "Ir/Ni Photoredox Dual Catalysis with Heterogeneous Base Enabled by an Oscillatory Plug Flow Photoreactor," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00150

[649] J. de Souza, M. Berton, D. Snead and D. McQuade, "A Continuous Flow Sulfuryl ChlorideBased Reaction—Synthesis of a Key Intermediate in a New Route toward Emtricitabine and Lamivudine," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00146

[648] B. Li, G. Weisenburger and J. McWilliams, "Practical Considerations and Examples in Adapting Amidations to Continuous Flow Processing in Early Development," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00112

[647] M. Hosoya, S. Nishijima and N. Kurose, "Management of the Heat of Reaction under Continuous Flow Conditions Using In-Line Monitoring Technologies," *Org. Process Res. Dev.,* vol. 24, no. 6, pp. 1095-1103, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00109

[646] O. Dennehy, D. Lynch, S. Collins, A. Maguire and H. Moynihan, "Scale-up and

Optimization of a Continuous Flow Synthesis of an α-Thio-β-chloroacrylamide," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00079

[645] M. Berton, K. Sheehan, A. Adamo and D. McQuade, "Disposable cartridge concept for the on-demand synthesis of turbo Grignards, Knochel-Hauser amides, and magnesium alkoxides," *Beilstein J Org Chem,* vol. 16, pp. 1343-1356, 2020. https://www.beilstein-journals.org/xiv/download/pdf/202040-pdf

[644] T. Wirth and N. Amri, "Accelerating Electrochemical Synthesis through Automated Flow: Efficient Synthesis of Chalcogenophosphites," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-00401707141

[643] T. Jamison, T. Monos, J. Jaworski and J. Stephens, "Continuous-Flow Synthesis of Tramadol from Cyclohexanone," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0039-1690884

[642] W. Hung, Y. Chen, C. Chen, Y. Lee, J. Fang and W. Yang, "Flow Chemistry System for Carbohydrate Analysis by Rapid Labeling of Saccharides after Glycan Hydrolysis," *SLAS Technol,* 2020. https://journals.sagepub.com/doi/abs/10.1177/2472630320924620

[641] P. Kocienski, "Flow Synthesis of Anilines through Photoredox/Ni(II)-Catalyzed C–N CrossCoupling: Tetracaine," *Synfacts,* vol. 16, no. 6, p. 0745, 2020. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0040-1707527

[640] C. Huang, P. Chen, X. Liu and F. Li, "Metal–Organic Nanomaterials for Drug Delivery," *Polymers in Therapeutic Delivery,* pp. 79-95, 2020. https://pubs.acs.org/doi/abs/10.1021/bk-2020-1350.ch007

[639] T. Nicholls, C. Schotten and C. Willans, "Electrochemistry in continuous systems," *Current Opinion in Green and Sustainable Chemistry,* 2020. https://www.sciencedirect.com/science/article/abs/pii/S2452223620300444#:~:text=Electrochemistry%20in%20continuous%20systems%E2%98%86&text=The%20use%20of%20continuous%20flow,electrochemical%20reactors%20and%20their%20application

[638] A. Caron, "I: Synthèse de carbazole en débit continu. II: Transfert de proton couplé à l\'électron photocatalysé au cuivre," *Thesis,* 2020. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/23400

[637] R. Sullivan, "Improving Efficiency by Using Continuous Flow to Enable Cycles: PseudoCatalysis, Catalysis and Kinetics," *Thesis,* 2020. https://ruor.uottawa.ca/handle/10393/40387

[636] G. Laudadio, "Cahpter 3 - C(sp3)–H Functionalizations of Light Hydrocarbons using Decatungstate Photocatalysis," in *New synthetic methods enabled by photochemistry and electrochemistry in flow.*, Technische Universiteit Eindhoven, pp. 45-78, 2020. https://pure.tue.nl/ws/portalfiles/portal/149778750/20200507_Laudadio.pdf#page=56

[635] G. Laudadio, "C(sp3)–H functionalizations of light hydrocarbons using decatungstate photocatalysis in flow," *Science,* vol. 369, no. 6499, pp. 92-96, 2020. https://www.science.org/doi/10.1126/science.abb4688

[634] S. Khillari, "Flow Chemistry Market Analysis| Recent Industry Trends Report, 2026," *Thesis,* 2020. https://works.bepress.com/shweta/403/download/

[632] M. Oelgemoeller and D. Guthrie, "Continuous-flow photochemistry made easy with Vapourtec\'s photoreactor series," *EPA Newsletters,* vol. 97, pp. 38-42, 2020. https://researchonline.jcu.edu.au/62375/

[631] P. Sharanyakanth and M. Radhakrishnan, "Synthesis of metal-organic frameworks (MOFs) and its application in food packaging: A critical review," *Trends in Food Science & Technology,* vol. 104, pp. 102-116, 2020. https://www.sciencedirect.com/science/article/pii/S0924224420305628

[630] Z. Li, T. Bavaro, S. Tengattini, R. Bernardini, M. Mattei, F. Annunziata, R. Cole, C. Zheng, M. Sollogoub, L. Tamborini, M. Terreni and Y. Zhang, "Chemoenzymatic synthesis of arabinomannan (AM) glycoconjugates as potential vaccines for tuberculosis," *Eur J Med Chem,* vol. 204, p. 112578, 2020. https://www.sciencedirect.com/science/article/pii/S022352342030550X

[629] K. Behm, E. Fazekas, M. Paterson, F. Vilela and R. McIntosh, "Discrete Ti-O-Ti Complexes: Visible-Light-Activated, Homogeneous Alternative to TiO2 Photosensitisers," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 26, no. 43, pp. 9486-9494, 2020. https://pureapps2.hw.ac.uk/ws/files/41795788/chem.202001678_1_.pdf

[628] J. Wilson, M. Boyd, S. Giroux and U. Bandarage, "Application of a Dual Catalytic Nickel/Iridium-Based Photoredox Reaction to Synthesize 2-Alkyl-N-Arylindoles in a Continuous Flow," *J. Org. Chem.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c01809

[627] A. Ubale, M. Chaudhari, M. Shaikh and B. Gnanaprakasam, "Manganese-Catalyzed Synthesis of Quaternary Peroxides: Application in Catalytic Deperoxidation and Rearrangement Reactions," *J. Org. Chem.,* vol. 85, no. 16, pp. 10488-10503, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00837

[626] S. Lee, Y. Malpani and I. Kim, "Development of a packed-bed flow process for the production scale hydrogenation of 7-oxo-lithocholic acid to ursodeoxycholic acid," *J Flow Chem,* 2020. https://link.springer.com/article/10.1007/s41981-020-00108-3

[625] E. López, M. Linares and J. Alcázar, "Flow chemistry as a tool to access novel chemical space for drug discovery," *Future Med Chem,* vol. 12, no. 17, pp. 1547-1563, 2020. https://www.future-science.com/doi/abs/10.4155/fmc-2020-0075

[624] F. Annunziata, M. Letizia Contente, D. Betti, C. Pinna, F. Molinari, L. Tamborini and A. Pinto, "Efficient Chemo-Enzymatic Flow Synthesis of High Value Amides and Esters," *Catalysts,* vol. 10, no. 8, p. 939, 2020. https://www.mdpi.com/2073-4344/10/8/939

[623] M. Carrera, L. De Coen, M. Coppens, W. Dermaut and C. Stevens, "A Vilsmeier Chloroformylation by Continuous Flow Chemistry," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00318

[622] G. Mathieu, H. Patel and H. Lebel, "Convenient Continuous Flow Synthesis of N-Methyl Secondary Amines from Alkyl Mesylates and Epoxides," *Org. Process Res. Dev.,* 2020.

https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00193

[621] M. Sezen-Edmonds, J. Tabora, B. Cohen, S. Zaretsky, E. Simmons, T. Sherwood and A. Ramirez, "Predicting Performance of Photochemical Transformations for Scaling Up in Different Platforms by Combining High-Throughput Experimentation with Computational Modeling," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00182

[620] P. Knochel, R. Nishimura and N. Weidmann, "Preparation of Diorganomagnesium Reagents by Halogen–Lithium Exchange of Functionalized Heteroaryl Halides and Subsequent in situ Trapping with MgCl2·LiCl in Continuous Flow," *Synthesis,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1707167

[619] T. Maschmeyer, P. Prieto, S. Grunert and J. Hein, "Exploration of continuous-flow benchtop NMR acquisition parameters and considerations for reaction monitoring," *Magn Reson Chem,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5094

[618] I. Baxendale, O. Griffiths and M. Ruggeri, "Photochemical Flow Oximation of Alkanes," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1707281

[617] F. Pfrengle, "Automated Glycan Assembly of Plant Cell Wall *Oligosaccharides," Methods Mol. Biol.,* pp. 503-512, 2020. https://link.springer.com/protocol/10.1007/978-1-0716-0621-6_28

[616] D. Paymode, F. Cardoso, J. Sieber, J. Tomlin, D. Cook, J. Burns, R. Stringham, B. Gupton, D. Snead and T. Agrawal, "Toward Secure Supply of Remdesivir via a 2-Pot Triazine Synthesis: Supply Centered Synthesis," *ChemRxiv,* 2020. http://itempdf74155353254prod.s3.amazonaws.com/12751124/Toward_Secure_Supply_of_Remdesivir_via_a_2-Pot_Triazine_Synthesis_Supply_Centered_Synthesis_v1.pdf

[615] M. Catalán, V. Castro-Castillo, J. Gajardo-de la Fuente, J. Aguilera, J. Ferreira, R. RamiresFernandez, I. Olmedo, A. Molina-Berríos, C. Palominos, M. Valencia, M. Domínguez, J. Souto and J. Jara, "Continuous flow synthesis of lipophilic cations

derived from benzoic acid as new cytotoxic chemical entities in human head and neck carcinoma cell lines," *RSC Med. Chem.,* 2020. https://pubs.rsc.org/lv/content/articlehtml/2020/md/d0md00153h

[614] M. Santi, "Novel applications of α-Diazocarbonyl compounds and enabling technologies in stereoselective synthesis," *Thesis,* 2020. http://orca.cf.ac.uk/id/eprint/134006

[613] R. Zadravec and I. Vujasinović, "SUZUKI COUPLING IN CONTINUOUS FLOW: EFFICIENT APPLICATION IN LIBRARY SYNTHESIS," *Thesis,* 2020. https://fidelta.eu/cms/wp-content/uploads/2020/07/Poster_2018_Zadravec_Vujasinovic_Ur bino_Suzuki-coupling-in-continuous-flow.pdf

[612] J. Wang, X. Hu, N. Zhu and K. Guo, "Continuous Flow Photo-RAFT and Light-PISA," *Chemical Engineering Journal,* 2020. https://www.sciencedirect.com/science/article/pii/S1385894720337852

[611] T. Goodine and M. Oelgemöller, "Corymbia citriodora : A Valuable Resource from Australian Flora for the Production of Fragrances, Repellents, and Bioactive Compounds," *ChemBioEng Reviews,* vol. 7, no. 6, pp. 170-192, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/cben.202000013

[610] P. Zardi, M. Maggini and T. Carofiglio, "Achieving selectivity in porphyrin bromination through a DoE-driven optimization under continuous flow conditions," *Journal of Flow Chemistry,* 2020. https://link.springer.com/article/10.1007/s41981-020-00131-4

[609] A. Price, A. Capel, R. Lee, P. Pradel and S. Christie, "An open source toolkit for 3D printed fluidics," *Journal of Flow Chemistry,* 2020. https://link.springer.com/article/10.1007/s41981-020-00117-2

[608] N. Sugisawa, H. Nakamura and S. Fuse, "Recent Advances in Continuous-Flow Reactions Using Metal-Free Homogeneous Catalysts," *Catalysts,* vol. 10, no. 11, p. 1321, 2020.

https://www.mdpi.com/2073-4344/10/11/1321

[607] P. De Santis, L. Meyer and S. Kara, "The rise of continuous flow biocatalysis – fundamentals, very recent developments and future perspectives," *Reaction Chemistry & Engineering,* vol. 5, no. 12, pp. 2155-2184, 2020. https://pubs.rsc.org/--/content/articlehtml/2020/re/d0re00335b

[606] A. Ładosz, C. Kuhnle and K. Jensen, "Characterization of reaction enthalpy and kinetics in a microscale flow platform," *Reaction Chemistry & Engineering,* vol. 5, no. 11, pp. 2115-2122, 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00304b

[605] R. Ma, J. Feng, K. Zhang, B. Zhang and D. Du, "Photoredox β-thiol-α-carbonylation of enones accompanied by unexpected Csp2-C(CO) bond cleavage," *Organic & biomolecular chemistry,* vol. 18, no. 38, pp. 7549-7553, 2020. https://minerva-access.unimelb.edu.au/handle/11343/251398

[604] M. Graham, G. Noonan, J. Cherryman, J. Douglas, M. Gonzalez, L. Jackson, K. Leslie, Z. Liu, D. McKinney, R. Munday, C. Parsons, D. Whittaker, E. Zhang and J. Zhang, "Development and Proof of Concept for a Large-Scale Photoredox Additive-Free Minisci Reaction," *Organic Process Research & Development,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00483

[603] M. Baumann, A. Leslie, T. Moody, M. Smyth and S. Wharry, "Tandem Continuous Flow Curtius Rearrangement and Subsequent Enzyme-Mediated Impurity Tagging," *Organic Process Research & Development,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00420

[602] J. Grayson and A. Cresswell, "γ-Amino phosphonates via the photocatalytic α-C–H alkylation of primary amines," *Tetrahedron,* 2020. https://www.sciencedirect.com/science/article/pii/S0040402020311601

[601] P. Sagmeister, R. Lebl, I. Castillo, J. Rehrl, M. Horn, J. Kruisz, M. Sipek, S. Sacher, D. Cantillo, J. Williams and C. Kappe, "Advanced Real-Time Process Analytics for Multistep Synthesis in Continuous Flow," *ChemRxiv,* 2020.

https://chemrxiv.org/ndownloader/files/25626863

[600] S. Das, K. Murugesan, G. RODRIGUEZ, J. Kaur, J. Barham, A. Savateev, M. Antonietti and B. Koenig, "Photocatalytic (Hetero)Arylation of C(sp3)–H Bonds with Carbon Nitride," *Photocatalytic (Hetero)Arylation,* 2020. https://pure.mpg.de/rest/items/item_3262471/component/file_3262476/content

[599] P. Cranwell, "Recent Advances Towards the Inclusion of Flow Chemistry within the Undergraduate Practical Class Curriculum," *SynOpen,* vol. 04, no. 04, pp. 96-98, 2020. http://dx.doi.org/10.1055/s-0040-1719539

[598] M. Ruggeri, "Exploring Flow Chemistry for the Synthesis and Scale-up of Small Organic Molecules," *Thesis,* 2020. http://etheses.dur.ac.uk/13768

[597] Y. Du, "Synthesis and application of organoboron compounds for catalytic amide formation and bifunctional catalysis," *Thesis,* 2020. http://etheses.dur.ac.uk/13731/1/Thesis_-_Final_-_YihaoDu_(000646710).pdf

[596] N. Weidmann, "Preparation of lithium, sodium and potassium organometallics by metalation and halogen/metal exchange in continuous flow," *Thesis,* 2020. https://edoc.ub.uni-muenchen.de/26873/1/Weidmann_Niels.pdf

2019

Year total: 95

[595] M. Elsherbini and T. Wirth, "Electroorganic Synthesis under Flow Conditions," *Acc. Chem. Res.,* vol. 52, no. 12, pp. 3287-3296, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.accounts.9b00497

[594] D. Caputo, M. Casiello, A. Laurenza, F. Fracassi, C. Fusco, A. Nacci and L. D'Accolti, "Preparation of Biowax Esters in Continuous Flow Conditions," *ACS Omega,* vol. 4, no. 7, pp. 12286-12292, 2019. https://pubs.acs.org/doi/abs/10.1021/acsomega.9b00861

[593] R. Lebl, T. Murray, A. Adamo, D. Cantillo and C. Kappe, "Continuous Flow Synthesis of Methyl Oximino Acetoacetate: Accessing Greener Purification Methods with Inline Liquid– Liquid Extraction and Membrane Separation Technology," *ACS Sustainable Chem. Eng.,* vol. 7, no. 24, pp. 20088-20096, 2019. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.9b05954

[592] C. Bottecchia, R. Martín, I. Abdiaj, E. Crovini, J. Alcazar, J. Orduna, M. Blesa, J. Carrillo, P. Prieto and T. Noël, "De novo Design of Organic Photocatalysts: Bithiophene Derivatives for the Visible-light Induced C−H Functionalization of Heteroarenes," *Adv. Synth. Catal.,* vol. 361, no. 5, pp. 945-950, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801571

[591] H. Seo, L. Nguyen and T. Jamison, "Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis," *Adv. Synth. Catal.,* vol. 361, no. 2, pp. 247-264, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801228

[590] M. Elsherbini, B. Winterson, H. Alharbi, A. Folgueiras-Amador, C. Génot and T. Wirth, "Elektrochemischer Durchlaufgenerator für hypervalente Iodreagenzien: Synthetische Anwendungen," *Angew. Chem.,* pp. 9916-9920, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.201904379b

[589] W. Konrad, C. Fengler, S. Putwa and C. Barner-Kowollik, "Protection Group Free Synthesis of Sequence-Defined Macromolecules via Precision λ-Orthogonal Photochemistry," *Angew. Chem. Int. Ed. Engl.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201901933

[588] M. Elsherbini, B. Winterson, H. Alharbi, A. Folgueiras-Amador, C. Génot and T. Wirth, "Continuous-Flow Electrochemical Generator of Hypervalent Iodine Reagents: Synthetic Applications," *Angew. Chem. Int. Ed. Engl.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201904379

[587] X. Wei, I. Abdiaj, C. Sambiagio, C. Li, E. Zysman-Colman, J. Alcázar and T. Noël, "Visible-LightPromoted Iron-Catalyzed C(sp2)-C(sp3) Kumada Cross-Coupling in Flow," *Angew. Chem. Int. Ed. Engl.,* vol. 58, no. 37, pp. 13030-13034, 2019. https://pure.tue.nl/ws/files/137381319/20191105_Wei.pdf#page=120

[586] S. Kim, J. Lee, N. Kim and B. Park, "Visible-Light-Mediated Cross-Couplings and C−H Activation via Dual Photoredox/ Transition-Metal Catalysis in Continuous-Flow Processes," *Asian J. Org. Chem.,* vol. 8, no. 9, pp. 1578-1587, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.201900354

[585] M. York, K. Jarvis, J. Freemont, J. Ryan, G. Savage, S. Logan and L. Bright, "A Scalable, Combined-Batch, and Continuous-Flow Synthesis of a Bio-Inspired UV-B Absorber," *Aust. J. Chem.,* 2019. http://www.publish.csiro.au/CH/CH19252

[584] A. Parihar and S. Bhattacharya, "Cellulose fast pyrolysis for platform chemicals: assessment of potential targets and suitable reactor technology," *Biofuels, Bioprod. Bioref.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/bbb.2066

[583] M. Gojun, A. Šalić, A. Tušek, D. Valinger and M. Tišma, "The Smaller, The Better–Microtechnology for a Macroresults," in *Engineering Power: Bulletin of the Croatian Academy of Engineering*, 2019, pp. 2-7. https://www.hatz.hr/wp-content/uploads/2019/11/Engeneering-Power-2019-03-za-web.pdf

[582] A. Macchi, P. Plouffe, G. Patience and D. Roberge, "Experimental Methods in Chemical Engineering: Micro-Reactors," *Can. J. Chem. Eng.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cjce.23525

[581] D. Roura Padrosa, V. De Vitis, M. Contente, F. Molinari and F. Paradisi, "Overcoming Water Insolubility in Flow: Enantioselective Hydrolysis of Naproxen Ester," *Catalysts,* vol. 9, no. 3, p. 232, 2019. https://www.mdpi.com/2073-4344/9/3/232

[580] V. De Vitis, F. Dall'Oglio, F. Tentori, M. Contente, D. Romano, E. Brenna, L. Tamborini and F. Molinari, "Bioprocess Intensification Using Flow Reactors: Stereoselective Oxidation of Achiral 1,3-diols with Immobilized Acetobacter Aceti," *Catalysts,* vol. 9, no. 3, p. 208, 2019.

https://www.mdpi.com/2073-4344/9/3/208

[579] Y. Du, T. Barber, S. Lim, H. Rzepa, I. Baxendale and A. Whiting, "A solid-supported arylboronic acid catalyst for direct amidation," *Chem. Commun. (Camb.),* vol. 55, no. 20, pp. 2916-2919, 2019. https://pubs.rsc.org/en/content/articlehtml/2019/cc/c8cc09913h

[578] C. Lau, T. Lu, S. Sun, X. Chen, M. Carta and D. Dawson, "Continuous flow knitting of a triptycene hypercrosslinked polymer," *Chem. Commun. (Camb.),* vol. 55, no. 59, pp. 85718574, 2019. https://pubs.rsc.org/en/content/articlehtml/2019/cc/c9cc03731d

[577] E. Sletten, M. Nuño, D. Guthrie and P. Seeberger, "Real-time monitoring of solid-phase peptide synthesis using a variable bed flow reactor," *Chem. Commun. (Camb.),* vol. 55, no. 97, pp. 14598-14601, 2019. https://pubs.rsc.org/ko/content/articlehtml/2019/cc/c9cc08421e

[576] M. Contente and F. Paradisi, "Transaminase-catalyzed continuous synthesis of biogenic aldehydes," *Chembiochem,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cbic.201900356

[575] R. Semproli, G. Vaccaro, E. Ferrandi, M. Vanoni, T. Bavaro, G. Marrubini, F. Annunziata, P. Conti, G. Speranza, D. Monti, L. Tamborini and D. Ubiali, "Use of Immobilized Amine Transaminase from Vibrio fluvialis under Flow Conditions for the Synthesis of (S)-1-(5Fluoropyrimidin-2-yl)- ethanamine," *ChemCatChem,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cctc.201902080

[574] A. Shallan and C. Priest, "Microfluidic Process Intensification for Synthesis and Formulation in the Pharmaceutical Industry," *Chemical Engineering and Processing - Process Intensification,* 2019. https://www.sciencedirect.com/science/article/pii/S0255270118315927

[573] P. Neumann, L. Cao, D. Russo, V. Vassiliadis and A. Lapkin, "A new formulation for symbolic regression to identify physico-chemical laws from experimental data," *Chemical Engineering Journal,* 2019.

http://dx.doi.org/10.1016/j.cej.2019.123412

[572] J. Wong, J. Tobin, F. Vilela and G. Barker, "Batch Versus Flow Lithiation-Substitution of 1,3,4Oxadiazoles: Exploitation of Unstable Intermediates Using Flow Chemistry," *Chemistry,* vol. 25, no. 53, pp. 12439-12445, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201902917

[571] M. Santi, J. Seitz, R. Cicala, T. Hardwick, N. Ahmed and T. Wirth, "Memory of Chirality in Flow Electrochemistry: Fast Optimisation with DoE and Online 2D-HPLC," *Chemistry,* vol. 25, no. 71, pp. 16230-16235, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201904711

[570] J. Williams, Y. Otake, G. Coussanes, I. Saridakis, N. Maulide and C. Kappe, "Towards a Scalable Synthesis of 2-Oxabicyclo[2.2.0]hex-5-en-3-one Using Flow Photochemistry," *ChemPhotoChem,* vol. 3, no. 5, pp. 229-232, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201900017

[569] M. Ruggeri, A. Dombrowski, S. Djuric and I. Baxendale, "Photochemical Flow Synthesis of 3Hydroxyazetidines," *ChemPhotoChem,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201900188

[568] M. Reis, T. Varner and F. Leibfarth, "The Influence of Residence Time Distribution on Continuous Flow Polymerization," *ChemRrivx,* 2019. https://chemrxiv.org/articles/The_Influence_of_Residence_Time_Distribution_on_Continuo us_Flow_Polymerization/7726166

[567] B. Cerra, M. Gabriele, M. Ricci, A. Schoubben and A. Gioiello, "In-flow flash nanoprecipitation of size-controlled D-leucine nanoparticles for spray-drying formulations," *ChemRxiv,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c9re00242a

[566] L. Cao, D. Russo, V. Vassiliadis and A. Lapkin, "Identifying physico-chemical laws from the robotically collected data," *ChemRxiv,* 2019. https://chemrxiv.org/articles/Identifying_Physico-Chemical_Laws_from_the_Robotically_Coll ected_Data/8490149

[565] C. Mateos, "Lilly Research Award Program (LRAP): A Successful Academia-Industry Partnership Model in the Context of Flow Chemistry for Drug Discovery," *Chimia (Aarau),* vol. 73, no. 10, pp. 803-808, 2019. https://www.ingentaconnect.com/content/scs/chimia/2019/00000073/00000010/art00003

[564] S. Ley, Y. Chen, D. Fitzpatrick and O. May, "A New World for Chemical Synthesis?," *Chimia (Aarau),* vol. 73, no. 10, pp. 792-802, 2019. https://www.ingentaconnect.com/content/scs/chimia/2019/00000073/00000010/art00002

[563] S. Lai, X. Liao, H. Zhang, Y. Jiang, Y. Liu, S. Wang and X. Xiong, "Application of 3D Printing Technology in Organic Synthetic Chemistry," *Chin. J. Org. Chem.,* vol. 39, no. 7, p. 1858, 2019. http://manu19.magtech.com.cn/Jwk_yjhx/CN/article/downloadArticleFile.do?attachType=P DF;id=347058

[562] A. Zhakeyev, J. Tobin, H. Wang, F. Vilela and J. Xuan, "Additive manufacturing of photoactive polymers for visible light harvesting," *Energy Procedia,* vol. 158, pp. 5608-5614, 2019. https://www.sciencedirect.com/science/article/pii/S1876610219306034

[561] Y. Chen, D. Cantillo and C. Kappe, "Visible Light-Promoted Beckmann Rearrangements: Separating Sequential Photochemical and Thermal Phenomena in a Continuous Flow Reactor," *Eur. J. Org. Chem.,* pp. 2163-2171, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201900231

[560] N. Luise, E. Wyatt, G. Tarver and P. Wyatt, "A Continuous Flow Strategy for the Facile Synthesis and Elaboration of Semi-Saturated Heterobicyclic Fragments," *Eur. J. Org. Chem.,* pp. 1341-1349, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201801684

[559] F. Mortzfeld, J. Pietruszka and I. Baxendale, "A Simple and Efficient Flow Preparation of Pyocyanin a Virulence Factor of Pseudomonas aeruginosa," *Eur. J. Org. Chem.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201900526

[558] A. Barthelemy, G. Dagousset and E. Magnier, "Metal-Free Visible-Light-Mediated Hydrotrifluoro methylation of Unactivated Alkenes and Alkynes in Continuous Flow," *Eur. J. Org. Chem.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201901252

[557] L. Rogers and K. Jensen, "Continuous manufacturing – the Green Chemistry promise?," *Green Chem.,* vol. 21, no. 13, pp. 3481-3498, 2019. https://pubs.rsc.org/en/content/articlehtml/2019/gc/c9gc00773c

[556] D. Bošković, "Reaktoren für spezielle technisch-chemische Prozesse: Mikrostrukturreaktoren," *Handbuch Chemische Reaktoren,* 2019. https://link.springer.com/content/pdf/10.1007/978-3-662-56444-8_44-1.pdf

[555] L. Amini-Rentsch, E. Vanoli, S. Richard-Bildstein, R. Marti and G. Vilé, "A Novel and Efficient Continuous-Flow Route To Prepare Trifluoromethylated N-Fused Heterocycles for Drug Discovery and Pharmaceutical Manufacturing," *Ind. Eng. Chem. Res.,* vol. 58, no. 24, pp. 10164-10171, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.iecr.9b01906

[554] T. von Keutz, D. Cantillo and C. Kappe, "Enhanced mixing of biphasic liquid-liquid systems for the synthesis of gem-dihalocyclopropanes using packed bed reactors," *J Flow Chem,* vol. 9, no. 1, pp. 27-34, 2019. https://link.springer.com/article/10.1007/s41981-018-0026-1

[553] A. Bouchard, V. Kairouz, M. Manneveau, H. Xiong, T. Besset, X. Pannecoucke and H. Lebel, "Continuous flow palladium-catalyzed trifluoromethylthiolation of C-H bonds," *J Flow Chem,* vol. 9, no. 1, 2019. https://link.springer.com/article/10.1007/s41981-018-0023-4

[552] G. Vilé, G. Schmidt, S. Richard-Bildstein and S. Abele, "Enantiospecific cyclization of methyl N-(tert-butoxycarbonyl)-N-(3-chloropropyl) D- alaninate to methylproline derivative via 'memory of chirality' in flow," *J Flow Chem,* vol. 9, no. 1, 2019. https://link.springer.com/article/10.1007/s41981-018-0022-5

[551] S. De Angelis, P. Celestini, R. Purgatorio, L. Degennaro, G. Rebuzzini, R. Luisi and C.

Carlucci, "Development of a continuous flow synthesis of propranolol: tackling a competitive side reaction," *J Flow Chem,* 2019. https://link.springer.com/article/10.1007/s41981-019-00047-8

[550] A. Bogdan and A. Dombrowski, "Emerging Trends in Flow Chemistry and Applications to the Pharmaceutical Industry," *J. Med. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.8b01760

[549] W. Zhan, H. Hsu, T. Morgan, T. Ouellette, K. Burns-Huang, R. Hara, A. Wright, T. Imaeda, R. Okamoto, K. Sato, M. Michino, M. Ramjee, K. Aso, P. Meinke, M. Foley, C. Nathan, H. Li and G. Lin, "Selective Phenylimidazole-based Inhibitors of the Mycobacterium tuberculosis Proteasome," *J. Med. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.9b01187

[548] T. Sherwood, H. Xiao, R. Bhaskar, E. Simmons, S. Zaretsky, M. Rauch, R. Knowles and T. Dhar, Decarboxylative Intramolecular Arene Alkylation Using N-(Acyloxy)phthalimides, an Organic photocatalyst, and Visible Light," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b00432

[547] A. O'Brien, Y. Liu, M. Hughes, J. Lim, N. Hodnett and N. Falco, "Investigation of a Weak Temperature-Rate Relationship in the Carbamoylation of a Barbituric Acid Pharmaceutical Intermediate," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b00411

[546] B. Li, R. Li, P. Dorff, J. McWilliams, R. Guinn, S. Guinness, L. Han, K. Wang and S. Yu, "Deprotection of N-Boc Groups Under Continuous Flow High Temperature Conditions," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02909

[545] N. Tosso, B. Desai, E. De Oliveira, J. Wen, J. Tomlin and B. Gupton, "A Consolidated and Continuous Synthesis of Ciprofloxacin from a Vinylogous Cyclopropyl Amide," *J. Org. Chem.,* vol. 84, no. 6, pp. 3370-3376, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b03222

[544] C. Crifar, F. Dücker, S. Nguyen Thanh, V. Kairouz and W. Lubell, "Heumann Indole Flow

Chemistry Process," *J. Org. Chem.,* vol. 84, no. 17, pp. 10929-10937, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b01516

[543] S. Pollington, "10th International Symposium on Continuous Flow Reactor Technology for Industrial Applications," *Johnson Matthey Technology Review,* 2019. https://www.ingentaconnect.com/content/matthey/jmtr/pre-prints/content-jm_jmtr_pollijul 19

[542] A. Pallipurath, P. Flandrin, L. Wayment, C. Wilson and K. Robertson, "In situ non-invasive Raman spectroscopic characterisation of succinic acid polymorphism during segmented flow crystallisation," *Mol. Syst. Des. Eng.,* 2019. https://pubs.rsc.org/lv/content/articlehtml/2020/me/c9me00103d

[541] R. Van Kerrebroeck, P. Naert, T. Heugebaert, M. D'hooghe and C. Stevens, "Electrophilic Bromination in Flow: A Safe and Sustainable Alternative to the Use of Molecular Bromine in Batch," *Molecules,* vol. 24, no. 11, 2019. https://www.mdpi.com/1420-3049/24/11/2116

[540] S. Mostarda, T. Gür Maz, A. Piccinno, B. Cerra and E. Banoglu, "Optimisation by Design of Experiment of Benzimidazol-2-One Synthesis under Flow Conditions," *Molecules,* vol. 24, no. 13, 2019. https://www.mdpi.com/1420-3049/24/13/2447

[539] S. Mumtaz, M. Robertson and M. Oelgemöller, "Continuous Flow Photochemical and Thermal Multi-Step Synthesis of Bioactive Arylmethylene-2,3-Dihydro-1H-Isoindolin-1Ones," *Molecules,* vol. 24, no. 24, 2019. https://www.mdpi.com/1420-3049/24/24/4527

[538] K. Donnelly, H. Zhang and M. Baumann, "Development of a Telescoped Flow Process for the Safe and Effective Generation of Propargylic Amines," *Molecules,* vol. 24, no. 20, 2019. https://www.mdpi.com/1420-3049/24/20/3658

[537] N. Parvathalu, S. Agalave, N. Mohanta and B. Gnanaprakasam, "Reversible chemoselective transetherification of vinylogous esters using Fe-catalyst under

additive free conditions," *Org. Biomol. Chem.,* vol. 17, no. 12, pp. 3258-3266, 2019. https://pubs.rsc.org/en/content/articlehtml/2019/ob/c9ob00307j

[536] Y. Chen, O. May, D. Blakemore and S. Ley, "A Photoredox Coupling Reaction of Benzylboronic Esters and Carbonyl Compounds in Batch and Flow," *Org. Lett.,* vol. 21, no.15, pp. 6140-6144, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b02307

[535] Z. Brill, C. Ritts, U. Mansoor and N. Sciammetta, "Continuous Flow Enable Metallaphotoredox Catalysis in a Medicinal Chemistry Setting: Accelerated Optimization and Library Execution of a Reductive Coupling between Benzylic Chlorides and Aryl Bromides," *Org. Lett.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b04117

[534] N. Mohanta, M. Chaudhari, N. Digrawal and B. Gnanaprakasam, "Rapid and Multigram Synthesis of Vinylogous Esters under Continuous Flow: An Access to Transetherification and Reverse Reaction of Vinylogous Esters," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00067

[533] Morin, J. Sosoe, M. Raymond, B. Amorelli, R. Boden and S. Collins, "Synthesis of a Renewable Macrocyclic Musk: Evaluation of Batch, Microwave, and Continuous Flow Strategies," *Org. Process Res. Dev.,* vol. 23, no. 2, pp. 283-287, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00450

[532] Y. Nakahara, B. Metten, O. Tonomura, A. Nagaki, S. Hasebe and J. Yoshida, "Modeling and Design of a Flow-Microreactor-Based Process for Synthesizing Ionic Liquids," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00436

[531] A. Szelwicka, P. Zawadzki, M. Sitko, S. Boncel, W. Czardybon and A. Chrobok, "Continuous Flow Chemo-Enzymatic Baeyer–Villiger Oxidation with Superactive and Extra-Stable Enzyme/Carbon Nanotube Catalyst: An Efficient Upgrade from Batch to Flow," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00132

[530] M. Littleson, A. Campbell, A. Clarke, M. Dow, G. Ensor, M. Evans, A. Herring, B. Jackson, L. Jackson, S. Karlsson, D. Klauber, D. Legg, K. Leslie, Moravčík, C. Parsons, T. Ronson and R. Meadows, "Synthetic Route Design of AZD4635, an A2AR Antagonist," *Org. Process Res. Dev.,* vol. 23, no. 7, pp. 1407-1419, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00171

[529] J. Lim, K. Arrington, A. Dunn, D. Leitch, I. Andrews, N. Curtis, M. Hughes, D. Tray, C. Wade, M. Whiting, C. Goss, Y. Liu and B. Roesch, "A Flow Process Built Upon a Batch Foundation – Preparation of a Key Amino-Alcohol Intermediate via Multi-Stage Continuous Synthesis," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00478

[528] M. Guberman, B. Pieber and P. Seeberger, "Safe and Scalable Continuous Flow Azidophenylselenylation of Galactal to Prepare Galactosamine Building Blocks," *Org. Process Res. Dev.,* vol. 23, no. 12, pp. 2764-2770, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00456

[527] B. Gleede, M. Selt, C. Gütz, A. Stenglein and S. Waldvogel, "Large, Highly Modular NarrowGap Electrolytic Flow Cell and Application in Dehydrogenative Cross-Coupling of Phenols," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00451

[526] M. Tissot, J. Jacq and P. Pasau, "Stereospecific Amination of Mesylated Cyclobutanol in Continuous Flow," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00381

[525] C. Hone, A. Boyd, A. O'Kearney-McMullan, R. Bourne and F. Muller, "Definitive screening designs for multistep kinetic models in flow," *React. Chem. Eng.,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c9re00180h

[524] B. Cerra, G. Mosca, M. Ricci, A. Schoubben and A. Gioiello, "Flow nanoprecipitation of sizecontrolled d-leucine nanoparticles for spray-drying formulations," *React. Chem. Eng.,* vol. 4, no. 10, pp. 1861-1868, 2019. https://pubs.rsc.org/en/content/articlelanding/2019/re/c9re00242a

[523] M. Chaudhari, N. Mohanta, A. Pandey, M. Vandana, K. Karmodiya and B. Gnanaprakasam, "Peroxidation 2-oxindole and barbituric acid derivatives under batch and continuous flow using an eco-friendly ethyl acetate solvent," *React. Chem. Eng.,* vol. 4, no. 7,pp. 1277-1283, 2019. https://pdfs.semanticscholar.org/d38d/7acbd371294d7bb275a6e300d865a8e42c1d.pdf

[522] N. Weeranoppanant, "Enabling tools for continuous-flow biphasic liquid–liquid reaction," *Reaction Chemistry & Engineering,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c8re00230d

[521] M. Baumann, "Integrating reactive distillation with continuous flow processing," *Reaction Chemistry & Engineering,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c8re00217g

[520] M. Pagliaro, "The Role of Single-Atom Catalysis in Potentially Disruptive Technologies," *Single-Atom Catalysis,* pp. 21-46. http://dx.doi.org/10.1016/B978-0-12-819088-3.00002-8

[519] N. Amri, R. Skilton, D. Guthrie and T. Wirth, "Efficient Flow Electrochemical Alkoxylation of Pyrrolidine-1-carbaldehyde," *Synlett,* 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1611774

[518] N. Ahmed and A. Vgenopoulou, "Flow Electrochemical Cyclizations via Amidyl Radicals: Easy Access to Cyclic Ureas," *SynOpen,* vol. 3, no. 1, pp. 46-48, 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1611772

[517] H. Lebel, A. Charette, G. Evano, A. Nitelet and V. Kairouz, "Continuous Flow Chlorination of Alkenyl Iodides Promoted by Copper Tubing," *Synthesis,* vol. 51, no. 1, pp. 251-257, 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1610398

[516] Z. Rao, "The application of 3D-printing in batch and flow chemistry for the synthesis of heterocycles," *Thesis,* 2019. http://discovery.ucl.ac.uk/id/eprint/10071943

[515] A. Bouchard, "Trifluorométhylthiolation par CH activation et synthèse d'amines primaires en chimie en flux continu," *Thesis,* 2019. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/21912

[510] H. Wang, "Cobalt (III)-and Manganese (I)-Catalyzed C— H and C— C *Activations," Thesis,* 2019. https://d-nb.info/1182033644/34

[509] R. Galaverna, "Explorando os benefícios da química em fluxo contínuo na síntese de compostos oriundos de biomassa e na química de cetenos," *Thesis,* 2019. http://repositorio.unicamp.br/handle/REPOSIP/334868

[508] D. Thomas III, "Design and implementation of an automated reconfigurable modular flow chemistry synthesis platform," *Thesis,* 2019. https://dspace.mit.edu/handle/1721.1/121851

[507] P. Flandrin, "Developing metastable switchable materials towards scale-up production in continuous flow environment," *Thesis,* 2019. https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.782217

[506] C. Audubert, "Méthylénation et diazotisation en chimie en flux continu," Thesis, 2019. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/21580

[505] R. Hicklin, A. Strom, E. Styduhar and T. Jamison, "6 Hazardous Reagents in Continuous-Flow Chemistry," *Thesis,* 2019. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/sos-SD-228-00140.pdf

[504] C. Scholtz, "The automated flow synthesis of fluorine containing organic compounds," *Thesis,* 2019. https://repository.up.ac.za/handle/2263/72680

[503] T. Britten, "4-π Photocyclisation: a new route to functionalised four-membered rings," *Thesis,* 2019. https://eprints.lancs.ac.uk/id/eprint/137080/

[502] M. Jo, "N-Heterocyclic Carbene Copper Complexes: Catalysis and Coordination Chemistry," *Thesis,* 2019. https://diginole.lib.fsu.edu/islandora/object/fsu%3A709774

[501] A. ROIBU, "Characterization of Microstructured Reactors for Photochemical Transformations," *Thesis,* 2019. https://lirias.kuleuven.be/retrieve/55634

2018

Year total: 78

[500] A. Benítez-Mateos, M. Contente, S. Velasco-Lozano, F. Paradisi and F. López-Gallego, "Self- Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5'-Phosphate and ω- Transaminases onto Porous Carriers," *ACS Sustainable Chem. Eng.,* vol. 6, no. 10, pp. 1315113159, 2018. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.8b02672

[499] S. Agalave, M. Chaudhari, G. Bisht and B. Gnanaprakasam, "Additive Free Fe-Catalyzed Conversion of Nitro to Aldehyde under Continuous Flow Module," *ACS Sustainable Chem. Eng.,* vol. 6, no. 10, pp. 12845-12854, 2018. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.8b02090

[498] E. Campbell, J. Grant, Y. Wang, M. Sandhu, R. Williams, D. Nisbet, A. Perriman, D. Lupton and C. Jackson, "Hydrogel-Immobilized Supercharged Proteins," *Adv. Biosys.,* vol. 2, no. 7, p. 1700240, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/adbi.201700240

[497] K. Kunihiro, L. Dumais, G. Lafitte, E. Varvier, L. Tomas and C. Harris, "An Efficient Benzoxaborole One-Pot Synthesis by SiliaCat DPP-Pd Heterogeneous Catalysis using Diboronic Acid," *Adv. Synth. Catal.,* vol. 360, no. 14, pp. 2757-2761, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201800262

[496] C. Bottecchia, R. Martin, I. Abdiaj, E. Crovini, J. Alcazar, J. Jorduna, M. Blesa, J. Carrillo, P. Prieto and T. Noel, "De novo design of organic photocatalysts: bithiophene derivatives for the visible-light induced C-H functionalization of heteroarenes," *Adv. Synth. Catal.,*

2018.
https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801571

[495] H. Seo, L. Nguyen and T. Jamison, "Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis," *Adv. Synth. Catal.,* 2018.
https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801228

[494] I. Abdiaj, L. Huck, J. Mateo, A. de la Hoz, M. Gomez, A. Díaz-Ortiz and J. Alcázar, "Photoinduced Palladium-Catalyzed Negishi Cross-Couplings Enabled by the Visible-Light Absorption of Palladium-Zinc Complexes," *Angew. Chem. Int. Ed. Engl.,* vol. 57, no. 40, pp. 13231-13236, 2018.
https://ruidera.uclm.es/xmlui/handle/10578/18335

[493] M. Ganiek, M. Ivanova, B. Martin and P. Knochel, "Mild Homologation of Esters through Continuous Flow Chloroacetate Claisen Reactions," *Angew. Chem. Int. Ed. Engl.,* vol. 57, no. 52, pp. 17249-17253, 2018.
https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201810158

[492] C. Burcham, A. Florence and M. Johnson, "Continuous Manufacturing in Pharmaceutical Process Development and Manufacturing," *Annu Rev Chem Biomol Eng,* vol. 9, pp. 253-281, 2018.
https://www.annualreviews.org/doi/abs/10.1146/annurev-chembioeng-060817-084355

[491] S. Mumtaz, M. Robertson and M. Oelgemöller, "Recent Advances in Photodecarboxylations Involving Phthalimides," *Aust. J. Chem.,* vol. 71, no. 9, p. 634, 2018.
http://www.publish.csiro.au/CH/CH18220

[490] E. Yu, H. Mangunuru, N. Telang, C. Kong, J. Verghese, S. Gilliland Iii, S. Ahmad, R. Dominey and B. Gupton, "High-yielding continuous-flow synthesis of antimalarial drug hydroxychloroquine," *Beilstein J Org Chem,* vol. 14, pp. 583-592, 2018.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5852550/

[489] S. De Angelis, C. Carlucci, M. de Candia, G. Rebuzzini, P. Celestini, M. Riscazzi, R. Luisi and L. Degennaro, "Targeting a Mirabegron precursor by BH 3 -mediated continuous

flow reduction process," *Catalysis Today,* vol. 308, pp. 81-85, 2018. https://www.sciencedirect.com/science/article/pii/S0920586117306739

[488] V. Liautard, M. Birepinte, C. Bettoli and M. Pucheault, "Mg-Catalyzed OPPenauer Oxidation—Application to the Flow Synthesis of a Natural Pheromone," *Catalysts,* vol. 8, no. 11, p. 529, 2018. https://www.mdpi.com/2073-4344/8/11/529

[487] J. Britton, S. Majumdar and G. Weiss, "Continuous flow biocatalysis," Chem Soc rev, vol. 47, no. 15, pp. 5891-5918, 2018. http://pubs.rsc.org/en/content/articlehtml/2018/cs/c7cs00906b

[486] F. Lima, L. Grunenberg, H. Rahman, R. Labes, J. Sedelmeier and S. Ley, "Organic photocatalysis for the radical couplings of boronic acid derivatives in batch and flow," *Chem. Commun. (Camb.),* vol. 54, no. 44, pp. 5606-5609, 2018. http://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc02169d

[485] P. Dingwall, A. Greb, L. Crespin, R. Labes, B. Musio, J. Poh, P. Pasau, D. Blakemore and S. Ley, "C-H functionalisation of aldehydes using light generated, non-stabilised diazo compounds in flow," *Chem. Commun. (Camb.),* 2018. https://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc06202a

[484] F. Akwi and P. Watts, "Continuous flow chemistry: where are we now? Recent applications, challenges and limitations," *Chem. Commun. (Camb.),* vol. 54, no. 99, pp. 13894-13928, 2018. https://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc07427e

[483] S. Mileghem, W. Borggraeve and I. Baxendale, "A Robust and Scalable Continuous Flow Process for Glycerol Carbonate," *Chem. Eng. Technol.,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/ceat.201800012

[482] R. Radjagobalou, J. Blanco, O. Dechy-Cabaret, M. Oelgemöller and K. Loubière, "Photooxygenation in an advanced led-driven flow reactor module: Experimental investigations and modelling," *Chemical Engineering and Processing - Process Intensification,* vol. 130, pp. 214-228, 2018.

https://www.sciencedirect.com/science/article/pii/S0255270118304355

[481] W. He, Z. Fang, K. Zhang, T. Tu, N. Lv and C. Qiu, "A novel micro-flow system under microwave irradiation for continuous synthesis of 1, 4-dihydropyridines in the absence of solvents via Hantzsch reaction," *Chemical Engineering Journal,* vol. 331, p. 161, 2018. https://www.sciencedirect.com/science/article/pii/S1385894717314444

[480] Z. Fang, W. He, T. Tu, N. Lv, C. Qiu, X. Li, N. Zhu, L. Wan and K. Guo, "An efficient and green pathway for continuous Friedel-Crafts acylation over α-Fe 2 O 3 and CaCO 3 nanoparticles prepared in the microreactors," *Chemical Engineering Journal,* vol. 331, pp. 443-449, 2018. https://www.sciencedirect.com/science/article/pii/S1385894717314845

[479] K. Hock and R. Koenigs, "The Generation of Diazo Compounds in Continuous-Flow," *Chemistry, 2018* https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201800136

[478] H. Qi, X. Li, Z. Liu, S. Miao, Z. Fang, L. Chen, Z. Fang and K. Guo, "Regioselective Chlorination of Quinoline Derivatives via Fluorine Mediation in a Microfluidic Reactor," *ChemistrySelect,* vol. 3, no. 38, pp. 1068910693, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/slct.201802925

[477] J. Baker, J. Gilbert, S. Paula, X. Zhu, J. Sakoff and A. McCluskey, "Dichlorophenylacrylonitriles as AhR Ligands That Display Selective Breast Cancer Cytotoxicity in vitro," *ChemMedChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.201800256

[476] Y. Chen, O. de Frutos, C. Mateos, J. Rincon, D. Cantillo and C. Kappe, "Continuous Flow Photochemical Benzylic Bromination of a Key Intermediate in the Synthesis of a 2Oxazolidinone," *ChemPhotoChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201800114

[475] E. Corcoran, F. Lévesque, J. McMullen and J. Naber, "Studies Toward the Scaling of GasLiquid Photocycloadditions," *ChemPhotoChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201800098

[474] S. Mostarda, D. Passeri, A. Carotti, B. Cerra, C. Colliva, T. Benicchi, A. Macchiarulo, R. Pellicciari and A. Gioiello, "Synthesis, physicochemical properties, and biological activity of bile acids 3-glucuronides: Novel insights into bile acid signalling and detoxification," *Eur J Med Chem,* vol. 144, pp. 349-358, 2018. https://www.sciencedirect.com/science/article/pii/S0223523417310401

[473] F. Silva, A. Baker, J. Stansall, W. Michalska, M. Yusubov, M. Graz, R. Saunders, G. Evans and T. Wirth, "Selective Oxidation of Sulfides in Flow Chemistry," *Eur. J. Org. Chem.,* pp. 21342137, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201800339

[472] N. Luise, E. Wyatt, G. Tarver and P. Wyatt, "A Continuous Flow Strategy for the Facile Synthesis and Elaboration of Semi-Saturated Heterobicyclic Fragments," *Eur. J. Org. Chem.,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201801684

[471] M. Giroud, B. Kuhn, S. Saint-Auret, C. Kuratli, R. Martin, F. Schuler, F. Diederich, M. Kaiser, R. Brun, T. Schirmeister and W. Haap, "2 H-1,2,3-Triazole-Based Dipeptidyl Nitriles: Potent, Selective, and Trypanocidal Rhodesain Inhibitors by Structure-Based Design," *J. Med. Chem.,* vol. 61, no. 8, pp. 3370-3388, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.7b01870

[470] D. Crowley, D. Lynch and A. Maguire, "Copper-Mediated, Heterogeneous, Enantioselective Intramolecular Buchner Reactions of α-Diazoketones Using Continuous Flow Processing," *J. Org. Chem.,* vol. 83, no. 7, pp. 3794-3805, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b00147

[469] K. Raynor, G. May, U. Bandarage and M. Boyd, "Generation of Diversity Sets with High sp3 Fraction Using the Photoredox Coupling of Organotrifluoroborates and Organosilicates with Heteroaryl/Aryl Bromides in Continuous Flow," *J. Org. Chem.,* vol. 83, no. 3, pp. 1551-1557, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.7b02680

[468] M. Chaudhari, S. Moorthy, S. Patil, G. Bisht, H. Mohamed, S. Basu and B. Gnanaprakasam, "Iron-Catalyzed Batch/Continuous Flow C-H Functionalization Module

for the Synthesis of Anticancer Peroxides," *J. Org. Chem.,* vol. 83, no. 3, pp. 1358-1368, 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.7b02854

[467] Y. Chen, M. Leonardi, P. Dingwall, R. Labes, P. Pasau, D. Blakemore and S. Ley, "Photochemical Homologation for the Preparation of Aliphatic Aldehydes in Flow," *J. Org.Chem.,* 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02721

[466] C. Audubert, A. Bouchard, G. Mathieu and H. Lebel, "Chemoselective Synthesis of Amines from Ammonium Hydroxide and Hydroxylamine in Continuous Flow," *J. Org. Chem.,* vol. 83, no. 22, pp. 14203-14209, 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02387

[465] I. Abdiaj, C. Horn and J. Alcazar, "Scalability of Visible-Light-Induced Nickel Negishi Reactions: A Combination of Flow Photochemistry, Use of Solid Reagents, and In-Line NMR Monitoring," *J. Org. Chem.,* 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02358

[464] C. Genet, X. Nguyen, B. Bayatsarmadi and M. Horne, "Reductive aminations using a 3D printed supported metal (0) catalyst system," *Journal of Flow Chemistry,* 2018.
https://link.springer.com/article/10.1007/s41981-018-0013-6

[463] A. Bouchard, V. Kairouz, M. Manneveau and H. Xiong, "Continuous flow palladium-catalyzed trifluoromethylthiolation of CH bonds," *Journal of Flow Chemistry,* 2018.
https://link.springer.com/article/10.1007/s41981-018-0023-4

[462] G. Vile, G. Schmidt and S. Richard-Bildstein, "Enantiospecific cyclization of methyl N-(tertbutoxycarbonyl)-N-(3-chloropropyl)-D-alaninate to 2-methylproline derivative via 'memory of chirality' in flow," *Journal of Flow Chemistry,* 2018.
https://link.springer.com/article/10.1007/s41981-018-0022-5

[461] X. Li, Z. Liu, H. Qi, Z. Fang, S. Huang and S. Miao, "Continuous preparation for rifampicin," *Journal of Flow Chemistry,* 2018.

https://link.springer.com/article/10.1007/s41981-018-0017-2

[460] M. Contente and F. Paradisi, "Self-sustaining closed-loop multienzyme-mediated conversion of amines into alcohols in continuous reactions," *Nat Catal,* vol. 1, no. 6, pp. 452-459, 2018.
https://www.nature.com/articles/s41929-018-0082-9

[459] M. Hatit, L. Reichenbach, J. Tobin, F. Vilela, G. Burley and A. Watson, "A flow platform for degradation-free CuAAC bioconjugation," *Nat Commun,* vol. 9, no. 1, p. 4021, 2018.
https://www.nature.com/articles/s41467-018-06551-0

[458] M. Berton, L. Huck and J. Alcázar, "On-demand synthesis of organozinc halides under continuous flow conditions," *Nat Protoc,* vol. 13, no. 1, pp. 324-334, 2018.
https://www.nature.com/nprot/journal/v13/n2/abs/nprot.2017.141.html

[457] P. McCaw, U. Khandavilli, S. Lawrence, A. Maguire and S. Collins, "Synthesis of 1,2,5oxathiazole-S-oxides by 1,3-dipolar cycloadditions of nitrile oxides to α-oxo sulfines," *Org. Biomol. Chem.,* 2018.
https://pubs.rsc.org/en/content/articlehtml/2018/ob/c8ob02691b

[456] Y. Chen, D. Blakemore, P. Pasau and S. Ley, "Three-Component Assembly of Multiply Substituted Homoallylic Alcohols and Amines Using a Flow Chemistry Photoreactor," *Org. Lett.,* vol. 20, no. 20, pp. 6569-6572, 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.orglett.8b02907

[455] F. Politano and G. Oksdath-Mansilla, "Light on the horizon: Current research and future perspectives in flow photochemistry," *Org. Process Res. Dev.,* 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00213

[454] H. Hsieh, C. Coley, L. Baumgartner, K. Jensen and R. Robinson, "Photoredox Iridium–Nickel Dual-Catalyzed Decarboxylative Arylation Cross-Coupling: From Batch to Continuous Flow via Self-Optimizing Segmented Flow Reactor," *Org. Process Res. Dev.,* vol. 22, no. 4, pp. 542550, 2018.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00018

[453] J. Gardiner, X. Nguyen, C. Genet, M. Horne, C. Hornung and J. Tsanaktsidis, "Catalytic Static Mixers for the Continuous Flow Hydrogenation of a Key Intermediate of Linezolid (Zyvox)," *Org. Process Res. Dev.,* 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00153

[452] E. Godineau, C. Battilocchio, M. Lehmann, S. Ley, R. Labes, L. Birnoschi, S. Subramanian, C. Prasanna, A. Gorde, M. Kalbagh, V. Khade, A. Scherrer and A. O'Sullivan, "A Convergent Continuous Multistep Process for the Preparation of C4-Oxime-Substituted Thiazoles," *Org. Process Res. Dev.,* vol. 22, no. 8, pp. 955-962, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00095

[451] A. O'Brien, E. Ricci and M. Journet, "Dehydration of an Insoluble Urea Byproduct Enables the Condensation of DCC and Malonic Acid in Flow," *Org. Process Res. Dev.,* vol. 22, no. 3, pp. 399-402, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00375

[450] K. Harper, E. Moschetta, S. Bordawekar and S. Wittenberger, "A Laser Driven Flow Chemistry Platform for Scaling Photochemical Reactions with Visible Light," *ACS Central Science,* pp. 109-115, 2018. https://chemrxiv.org/ndownloader/files/12964958

[449] T. Bavaro, A. Pinto, F. Dall'Oglio, M. Hernáiz, C. Morelli, P. Zambelli, C. De Micheli, P. Conti, L. Tamborini and M. Terreni, "Flow-based biocatalysis: Application to peracetylated arabinofuranosyl-1,5-arabinofuranose synthesis," *Process Biochemistry,* vol. 72, pp. 112-118, 2018. https://www.sciencedirect.com/science/article/pii/S1359511318302484

[448] P. Cossar, J. Baker, N. Cain and A. McCluskey, "In situ epoxide generation by dimethyldioxirane oxidation and the use of epichlorohydrin in the flow synthesis of a library of β-amino alcohols," *R Soc Open Sci,* 2018. http://rsos.royalsocietypublishing.org/content/5/4/171190.abstract

[447] L. Smith and I. Baxendale, "Flow synthesis of coumalic acid and its derivatization," *React. Chem. Eng.,* 2018. https://pubs.rsc.org/en/content/articlehtml/2018/re/c8re00116b

[446] D. Perera, J. Tucker, S. Brahmbhatt, C. Helal, A. Chong, W. Farrell, P. Richardson and N. Sach, "A platform for automated nanomole-scale reaction screening and micromole-scale synthesis in flow," *Science,* pp. 429-434, 2018 http://science.sciencemag.org/content/359/6374/429.abstract

[445] H. Wang, Z. Bao and R. Liu, "P-121: Successive and Scalable Synthesis of Highly Stable Cs4PbBr6 Perovskite Microcrystal by Microfluidic System and Their Application in Backlight Display," *SID Symposium Digest of Technical Papers,* vol. 49, no. 1, pp. 1664-1666, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/sdtp.12305

[444] A. Kumar and S. Gopinathan, "Conjugated Polymers: New Insights via Continuous Flow Syntheses," *SMC Bulletin,* pp. 28-36, 2018. http://www.smcindia.org/pdf/SMC%20Bulletin%20Aug-2017.pdf#page=38

[443] J. Babra, A. Russell, C. Smith and Y. Zhang, "Combining C-H functionalisation and flow photochemical heterocyclic metamorphosis (FP-HM) for the synthesis of benzo[1,3]oxazepines," *Tetrahedron,* 2018. https://www.sciencedirect.com/science/article/pii/S0040402018306148

[442] R. Dhanya, A. Herath, D. Sheffler and N. Cosford, "A combination of flow and batch mode processes for the efficient preparation of mGlu 2/3 receptor negative allosteric modulators (NAMs)," *Tetrahedron,* vol. 74, no. 25, pp. 3165-3170, 2018. https://www.sciencedirect.com/science/article/pii/S004040201830351X

[441] H. Seo, A. Bédard, W. Chen, R. Hicklin, A. Alabugin and T. Jamison, "Selective N monomethylation of primary anilines with dimethyl carbonate in continuous flow," *Tetrahedron,* vol. 74, no. 25, pp. 3124-3128, 2018. https://www.sciencedirect.com/science/article/pii/S0040402017312346

[440] T. von Keutz, F. Strauss, D. Cantillo and C. Kappe, "Continuous flow multistep synthesis of αfunctionalized esters via lithium enolate intermediates," *Tetrahedron,* vol. 74, no. 25, pp. 3113-3117, 2018. https://www.sciencedirect.com/science/article/pii/S004040201731222X

[439] G. Benoit, "Synthèse et fonctionnalisation de borocyclopropanes et développement d'un procédé de synthèse de diazoalcanes non-stabilisés en utilisant la technologie en débit continu," *Thesis,* 2018. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/20438

[438] F. Lima, "Photoredox C–C Cross-Coupling Reactions using Boronic Acid Derivatives,"*Thesis,* 2018. https://www.repository.cam.ac.uk/handle/1810/274928

[437] L. SMITH, "Synthesis of Value-Added Intermediates by Continuous Flow Technology," *Thesis,* 2018. http://etheses.dur.ac.uk/12526/1/thesis.pdf

[436] S. Lau, "Organic Synthesis: Taming Chemistry using Enabling *Technologies," Thesis,*2018. https://www.repository.cam.ac.uk/handle/1810/273347

[435] H. Gemoets, "Enabling and accelerating CH functionalization through continuous-flow chemistry," *Thesis,* 2018. https://research.tue.nl/files/88294061/20180110_Gemoets.pdf

[434] I. Abdiaj, "Application of photocatalysis in flow as a new tool for *drug-discovery," Thesis,* 2018. https://helvia.uco.es/handle/10396/17178

[433] D. Senf, "Synthesis of Arabinoxylan Oligo-and Polysaccharides from the Plant Cell Wall," *Thesis,* 2018. https://refubium.fu-berlin.de/handle/fub188/22770

[432] C. Minozzi, "Synthèse, caractérisation et application de photocatalyseurs à base de cuivre," *Thesis,* 2018. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/20665

[432] A. Bechtoldt, "Aerobic Ruthenium-Catalyzed C–H Activations," *Thesis, 2018.* https://d-nb.info/1166399796/34

[430] M. Bartetzko, "Development of Synthetic Glycan Tools for Investigating Plant Cell Wall Pectins," *Thesis,* 2018.
https://refubium.fu-berlin.de/handle/fub188/23208

[429] A. Kononov, "Oligosaccharides Prepared by Automated Glycan Assembly as Basis for Structural Investigations of Carbohydrates," *Thesis,* 2018.
https://refubium.fu-berlin.de/handle/fub188/23228

[478] A. Bogdan and M. Organ, "Flow Chemistry as a Drug Discovery Tool: A Medicinal Chemistry Perspective," *Topics in Heterocyclic Chemistry,* pp. 319-341, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_24

[427] J. Demaerel, V. Bieliūnas and W. De Borggraeve, "Functionalization of Heteroarenes Under Continuous Flow," *Topics in Heterocyclic Chemistry,* pp. 237-317, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_22

[426] R. Gérardy and J. Monbaliu, "Multistep Continuous-Flow Processes for the Preparation of Heterocyclic Active Pharmaceutical Ingredients," *Topics in Heterocyclic Chemistry,* 2018.
https://link.springer.com/chapter/10.1007/7081_2018_21

[425] T. Glasnov, "Photochemical Synthesis of Heterocycles: Merging Flow Processing and MetalCatalyzed Visible Light Photoredox Transformations," *Topics in Heterocyclic Chemistry,* pp. 103-132, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_20

[424] M. Rahman and T. Wirth, "Safe Use of Hazardous Chemicals in Flow," *Topics in Heterocyclic Chemistry,* pp. 343-373, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_17

[423] M. Baumann and I. Baxendale, "Flow Chemistry Approaches Applied to the Synthesis of Saturated Heterocycles," *Topics in Heterocyclic Chemistry,* pp. 187-236, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_16

2017

Year total: 74

[422] J. Tobin, T. McCabe, A. Prentice, A. Prentice, G. Lloyd, M. Paterson, V. Arrighi, P. Cormack and F. Vilela, "Polymer-supported photosensitizers for oxidative organic transformations in flow and under visible light irradiation," *ACS Catal.,* no. 7, p. 4602, 2017.
http://pubs.acs.org/doi/abs/10.1021/acscatal.7b00888

[421] K. Jensen, "Flow chemistry—Microreaction technology comes of age," *AIChE Journal,* no. 63, p. 585, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/aic.15642/full

[420] A. Greb, J. Poh, S. Greed, C. Battilocchio, P. Pasau, D. Blakemore and S. Ley, "A New Versatile Route to Unstable Diazo Compounds via Oxadiazolines and Use In Aryl-Alkyl Cross-Coupling Reactions," *Angew. Chem. Int. Ed. Engl.,* 2017.
http://onlinelibrary.wiley.com/doi/10.1002/ange.201710445/full

[419] M. Ketels, M. Ganiek, N. Weidmann and P. Knochel, "Synthese von Diorganomagnesium- und Diorganozinkverbindungen durch In-Situ-Abfang-Halogen-Lithium-Austausch an hochfunktionalisierten (Hetero)Arylhalogeniden im kontinuierlichen Durchfluss," *Angewandte Chemie,* p. 12944, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/anie.201706609/full

[418] L. Urge, J. Alcazar, L. Huck and G. Dorman, "Recent Advances of Microfluidics Technologies in the Field of Medicinal Chemistry," *Annual Reports in Medicinal Chemistry,* 2017.
http://www.sciencedirect.com/science/article/pii/S0065774317300192

[417] B. Bizet, C. Hornung, T. Kohl and J. Tsanaktsidis, "Synthesis of Imines and Amines from Furfurals Using Continuous Flow Processing," *Australian Journal of Chemistry,* no. 10, p. 1069, 2017.
http://www.publish.csiro.au/ch/CH17036

[416] C. Shukla and A. Kulkarni, "Automating multistep flow synthesis: approach and challenges in integrating chemistry, machines and logic," *Beilstein J Org Chem,* no. 13,

pp. 960-987, 2017.
http://www.beilstein-journals.org/bjoc/articles/13/97

[415] A. Herath and N. Cosford, "Continuous-flow synthesis of highly functionalized imidazooxadiazoles facilitated by microfluidic extraction," *Beilstein J Org Chem,* no. 13, pp. 239-246, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5331298/

[414] C. Hornung, M. Álvarez-Diéguez, T. Kohl and J. Tsanaktsidis, "Diels-Alder reactions of myrcene using intensified continuous-flow reactors," *Beilstein J Org Chem,* no. 13, pp. 120126, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5301964/

[413] A. Echtermeyer, Y. Amar, J. Zakrzewski and A. Lapkin, "Self-optimisation and model-based design of experiments for developing a C-H activation flow process," *Beilstein J Org Chem,* no. 13, pp. 150-163, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5301945/

[412] M. Ketels, M. Ganiek, N. Weidmann and P. Knochel, "Synthesis of Polyfunctional Diorganomagnesium and Diorganozinc Reagents through In Situ Trapping Halogen-Lithium Exchange of Highly Functionalized (Hetero)aryl Halides in Continuous Flow," *Angew. Chem. Int. Ed. Engl.,* vol. 56, no. 41, pp. 12770-12773, 2017.
https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201706609

[411] J. Poh, S. Makai, T. von Keutz, D. Tran, C. Battilocchio, P. Basau and S. Ley, "Rapid asymmetric disubstituted allene synthesis via coupling of flow-generated diazo compounds and propargylated amines," *Angew. Chem. Int. Ed. Engl.,* vol. 56, no. 7, p. 1864–1868, 2017.
https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201611067

[410] M. Baumann and I. Baxendale, "A continuous flow synthesis and derivatization of 1,2,4thiadiazoles," *Bioorg. Med. Chem.,* 2017.
http://www.sciencedirect.com/science/article/pii/S0968089617300901

[409] C. Kong, D. Fisher, B. Desai, Y. Yang, S. Ahmad, K. Belecki and B. Gupton, "High

throughput photo-oxidations in a packed bed reactor system," *Bioorg. Med. Chem.,* 2017. http://www.sciencedirect.com/science/article/pii/S0968089617313627

[408] S. De Angelis, C. Carlucci, M. Candia, G. Rebuzzini, P. Celestini, M. Luisi and L. Degennaro, "Targeting a Mirabegron precursor by BH3-mediated continuous flow reduction process," *Catalysis Today,* 2017. http://www.sciencedirect.com/science/article/pii/S0920586117306739

[407] J. Forni, L. Novaes, R. Galaverna and J. Pastre, "Novel polystyrene-immobilized chiral amino alcohols as heterogeneous ligands for the enantioselective arylation of aldehydes in batch and continuous flow regime," *Catalysis Today,* 2017. http://www.sciencedirect.com/science/article/pii/S0920586117305771

[406] M. Briggs and A. Cooper, "A Perspective on the Synthesis, Purification, and Characterization of Porous Organic Cages," *Chem Mater,* vol. 29, no. 1, pp. 149-157, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.chemmater.6b02903

[405] J. Lummiss, P. Morse, R. Beingessner and T. Jamison, "Towards More Efficient, Greener Syntheses through Flow Chemistry," *Chem Rec,* vol. 17, no. 7, pp. 667-680, 2017. https://scripts.iucr.org/cgi-bin/paper?lq5047

[404] C. Hone, A. -McMullan, R. Munday and C. Kappe, "Development of a Continuous-Flow Process for a Pd-Catalyzed Olefin Cleavage using Oxygen within the Explosive Regime," *ChemCatChem,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/cctc.201700671/full

[403] M. Contente, F. Dall'Oglio, L. Tamborini, F. Molinari and F. Paradisi, "Highly Efficient Oxidation of Amines to Aldehydes with Flow-based Biocatalysis," *ChemCatChem,* vol. 9, no. 20, pp. 3843-3848, 2017. https://onlinelibrary.wiley.com/doi/abs/10.1002/cctc.201701147

[402] A. Tanimu, S. Jaenicke and K. Alhooshani, "Heterogeneous catalysis in continuous flow microreactors: A review of methods and applications," *Chemical Engineering Journal,* vol. 327, no. 1, p. 792, 2017.

http://www.sciencedirect.com/science/article/pii/S1385894717311130

[401] H. Wu, T. Huang, F. Cao, Q. Zou, Q. Zou and P. Ouyang, "Co-production of HMF and gluconic acid from sucrose by chemo-enzymatic method," *Chemical Engineering Journal,* vol. 327, no. 1, p. 228, 2017.
http://www.sciencedirect.com/science/article/pii/S1385894717310586

[400] J. Britton and C. Raston, "Multi-step continuous-flow synthesis," *Chemical Society Reviews,* vol. 46, p. 1250, 2017.
http://pubs.rsc.org/-/content/articlehtml/2017/cs/c6cs00830e

[399] P. Dallabernardina, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Mixed-Linkage Glucan Oligosaccharides Produced by Automated Glycan Assembly Serve as Tools To Determine the Substrate Specificity of Lichenase," *Chemistry,* vol. 23, no. 13, pp. 3191-3196, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201605479/full

[398] M. Ganiek, M. Becker, G. Berionni, H. Zipse and P. Knochel, "Barbier Continuous Flow Preparation and Reactions of Carbamoyllithiums for Nucleophilic Amidation," *Chemistry,* vol. 23, no. 43, pp. 10280-10284, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201702593/full

[397] D. Senf, C. Ruprecht, G. de Kruijff, S. Simonetti, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Active Site Mapping of Xylan- Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly," *Chemistry,* vol. 23, no. 13, pp. 3197-3205, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201605902/full

[396] C. Lamb, B. Nderitu, G. McMurdo, J. Tobin, F. Vilela and A. Lee, "Auto-Tandem Catalysis: Pd(II)-Catalysed Dehydrogenation/Oxidative Heck of Cyclopentane-1,3-diones," *Chemistry,* 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201704442/full

[395] V. De Vitis, F. Dall'Oglio, A. Pinto, C. De Micheli, F. Molinari, P. Conti, D. Romano L. Tamborini, "Chemoenzymatic Synthesis in Flow Reactors: A Rapid and

Convenient Preparation of Captopril," *ChemistryOpen,* vol. 6, no. 5, pp. 668-673, 2017. http://onlinelibrary.wiley.com/doi/10.1002/open.201700082/ful

[394] Y. Auberson, C. Brocklehurst, M. Furegati, T. Fessard, G. Koch, A. Decker, L. La Vecchia and E. Briard, "Improving Nonspecific Binding and Solubility: Bicycloalkyl Groups and Cubanes as para-Phenyl Bioisosteres," *ChemMedChem,* vol. 12, no. 8, pp. 590-598, 2017. http://onlinelibrary.wiley.com/doi/10.1002/cmdc.201700082/full

[393] J. Ren, X. Dyosiba, N. Musyoka, N. Musyoka, M. Mathea and S. Liaoc, "Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs)," *Coordination Chemistry Reviews,* vol. 352, p. 187, 2017. http://www.sciencedirect.com/science/article/pii/S0010854517301947

[392] M. Baumann and I. Baxendale, "A Continuous Flow Method for the Desulfurization of Substituted Thioimidazoles Applied to the Synthesis of New Etomidate Derivatives," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700833/full

[391] L. Degennaro, [. Tota, [. De Angelis, [. Andresini, [. Cardellicchio, [. Capozzi, [. Romanazzi and [. Luisi, "A convenient, mild and green synthesis of NH-sulfoximines in flow reactors," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700850/full

[390] B. Gutmann, D. Cantillo and U. Weigl, "Design and Development of Pd-Catalyzed Aerobic NDemethylation Strategies for the Synthesis of Noroxymorphone in Continuous Flow Mode," *European Journal of Organic Chemistry,* p. 914, 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201601453/full

[389] J. Liu, J. Xu, Z. Li, Y. Huang, H. Wang, Y. Gao, P. Ouyang and K. Guo, "Carbocation organocatalysis in interrupted Povarov reactions to cis-fused pyrano-and furanobenzodihydropyrans," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700634/full

[388] M. Kitching, O. Dixon, M. Baumann and I. Baxendale, "Flow Assisted Synthesis: A key Fragment of SR 142948A," *European Journal of Organic Chemistry,* 2017.

http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700904/full

[387] V. Pantone, A. Laurenza, C. Annese, C. Annese, C. Fusco, A. Nacci, A. Russo and L. Accolti, "Methanolysis of epoxidized soybean oil in continuous flow conditions," *Industrial Crops and Products,* 2017. http://www.sciencedirect.com/science/article/pii/S0926669017305125

[386] Y. Qin, L. Chen, W. He, M. Su, Q. Jin, Z. Fang, P. Ouyang and K. Guo, "Continuous synthesis and anti-myocardial injury of tanshinone IIA derivatives," *J Asian Nat Prod Res,* pp. 1-9, 2017. http://www.tandfonline.com/doi/abs/10.1080/10286020.2017.1337751

[385] D. Plaza, V. Strobel, P. Heer, A. Sellars, S. Hoong, A. Clark and A. Lapkin, "Direct valorisation of waste cocoa butter triglycerides via catalytic epoxidation, ring-opening and polymerisation," *J Chem Technol Biotechnol,* vol. 92, no. 9, pp. 2254-2266, 2017. http://onlinelibrary.wiley.com/doi/10.1002/jctb.5292/full

[384] L. Büter, L. Frensemeier, M. Vogel and U. Karst, "Dual reductive/oxidative electrochemistry/liquid chromatography/mass spectrometry: Towards peptide and protein modification, separation and identification," *J Chromatogr A,* pp. 153-160, 2017. http://akademiai.com/doi/abs/10.1556/1846.2017.00006

[383] É. Godin, A. Bédard, M. Raymond and S. Collins, "Phase Separation Macrocyclization in a Complex Pharmaceutical Setting: Application toward the Synthesis of Vaniprevir," *J. Org. Chem.,* vol. 82, no. 14, pp. 7576-7582, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.joc.7b01308

[382] T. Noel, "A personal perspective on the future of flow photochemistry," *Journal of Flow Chemistry,* 2017. http://akademiai.com/doi/abs/10.1556/1846.2017.00022

[381] R. Xiao, J. Tobin, M. Zha, Y. Hou, Y. Hou, F. Vilela and Z. Xu, "A nanoporous graphene analog for superfast heavy metal removal and continuous-flow visible-light photoredox catalysis," *Journal of Materials Chemistry A,* vol. 38, 2017. http://pubs.rsc.org/en/content/articlehtml/2017/ta/c7ta05534j

[380] N. Gobalasingham, J. Carlé, F. Krebs, B. Thompson, E. Bundgaard and M. Helgesen, "Conjugated Polymers Via Direct Arylation Polymerization in Continuous Flow: Minimizing the Cost and Batch-to-Batch Variations for High-Throughput Energy Conversion," *Macromol Rapid Commun,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/marc.201700526/full

[379] S. Saubern, X. Nguyen, Van Nguyen, J. Gardiner, J. Tsanaktsidis and J. Chiefari, "Preparation of Forced Gradient Copolymers Using Tube-in-Tube Continuous Flow Reactors," *Macromolecular Reaction Engineering,* vol. 11, no. 5, 2017. http://onlinelibrary.wiley.com/doi/10.1002/mren.201600065/full

[378] K. Farley, U. Reilly, D. Anderson, B. Boscoe, M. Bundesmann, D. Foley, M. Lall, C. L M. Reese and J. Yan, "Utilizing on- and off-line monitoring tools to follow a kinetic resolution step during flow synthesis," *Magn Reson Chem,* vol. 55, no. 4, pp. 348-354, 2017. http://onlinelibrary.wiley.com/doi/10.1002/mrc.4494/full

[377] W. Zhang and J. Ready, "Total synthesis of the dictyodendrins as an arena to highlight emerging synthetic technologies," *Nat Prod Rep,* vol. 34, no. 8, pp. 1010-1034, 2017. http://pubs.rsc.org/-/content/articlehtml/2017/np/c7np00018a

[376] C. Russell, J. Baker, P. Cossar and A. McCluskey, "Recent Developments in the Use of Flow Hydrogenation in the Field of Medicinal Chemistry," *New Advances in Hydrogenation Processes - Fundamentals and Applications,* 2017 https://www.intechopen.com/books/new-advances-in-hydrogenation-processes-fundamentals-and-applications/recent-developments-in-the-use-of-flow-hydrogenation-in-the-field-of- medicinal-chemistry

[375] M. Baumann, I. Baxendale, P. Filipponi and T. Hu, "Sustainable Flow Synthesis of a Versatile Cyclopentenone Building Block," *Org. Process Res. Dev.,* vol. 21, no. 12, pp.2052-2059, 2017. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00328

[374] P. Amal Joseph and S. Priyadarshini, "Copper-Mediated C–X Functionalization of Aryl Halides," *Org. Process Res. Dev.,* vol. 21, no. 12, pp. 1889-1924, 2017.

https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00285

[373] S. Karlsson, C. Cook, H. Emtenäs, K. Fan, P. Gillespie and M. Mohamed, "Development of a Safe Continuous Manufacturing Route to 2-(4-Isopropyl-1H-1,2,3-triazol-1-yl)acetic Acid," *Org. Process Res. Dev.,* vol. 21, no. 10, pp. 1668-1674, 2017. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00259

[372] A. Adeyemi, J. Bergman, J. Brånalt, J. Sävmarker and M. Larhed, "Continuous Flow Synthesis under High Temperature/High Pressure Conditions using a Resistively Heated Flow Reactor," *Organic Process Research & Development,* vol. 21, no. 7, pp. 947-955, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00063

[371] C. Battilocchio, S. Lau, J. Hawkins and S. Ley, "Continuous flow hydration of pyrazine-2carbonitrile in a manganese dioxide column reactor," *Organic Syntheses,* vol. 94, pp. 34-45, 2017. https://www.repository.cam.ac.uk/bitstream/handle/1810/262538/OrgSyn_data.docx?sequence=1

[370] C. Battilocchio, F. Bosica, S. Rowe, B. Abreu, E. Godineau, M. Lehmann and S. Ley, "Continuous preparation and use of dibromoformaldoxime as a reactive intermediate for the synthesis of 3-bromoisoxazolines," *Original Process Research & Development,* vol. 21, no. 10, p. 1588, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00229

[369] T. logo, B. Bizet, P. Kevan, C. Sellwood, J. Tsanaktsidis and C. Hornung, "Efficient synthesis of 5-(chloromethyl) furfural (CMF) from high fructose corn syrup (HFCS) using continuous flow processing," *React. Chem. Eng.,* vol. 2, p. 541, 2017. http://pubs.rsc.org/en/content/articlehtml/2017/re/c7re00039a

[368] M. Damião, R. Galaverna, A. Kozikowski, J. Eubanks and J. Pastre, "Telescoped continuous flow generation of a library of highly substituted 3-thio-1,2,4-triazoles," *React. Chem. Eng.,* vol. 2, no. 6, pp. 896-907, 2017. http://pubs.rsc.org/en/content/articlehtml/2017/re/c7re00125h

[367] A. Kouridaki and K. Huvaere, "Singlet oxygen oxidations in homogeneous continuous flow using a gas–liquid membrane reactor," *Reaction Chemistry & Engineering,* vol. 2, p. 590, 2017. http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00053g

[366] D. Cantillo and C. Kappe, "Halogenation of organic compounds using continuous flow and microreactor technology," *Reaction Chemistry & Engineering,* 2017. http://pubs.rsc.org/is/content/articlehtml/2017/re/c6re00186f

[365] E. Mielke, P. Plouffe, N. Koushik, N. Koushik, M. Gottsponer, N. logo, A. logo and D. Roberge, "Local and overall heat transfer of exothermic reactions in microreactor systems," *Reaction Chemistry & Engineering,* vol. 2, p. 763, 2017. http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00085e

[364] D. Walsh, P. Patureau, P. Patureau, S. Reekstingb, A. Lubbenb, S. logo and M. Weller, "Exploring effects of intermittent light upon visible light promoted water oxidations," *Sustainable Energy Fuels,* 2017. http://pubs.rsc.org/-/content/articlehtml/2017/se/c7se00304h

[363] C. Brocklehurst, G. Koch, G. Koch and L. Vecchia, "In Situ Preparation and Consumption of OMesitylsulfonylhydroxylamine (MSH) in Continuous Flow for the Amination of Pyridines," *Synlett,* vol. 28, no. 13, pp. 1636-1640, 2017. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588799

[362] I. Abdiaj, C. Bottecchia, J. Alcazar and T. Noë, "Visible-Light-Induced Trifluoromethylation of Highly Functionalized Arenes and Heteroarenes in Continuous Flow," *Synthesis,* vol. 49, no. 22, p. 4978, 2017. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588527

[361] W. Sun, D. Wilson and D. Harrowven, "Steric Buttressing Changes Torquospecificity in Thermal Cyclobutenone Rearrangements, Providing New Opportunities for 5H-Furanone Synthesis," *Synthesis,* vol. 39, no. 14, pp. 3091-3106, 2017. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588850

[360] S. Mohapatra, Z. Wilson, S. Roy and S. Ley, "Utilization of flow chemistry in catalysis:

New avenues for the selective synthesis of Bis (indolyl) methanes," *Tetrahedron,* vol. 73, no. 14, p. 1218, 2017.
http://www.sciencedirect.com/science/article/pii/S0040402017301588

[359] M. O'Brien, L. Konings, M. Martin and J. Heap, "Harnessing open-source technology for lowcost automation in synthesis: Flow chemical deprotection of silyl ethers using a homemade autosampling system," *Tetrahedron Letters,* vol. 58, no. 25, pp.2409-2413, 2017.
http://www.sciencedirect.com/science/article/pii/S0040403917305749

[358] E. Verhelst, "ontwikkeling en analyse van continue processen in mesoreactoren voor moeilijk opschaalbare batch reacties," *Thesis,* 2017.
http://lib.ugent.be/fulltxt/RUG01/002/352/266/RUG01-002352266_2017_0001_AC.pdf

[357] M. Scala, "Design and synthesis of peptides involved in the inhibition of influenza virus infection," *Thesis,* 2017.
http://elea.unisa.it/handle/10556/2423

[356] J. Bartholomeus, "Réactions d'amination de liens CH: synthèse d'amines propargyliques à partir de N-mésyloxycarbamates et études mécanistiques," *Thesis,* 2017.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/18430

[355] M. Raymond, "Synthèse de macrocycles par réaction de métathèse et application en débit continu," *Thesis,* 2017.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/18438

[354] A. Alnomsy, "Synthesis and properties of pyridine containing drugs and heterocycles," *Thesis,* 2017.
http://sro.sussex.ac.uk/id/eprint/70414

[353] E. Mielke, "Study on the Transport Phenomena in Complex Micro-Reactors," *Thesis,*2017.
http://www.ruor.uottawa.ca/handle/10393/36040

[352] S. Vukelić, "Synthesis of Fluorinated Amino Acids and Their Derivatives in Flow," *Thesis,*

2017.
http://www.diss.fu-berlin.de/diss/receive/FUDISS_thesis_000000105192

[351] J. Poh, "Coupling reactions using flow-generated diazo compounds," *Thesis,* 2017. https://www.repository.cam.ac.uk/handle/1810/268223

[350] P. Bharate, "Automated Glycan Assembly of Oligomannose Glycans for Sensing Applications," *Thesis,* 2017. http://pubman.mpdl.mpg.de/pubman/item/escidoc:2505819/component/escidoc:2505818/ Thesis.pdf

[349] L. Tamborini, P. Fernandes, F. Paradisi and F. Molinari, "Flow Bioreactors as Complementary Tools for Biocatalytic Process Intensification," *Trends Biotechnol.,* 2017. http://www.sciencedirect.com/science/article/pii/S0167779917302494

2016

Year total: 69

[348] J. Suberu, P. Yamin, R. Cornell, A. Sam and A. Lapkin, "Feasibility of Using 2, 3, 3, 3Tetrafluoropropene (R1234yf) as a Solvent for Solid–Liquid Extraction of Biopharmaceuticals," *ACS Sustainable Chem. Eng.,* vol. 4, no. 5, p. 2559, 2016. http://pubs.acs.org/doi/abs/10.1021/acssuschemeng.5b01721

[347] J. Zakrzewski, A. Smalley, M. Kabeshov, M. Gaunt and A. Lapkin, "Continuous-Flow Synthesis and Derivatization of Aziridines through Palladium-Catalyzed C(sp(3))-H Activation.," *Angew. Chem. Int. Ed. Engl.,* vol. 55, no. 31, pp. 8878-83, 2016. http://onlinelibrary.wiley.com/doi/10.1002/anie.201602483/full

[346] M. Bower, J. Shen, R. Steinbach, J. Tobin, J. Tobin, McCoustra, H. Bridle, V. Arrighi and F. Vilela, "Photoactive and metal-free polyamide-based polymers for water and wastewater treatment under visible light irradiation," *Applied Catalysis B: Environmental,* vol. 193, p. 226, 2016. http://www.sciencedirect.com/science/article/pii/S0926337316302818

[345] C. Mallia, G. Walter and I. Baxendale, "Flow carbonylation of sterically hindered

orthosubstituted iodoarenes," *Beilstein J Org Chem,* vol. 12, pp. 1503-11, 2016. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4979912/

[344] C. Mallia, P. Burton, A. Smith, G. Walter and I. Baxendale, "Catalytic Chan-Lam coupling using a 'tube-in-tube' reactor to deliver molecular oxygen as an oxidant," *Beilstein J Org Chem,* vol. 12, pp. 1598-607, 2016. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4979635/

[343] I. Abdiaj and J. Alcázar, "Improving the throughput of batch photochemical reactions using flow: Dual photoredox and nickel catalysis in flow for C(sp(2))C(sp(3)) cross-coupling," *Bioorg. Med. Chem.,* 2016. http://www.sciencedirect.com/science/article/pii/S096808961631495X

[342] T. Glasnov, "Organic Synthesis in Dedicated Continuous Flow Systems," in *Continuous-Flow Chemistry in the Research Laboratory*, 2016, pp. 93-112. http://link.springer.com/chapter/10.1007/978-3-319-32196-7_10

[341] T. Glasnov, "Equipment Overview," in *Continuous-Flow Chemistry in the Research Laboratory*, 2016, pp. 7-20. http://link.springer.com/chapter/10.1007/978-3-319-32196-7_2

[340] J. Guerra, D. Cantillo and C. Kappe, "Visible-light photoredox catalysis using a macromolecular ruthenium complex: reactivity and recovery by size-exclusion nanofiltration in continuous flow," *Catalysis Science & Technology,* vol. 6, pp. 4695-4699, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/cy/c6cy00070c

[339] R. Ciriminna, V. Pandarus, F. Béland and M. Pagliaro, "Fine chemical syntheses under flow using Silia Cat catalysts," *Catalysis Science & Techology,* vol. 6, pp. 4678-4685, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/cy/c6cy00038j

[338] V. Sans and L. Cronin, "Towards dial-a-molecule by integrating continuous flow, analytics and self-optimisation," *Chem Soc Rev,* vol. 45, no. 8, pp. 2032-43, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/cs/c5cs00793c

[337] H. Gemoets, Y. Su, M. Shang, V. Hessel, R. Luque and T. Noël, "Liquid phase oxidation chemistry in continuous-flow microreactors," *Chem Soc Rev,* vol. 45, no. 1, pp. 83-117, 2016. http://pubs.rsc.org/en/content/articlehtml/2015/cs/c5cs00447k

[336] N. Kockmann, "Modular Equipment for Chemical Process Development and Small-Scale Production in Multipurpose Plants," *ChemBioEng Reviews,* vol. 3, no. 1, pp. 5-15, 2016. http://onlinelibrary.wiley.com/doi/10.1002/cben.201500025/full

[335] S. Josland, S. Mumtaz and M. Oelgemöller, "Photodecarboxylations in an Advanced MesoScale Continuous-Flow Photoreactor," *Chemical Engineering & Technology,* 2016. http://onlinelibrary.wiley.com/doi/10.1002/ceat.201500285/full

[334] K. Loubière, M. Oelgemöller, T. Aillet, O. Dechy-Cabaret and L. Prat, "Continuous-flow photochemistry: A need for chemical engineering," *Chemical Engineering and Processing: Process Intensification,* pp. 120-132, 2016. http://www.sciencedirect.com/science/article/pii/S0255270116300393

[333] K. Chen, S. Zhang, P. He and P. Li, "Efficient metal-free photochemical borylation of aryl halides under batch and continuous-flow conditions," *Chemical Science,* vol. 7, pp. 36763680, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/sc/c5sc04521e

[332] J. Poh, S. Lau, I. Dykes, D. Tran, C. Battilocchio and S. Ley, "A multicomponent approach for the preparation of homoallylic alcohols," *Chemical Science,* vol. 7, pp. 6803-6807, 2016. https://www.repository.cam.ac.uk/bitstream/handle/1810/256655/sichemsci.pdf?sequence=2;isAllowed=y

[331] D. Lücke, T. Dalton, S. Ley and Z. Wilson, "Synthesis of Natural and Unnatural Cyclooligomeric Depsipeptides Enabled by Flow Chemistry," *Chemistry,* vol. 22, no. 12, pp. 4206-17, 2016. http://onlinelibrary.wiley.com/doi/10.1002/chem.201504457/full

[330] F. Politano, E. Bujan and N. Leadbeater, "Preparation of benzimidazole N-oxides by a twostep continuous flow process," *Chemistry of Heterocyclic Compounds,* vol. 52, no. 11, pp. 952-957, 2016. http://link.springer.com/article/10.1007/s10593-017-1992-1

[329] N. Elizarov, M. Pucheault and S. Antoniotti, "Highly Efficient Hosomi-Sakurai Reaction of Aromatic Aldehydes Catalyzed by Montmorillonite Doped with Simple Bismuth(III) Salts. Batch and Continuous Flow Studies.," *ChemistrySelect,* vol. 1, no. 12, pp. 3219-3222, 2016. http://onlinelibrary.wiley.com/doi/10.1002/slct.201600916/full

[328] Y. Qin, W. He, M. Su, Z. Fang, Z. Fang and K. Guo, "An efficient etherification of Ginkgol biloba extracts with fewer side effects in a micro-flow system," *Chinese Chemical Letters,* vol. 27, no. 10, p. 1644, 2016. http://www.sciencedirect.com/science/article/pii/S1001841716300705

[327] M. Giménez-Marqués, T. Hidalgo, C. Serre and P. Horcajada, "Nanostructured metal–organic frameworks and their bio-related applications," *Coordination Chemistry Reviews,* pp. 342360, 2016. http://www.sciencedirect.com/science/article/pii/S0010854515002787

[326] P. Filipponi and I. Baxendale, "The Generation of a Library of Bromodomain-Containing Protein Modulators Expedited by Continuous Flow Synthesis," *European Journal of Organic Chemistry,* pp. 2000-2012, 2016. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201600222/full

[325] J. Gardiner, C. Hornung, J. Tsanaktsidis and D. Guthrie, "Continuous flow photo-initiated RAFT polymerisation using a tubular photochemical reactor," *European Polymer Journal,* pp. 200-207, 2016. http://www.sciencedirect.com/science/article/pii/S0014305716300325

[324] P. Zambelli, L. Tamborini, S. Cazzamalli, A. Pinto, S. Arioli, S. Balzaretti, F. Plou, L. FernandezArrojo, F. Molinari, P. Conti and D. Romano, "An efficient continuous flow process for the synthesis of a non-conventional mixture of fructooligosaccharides," *Food Chem,* pp. 607613, 2016.

http://www.sciencedirect.com/science/article/pii/S0308814615008808

[323] A. Nagendiran, H. Sörensen, M. Johansson, C. Taid and J. Bäckvall, "Nanopalladium-catalyzed conjugate reduction of Michael acceptors–application in flow," *Green Chemistry,* vol. 18, no. 9, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/gc/c5gc02920a

[322] M. de Léséleuc, É. Godin, S. Parisien-Collette, A. Lévesque and S. Collins, "Catalytic Macrocyclization Strategies Using Continuous Flow: Formal Total Synthesis of Ivorenolide A,"*J. Org. Chem.,* vol. 81, no. 15, pp. 6750-6, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.joc.6b01500

[321] A. Joshi-Pangu, F. Lévesque, H. Roth, S. Oliver, L. Campeau, D. Nicewicz and D. DiRocco, "Acridinium-Based Photocatalysts: A Sustainable Option in Photoredox Catalysis," *J. Org. Chem.,* vol. 81, no. 16, pp. 7244-9, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.joc.6b01240

[320] T. DeLano, U. Bandarage, N. Palaychuk, J. Green and M. Boyd, "Application of the Photoredox Coupling of Trifluoroborates and Aryl Bromides to Analog Generation Using Continuous Flow," *J. Org. Chem.,* vol. 81, no. 24, pp. 12525-12531, 2016. https://pubs.acs.org/doi/full/10.1021/acs.joc.6b02408?src=recsys

[319] P. McCaw, B. Deadman, A. Maguire and S. Collins, "Delivering enhanced efficiency in the synthesis of α-diazosulfoxides by exploiting the process control enabled in flow," *Journal of Flow Chemistry,* vol. 6, no. 3, 2016. http://akademiai.com/doi/abs/10.1556/1846.2016.00013

[318] Y. Wong, J. Tobin, Z. Xu and F. Vilela, "Conjugated porous polymers for photocatalytic applications," *Journal of Materials Chemistry A,* no. 4, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ta/c6ta07697a

[317] K. Alexander, E. Paulhus, G. Lazarus and N. Leadbeater, "Exploring the reactivity of a ruthenium complex in the metathesis of biorenewable feedstocks to generate value-added chemicals," *Journal of Organometallic Chemistry,* pp. 74-80, 2016. http://www.sciencedirect.com/science/article/pii/S0022328X15301479

[316] B. Cerra, S. Mostarda, C. Custodi and A. Macchiarulo, "Integrating multicomponent flow synthesis and computational approaches for the generation of a tetrahydroquinoline compound based library," *Med. Chem. Commun.,* p. 439, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/md/c5md00455a

[315] Y. Fang and G. Tranmer, "Continuous flow photochemistry as an enabling synthetic technology: synthesis of substituted-6(5H)- phenanthridinones for use as poly(ADP-ribose) polymerase inhibitors," *MedChemComm,* 2016. http://pubs.rsc.org/doi/c5md00552

[314] T. Hu, I. Baxendale and M. Baumann, "Exploring Flow Procedures for Diazonium Formation," *Molecules,* 2016. http://www.mdpi.com/1420-3049/21/7/918/htm

[313] D. Svatunek, C. Denk, V. Rosecker, B. Sohr, C. Hametner, G. Allmaier, J. Fröhlich and H. Mikula, "Efficient low-cost preparation of trans- cyclooctenes using a simplified flow setup for photoisomerization," *Monatsh. Chem.,* pp. 579-585, 2016. http://link.springer.com/article/10.1007/s00706-016-1668-z

[312] A. Lin, C. Russell, J. Baker, S. Frailey, J. Sakoff and A. McCluskey, "A facile hybrid 'flow and batch' access to substituted 3,4-dihydro- 2H-benzo[b][1,4]oxazinones.," *Org. Biomol. Chem.,* vol. 14, no. 37, pp. 8732-8742, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c6ob01153e

[311] Y. Fang and G. Tranmer, "Expedited access to thieno[3,2-c] quinolin-4(5H)-ones and benzo[h]-1,6-naphthyridin-5(6H)-ones via a continuous flow photocyclization method," *Org. Biomol. Chem.,* vol. 14, no. 46, pp. 10799-10803, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c6ob02279k

[310] P. Dallabernardina, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Automated glycan assembly of xyloglucan oligosaccharides," *Org. Biomol. Chem.,* vol. 14, no. 1, pp. 309-13, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c5ob02226f

[309] M. Oelgemöller and N. Hoffmann, "Studies in organic and physical photochemistry - an

interdisciplinary approach," *Org. Biomol. Chem.,* vol. 14, no. 31, pp. 7392-442, 2016. http://pubs.rsc.org/en/content/articlehtml/2016/ob/c6ob00842a

[308] P. Rullière, P. Cyr and A. Charette, "Difluorocarbene Addition to Alkenes and Alkynes in Continuous Flow," *Org. Lett.,* vol. 18, no. 9, pp. 1988-91, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b00573

[307] N. Palaychuk, T. DeLano, M. Boyd, J. Green and U. Bandarage, "Synthesis of Cycloalkyl Substituted 7-Azaindoles via Photoredox Nickel Dual Catalytic Cross-Coupling in Batch and Continuous Flow," *Org. Lett.,* vol. 18, no. 23, pp. 6180-6183, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b03223

[306] M. Ganiek, M. Becker, M. Ketels and P. Knochel, "Continuous Flow Magnesiation or Zincation of Acrylonitriles, Acrylates, and Nitroolefins. Application to the Synthesis of Butenolides," *Org. Lett.,* vol. 18, no. 4, pp. 828-31, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b00086

[305] K. Chen, M. Cheung, Z. Lin and P. Li, "Metal-free borylation of electron-rich aryl (pseudo) halides under continuous-flow photolytic conditions," *Organic Chemistry Frontiers,* pp. 875879, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/qo/c6qo00109b

[304] B. Ahmed-Omer, E. Sliwinski, J. Cerroti and S. Ley, "Continuous processing and efficient in situ reaction monitoring of a hypervalent iodine (III) mediated cyclopropanation using benchtop NMR spectroscopy," *Organic Process Research & Development,* pp. 1603-1614, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.6b00177

[303] L. Elliott, M. Berry, B. Harji, D. Klauber, J. Leonard and K. Booker-Milburn, "A small-footprint, high-capacity flow reactor for uv photochemical synthesis on the kilogram scale," *Organic Process Research & Development,* pp. 1806-1811, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.6b00277

[302] J. Tobin, J. Liu, H. Hayes, M. Demleitner and D. Ellis, "BODIPY-based conjugated microporous polymers as reusable heterogeneous photosensitisers in a photochemical

flow reactor," *Polymer Chemistry,* no. 7, p. 6662, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/py/c6py01393g

[301] T. a, C. a, D. a, D. a, S. a, X. b and R. Whitby, "Thermolysis of 1, 3-dioxin-4-ones: fast generation of kinetic data using in-line analysis under flow," *React. Chem. Eng.,* 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00007f

[300] P. Yaseneva, P. Hodgson, J. Zakrzewski, S. Falß, R. Meadows and A. Lapkin, "Continuous flow Buchwald–Hartwig amination of a pharmaceutical intermediate," *React. Chem. Eng.,* p. 229, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00048c

[299] F. Strauss, D. Cantillo, D. Cantillo and C. Kappe, "A laboratory-scale continuous flow chlorine generator for organic synthesis," *React. Chem. Eng.,* p. 472, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c6re00135a

[298] D. Fitzpatrick and S. Ley, "Engineering chemistry: integrating batch and flow reactions on a single, automated reactor platform," *Reaction Chemistry & Engineering,* pp. 629-635, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c6re00160b

[297] Hansen, S. Wilson, Z. Ulven, T. Ley and S. V, "Controlled generation and use of CO in flow," *Reaction Chemistry & Engineering,* p. 280, 2016. https://findresearcher.sdu.dk:8443/ws/files/120047479/ReactChemEng_2016_1_280_Hansen.pdf

[296] M. Baumann and I. Baxendale, "Continuous photochemistry: the flow synthesis of ibuprofen via a photo-Favorskii rearrangement," *Reaction Chemistry & Engineering,* pp. 147-150, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00037h

[295] C. Archambault and N. Leadbeater, "A benchtop NMR spectrometer as a tool for monitoring mesoscale continuous-flow organic synthesis: equipment interface and assessment in four organic transformations," *RSC Advances,* 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ra/c6ra19662d

[294] M. Balti, S. Miller, M. Efrit and N. Leadbeater, "An approach to the synthesis of 4-aryl and 5aryl substituted thiazole-2 (3 H)-thiones employing flow processing," *RSC Advances,* pp. 72165-72169, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ra/c6ra15488c

[293] 龚磊, 袁振文, 代立, 王苏and 廖本仁, "微通道反应器内合成羟基新戊醛," *Shanghai Chemical Industry,* no. 6, p. 19, 2016. http://www.cqvip.com/qk/93195x/201606/669164626.html

[292] M. Baumann and I. Baxendale, "Continuous-Flow Synthesis of 2H-Azirines and Their Diastereoselective Transformation to Aziridines," *Synlett,* vol. 27, no. 1, pp. 159-163, 2016. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1560391

[291] B. Leforestier and M. Vogtle, "Safe Generation and Direct Use of Chlorine Azide in Flow Chemistry: 1, 2-Azidochlorination of Olefins and Access to Triazoles," *Synlett,* vol. 27, no. 13, pp. 1957-1962, 2016. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1561659

[290] M. Hutchings and T. Wirth, "A Simple Setup for Transfer Hydrogenations in Flow Chemistry," *Synlett ,* vol. 27, no. 12, pp. 1832-1835, 2016. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1561624

[289] L. Tamborini, V. Nicosia, P. Conti, F. Dall'Oglio, C. Micheli, B. Nielsen, A. Jensen, D. SPickering andA. Pinto, "γ-Glutamyl-dipeptides: Easy tools to rapidly probe the stereoelectronic properties of the ionotropic glutamate receptor binding pocket," *Tetrahedron,* vol. 72, no. 51, pp. 8486-8492, 2016. http://www.sciencedirect.com/science/article/pii/S0040402016311693

[288] M. Asadi, J. Hooper and D. Lupton, "Biodiesel synthesis using integrated acid and base catalysis in continuous flow," *Tetrahedron,* vol. 72, no. 26, pp. 3729-3733, 2016. http://www.sciencedirect.com/science/article/pii/S0040402016302046

[287] J. Bao and G. Tranmer, "The solid copper-mediated C–N cross-coupling of phenylboronic acids under continuous flow conditions," *Tetrahedron Letters,* vol. 57, no. 6, pp. 654-657, 2016.

http://www.sciencedirect.com/science/article/pii/S0040403915305207

[286] A. Lombardia, "Application of solid-supported [Pd (NHC)] complexes in Suzuki-Miyaura, Heck and Sonogashira couplings. Studies under batch and continuous flow conditions.," *Thesis,* 2016. http://www.tdx.cat/bitstream/handle/10803/386577/TESI.pdf?sequence=1#page=118

[285] M. Becker, "Continuous flow metalations of arenes, heteroarenes and formamides using lithium and zinc reagents," *Thesis,* 2016. https://edoc.ub.uni-muenchen.de/21310/1/Becker_Matthias_Richard.pdf

[284] Y. Fang, "The application of flow chemistry techniques in medicinal chemistry programs: the development of flow-photocyclization methods for the synthesis of phenanthridinone-type compounds.," *Thesis,* 2016. https://mspace.lib.umanitoba.ca/handle/1993/31817

[283] I. Alonso, "Nova abordagem para a síntese total do espilantol e avaliação da atividade antinociceptiva," *Thesis,* 2016. http://repositorio.unicamp.br/handle/REPOSIP/325762

[282] H. Piras, "Synthèse de sulfilimines et de sulfoximines catalysée par les métaux de transition," *Thesis,* 2016. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/16005

[281] J. Sonck, "Ontwikkeling van een continue syntheseroute voor gelithieerd methoxyalleen," *Thesis,* 2016. http://lib.ugent.be/fulltxt/RUG01/002/275/068/RUG01-002275068_2016_0001_AC.pdf

[280] M. Hutchings, "Novel Process Windows: Reactions Using Tricky Reagents," *Thesis,* 2016. http://orca-mwe.cf.ac.uk/100921/1/Hutchings%20MJ%20Final%20Thesis.pdf

2015

Year total: 72

[279] S. Ley, D. Fitzpatrick, R. Myers, C. Battilocchio and R. Ingham, "Maschinengestützte

organische Synthese," *Angewandte Chemie,* vol. 127, no. 35, p. 10260, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201501618/full

[278] M. Brzozowski, M. O'Brien, S. Ley and A. Polyzos, "Flow chemistry: intelligent processing of gas-liquid transformations using a tube-in-tube reactor," *Acc. Chem. Res.,* vol. 48, no. 2, pp. 349-62, 2015. https://pubs.acs.org/doi/full/10.1021/ar500359m?src=recsys

[277] C. Correia, K. Gilmore, D. McQuade and P. Seeberger, "A concise flow synthesis of efavirenz," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 16, pp. 4945-8, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201411728/full

[276] C. Correia, K. Gilmore, D. McQuade and P. Seeberge, "Eine kurze Durchflusssynthese von Efavirenz," *Angewandte Chemie,* vol. 127, no. 16, p. 5028, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201411728/full

[275] M. Helgesen, J. Carlé, G. Benatto, R. d, M. Jørgensen, E. Bundgaard and F. Krebs, "Making Ends Meet: Flow Synthesis as the Answer to Reproducible High-Performance Conjugated Polymers on the Scale that Roll-to-Roll Processing Demands," *Adv. Energy Mater.,* 2015. http://onlinelibrary.wiley.com/doi/10.1002/aenm.201401996/full

[274] S. Ley, D. Fitzpatrick, R. Myers, C. Battilocchio and R. Ingham, "Machine-Assisted Organic Synthesis," *Angew. Chem. Int. Ed. Engl.,* vol.54,no.35,pp.10122-36, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201501618/full

[273] S. Ley, D. Fitzpatrick, R. Ingham and R. Myers, "Organic synthesis: march of the machines.," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 11, pp. 3449-64, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201410744/full

[272] S. Ley, D. Fitzpatrick, R. Ingham and R. Myers, "Organische Synthese: Vormarsch der Maschinen," *Angewandte Chemie,* vol. 127, no. 11, p. 3514, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201410744/full

[271] A. Pitts, F. O'Hara, R. Snell and M. Gaunt, "A concise and scalable strategy for the total synthesis of dictyodendrin B based on sequential C-H functionalization.," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 18, pp. 5451-5, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201500067/full

[270] H. Pordanjani, C. Faderl, J. Wang, C. Motti, P. Junk and M. Oelgemöller, "Photodecarboxylative Benzylations of N-Methoxyphthalimide under batch and continuousflow conditions," *Australian Journal of Chemistry,* vol. 68, no. 11, pp. 1662-1667, 2015. http://www.publish.csiro.au/CH/CH15356

[269] A. Martínez, J. Krinsky, I. Peñafiel, S. Castillón, K. Loponov, A. Lapkin, C. Godard and C. Claver, "Heterogenization of Pd–NHC complexes onto a silica support and their application in Suzuki–Miyaura coupling under batch and continuous flow conditions," *Catalysis Science & Technology,* pp. 310-319, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cy/c4cy00829d

[268] M. Briggs, A. Slater, N. Lunt, S. Jiang, M. Little, R. Greenaway, T. Hasell, C. Battilocchio, S. Ley and A. Cooper, "Dynamic flow synthesis of porous organic cages," *Chem Commun (Camb).,* vol. 51, no. 98, pp. 17390-3, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cc/c5cc07447a

[267] M. Brzozowski, J. Forni, G. Paul Savage and A. Polyzos, "The direct α-C(sp(3))-H functionalisation of N-aryl tetrahydroisoquinolines via an iron-catalysed aerobic nitroMannich reaction and continuous flow processing," *Chem. Commun. (Camb.),* vol. 51, no. 2, pp. 334-7, 2015. https://pubmed.ncbi.nlm.nih.gov/25407918/

[266] J. Bao and G. Tranmer, "The utilization of copper flow reactors in organic synthesis," *Chem. Commun. (Camb.),* vol. 51, no. 15, pp. 3037-44, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cc/c4cc09221j

[265] T. Nobuta, G. Xiao, D. Ghislieri, K. Gilmore and P. Seeberger, "Continuous and convergent access to vicinyl amino alcohols.," *Chem. Commun. (Camb.),* vol. 51, no. 82, pp. 15133-6, 2015.

http://pubman.mpdl.mpg.de/pubman/item/escidoc:2183444/component/escidoc:2218601/ 2183444_supp.pdf

[264] I. Baxendale, "A Short Multistep Flow Synthesis of a Potential Spirocyclic Fragrance Component," *Chemical Engineering & Technology,* vol. 38, no. 10, pp. 1713-1716, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ceat.201500255/full

[263] P. Witt, S. Somasi, I. Khan, D. Blaylock, J. Newby and S. Ley, "Modeling mesoscale reactors for the production of fine chemicals," *Chemical Engineering Journal,* p. 353, 2015. http://www.sciencedirect.com/science/article/pii/S1385894714016404

[262] B. Deadman, D. Browne, I. Baxendale and S. Ley, "Back Pressure Regulation of SlurryForming Reactions in Continuous Flow," *Chemical Engineering Technology,* vol. 38, no. 2, p. 259, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ceat.201400445/full

[261] D. Cantillo, C. Mateos, J. Rincon, O. de Frutos and C. Kappe, "Light-Induced C-H Arylation of (Hetero)arenes by In Situ Generated Diazo Anhydrides.," *Chemistry,* vol. 21, no. 37, pp. 12894-8, 2015. http://onlinelibrary.wiley.com/doi/10.1002/chem.201502357/full

[260] D. Ushakov, M. Plutschack, K. Gilmore and P. Seeberger, "Factors influencing the regioselectivity of the oxidation of asymmetric secondary amines with singlet oxygen," *Chemistry,* vol. 21, no. 17, pp. 6528-34, 2015. http://onlinelibrary.wiley.com/doi/10.1002/chem.201500121/full

[259] F. Grenier, Aïch, Y. Lai, M. Guerette, A. Holmes, Y. Tao, W. Wong and M. Leclerc, "Electroactive and photoactive poly [isoindigo-alt-EDOT] synthesized using direct (hetero) arylation polymerization in batch and in continuous flow," *Chemistry of Materials,* vol. 27, no. 6, p. 2137–2143, 2015. https://dam-oclc.bac-lac.gc.ca/download?is_thesis=1;oclc_number=1256279961;id=ce87818b-ef5f-4fbd-a3d9-7dcaa9067f64;fileName=36141.pdf#page=149

[258] Y. Wu, W. Chen, Y. Zhao and H. Piao, "Efficient synthesis of panaxadiol derivatives using continuous-flow microreactor and evaluation of anti-tumor activity," *Chinese Chemical Letters,* vol. 26, no. 3, pp. 334-338, 2015. http://www.sciencedirect.com/science/article/pii/S1001841714004641

[257] N. Ranasinghe and G. Jones, "Flow and Microwave Assisted Synthesis of Medicinally Relevant Indoles," *Current Green Chemistry,* vol. 2, p. 66, 2015. http://www.ingentaconnect.com/content/ben/cgc/2015/00000002/00000001/art00009

[256] C. Henry, D. Bolien, B. Ibanescu, S. Bloodworth, D. Harrowven, X. Zhang, A. Craven, H. Sneddon and R. Whitby, "Generation and Trapping of Ketenes in Flow," *European J Org Chem,* pp. 1491-1499, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201403603/full

[255] C. Stanetty and I. Baxendale, "Large-Scale Synthesis of Crystalline 1,2,3,4,6,7-Hexa-O-acetyll-glycero-α-d-manno-heptopyranose," *European J Org Chem,* pp. 2718-2726, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201500024/full

[254] T. Hamlin and N. Leadbeater, "Real-time Monitoring of Reactions Performed Using Continuous-flow Processing: The Preparation of 3-Acetylcoumarin as an Example," *J Vis Exp,* 2015. https://www.jove.com/video/52393/real-time-monitoring-reactions-performed-using-continuous-flow

[253] M. Brodney, E. Beck, C. Butler, G. Barreiro, E. Johnson, D. Riddell, K. Parris, C. Nolan, Y. Fan, K. Atchison, C. Gonzales, A. Robshaw, S. Doran, M. Bundesmann, L. Buzon, J. Dutra, K. Henegar, E. LaChapelle, X. Hou, B. Rogers, J. Pandit, R. Lira, L. Martinez-Alsina and Mi, "Utilizing structures of CYP2D6 and BACE1 complexes to reduce risk of drug-drug interactions with a novel series of centrally efficacious BACE1 inhibitors," *J. Med. Chem.,* vol. 58, no. 7, pp. 3223-52, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.5b00191

[252] M. Baumann and I. Baxendale, "Batch and Flow Synthesis of Pyrrolo[1,2-a]-quinolines via an Allene-Based Reaction Cascade," *J. Org. Chem.,* vol. 80, no. 21, pp. 10806-16, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.joc.5b01982

[251] X. Li, A. Chen, Y. Zhou, L. Huang, Z. Fang and H. Guo, "Two-Stage Flow Synthesis of Coumarin via O-Acetylation of Salicylaldehyde," *Journal of Flow Chemistry,* vol. 5, no. 2, 2015.
http://akademiai.com/doi/abs/10.1556/1846.2014.00043

[250] A. Bedard, J. Santandrea and S. Collins, "Efficient continuous-flow synthesis of macrocyclic triazoles," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015.
http://akademiai.com/doi/abs/10.1556/JFC-D-14-00042

[249] M. Negus and A. Leadbeate, "The preparation of ethyl levulinate facilitated by flow processing: The catalyzed and uncatalyzed esterification of levulinic acid," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015.
http://akademiai.com/doi/abs/10.1556/1846.2015.00005

[248] A. Baker, M. Graz, R. Saunders, G. Evans, I. Pitotti and T. Wirth, "Flow alkylation of thiols, phenols, and amines using a heterogenous base in a packed-bed reactor," *Journal of Flow Chemistry,* vol. 5, no. 2, 2015.
http://akademiai.com/doi/abs/10.1556/1846.2015.00009

[247] M. Nieves-Remacha and K. Jensen, "Mass transfer characteristics of ozonolysis in microreactors and advanced-flow reactors," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015.
http://akademiai.com/doi/abs/10.1556/1846.2015.00010

[246] A. Martin, A. Siamaki, K. Belecki and B. Gupton, "A flow-based synthesis of telmisartan," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015.
http://akademiai.com/doi/abs/10.1556/JFC-D-15-00002

[245] V. Arima, P. Watts and G. Pascali, "Microfluidics in planar microchannels: synthesis of chemical compounds on-chip," *Lab-on-a-Chip Devices and Micro-Total Analysis Systems,* pp. 197-239, 2015.
http://link.springer.com/chapter/10.1007/978-3-319-08687-3_8

[244] L. Tamborini, F. Mastronardi, F. Dall'Oglio, C. De Micheli, B. Nielsen, L. Presti, P. Conti

and A. Pinto, "Synthesis of unusual isoxazoline containing β and γ-dipeptides as potential glutamate receptor ligands," *Med. Chem. Commun.,* pp. 1260-1266, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/md/c5md00159e

[243] C. Manansala and G. Tranmer, "Flow Synthesis of 2-Methylpyridines via α-Methylation," *Molecules,* vol. 20, no. 9, pp. 15797-806, 2015. http://www.mdpi.com/1420-3049/20/9/15797/htm

[242] T. Kohl, C. Hornung and J. Tsanaktsidis, "Amination of Aryl Halides and Esters Using Intensified Continuous Flow Processing," *Molecules,* vol. 20, no. 10, pp. 17860-71, 2015. http://www.mdpi.com/1420-3049/20/10/17860/htm

[241] J. Beatty, J. Douglas, K. Cole and C. Stephenson, "A scalable and operationally simple radical trifluoromethylation," *Nature Communication,* 2015. https://www.nature.com/ncomms/2015/150810/ncomms8919/full/ncomms8919.html?WT.ec_id=NCOMMS-20150812;spMailingID=49302896;spUserID=ODkwMTM2NjQyNgS2;spJobID=741904452;spReportId=NzQxOTA0NDUyS0

[240] C. Gourdon, S. Elgue and L. Prat, "What are the needs for Process Intensification?," *Oil & Gas Science and Technology – Rev. IFP Energies nouvelles,* vol. 70, no. 3, pp. 463-473, 2015. https://ogst.ifpenergiesnouvelles.fr/articles/ogst/abs/2015/03/ogst140093/ogst140093.html

[239] S. Lau, S. Bourne, B. Martin, B. Schenkel, G. Penn and S. Ley, "Synthesis of a Precursor to Sacubitril Using Enabling Technologies," *Org Lett.,* vol. 17, no. 21, p. 5436–5439, 2015. https://www.repository.cam.ac.uk/bitstream/handle/1810/251223/Synthesis%20of%20a%20Precursor%20to%20Sacubitril%20using%20Enabling%20Technologies_ESI_Revised.docx?se quence=4

[238] P. Cossar, L. Hizartzidis, M. Simone, A. McCluskey and C. Gordon, "The expanding utility of continuous flow hydrogenation," *Org. Biomol. Chem.,* vol. 13, no. 26, pp. 7119-30, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob01067e

[237] Z. Yousuf, A. Richards, A. Dwyer, B. Linclau and D. Harrowven, "The development of a short route to the API ropinirole hydrochloride," *Org. Biomol. Chem.,* vol. 13, no. 42, pp. 10532-9, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob01739d

[236] L. C. Alves, A. Desiderá, K. de Oliveira, S. Newton, S. Ley and T. Brocksom, "A practical decagram scale ring expansion of (R)-(-)-carvone to (R)-(+)-3-methyl-6-isopropenyl-cyclohept-3enone-1," *Org. Biomol. Chem.,* vol. 13, no. 28, pp. 7633-42, 2015. http://pubs.rsc.org/en/content/articlehtml/2015/ob/c5ob00525f

[235] M. Baumann, A. Rodriguez Garcia and I. Baxendale, "Flow synthesis of ethyl isocyanoacetate enabling the telescoped synthesis of 1,2,4-triazoles and pyrrolo-[1,2-c]pyrimidines," *Org. Biomol. Chem.,* vol. 13, no. 14, pp. 4231-9, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob00245a

[234] S. Glöckner, D. Tran, R. Ingham, S. Fenner, Z. Wilson, C. Battilocchio and S. Ley, "The rapid synthesis of oxazolines and their heterogeneous oxidation to oxazoles under flow conditions," *Org. Biomol. Chem.,* vol. 13, no. 1, pp. 207-14, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c4ob02105c

[233] J. Souto, R. Stockman and S. Ley, "Development of a flow method for the hydroboration/oxidation of olefins," *Org. Biomol. Chem.,* vol. 13, no. 13, pp. 3871-7, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob00170f

[232] M. Rojo, L. Guetzoyan and I. Baxendale, "A monolith immobilised iridium Cp* catalyst for hydrogen transfer reactions under flow conditions," *Org. Biomol. Chem.,* vol. 13, no. 6, pp. 1768-77, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c4ob02376e

[231] S. Matthies, D. McQuade and P. Seeberger, "Homogeneous Gold-Catalyzed Glycosylations in Continuous Flow.," *Org. Lett.,* no. 15, pp. 3670-3, 2015. http://pubman.mpdl.mpg.de/pubman/item/escidoc:2172675/component/escidoc:2213945/ 2172675_supp.pdf

[230] N. Oger, E. Grognec and F. Felpin, "Handling diazonium salts in flow for organic and

material chemistry," *Organic Chemistry Frontiers,* no. 2, p. 590, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/qo/c5qo00037h

[229] B. Gutmann, P. Elsner, A. O'Kearney-McMullan, W. Goundry, D. Roberge and C. Kappe, "Development of a continuous flow sulfoxide imidation protocol using azide sources under superacidic conditions," *Organic Process Research & Development,* vol. 19, no. 8, pp. 10621067, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00217

[228] R. Ciriminna, V. Pandarus, A. Fidalgo, L. Ilharco, F. Béland and M. Pagliaro, "Silia Cat: A Versatile Catalyst Series for Synthetic Organic Chemistry," *Organic Process Research & Development,* vol. 19, no. 7, pp. 755-768, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00137

[227] S. Karlsson, R. Bergman, C. Löfberg, P. Moore, F. Pontén, J. Tholander and H. Sörensen, "Development of a Large-Scale Route to an MCH1 Receptor Antagonist: Investigation of a Staudinger Ketene–Imine Cycloaddition in Batch and Flow Mode," *Organic Process Research & Development,* vol. 19, no. 12, pp. 2067-2074, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00319

[226] S. Müller, A. Murat, P. Hellier and T. Wirth, "Toward a Large-Scale Approach to Milnacipran Analogues Using Diazo Compounds in Flow Chemistry," *Organic Process Research & Development,* vol. 20, no. 2, pp. 495-502, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00308

[225] P. Filipponi, A. Gioiello and I. Baxendale, "Controlled flow precipitation as a valuable tool for synthesis," *Organic Process Research and Development,* vol. 20, no. 2, pp. 371-375, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00331

[224] D. Fitzpatrick, C. Battilocchio and S. Ley, "A novel internet-based reaction monitoring, control and autonomous self-optimization platform for chemical synthesis," *Organic Process Research & Development,* vol. 20, no. 2, p. 386–394, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00313

[223] A. Constantinou, G. Wu, A. Corredera, P. Ellis, D. Bethell, G. Hutchings, S. Kuhn and A. Gavriilidis, "Continuous Heterogeneously Catalyzed Oxidation of Benzyl Alcohol in a Ceramic Membrane Packed-Bed Reactor," *Organic Process Research & Development,* vol. 19, no. 12, p. 1973–1979, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00220

[222] P. Watts, "Organometallic-Catalysed Gas–Liquid Reactions in Continuous Flow Reactors," *Organometallic Flow Chemistry,* pp. 77-95, 2015. http://link.springer.com/chapter/10.1007/3418_2015_159

[221] J. Poh, D. Browne and S. Ley, "A multistep continuous flow synthesis machine for the preparation of pyrazoles via a metal-free amine-redox process," *Reaction Chemistry & Engineering,* pp. 101-105, 2015. https://www.repository.cam.ac.uk/bitstream/handle/1810/252343/pyrazoles-supporting-inf ormation.pdf?sequence=1

[220] K. Barlow, V. Bernabeu, X. Hao, T. Hughes, O. EHutt, A. Polyzos, K. Turner and G. Moad, "Triphenylphosphine-grafted, RAFT-synthesised, porous monoliths as catalysts for Michael addition in flow synthesis," *Reactive and Functional Polymers,* pp. 89-96, 2015. http://www.sciencedirect.com/science/article/pii/S1381514815300468

[219] C. Russell, A. Lin, P. Hains, M. Simone and P. Robinson, "An integrated flow and microwave approach to a broad spectrum protein kinase inhibitor," *RSC Advances,* vol. 5, pp. 9343393437, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ra/c5ra09426g

[218] A. Hafner and S. Ley, "Generation of reactive ketenes under flow conditions through zincmediated dehalogenation," *Synlett,* vol. 26, no. 10, pp. 1470-1474, 2015. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0034-1380679

[217] C. Wendell and M. Boyd, "Reevaluation of the 2-nitrobenzyl protecting group for nitrogen containing compounds: an application of flow photochemistry," *Tetrahedron Letters,* vol. 56, no. 17, pp. 897-899, 2015. http://www.sciencedirect.com/science/article/pii/S0040403915000106

[216] P. Cyr, "Hydroxylation d'halogénures d'aryle utilisant la chimie en flux continu et développement d'une nouvelle méthodologie de synthèse de 3-aminoindazoles," *Thesis,* 2015. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/11461

[215] L. Miller, "Application of Flow-Based Methods to Inorganic Materials Synthesis," *Thesis,* 2015. http://diginole.lib.fsu.edu/islandora/object/fsu%3A291317/

[214] F. Mastronardi, "SYNTHESIS AND STRUCTURE-ACTIVITY RELATIONSHIP OF NEW SUBTYPE SELECTIVE KAINATE RECEPTOR LIGANDS," *Thesis,* 2015. https://air.unimi.it/handle/2434/252272

[213] A. Longstreet, "Access to polysubstituted heterocycles and fluorescent indicators from a single enamine class," *Thesis,* 2015. http://search.proquest.com/openview/236ea03a09385f08dfcf24c2eeb50ce6/1?pq-origsite= gscholar;cbl=18750;diss=y

[212] A. Vlassova, "Visible-light-mediated synthesis of helicenes in batch and continuous flow systems," *Thesis,* 2015. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/11466

[211] A. Hernandez-Perez, "Réaction de photocycle déshydrogénation par catalyse photorédox," *Thesis,* 2015. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/12319

[210] P. Plouffe, "Micro-Reactor Design for Fast Liquid-Liquid Reactions," *Thesis,* 2015. http://www.ruor.uottawa.ca/handle/10393/32875

[209] A. Falk, E. Bengtsson, S. Juhlin, D. Le and L. Niklasson, "Utveckling av flödesreaktor: Ett sammarbetesprojekt mellan fakulteten för teknik och naturvetenskap vid Uppsala Universitet och Fagrell produktutveckling AB," *Thesis,* 2015. http://www.diva-portal.org/smash/get/diva2:826794/FULLTEXT01.pdf

[208] S. Clinton, "A Continuous Process Towards the Synthesis of Quinolones, "*Thesis,* 2015.

http://scholarscompass.vcu.edu/etd/3852/?utm_source=scholarscompass.vcu.edu%2Fetd%2F3852;utm_medium=PDF;utm_campaign=PDFCoverPages

2014

Year total: 46

[207] N. Alonso, L. Miller, J. de M Muñoz, J. Alcázar and D. McQuade, "Continuous synthesis of organozinc halides coupled to Negishi reactions," *Advanced Synthesis & Catalysis,* p. 3737– 3741, 2014. http://onlinelibrary.wiley.com/doi/10.1002/adsc.201400243/full

[206] M. Werner, C. Kuratli, R. Martin, R. Hochstrasser, D. Wechsler, T. Enderle, A. Alanine and H. Vog, "Nahtlose Integration von Dosis-Wirkungs-basiertem Screening und Flusschemie: effiziente Erzeugung von Struktur-Aktivitäts-Beziehungen von β-Sekretase(BACE1)Hemmern," *Angew. Chem.,* pp. 1730-1735, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201309301/full

[205] T. Rodrigues, P. Schneider and G. Schneider, "Accessing new chemical entities through microfluidic systems," *Angew. Chem. Int. Ed. Engl.,* vol. 53, no. 23, pp. 5750-8, 2014. http://onlinelibrary.wiley.com/doi/10.1002/anie.201400988/full

[204] M. Werner, C. Kuratli, R. Martin, R. Hochstrasser, D. Wechsler, T. Enderle, A. Alanine and H. Vogel, "Seamless integration of dose-response screening and flow chemistry: efficient generation of structure-activity relationship data of β-secretase (BACE1) inhibitors," *Angew. Chem. Int. Ed. Engl.,* vol. 53, no. 6, pp. 1704-8, 2014. http://onlinelibrary.wiley.com/doi/10.1002/anie.201309301/full

[203] T. Petersen, M. Becker and P. Knochel, "Magnesierung funktionalisierter Heterocyclen und Acrylate unter Verwendung von TMPMgCl . LiCl in kontinuierlichem Fluss," *Angewandte Chemie,* vol. 126, no. 30, pp. 8067-8071, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201404221/full

[202] T. Rodrigues, P. Schneider and G. Schneider, "Neue chemische Strukturen durch Mikrofluidiksysteme," *Angewandte Chemie,* vol. 126, no. 23, p. 5858, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201400988/full

[201] A. Manvar and A. Shah, "Continuous Flow and Microwave-Assisted Vorbrüggen Glycosylations: Historical Perspective to High-Throughput Strategies," *Asian Journal of Organic Chemistry,* vol. 3, no. 11, pp. 1134-1149, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ajoc.201402119/full

[200] R. Ingham, C. Battilocchio, J. Hawkins and S. Ley, "Integration of enabling methods for the automated flow preparation of piperazine-2-carboxamide.," *Beilstein J Org Chem,* pp. 64152, 2014. https://www.beilstein-journals.org/bjoc/content/supplementary/1860-5397-10-56-S1.pdf

[199] W. Reynolds, P. Plucinski and C. Frost, "Robust and reusable supported palladium catalysts for cross-coupling reactions in flow," *Catalysis Science & Technology,* p. 948, 2014. https://pubs.rsc.org/en/content/articlelanding/2014/cy/c3cy00836c

[198] D. Ushakov, K. Gilmore and P. Seeberger, "Consecutive oxygen-based oxidations convert amines to α-cyanoepoxides.," *Chem. Commun. (Camb.),* vol. 50, no. 84, pp. 12649-51, 2014. https://pdfs.semanticscholar.org/9bff/0ed3d0cde70d0aa6097fc2b7946a80e90207.pdf

[197] K. Gilmore, D. Kopetzki, J. Lee, Z. Horváth, D. McQuade, A. Seidel-Morgenstern and P. Seeberger, "Continuous synthesis of artemisinin-derived medicines.," *Chem. Commun. (Camb.),* vol. 50, no. 84, pp. 12652-5, 2014. https://pdfs.semanticscholar.org/15d2/b9e60a126d9d5b9a7943ae4f1874d7bfd4d9.pdf

[196] R. Myers, D. Fitzpatrick, R. Turner and S. Ley, "Flow chemistry meets advanced functional materials," *Chemistry,* vol. 20, no. 39, pp. 12348-66, 2014. http://onlinelibrary.wiley.com/doi/10.1002/chem.201402801/full

[195] J. Jacq and P. Pasau, "Multistep flow synthesis of 5-amino-2-aryl-2H-[1,2,3]-triazole-4carbonitriles.," *Chemistry,* vol. 20, no. 38, pp. 12223-33, 2014. http://onlinelibrary.wiley.com/doi/10.1002/chem.201402074/full

[194] U. Gross, P. Koos, M. O'Brien, A. Polyzos and S. Ley, "A General Continuous Flow Method

for Palladium Catalysed Carbonylation Reactions Using Single and Multiple Tube-in-Tube GasLiquid Microreactors," *European Journal of Organic Chemistry,* p. 6418, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201402804/full

[193] C. Battilocchio, B. Bhawal, B. Bhawal, B. Deadman, J. Hawkins and S. Ley, "Flow-Based, Cerium Oxide Enhanced, Low-Level Palladium Sonogashira and Heck Coupling Reactions by Perovskite Catalysts," *Israel Journal of Chemistry,* vol. 54, no. 4, p. 371, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ijch.201300049/full

[192] A. Butler, M. Thompson, P. Maydom, J. Newby, K. Guo, H. Adams and B. Chen, "Regioselective synthesis of 3-aminoimidazo[1,2-a]-pyrimidines under continuous flow conditions," *J. Org. Chem.,* vol. 79, no. 21, pp. 10196-202, 2014. http://pubs.acs.org/doi/abs/10.1021/jo501861g

[191] M. Hamon, N. Dickinson, A. Devineau, D. Bolien, M. Tranchant, C. Taillier, I. Jabin, D. Harrowven, R. Whitby, A. Ganesan and V. Dalla, "Intra- and intermolecular alkylation of N,Oacetals and π-activated alcohols catalyzed by in situ generated acid," *J. Org. Chem.,* vol. 79, no. 5, pp. 1900-12, 2014. http://pubs.acs.org/doi/abs/10.1021/jo4015886

[190] N. Alonso, M. de, B. Egle, J. Vrijdag, W. De Borggraeve, A. Hoz, A. Díaz-Ortiz and J. Alcázar, "First Example of a Continuous-Flow Carbonylation Reaction Using Aryl Formates as CO Precursors," *Journal of Flow Chemistry,* vol. 4, no. 3, 2014. http://akademiai.com/doi/abs/10.1556/JFC-D-14-00005

[189] A. Pagnoux-Ozherelyeva, D. Bolien, S. Gaillard, F. Peudru, J. Lohier, R. Whitby and J. Renaud, "Microwave irradiation and flow chemistry for a straightforward synthesis of piano-stool iron complexes," *Journal of Organometallic Chemistry,* pp. 35-42, 2014. http://www.sciencedirect.com/science/article/pii/S0022328X14004586

[188] K. Jensen, B. Reizman and S. Newman, "Tools for chemical synthesis in microsystems," *Lab Chip,* vol. 14, no. 17, pp. 3206-12, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/lc/c4lc00330f

[187] C. Hornung, K. von Känel, I. Martinez-Botella, M. Espiritu, X. Nguyen, A. Postma, S. Saubern, J. Chiefari and S. Thang, "Continuous flow aminolysis of RAFT polymers using multistep processing and inline analysis," *Macromolecules,* vol. 47, no. 23, pp. 8203-8213, 2014.
http://pubs.acs.org/doi/abs/10.1021/ma501628f

[186] L. Mleczko and D. Zhao, "Technology for Continuous Production of Fine Chemicals: A Case Study for Low Temperature Lithiation Reactions," *Managing Hazardous Reactions and Compounds in Process Chemistry,* pp. 403-440, 2014.
http://pubs.acs.org/doi/abs/10.1021/bk-2014-1181.ch015

[185] B. Li and S. Guinness, "Development of Flow Processes for the Syntheses of N-Aryl Pyrazoles and Diethyl Cyclopropane-cis-1, 2-dicarboxylate," *Managing Hazardous Reactions and Compounds in Process Chemistry,* vol. 14, p. 383, 2014.
http://pubs.acs.org/doi/abs/10.1021/bk-2014-1181.ch014

[184] J. NÉMETHNÉ-SÓVÁGÓ and M. BENKE, "Microreactors: a new concept for chemical synthesis and technological feasibility," *Materials Science and Engineering,* vol. 39, no. 2, pp. 89-101, 2014.
http://www.matarka.hu/koz/ISSN_2063-6792/vol_39-2_2014_eng/ISSN_2063-6792_vol_39_ 2_2014_eng_089-101.pdf

[183] A. Manvar and A. Shah, "Subtle Mitsunobu couplings under super-heating: the role of highthroughput continuous flow and microwave strategies," *Org. Biomol. Chem.,* vol. 12, no. 41, pp. 8112-24, 2014.
http://pubs.rsc.org/-/content/articlehtml/2014/ob/c4ob01432d

[182] S. Mostarda, P. Filipponi, R. Sardella, F. Venturoni, B. Natalini, R. Pellicciari and A. Gioiello, "Glucuronidation of bile acids under flow conditions: design of experiments and KoenigsKnorr reaction optimization," *Org. Biomol. Chem.,* vol. 12, no. 47, pp. 9592-600, 2014.
http://pubs.rsc.org/-/content/articlehtml/2014/ob/c4ob01911c

[181] A. Xolin, A. Stévenin, M. Pucheault, S. Norsikian, F. Boyer and J. Beau, "Glycosylation with Nacetyl glycosamine donors using catalytic iron (III) triflate: from microwave

batch chemistry to a scalable continuous-flow process," *Org. Chem. Front.,* 2014. http://dx.doi.org/10.1039/c4qo00183d

[180] A. Caron, A. Hernandez-Perez and S. Collins, "Synthesis of a Carprofen Analogue Using a Continuous Flow UV-Reactor," *Organic Process Research & Development,* vol. 18, no. 11, pp. 1571-1574, 2014. https://pubs.acs.org/doi/10.1021/op5002148

[179] T. Hamlin, G. Lazarus, C. Kelly and N. Leadbeater, "A Continuous-Flow Approach to 3, 3, 3Trifluoromethylpropenes: Bringing Together Grignard Addition, Peterson Elimination, Inline Extraction, and Solvent Switching," *Organic Process Research & Development,* vol. 18, no. 10, pp. 1253-1258, 2014. http://pubs.acs.org/doi/abs/10.1021/op500190j

[178] P. Filipponi, C. Ostacolo, E. Novellino, R. Pellicciari and A. Gioiello, "Continuous Flow Synthesis of Thieno [2, 3-c] isoquinolin-5 (4 H)-one Scaffold: A Valuable Source of PARP-1 Inhibitors," *Organic Process Research & Development,* vol. 18, pp. 1345-1353, 2014. http://pubs.acs.org/doi/abs/10.1021/op500074h

[177] K. Gilmore, S. Vukelić, D. McQuade, B. Koksch and P. Seeberger, "Continuous Reductions and Reductive Aminations Using Solid NaBH4," *Organic Process Research & Development,* vol. 18, no. 12, pp. 1771-1776, 2014. http://pubs.acs.org/doi/abs/10.1021/op500310s

[176] F. Odille, A. Stenemyr and F. Pontén, "Development of a Grignard-Type Reaction for Manufacturing in a Continuous-Flow Reactor," *Organic Process Research & Development,* vol. 18, no. 11, p. 1545, 2014. http://pubs.acs.org/doi/abs/10.1021/op500290x

[175] B. Tomaszewski, A. Schmid and K. Buehler, "Biocatalytic production of catechols using a high pressure tube-in-tube segmented flow microreactor," *Organic Process Research & Development,* vol. 18, no. 11, p. 1516–1526, 2014. http://pubs.acs.org/doi/abs/10.1021/op5002148

[174] K. Tan), X. Hao, T. Hughes, O. Hutt, A. Polyzos, K. Turner and G. Moad, "Porous,

functional, poly (styrene-co-divinylbenzene) monoliths by RAFT polymerization," *Polym. Chem.,* vol. 5, p. 722, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/py/c3py01015e

[173] C. Hornung, A. Postma, S. Saubern and J. Chiefari, "Sequential flow process for the controlled polymerisation and thermolysis of RAFT-synthesised polymers," *Polymer,* vol. 55, no. 6, pp. 1427-1435, 2014. http://www.sciencedirect.com/science/article/pii/S003238611400038X

[172] D. Berckmans, "Precision livestock farming technologies for welfare management in intensive livestock systems," *Rev. Sci. Tech.,* vol. 33, no. 1, pp. 189-96, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/gc/c3gc41797b

[171] M. Rubio-Martinez, M. Batten, A. Polyzos, K. Carey, J. Mardel, K. Lim and M. Hill, "Versatile, high quality and scalable continuous flow production of metal-organic frameworks," *Sci Rep,* p. 5443, 2014. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069692/

[170] P. Cyr and A. Charette, "Continuous-Flow Hydroxylation of Aryl Iodides Promoted by Copper Tubing," *Synlett,* vol. 25, no. 10, pp. 1409-1412, 2014. https://www.researchgate.net/publication/263652285_ChemInform_Abstract_Continuous-Flow_Hydroxylation_of_Aryl_Iodides_Promoted_by_Copper_Tubing

[169] P. Zambelli, "Development of new biocatalytic processes for fructooligosaccharides (FOS) preparation," *Thesis,* 2014. https://air.unimi.it/handle/2434/244879

[168] B. Egle, "Design and Synthesis of Alpha-helix Minimalist Peptidomimetics," *Thesis,* 2014. https://lirias.kuleuven.be/handle/123456789/469093

[167] B. Ondrusek, "Selective additions to unsaturated carbon-carbon bonds by the use of Nheterocyclic carbene-copper (I) catalysts," *Thesis,* 2014. http://search.proquest.com/openview/e62cf30d119f76864cbb63f5b020b47b/1?pq-origsite= gscholar;cbl=18750;diss=y

[166] A. Sobolewska, "New Generic Synthetic Protocols for Pharmaceutical Intermediates Based on Continuous Flow Multifunctional Platforms," *Thesis,* 2014. http://opus.bath.ac.uk/50953/1/UnivBath_PhD_2014_A_Sobolewska.pdf

[165] D. Plaza, "Continuous flow processes for catalytic upgrading of biofeedstocks," *Thesis,* 2014. http://wrap.warwick.ac.uk/66188

[164] A. Voros, "Szerves kémiai reakciók megvalósíthatóságának vizsgálata folyamatos reaktorokban," *Thesis,* 2014 https://repozitorium.omikk.bme.hu/bitstream/handle/10890/1369/ertekezes.pdf?sequence=1

[163] T. Jong, "Continuous flow synthesis of chemical building blocks for biological application," *Thesis,* 2014. https://www.era.lib.ed.ac.uk/handle/1842/1793

[162] R. Ingham, "Control tools for flow chemistry processing and their application to the synthesis of bromodomain inhibitors," *Thesis,* 2014. https://www.repository.cam.ac.uk/handle/1810/246534

2013

Year total: 44

[161] A. Longstreet and D. McQuade, "Organic reaction systems: using microcapsules and microreactors to perform chemical synthesis," *Acc. Chem. Res.,* vol. 46, no. 2, pp. 327-38, 2013. http://pubs.acs.org/doi/abs/10.1021/ar300144x

[160] W. Czechtizky, J. Dedio, B. Desai, K. Dixon, E. Farrant, Q. Feng, T. Morgan, D. Parry, M. Ramjee, C. Selway, T. Schmidt, G. Tarver and A. Wright, "Integrated Synthesis and Testing of Substituted Xanthine Based DPP4 Inhibitors: Application to Drug Discovery," *ACS Med Chem Lett,* vol. 4, no. 8, pp. 768-72, 2013. http://pubs.acs.org/doi/abs/10.1021/ml400171b

[159] A. Chen, X. Li, Y. Zhou, L. Huang, Z. Fang, H. Gan and K. Guo, "Continuous Flow Synthesis of Coumarin," *Advanced Materials Research,* vol. 7, pp. 936-941, 2013. https://www.scientific.net/AMR.781-784.936

[158] M. York and A. Edenharter, "A two-stage continuous-flow synthesis of spirooxazine photochromic dyes," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 172-177, 2013. http://www.publish.csiro.au/CH/CH12435

[157] J. Eschelbach, D. Wernick, M. Bryan and E. Doherty, "Characterization of dispersion effects on reaction optimization and scale-up for a packed bed flow hydrogenation reactor," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 165-171, 2013. http://www.publish.csiro.au/CH/CH12450

[156] Y. Nakano, G. Savage, S. Saubern, P. Scammells and A. Polyzos, "A Multi-Step Continuous Flow Process for the N-Demethylation of Alkaloids," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 178-182, 2013. http://www.publish.csiro.au/ch/CH12463

[155] C. Hornung, X. Nguyen, S. Kyi, J. Chiefari and S. Saubern, "Synthesis of RAFT block copolymers in a multi-stage continuous flow process inside a tubular reactor," *Australian Journal of Chemistry,* vol. 66, pp. 192-198, 2013. http://www.publish.csiro.au/ch/CH12479

[154] F. Bou-Hamdan, K. Krüger, K. Tauer, D. McQuade and P. Seeberger, "Visible Light-Initiated Preparation of Functionalized Polystyrene Monoliths for Flow Chemistry," *Australian Journal of Chemistry,* vol. 66, no. 2, p. 213, 2013. http://www.publish.csiro.au/CH/CH12405

[153] H. Seyler, S. Haid, T. Kwon, D. Jones, P. Bäuerle, A. Holmes and W. Wong, "Continuous flow synthesis of organic electronic materials–Case studies in methodology translation and scaleup," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 151-156, 2013. http://www.publish.csiro.au/ch/CH12406

[152] N. Ambreen, R. Kumar and T. Wirth, "Hypervalent iodine/TEMPO-mediated oxidation in flow systems: a fast and efficient protocol for alcohol oxidation," *Beilstein J Org Chem,*

vol. 9, pp. 1437-42, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3740682/

[151] A. Longstreet, S. Opalka, B. Campbell, B. Gupton and D. McQuade, "Investigating the continuous synthesis of a nicotinonitrile precursor to nevirapine," *Beilstein J Org Chem,* vol. 9, pp. 2570-8, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3869350/

[150] T. Hamlin and N. Leadbeater, "Raman spectroscopy as a tool for monitoring mesoscale continuous-flow organic synthesis: Equipment interface and assessment in four medicinallyrelevant reactions," *Beilstein J Org Chem,* vol. 9, pp. 1843-52, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778413/

[149] M. Baumann and I. Baxendale, "The rapid generation of isothiocyanates in flow," *Beilstein J Org Chem,* vol. 9, pp. 1613-9, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778409/

[148] K. Roper, M. Berry and S. Ley, "The application of a monolithic triphenylphosphine reagent for conducting Ramirez gem-dibromoolefination reactions in flow," *Beilstein J Org Chem,* vol. 9, pp. 1781-90, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778394/

[147] H. Seyler, J. Subbiah, D. Jones, A. Holmes and W. Wong, "Controlled synthesis of poly(3hexylthiophene) in continuous flow," *Beilstein J Org Chem,* vol. 9, pp. 1492-500, 2013.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3740766/

[146] D. Browne, B. Harji and S. Ley, "Continuous Cold without Cryogenic Consumables: Development of a Convenient Laboratory Tool for Low-Temperature Flow Processes," *Chemical Engineering & Technology,* 2013.
http://onlinelibrary.wiley.com/doi/10.1002/ceat.201200581/full

[145] D. McQuade, A. O'Brien, M. Dörr, R. Rajaratnam, U. Eisold, B. Monnanda, T. Nobuta, H. Löhmannsröben, E. Meggers and P. Seeberger, "Continuous synthesis of pyridocarbazoles and initial photophysical and bioprobe characterization," *Chemical*

Science, pp. 4067-4070, 2013.
http://pubs.rsc.org/-/content/articlehtml/2013/sc/c3sc51846a

[144] F. Wojcik, A. O'Brien, S. Götze, P. Seeberger and L. Hartmann, "Synthesis of carbohydratefunctionalised sequence-defined oligo(amidoamine)s by photochemical thiol-ene coupling in a continuous flow reactor," *Chemistry,* pp. 3090-8, 2013.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201203927/full

[143] V. Hessel, D. Kralisch, N. Kockmann, T. Noël and Q. Wang, "Novel process windows for enabling, accelerating, and uplifting flow chemistry," *ChemSusChem,* vol. 6, no. 5, pp. 74689, 2013.
http://onlinelibrary.wiley.com/doi/10.1002/cssc.201200766/full

[142] P. Liu, Y. Zhang and S. Martin, "Complex refractive indices of thin films of secondary organic materials by spectroscopic ellipsometry from 220 to 1200 nm," *Environ. Sci. Technol.,* vol. 47, no. 23, pp. 13594-601, 2013.
http://pubs.rsc.org/-/content/articlehtml/2013/ra/c3ra00125c

[141] D. Rudzinski and N. Leadbeater, "Microwave heating and conventionally-heated continuousflow processing as tools for performing cleaner palladium-catalyzed decarboxylative couplings using oxygen as the oxidant – a proof of principle study," *Green Processing and Synthesis,* 2013.
https://www.degruyter.com/view/j/gps.2013.2.issue-4/gps-2013-0043/gps-2013-0043.xml?f orma=;print

[140] B. Desai, K. Dixon, E. Farrant, Q. Feng, K. Gibson, W. van Hoorn, J. Mills, T. Morgan, D. Parry, M. Ramjee, C. Selway, G. Tarver, G. Whitlock and A. Wright, "Rapid discovery of a novel series of Abl kinase inhibitors by application of an integrated microfluidic synthesis and screening platform," *J. Med. Chem.,* vol. 56, no. 7, pp. 3033-47, 2013.
http://pubs.acs.org/doi/abs/10.1021/jm400099d

[139] Z. Assaf, A. Larsen, R. Venskutonytė, L. Han, B. Abrahamsen, B. Nielsen, M. Gajhede, J. Kastrup, A. Jensen, D. Pickering, K. Frydenvang, T. Gefflaut and L. Bunch, "Chemoenzymatic synthesis of new 2,4-syn-functionalized (S)-glutamate analogues and structure-activity relationship studies at ionotropic glutamate receptors and

excitatory amino acid transporters," *J. Med. Chem.,* vol. 56, no. 4, pp. 1614-28, 2013. https://air.unimi.it/handle/2434/232268

[138] D. McQuade and P. Seeberger, "Applying flow chemistry: methods, materials, and multistep synthesis," *J. Org. Chem.,* vol. 78, no. 13, pp. 6384-9, 2013. https://pubs.acs.org/doi/full/10.1021/jo400583m?src=recsys

[137] B. Bakonyi, M. Furegati, C. Kramer, L. La Vecchia and F. Ossola, "Synthesis of all four stereoisomers of 3-(tert-butoxycarbonyl)-3-azabicyclo[3.1.0]hexane-2-carboxylic acid," *J. Org. Chem.,* vol. 78, no. 18, pp. 9328-39, 2013. http://pubs.acs.org/doi/abs/10.1021/jo4013282

[136] B. Egle, J. Muñoz, N. Alonso, W. De Borggraeve, A. Hoz, A. Díaz-Ortiz and J. Alcázar, "First example of alkyl–aryl Negishi cross-coupling in flow: mild, efficient and clean introduction of functionalized alkyl groups," *Journal of Flow Chemistry,* vol. 4, no. 1, 2013. http://akademiai.com/doi/abs/10.1556/JFC-D-13-00009

[135] M. Hopkin, I. Baxendale and S. Ley, "An expeditious synthesis of imatinib and analogues utilising flow chemistry methods," *Org. Biomol. Chem.,* vol. 11, no. 11, pp. 1822-39, 2013. http://pubs.rsc.org/-/content/articlehtml/2013/ob/c2ob27002a

[134] S. Opalka, J. Park, A. Longstreet and D. McQuade, "Continuous synthesis and use of Nheterocyclic carbene copper(I) complexes from insoluble Cu2O," *Org. Lett.,* vol. 15, no. 5, pp. 996-9, 2013. http://pubs.acs.org/doi/abs/10.1021/ol303442m

[133] J. Lehmann, T. Alzieu, R. Martin and R. Britton, "The Kondrat'eva reaction in flow: direct access to annulated pyridines," *Org. Lett.,* vol. 15, no. 14, pp. 3550-3, 2013. http://pubs.acs.org/doi/abs/10.1021/ol4013525

[132] R. Harris, B. Andrews, S. Clark, J. Cooke, J. Gray and S. Ng, "The Fit For Purpose Development of S1P1 Receptor Agonist GSK2263167 Using a Robinson Annulation and Saegusa Oxidation to Access an Advanced Phenol Intermediate," *Org. Process Res. Dev,* vol. 17, no. 10, p. 1239, 2013.

http://pubs.acs.org/doi/abs/10.1021/op400162p

[131] L. Protasova, M. Bulut, D. Ormerod, A. Buekenhoudt, J. Berton and C. Stevens, "Latest highlights in liquid-phase reactions for organic synthesis in microreactors," *Organic Process Research & Development,* vol. 17, no. 9, pp. 760-791, 2013. http://pubs.acs.org/doi/abs/10.1021/op4000169

[130] P. Murray, D. Browne, J. Pastre, C. Butters, D. Guthrie and S. Ley, "Continuous flowprocessing of organometallic reagents using an advanced peristaltic pumping system and the telescoped flow synthesis of (E/Z)-Tamoxifen," *Organic Process Research & Development,* vol. 17, no. 9, p. 1192, 2013. http://pubs.acs.org/doi/abs/10.1021/op4001548

[129] C. Battilocchio, G. Iannucci, S. Wang, E. Godineau, A. Krieger, A. De Mesmaeker and S. Ley, "Flow synthesis of cyclobutanones via [2+ 2] cycloaddition of keteneiminium salts and ethylene gas," *React. Chem. Eng.,* p. 295, 2013. http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00020k

[128] P. Watts and C. Wiles, "Application of Microreactor Methodology for Organic Synthesis," *Stereoselective Synthesis of Drugs and Natural Products,* 2013. http://onlinelibrary.wiley.com/doi/10.1002/9781118596784.ssd006/full

[127] B. Ondrusek, S. Opalka, O. Hietsoi, M. Shatruk and D. McQuade, "Structure and Reactivity of a Copper (I)-Fused N-Heterocyclic Carbene Complex: Reactivity toward Styrenic and Strained Alkenes," *Synlett,* vol. 24, no. 10, p. 1211, 2013. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0033-1338837

[126] K. Nakayama, D. Browne, I. Baxendale and S. Ley, "Studies of a diastereoselective electrophilic fluorination reaction employing a cryo-flow reactor," *Synlett,* vol. 24, no. 10, pp. 1298-1302, 2013. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0033-1338455

[125] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Continuous-flow generation of diazoesters and their direct use in S–H and P–H insertion reactions: synthesis of α-sulfanyl, α-sulfonyl, and α-phosphono carboxylates," *Tetrahedron,* vol. 69, no. 10, p. 2276,

2013.
http://www.sciencedirect.com/science/article/pii/S0040402013000616

[124] M. Pedersen, "Design of Continuous Reactor Systems for API Production," *Thesis.* http://orbit.dtu.dk/services/downloadRegister/105170231/Michael_J_nch_Pedersen_978_8 7_93054_53_0_fil_fra_trykkeri.pdf

[123] A. Cannillo, "Association de la condensation de Petasis à des réactions de cyclisation pour la synthèse de molécules d'intérêt biologique," *Thesis,* 2013. http://www.theses.fr/2013PA112263

[122] M. Viviano, "Design, synthesis and biological evaluation of new non-nucleosidic inhibitors od DNA methyltransferases," *Thesis,* 2013. http://elea.unisa.it/handle/10556/1155

[121] D. Rudzinski, "Preparation of Organofluorine Compounds: Exploring Mono-, Di-, and Trifluorination," *Thesis,* 2013. http://digitalcommons.uconn.edu/gs_theses/380/

[120] J. Newby, "Synthesis and reactions of isocyanides using a flow reactor," *Thesis,* 2013 http://etheses.whiterose.ac.uk/id/eprint/4127

[119] W. Reynolds, "Sequential Processes Involving Catalytic CH Functionalisation," *Thesis,* 2013. http://opus.bath.ac.uk/44081/

[118] K. Watts, "Design and Fabrication of an Electrochemical Microreactor and its Use in Electroorganic Synthesis," *Thesis,* 2013. http://orca.cf.ac.uk/58306/1/Watts%20K%20Final%20Thesis%202013.pdf

2012

Year total: 38

[117] S. Newton, S. Ley, S. Ley and D. Grainger, "Asymmetric Homogeneous Hydrogenation in Flow using a Tube-in-Tube Reactor," *Advanced Synthesis & Catalysis,* vol. 354, p. 1805,

2012.
http://onlinelibrary.wiley.com/doi/10.1002/adsc.201200073/full

[116] A. Diaz-Ortiz, "Cross-Coupling in Flow using Supported Catalysts: Mild, Clean, Efficient and Sustainable Suzuki–Miyaura Coupling in a Single Pass," *Advanced Synthesis & Catalysis,* vol. 354, p. 3456, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/adsc.201200678/full

[115] J. Wegner, S. Ceylan and A. Kirschning, "Flow chemistry–a key enabling technology for (multistep) organic synthesis," *Advanced Synthesis & Catalysis,* vol. 354, pp. 17-57, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/adsc.201100584/full

[114] F. Lévesque and P. Seeberger, "Continuous-flow synthesis of the anti-malaria drug artemisinin," *Angew. Chem. Int. Ed. Engl.,* vol. 51, no. 7, pp. 1706-9, 2012.
https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201107446

[113] A. O'Brien, Z. Horváth, F. Lévesque, J. Lee, A. Seidel-Morgenstern and P. Seeberger, "Continuous synthesis and purification by direct coupling of a flow reactor with simulated moving-bed chromatography," *Angew. Chem. Int. Ed. Engl.,* vol. 51, pp. 7028-30, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/anie.201202795/full

[112] F. Levesque and P. Seeberger, "Kontinuierliche Synthese des Malariawirkstoffs Artemisinin," *Angewandte Chemie,* vol. 124, no. 7, p. 1738, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/anie.201107446/full

[111] A. O'Brien, Z. Horváth, F. Lévesque, J. Lee, A. Seidel-Morgenstern and P. Seeberger, "Kontinuierliche Synthese und Aufreinigung durch direkte Kopplung eines Durchflussreaktors mit “Simulated-Moving-Bed”- Chromatographie," *Angewandte Chemie,* vol. 124, no. 28, pp. 7134-7137, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/ange.201202795/full

[110] R. Pasceri, H. Bartrum, C. Hayes and C. Moody, "Nucleophilic fluorination of β-ketoester derivatives with HBF4," *Chem. Commun. (Camb.),* pp. 12077-9, 2012.
https://pdfs.semanticscholar.org/7a2f/a567c880671d4da10b2e040a6ced8adbb5c8.pdf

[109] L. Despènes, S. Elgue, C. Gourdon and M. Cabassud, "Impact of the material on the thermal behaviour of heat exchangers-reactors," *Chemical Engineering and Processing: Process Intensification,* pp. 102-111, 2012. http://www.sciencedirect.com/science/article/pii/S0255270111002418

[108] H. Seyler, D. Jones, A. Holmes and W. Wong, "Continuous flow synthesis of conjugated polymers," *Chemical Communications,* vol. 48, no. 10, pp. 1598-1600, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/cc/c1cc14315h

[107] T. Petersen, A. Polyzos, M. O'Brien, T. Ulven, I. Baxendale and S. Ley, "The oxygen-mediated synthesis of 1,3-butadiynes in continuous flow: using Teflon AF-2400 to effect gas/liquid contact," *ChemSusChem,* pp. 274-7, 2012. http://onlinelibrary.wiley.com/doi/10.1002/cssc.201100339/full

[106] R. Martin, F. Morawitz, C. Kuratli, A. Alker and A. Alanine, "Synthesis of Annulated Pyridines by Intramolecular Inverse-Electron-Demand Hetero-Diels–Alder Reaction under Superheated Continuous Flow Conditions," *Eur. J. Org. Chem.,* pp. 47-52, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101538/full

[105] J. Muñoz, J. Alcázar, A. Hoz and A. Díaz-Ortiz, "Application of Flow Chemistry to the Selective Reduction of Esters to Aldehydes," *European Journal of Organic Chemistry,* pp. 260-263, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101458/full

[104] N. Prosa, R. Turgis, R. Piccardi and M. Scherrmann, "Soluble Polymer-Supported Flow Synthesis: A Green Process for the Preparation of Heterocycles," *European Journal of Organic Chemistry,* p. 2188, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101726/full

[103] J. Muñoz, J. Alcázar, A. Hoz, Á. Díaz-Ortiz and S. de Diego, "Preparation of amides mediated by isopropylmagnesium chloride under continuous flow conditions," *Green Chemistry,* pp. 1335-1341, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/gc/c2gc35037h

[102] M. Mercadante and N. Leadbeater, "Development of methodologies for reactions involving gases as reagents: microwave heating and conventionally-heated continuous-flow processing as examples," *Green Processing and Synthesis,* 2012. https://www.degruyter.com/view/j/gps.2012.1.issue-6/gps-2011-0016/gps-2011-0016.xml?forma=

[101] P. Baraldi and V. Hessel, "Micro reactor and flow chemistry for industrial applications in drug discovery and development," *Green Processing and Synthesis,* 2012. https://www.degruyter.com/view/j/gps.2012.1.issue-2/gps-2012-0008/gps-2012-0008.xml

[100] M. Moreno, M. Gomez, C. Cebrian, P. Prieto, A. Hoz and A. Moreno, "Sustainable and efficient methodology for CLA synthesis and identification," *Green Chimestry,* vol. 24, no. 9, pp. 2584-2594, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/gc/c2gc35792e

[99] L. Malet-Sanz and F. Susanne, "Continuous flow synthesis. A pharma perspective," *J. Med. Chem.,* vol. 55, no. 9, pp. 4062-98, 2012. http://pubs.acs.org/doi/abs/10.1021/jm2006029

[98] P. Watts and C. Wiles, "Micro reactors, flow reactors and continuous flow synthesis," *Journal of Chemical Research,* vol. 36, no. 4, pp. 181-193, 2012. http://www.ingentaconnect.com/content/stl/jcr/2012/00000036/00000004/art00001

[97] C. Lee, E. Pedrick and N. Leadbeater, "Preparation of Arene Chromium Tricarbonyl Complexes Using Continuous-Flow Processing: (η6-C6H5CH3) Cr (CO) 3 as an Example," *Journal of Flow Chemistry,* vol. 2, no. 4, 2012. http://akademiai.com/doi/abs/10.1556/JFC-D-12-00018

[96] D. Zani and M. Colombo, "Phase-transfer catalysis under continuous flow conditions: an alternative approach to the biphasic liquid/liquid O-alkylation of phenols," *Journal of Flow Chemistry,* vol. 2, no. 1, 2012. http://akademiai.com/doi/abs/10.1556/jfchem.2012.00020

[95] T. Glasnov, "Highlights from the Flow Chemistry Literature 2012 (Part 2)," *Journal of Flow Chemistry,* vol. 2, no. 3, 2012.

http://akademiai.com/doi/abs/10.1556/JFC-D-12-00017

[94] L. Tamborini, DiegoRomano, A. Pinto, AriannaBertolani, FrancescoMolinari and PaolaConti, "An efficient method for the lipase-catalysed resolution and in-line purification of racemic flurbiprofen in a continuous-flow reactor," *Journal of Molecular Catalysis B: Enzymatic,* vol. 84, pp. 78-82, 2012. http://www.sciencedirect.com/science/article/pii/S1381117712000046

[93] C. Hornung, A. Postma, A. Postma and J. Chiefair, "A continuous flow process for the radical induced end group removal of RAFT polymers," *Macromolecular Reaction Engineering,* vol. 6, no. 6, p. 346, 2012. http://onlinelibrary.wiley.com/doi/10.1002/mren.201200007/full

[92] C. Hornung, X. Nguyen, G. Dumsday and S. Sauber, "Integrated continuous processing and flow characterization of RAFT polymerization in tubular flow reactors," *Macromolecular Reaction Engineering,* vol. 6, no. 11, pp. 458-466, 2012. http://onlinelibrary.wiley.com/doi/10.1002/mren.201200029/full

[91] F. Venturoni, A. Gioiello, R. Sardella, B. Natalini and R. Pellicciari, "Continuous flow synthesis and scale-up of glycine- and taurine-conjugated bile salts," *Org. Biomol. Chem.,* vol. 10, no. 20, pp. 4109-15, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/ob/c2ob25528f

[90] o. Hawkins, P. Dubé, M. Maloney, L. Wei, M. Ewing, S. Chesnut, J. Denette, B. Lillie and R. Vaidyanathan, "Synthesis of an H3 Antagonist via Sequential One-Pot Additions of a Magnesium Ate Complex and an Amine to a 1,4-Ketoester followed by Carbonyl-Directed Fluoride Addition," *Org. Process Res. Dev.,* vol. 16, no. 8, p. 1393, 2012. http://pubs.acs.org/doi/abs/10.1021/op300093j

[89] N. Anderson, "Using continuous processes to increase production," *Organic Process Research & Development,* p. 852–869, 2012. http://pubs.acs.org/doi/abs/10.1021/op200347k

[88] M. Mercadante, C. Kelly, C. Lee and N. Leadbeater, "Continuous flow hydrogenation using an on-demand gas delivery reactor," *Organic Process Research & Development,*

vol. 16, no. 5, pp. 1064-1068, 2012.
http://pubs.acs.org/doi/abs/10.1021/op300019w

[87] T. Gustafsson, H. Sörensen and F. Pontén, "Development of a continuous flow scale-up approach of reflux inhibitor AZD6906," *Organic Process Research & Development,* vol. 16, no. 5, pp. 925-929, 2012.
http://pubs.acs.org/doi/abs/10.1021/op200340c

[86] D. Browne, S. Wright, B. Deadman, S. Dunnage, I. Baxendale, R. Turner and S. Ley, "Continuous flow reaction monitoring using an on-line miniature mass spectrometer," *Rapid Commun. Mass Spectrom.,* vol. 26, no. 17, pp. 1999-2010, 2012.
http://onlinelibrary.wiley.com/doi/10.1002/rcm.6312/full

[84] C. Spiteri and J. Moses, "Continuous Flow Synthesis of Secondary Amides by Tandem Azidation–Amidation of Anilines," *Synlett,* vol. 23, no. 10, pp. 1546-1548, 2012.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0031-1291013

[84] C. Battilocchio, M. Baumann, I. Baxendale, M. Biava, M. Kitching, S. Ley, R. Martin, S. Ohnmacht and N. Tappin, "Scale-Up of flow-assisted synthesis of C2-symmetric chiral PyBox ligands," *Synthesis,* p. 635, 2012. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0031-1289676

[83] V. Ranade, "MAGIC (Modular, Agile, Intensified and Continuous) Processes and Plants for Specialty Chemicals," *Thesis,* 2012.
http://catsusen.ncl.res.in/DownloadableDocuments/article_1.pdf

[82] S. Cabrera Navarrete and D. Troya Velasco, "Diseño de las líneas de vapor para el calentamiento de los tanques de almacenamiento de combustible de la central térmica Miraflores," *Thesis,* 2012.
http://dspace.ups.edu.ec:8080/handle/123456789/3681

[81] E. Rossi, "Micro/Meso-Structured Reactors for Chemical Synthesis: Applications in Materials Science and Medicinal Chemistry," *Thesis,* 2012.
http://paduaresearch.cab.unipd.it/4990/

[80] V. Fusillo, "New insights into scale up processing and CS bond formation reactions," *Thesis,* 2012.
http://orca.cf.ac.uk/id/eprint/28635

2011

Year total: 40

[79] M. Baumann, I. Baxendale, C. Kuratli, S. Ley, R. Martin and J. Schneider, "Synthesis of a druglike focused library of trisubstituted pyrrolidines using integrated flow chemistry and batch methods," *ACS Comb Sci,* vol. 13, no. 4, pp. 405-13, 2011.
http://pubs.acs.org/doi/abs/10.1021/co2000357

[78] A. Sniady, M. Bedore and T. Jamison, "One-flow, multistep synthesis of nucleosides by Brønsted acid-catalyzed glycosylation," *Angew. Chem. Int. Ed. Engl.,* vol. 50, no. 9, pp. 21558, 2011.
http://onlinelibrary.wiley.com/doi/10.1002/ange.201006440/full

[77] A. Polyzos, M. O'Brien, T. Petersen, I. Baxendale and S. Ley, "The continuous-flow synthesis of carboxylic acids using CO2 in a tube-in-tube gas permeable membrane reactor," *Angew. Chem. Int. Ed. Engl.,* vol. 50, no. 5, pp. 1190-3, 2011.
http://onlinelibrary.wiley.com/doi/10.1002/anie.201006618/full

[76] M. Brasholz, S. Saubern and G. Savage, "Nitrile Oxide 1, 3-Dipolar Cycloaddition by Dehydration of Nitromethane Derivatives Under Continuous Flow Conditions," *Australian Journal of Chemistry,* vol. 64, p. 1397, 2011.
http://www.publish.csiro.au/CH/CH11079

[75] S. Opalka, A. Longstreet and D. McQuade, "Continuous proline catalysis via leaching of solid proline," *Beilstein J Org Chem,* no. 7, pp. 1671-9, 2011.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3252872/

[74] K. Roper, H. Lange, A. Polyzos, M. Berry, I. Baxendale and S. Ley, "The application of a monolithic triphenylphosphine reagent for conducting Appel reactions in flow microreactors," *Beilstein J Org Chem,* vol. 7, pp. 1648-55, 2011.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3252869/

[73] F. Bou-Hamdan, F. Lévesque, A. O'Brien and P. Seeberger, "Continuous flow photolysis of aryl azides: Preparation of 3H-azepinones," *Beilstein J Org Chem,* vol. 7, pp. 1124-1129, 2011.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3167900/

[72] P. Lange, L. Goossen, P. Podmore, T. Underwood and N. Sciammetta, "Decarboxylative biaryl synthesis in a continuous flow reactor," *Chem. Commun. (Camb.),* vol. 47, no. 12, pp. 362830, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/cc/c0cc05708h

[71] A. O'Brien, F. Lévesque and P. Seeberger, "Continuous flow thermolysis of azidoacrylates for the synthesis of heterocycles and pharmaceutical intermediates," *Chem. Commun. (Camb.),* vol. 47, no. 9, pp. 2688-90, 2011.
http://pubs.rsc.org/is/content/articlehtml/2011/cc/c0cc04481d

[70] C. Wiles and P. Watts, "Recent advances in micro reaction technology," *Chemical Communications,* pp. 6512-6535, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/cc/c1cc00089f

[69] H. Lange, C. Carter, M. Hopkin, A. Burke, J. Goode, I. Baxendale and S. Ley, "A breakthrough method for the accurate addition of reagents in multi-step segmented flow processing," *Chemical Science,* pp. 765-769, 2011.
http://pubs.rsc.org/-/content/articlehtml/2011/sc/c0sc00603c

[68] T. Noel and S. Buchwald, "Cross-coupling in flow," *Chemical Society Reviews,* vol. 40, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/cs/c1cs15075h

[67] M. Mohamed, T. Gonçalves, R. Whitby, H. Sneddon and D. Harrowven, "New insights into cyclobutenone rearrangements: a total synthesis of the natural ROS-generating anti-cancer agent cribrostatin 6," *Chemistry,* vol. 17, pp. 13698-705, 2011.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201102263/full

[66] T. Glasnov and C. Kappe, "The microwave-to-flow paradigm: translating high-temperature batch microwave chemistry to scalable continuous-flow processes," *Chemistry,* vol.17, pp. 11956-68, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201102065/full

[65] E. Riva, A. Rencurosi, S. Gagliardi, D. Passarella and M. Martinelli, "Synthesis of (+)dumetorine and congeners by using flow chemistry technologies," *Chemistry,* vol. 17, pp. 6221-6, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201100300/full

[64] C. Carter, H. Lange, D. Sakai, I. Baxendale and S. Ley, "Diastereoselective chain-elongation reactions using microreactors for applications in complex molecule assembly," *Chemistry,* vol. 17, pp. 3398-405, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201003148/full

[63] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Rapid access to α-alkoxy and α-amino acid derivatives through safe continuous-flow generation of diazoesters," *Chemistry,* vol. 17, pp. 9586-9, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201101590/full

[62] M. Brasholz, K. von Känel, C. Hornung, S. Sauberna and J. Tsanaktsidis, "Highly efficient dehydration of carbohydrates to 5-(chloromethyl)furfural (CMF), 5-(hydroxymethyl)furfural (HMF) and levulinic acid by biphasic continuous flow processing," *Green Chemistry,* p. 1114, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/gc/c1gc15107j

[61] M. Baumann, I. Baxendale and A. Kirschning, "Synthesis of highly substituted nitropyrrolidines, nitropyrrolizines and nitropyrroles via multicomponent-multistep sequences within a flow reactor," *HETEROCYCLES,* vol. 82, no. 2, pp. 1297 - 1316, 2011. http://community.dur.ac.uk/i.r.baxendale/papers/Heterocy2010.82.1297.pdf

[60] H. Seyler, W. Wong, D. Jones and A. Holmes, "Continuous flow synthesis of fullerene derivatives," *J. Org. Chem.,* vol. 76, no. 9, pp. 3551-6, 2011. http://pubs.acs.org/doi/abs/10.1021/jo2001879

[59] R. Luisi, B. Musio and L. Degennaro, "MICROREACTOR TECHNOLOGY AS TOOL FOR THE DEVELOPMENT OF A SUSTAINABLE SYNTHETIC CHEMISTRY," *LA Chimica & Industria,* pp. 114-123, 2011. http://www.soc.chim.it/sites/default/files/chimind/pdf/2011_3_114_ca.pdf

[58] Y. Wada, T. Douke, T. Yamauchi and +Yuji, "Microwave effects in metal-catalyzed reactions," *Mini-Reviews in Organic Chemistry,* vol. 8, no. 3, p. 334, 2011. http://www.ingentaconnect.com/content/ben/mroc/2011/00000008/00000003/art00015

[57] M. Baumann, I. Baxendale and S. Ley, "The flow synthesis of heterocycles for natural product and medicinal chemistry applications," *Mol. Divers.,* vol. 15, no. 3, pp. 613-30, 2011. http://www.springerlink.com/index/NJ056V4T1263U361.pdf

[56] M. Mercadante and N. Leadbeater, "Continuous-flow, palladium-catalysed alkoxycarbonylation reactions using a prototype reactor in which it is possible to load gas and heat simultaneously," *Org. Biomol. Chem.,* vol. 9, no. 19, pp. 6575-8, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/ob/c1ob05808h

[55] B. Ahmed-Omer and A. Sanderson, "Preparation of fluoxetine by multiple flow processing steps," *Org. Biomol. Chem.,* vol. 9, no. 10, pp. 3854-62, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/ob/c0ob00906g

[54] C. Smith, C. Smith, N. Nikbin, S. Ley and I. Baxendale, "Flow synthesis of organic azides and the multistep synthesis of imines and amines using a new monolithic triphenylphosphine reagent," *Org. Biomol. Chem.,* vol. 9, no. 6, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/ob/c0ob00813c

[53] P. Koos, U. Gross, A. Polyzos, M. O'Brien, I. Baxendale and S. Ley, "Teflon AF-2400 mediated gas-liquid contact in continuous flow methoxycarbonylations and in-line FTIR measurement of CO concentration," *Org. Biomol. Chem.,* vol. 9, no. 20, pp. 6903-8, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/ob/c1ob06017a

[52] L. Martin, A. Marzinzik, S. Ley and I. Baxendale, "Safe and reliable synthesis of diazoketones and quinoxalines in a continuous flow reactor," *Org. Lett.,* vol. 13, no. 2, pp. 320-3, 2011. http://pubs.acs.org/doi/abs/10.1021/ol1027927

[51] Y. Zhang, T. Jamison, S. Patel and N. Mainolfi, "Continuous flow coupling and decarboxylation reactions promoted by copper tubing," *Org. Lett.,* vol. 13, no. 2, pp. 280-3, 2011. http://pubs.acs.org/doi/abs/10.1021/ol1026848

[50] C. Hornung, C. Guerrero-Sanchez, M. Brasholz, S. Saubern, J. Chiefari, G. Moad, E. Rizzardo and S. Thang, "Controlled RAFT polymerization in a continuous flow microreactor," *Organic Process Research & Development,* vol. 15, no. 3, pp. 593-601, 2011. http://pubs.acs.org/doi/abs/10.1021/op1003314

[49] R. Wheeler, E. Baxter, I. Campbell and S. Macdonald, "A General, One-Step Synthesis of Substituted Indazoles using a Flow Reactor," *Organic Process Research & Development,* vol. 15, no. 3, pp. 565-569, 2011. http://pubs.acs.org/doi/abs/10.1021/op100288t

[48] M. Roydhouse, A. Ghaini, A. Constantinou, A. Cantu-Perez, W. Motherwell and A. Gavriilidis, "Ozonolysis in flow using capillary reactors," *Organic Process Research & Development,* vol. 15, no. 5, p. 989, 2011. http://pubs.acs.org/doi/abs/10.1021/op200036d

[47] T. Brodmann, P. Koos, A. Metzger, P. Knochel and S. Ley, "Continuous preparation of arylmagnesium reagents in flow with inline IR monitoring," *Organic Process Research & Development,* vol. 16, no. 5, p. 1102–1113, 2011. http://pubs.acs.org/doi/abs/10.1021/op200275d

[46] C. Brocklehurst, H. Lehmann and L. Vecchia, "Nitration chemistry in continuous flow using fuming nitric acid in a commercially available flow reactor," *Organic Process Research & Development,* vol. 15, no. 6, p. 1447, 2011. http://pubs.acs.org/doi/abs/10.1021/op200055r

[45] M. Baumann, I. Baxendale, M. Brasholz, J. Hayward, S. Ley and N. Nikbin, "An integrated flow and batch-based approach for the synthesis of O-methyl siphonazole," *Synlett,* pp. 1375-1380, 2011. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0030-1260573

[44] H. Lange, M. Capener, A. Jones, C. Smith, N. Nikbin, I. Baxendale and S. Ley, "Oxidation reactions in segmented and continuous flow chemical processing using an N-(tert-Butyl) phenylsulfinimidoyl chloride monolith," *Synlett,* pp. 869-873, 2011. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0030-1259923

[43] M. York, "A continuous-flow synthesis of annulated and polysubstituted furans from the reaction of ketones and α-haloketones," *Tetrahedron letters,* pp. 6267-6270, 2011. http://www.sciencedirect.com/science/article/pii/S0040403911016169

[42] N. Prosa, "Synthèse supportée d'hétérocycles en milieux éco-compatibles: Etude des conditions par lots et en flux continu. Purification par ultrafiltration en phase aqueuse," *Thesis,* 2011. https://hal.archives-ouvertes.fr/tel-00664999/

[41] A. Stevenin, "Symbiose mycorhizienne: développement de nouvelles méthodes pour la synthèse de glycoconjugues bioactifs," *Thesis,* 2011. http://www.theses.fr/2011PA112147

[40] J. Poole, "Diverse Applications of Flow Technology in Discovery Chemistry," *Thesis,* 2011. https://kuscholarworks.ku.edu/handle/1808/8174

2010

Year total: 22

[39] T. Razzaq and C. Kappe, "Continuous flow organic synthesis under high temperature/pressure conditions," *Chem Asian J,* vol. 5, no. 6, 2010. http://onlinelibrary.wiley.com/doi/10.1002/asia.201000010/full

[38] D. Webb and T. Jamison, "Continuous flow multi-step organic synthesis," *Chemical*

Science, pp. 675-680, 2010.
http://pubs.rsc.org/-/content/articlehtml/2010/sc/c0sc00381f

[37] M. Brasholz, J. Macdonald, S. Saubern, J. Ryan and A. Holmes, "A gram-scale batch and flow total synthesis of perhydrohistrionicotoxin," *Chemistry,* vol. 16, no. 37, pp. 11471-80, 2010.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201001435/full

[36] I. Baxendale, S. Schou, J. Sedelmeier and S. Ley, "Multi-step synthesis by using modular flow reactors: the preparation of yne--ones and their use in heterocycle synthesis," *Chemistry,* vol. 16, pp. 89-94, 2010.
http://onlinelibrary.wiley.com/doi/10.1002/chem.200902906/full

[35] Z. Qian, I. Baxendale and S. Ley, "A Continuous Flow Process Using a Sequence of Microreactors with In-line IR Analysis for the Preparation of N,N-Diethyl-4-(3-fluorophenylpiperidin-4 ylidenemethyl) benzamide as a Potent and Highly Selective δ-Opioid Receptor Agonist," *Chemistry-A European Journal,* 2010.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201002147/full

[34] Hornung, C. Guerrero-Sanchez, C. Saubern, S. Tsanaktsidis, J. Chiefari and John, "Continuous Flow Processing in Capillary Microreactors for the Synthesis of New Materials," *Engineering at the Edge,* 2010.
https://search.informit.com.au/documentSummary;dn=978269238146376;res=IELENG

[33] S. Castellano, L. Tamborini, M. Viviano, A. Pinto, G. Sbardella and P. Conti, "Synthesis of 3aryl/benzyl-4,5,6,6a-tetrahydro-3aH-pyrrolo [3,4-d]isoxazole derivatives: a comparison between conventional, microwave-assisted and flow-based methodologies," *J. Org. Chem.,* pp. 7439-42, 2010.
http://pubs.acs.org/doi/abs/10.1021/jo1014323

[32] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Synthesis of β-keto esters in-flow and rapid access to substituted pyrimidines," *J. Org. Chem.,* 2010.
http://pubs.acs.org/doi/abs/10.1021/jo101783m

[31] F. Venturoni, N. Nikbin, S. Ley and I. Baxendale, "The application of flow microreactors

to the preparation of a family of casein kinase I inhibitors," *Org. Biomol. Chem.,* vol. 8, no. 8, pp. 1798-806, 2010.
http://pubs.rsc.org/en/content/articlehtml/2010/ob/b925327k

[30] L. Malet-Sanz, J. Madrzak, S. Ley and I. Baxendale, "Preparation of arylsulfonyl chlorides by chlorosulfonylation of in situ generated diazonium salts using a continuous flow reactor," *Org. Biomol. Chem.,* vol. 8, pp. 5324-32, 2010.
http://pubs.rsc.org/en/content/articlehtml/2010/ob/c0ob00450b

[29] F. Muller and B. Whitlock, "An alternative method to isolate pharmaceutical intermediates," *Organic Process Research & Development,* pp. 84-90, 2010.
http://pubs.acs.org/doi/abs/10.1021/op100207e

[28] C. Carter, H. Lange, S. Ley, I. Baxendale, B. Wittkamp, J. Goode and N. Gaunt, "ReactIR flow cell: a new analytical tool for continuous flow chemical processing," *Organic Process Research & Development,* vol. 14, no. 2, pp. 393-404, 2010.
http://pubs.acs.org/doi/abs/10.1021/op900305v

[27] M. Baumann, I. Baxendale and S. Ley, "Synthesis of 3-nitropyrrolidines via dipolar cycloaddition reactions using a modular flow reactor," *Synlett,* 2010.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0029-1219344

[26] Z. Qian, I. Baxendale and S. Ley, "A flow process using microreactors for the preparation of a quinolone derivative as a potent 5HT1B Antagonist," *Synlett,* pp. 505-508, 2010.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0029-1219358

[25] A. Cukalovic, J. Monbaliu and C. Stevens, "Microreactor technology as an efficient tool for multicomponent reactions," *Synthesis of Heterocycles via Multicomponent Reactions,* pp. 161-198, 2010.
http://link.springer.com/10.1007/7081_2009_22

[24] M. Brasholz, B. Johnson, J. Macdonald, A. Polyzos, J. Tsanaktsidis, S. Saubern, A. Holmes and J. Ryan, "Flow synthesis of tricyclic spiropiperidines as building blocks for the histrionicotoxin family of alkaloids," *Tetrahedron,* vol. 66, no. 33, pp. 6445-6449, 2010.
http://www.sciencedirect.com/science/article/pii/S0040402010006745

[23] M. Riccaboni, E. La Porta, A. Martorana and R. Attanasio, "Effect of phase transfer chemistry, segmented fluid flow, and sonication on the synthesis of cinnamic esters," *Tetrahedron,* vol. 66, no. 17, pp. 4032-4039, 2010. http://www.sciencedirect.com/science/article/pii/S0040402010005740

[22] E. Riva, S. Gagliardi, M. Martinelli, D. Passarella, D. Vigo and A. Rencurosi, "Reaction of Grignard reagents with carbonyl compounds under continuous flow conditions," *Tetrahedron,* vol. 66, no. 17, p. 3242, 2010. http://www.sciencedirect.com/science/article/pii/S0040402010003200

[21] F. Stazi, D. Cancogni, L. Turco, P. Westerduin and S. Bacchi, "Highly efficient and safe procedure for the synthesis of aryl 1, 2, 3-triazoles from aromatic amine in a continuous flow reactor," *Tetrahedron Letters,* vol. 51, no. 41, pp. 5385-5387, 2010. http://www.sciencedirect.com/science/article/pii/S0040403910013675

[20] M. Grafton, A. Mansfield and M. Fray, "[3+ 2] Dipolar cycloadditions of an unstabilised azomethine ylide under continuous flow conditions," *Tetrahedron Letters,* vol. 51, no. 7, pp. 1026-1029, 2010. http://www.sciencedirect.com/science/article/pii/S0040403909023570

[19] L. Tamborini, P. Conti, A. Pinto and C. De Micheli, "A highly efficient flow reactor process for the synthesis of N-Boc-3, 4-dehydro-L-proline methyl ester," *Tetrahedron: Asymmetry,* vol. 21, no. 2, p. 222, 2010. http://www.sciencedirect.com/science/article/pii/S0957416610000248

[18] E. Riva, "Flow chemistry applied to the preparation of small molecules potentially useful as therapeutic agents," *Thesis,* 2010. https://air.unimi.it/handle/2434/155261

2009

Year total: 03

[17] M. Baumann, I. Baxendale, L. Martin and S. Ley, "Development of fluorination methods using continuous-flow microreactors," *Tetrahedron,* 2009. http://www.sciencedirect.com/science/article/pii/S0040402009008291

[16] I. Baxendale, S. Ley, A. Mansfield and C. Smith, "Multistep synthesis using modular flow reactors: Bestmann-Ohira reagent for the formation of alkynes and triazoles," *Angew. Chem. Int. Ed. Engl.,* vol. 48, no. 22, 2009. http://onlinelibrary.wiley.com/doi/10.1002/ange.200900970/full

[15] L. Malet-Sanz, J. Madrzak, R. Holvey and T. Underwood, "A safe and reliable procedure for the iododeamination of aromatic and heteroaromatic amines in a continuous flow reactor," *Tetrahedron Letters,* vol. 50, no. 52, 2009. http://www.sciencedirect.com/science/article/pii/S004040390901942X

2008

Year total: 08

[14] T. Asahi, T. Sugiyama and H. Masuhara, "Laser fabrication and spectroscopy of organic nanoparticles," *Acc. Chem. Res.,* vol. 41, no. 12, pp. 1790-8, 2008. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000003/art00019

[13] M. Baumann, I. Baxendale and S. Ley, "The use of diethylaminosulfur trifluoride (DAST) for fluorination in a continuous-flow microreactor," *Synlett,* pp. 2111-2114, 2008. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-2008-1076

[12] M. Baumann, I. Baxendale, S. Ley, N. Nikbin, C. Smith and J. Tierney, "A modular flow reactor for performing Curtius rearrangements as a continuous flow process," *Org. Biomol. Chem.,* vol. 6, no. 9, pp. 1577-86, 2008. http://pubs.rsc.org/en/content/articlehtml/2008/ob/b801631n

[11] M. Baumann, I. Baxendale, S. Ley, N. Nikbin and C. Smith, "Azide monoliths as convenient flow reactors for efficient Curtius rearrangement reactions," *Org. Biomol. Chem.,* vol. 6, no. 9, pp. 1587-93, 2008. http://pubs.rsc.org/en/content/articlehtml/2008/ob/b801634h

[10] I. Baxendale, S. Ley, C. Smith, L. Tamborini and A. Voica, "A bifurcated pathway to thiazoles and imidazoles using a modular flow microreactor," *J Comb Chem,* vol. 10, no.

6, pp. 851-7, 2008.
http://pubs.acs.org/doi/abs/10.1021/cc800070a

[9] K. Geyer and P. Seeberger, "Microreactors as the Key to the Chemistry Laboratory of the Future," *Systems Chemistry,* pp. 87-108, 2008.
http://www.beilstein-institut.de/download/625/06_seeberger.pdf

[8] S. Ley and I. Baxendale, "New tools for molecule makers: emerging technologies," *Systems Chemistry,* 2008.
https://community.dur.ac.uk/i.r.baxendale/papers/Beilstein.2009.65.pdf

[7] A. Vasudevan, "Microwave-assisted organic synthesis an enabling technology with disruptive potential," *Drug Discov World,* pp. 83-88, 2008.
http://www.ddw-online.com/media/32/2307/fall-08-microwave.pdf

2007

Year total: 05

[6] C. Griffiths-Jones, M. Hopkin, D. Jönsson, S. Ley, D. Tapolczay, E. Vickerstaffe and M. Ladlow, “Fully automated flow-through synthesis of secondary sulfonamides in a binary reactor system,” *J Comb Chem,* vol. 9, no. 3, pp. 422-30, 2007.
http://pubs.acs.org/doi/abs/10.1021/cc060152b

[5] J. Moseley and S. Lawton, “Initial results from a commercial continuous flow microwave reactor for scale-up,” *chimica oggi Chemistry Today,* vol. 25, no. 2, pp. 16-19, 2007.
http://www.teknoscienze.com/agro/pdf/moseley.pdf

[4] N. Nikbin, M. Ladlow and S. Ley, “Continuous flow ligand-free Heck reactions using monolithic Pd [0] nanoparticles,” *Organic Process Research & Development,* vol. 11, no. 3, pp. 458-462, 2007.
http://pubs.acs.org/doi/abs/10.1021/op7000436

[3] C. Smith, I. Baxendale, S. Lanners, J. Hayward, S. Smith and S. Ley, “[3 + 2] Cycloaddition of acetylenes with azides to give 1,4-disubstituted 1,2,3-triazoles in a modular flow reactor,” *Org. Biomol. Chem.,* vol. 5, no. 10, pp. 1559-61, 2007.

http://pubs.rsc.org/en/content/articlehtml/2007/ob/b702995k

[2] C. Wiles, P. Watts and S. Haswell, "The use of solid-supported reagents for the multi-step synthesis of analytically pure alpha,beta-unsaturated compounds in miniaturized flow reactors," *Lab Chip,* vol. 7, no. 3, pp. 322-30, 2007. http://link.springer.com/chapter/10.1007/2789_2007_033

2006

Year total: 01

[1] M. Baumann, I. Baxendale, S. Ley, C. Smith and G. Tranmer, "Fully automated continuous flow synthesis of 4,5-disubstituted oxazoles," *Org. Lett.,* vol. 8, no. 23, pp. 5231-4, 2006. http://pubs.acs.org/doi/abs/10.1021/ol061975c