THALESNANO PUBLICATION COLLECTION

LAST UPDATE: 2025/03/06

2025

1. Reductive O-alkylation of methanol by ketones using a heterogeneous palladium catalyst under continuous flow conditions; Han, X. et al.; New J Chem, 2025, 49, 779-786
2. Riboflavin with H2-Driven or Electrochemical Recycling: A Cheap Cofactor System for Supporting Biocatalytic Alkene Reduction; Browne, L. B. F. et al.; ChemCatChem, 2025, 0, e202401578
3. Continuous-Flow Photochemistry: The Synthesis of Marketed Pharmaceutical Compounds; Srivastava, V. et al.; ChemistrySelect, 2025, 9(47), e202405020
4. Highly dispersed WOm enables efficient reductive debenzylation of hexabenzylhexaazaisowurtzitane (HBIW) over bifunctional Pd-WOm/CeO2; Niu, Q. S. et al.; Chem. Eng. Journal, 2025, 505, 159366
5. Can a Simple Surrogate Model System Be Used to Develop a Continuous Flow Packed Bed Hydrogenation for a Complex Molecule?; Martinuzzi, S. et al.; Org. Proc. Red. Dev., 2025, https://doi.org/10.1021/acs.oprd.4c00411
6. New N-Alkylketonetetrahydroisoquinoline derivatives exhibits antitumor effect by HA-CD44 interaction inhibition in MDA-MB-231 breast cancer; Chayah, M. et al.; Bioorg Chem, 2025, 156, 108212
7. Continuous Flow Alkylation of Morpholine and Aniline catalyzed by Mesoporous Al-SBA-15; Sanoja-Lopez, K. A. et al.; Asian J Org Chem, 2025, https://doi.org/10.1002/ajoc.202400760

2024

8. Continuous-flow reductive etherification of furfural over CuAlOx catalyst combined with HZSM-5-Al2O3 composite; Nuzhdin, A. L. et al.; Fuel, 2024, 356, 129622
9. Two-photon fluorescent chemosensors based on the GFP-chromophore for the detection of Zn2+ in biological samples – From design to application; Csomos, A. et al.; Sensors and Actuators B: Chemical, 2024, 398, 134753

10. Reaction Mechanisms and Production of Hydrogen and Acetic Acid from Aqueous Ethanol Using a Rn-Sn/TiO2 Catalyst in a Continuous Flow Reactor; Nomura, T. et al.; Catalysts , 2024, 14, 249

11. Continuous-flow hydrogenation of cinnamaldehyde over catalysts derived from modified CoAl4 layered double hydroxides incorporating Mn, Ni, Cu and Zn ions; Meszaros, R. et al.; Applied Catalysis A: General, 2024, 679, 119738

12. Discovery and Structure–Activity Relationships of 2,5-Dimethoxyphenylpiperidines as Selective Serotonin 5-HT2A Receptor Agonists; Rorsted, E. M. et al.; J. Med. Chem., 2024, 67, 9, 7224-7244

13. Protonated Mesoporous Aluminosilica Nanospheres Boosting Aza-Michael Cyclization and Diels-Alder Reaction; Li, B. et al.; Chem. Res. Chin. Univ., 2024, 40, 1127–1133

14. Mehrstufige kontinuierliche Durchflussprozesse zur Herstellung von heterocyclischen Wirkstoffen; Gerardy, R. et al.; Flow-Chemie für die Synthese von Heterocyclen. Springer Spektrum, Cham., 2024, https://doi.org/10.1007/978-3-031-51912-3_1

15. Catalytic conversion into 5-hydroxymethylfurfural and furfural by heterogeneous sulfonic acid catalysis in a flowing acetone–water system; Sboiu, D. M. et al.; Fuel, 2024, 372, 132200

16. Synthesis and interest in medicinal chemistry of β-phenylalanine derivatives (β-PAD): an update (2010–2022); Remondin, C. et al.; Future Medicinal Chemistry, 2024, 11(16), 1147-1162

17. Flow Synthesis of Capsaicin and Capsaicinoid Analogues; Orosz, M. J. et al.; ACS Sustainable Chem. Eng., 2024, 20(12), 7913-7923

18. Significance of Chalcone Scaffolds in Medicinal Chemistry; Mazumber, R. et al.; Top Curr Chem (Z), 2024, 22(382) DOI: 10.1007/s41061-024-00468-7

19. Tailoring the Graphene Properties for Electronics by Dielectric Materials; Otoo, I. A. et al.; Crystals, 2024, 14(7), 595

20. A new fluorescent probe for the visualization of progerin; Macicior, J. et al.; Bioorganic Chemistry , 2024, 142, 106967

21. Pd-N-Doped Carbons for Chemoselective Hydrogenation of Cinnamaldehyde: Unravelling the Influence of Particle Size and Support in Multiphase Batch and Continuous-Flow Systems; Polidoro, D. et al.; Applied Catalysis A: General, 2024, 685, 119864

22. 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; Graziano, E. et al.; Advanced Synthesis and Catalysis, 2024, 366(18), 3894-3902

23. Functionalization of unsaturated carbon–carbon bonds by continuous-flow ozonolysis; Pacheco, C. M. et al.; J Flow Chem, 2024, 14, 491-513

24. Phenolic Dienes as Highly Selective Dienophiles in the Asymmetric Organocatalyzed Three-Component Vinylogous Povarov Reaction; Brion, A. et al.; J. Org. Chem., 2024, 17(89), 12298-12306

25. Rational design, synthesis and pharmacological characterization of novel aminopeptidase A inhibitors; Balavoine, F. et al.; , Bioorg. Med. Chem. Lett., 2024, 113, 129940

26. Development of the telescoped flow Pd-catalyzed aerobic alcohol oxidation/reductive amination sequence in the synthesis of new phosphatidylinositide 3-kinase inhibitor (CPL302415); Michalek, S. et al.; RSC Advances, 2024, 14, 28516-28523

27. Synthesis of 3-substituted pyrrolidin-2-ones and 3-substituted piperidin-2-ones from esters; Brunotte, L. et al.; Arkivoc, 2024, 1, 202412235

28. Continuous Flow Synthesis of Furfuryl Ethers over Pd/C Catalysts via Reductive Etherification of Furfural in Ethanol; Hassine, A. et al.; Catalysts, 2024, 14(9), 617

29. Advances in Continuous Flow Production of 5-(Hydroxymethyl)furfural, 2,5-Furandicarboxylic Acid, 2,5-Diformylfuran, and 2,5-Dimethylfuran; Lecona-Vargas, C. S. et al.; Ind. Eng. Chem. Res., 2024, 38(63), 16222-16246

30. Effect of iron oxidation state on the catalytic performance of Fe/C in liquid phase flow hydrogenation of 2-butyne-1,4-diol; Zawadzki, B. et al.; Fuel, 2024, 380, 133170

31. Bijel-based mesophotoreactor with integrated carbon nitride for continuous-flow photocatalysis; Allasia, N. et al.; Chem. Eng. Journal, 2024, 499, 155885

32. Continuous flow versatile conversion of furfural to valuable end products catalyzed by commercial Pd/C; Sanoja-Lopez, K. A. et al.; Inorg. Chem. Comm., 2024, 170, 113277

33. Levoglucosenone as a starting material for cascade continuous-flow synthesis of (R)-γ-carboxy-γ-butyrolactone; Pacheco, C. M. et al.; RSC Adv., 2024, 14, 34611-34619

2023

34. A sustainable and chemoselective continuous flow hydrogenation of functionalized 2-azetines to azetidines; Graziano, E. et al.; Tetrahedron Green Chem., 2023, 1, 100003

35. Advanced In-Line Purification Technologies in Multistep Continuous Flow Pharmaceutical Synthesis; Lei, Z. et al.; Org. Process Res. Dev., 2023, Accepted manuscript

36. Ag–In–Zn–S Quaternary Nanocrystals Prepared from InCl2 Precursor: Photophysical and Spectroscopic Properties and Application as Visible Light Photocatalysts of Aromatic Aldehyde Photoreduction; Kowalik, P. et al.; Chem. Mater., 2023, Accepted manuscript

37. Ambient Processed rGO/Ti3CNTx MXene Thin Film with High Oxidation Stability, Photosensitivity, and Self-Cleaning Potential; Purbayanto, M. A. K. et al.; ACS Appl. Nano Mater., 2023, Accepted manuscript

38. Asymmetric Synthesis of Trisubstituted Piperidines via Biocatalytic Transamination and Diastereoselective Enamine or Imine Reduction; Petermeier, P. et al.; Adv. Synth. Catal., 2023, Early view

39. Autonomous continuous flow reactor synthesis for scalable atom-precision; Sumpter, B. G. et al.; Carbon Trends, 2023, 10, 100234

40. Base-Promoted Formal (3 + 2) Cycloaddition of α-Halohydroxamates with Electron-Deficient Alkenyl-iminoindolines To Synthesize Spiro-indolinepyrrolidinones; Zhang, X. et al.; J. Org. Chem., 2023, Accepted manuscript

41. Batch and continuous-flow room temperature furfural acetalization with ethanol over aluminophosphate (APAl) catalysts for biofuels production; Ratthiwal, J. et al.; Fuel, 2023, 332, 126049

42. Chitin-Derived Nanocatalysts for Reductive Amination Reactions; Polidoro, D. et al.; Materials, 2023, 16(2), 575

43. Continuous flow process development for the synthesis of an industrial raw material via solvent-free aromatic Claisen rearrangement; Petrovic, N. et al.; J. Flow Chem., 2023, DOI: 10.1007/s41981-023-00275-z

44. Continuous flow synthesis of 6-monoamino-6-monodeoxy-β-cyclodextrin; Orosz, J. M. et al.; Beilstein J. Org. Chem., 2023, 19, 294-302

45. Continuous-Flow Synthesis of Cyclobutenes Using LED Technology; Smyth, M. et al.; Synlett, 2023, DOI: 10.1055/a-2086-0630

46. Design and Synthesis of a Highly Selective and In Vivo-Capable Inhibitor of the Second Bromodomain of the Bromodomain and Extra Terminal Domain Family of Proteins; Preston, A. et al.; J. Med. Chem., 2023, 63, 17, 9070–9092

47. Design, Synthesis, and Pharmacological Characterization of a Potent Soluble Epoxide Hydrolase Inhibitor for the Treatment of Acute Pancreatitis; Musella, S. et al.; J. Med. Chem., 2023, 66(13), 9201–9222

48. Discovery of a Potent and Orally Bioavailable Zwitterionic Series of Selective Estrogen Receptor Degrader-Antagonists; Scott, J. S. et al.; J. Med. Chem., 2023, 66, 4, 2918-2945

49. Discovery of the TLR7/8 Antagonist MHV370 for Treatment of Systemic Autoimmune Diseases; Alper, P. et al.; ACS Med. Chem. Lett., 2023, Accepted manuscript

50. Dynamic experiments in flow accelerate reaction network definition in a complex hydrogenation using catalytic static mixers; Martinuzzi, S. et al.; React. Chem. Eng., 2023, DOI: 10.1039/d3re00451a

51. Efficient and continuous furfural hydrogenation to furfuryl alcohol in a micropacked bed reactor; Duan, L. et al.; React. Chem. Eng., 2023, 8, 1719-1728

52. End functionalization of polyisoprene and polymyrcene obtained by anionic polymerization via one-pot ring-opening mono-addition of epoxides; Zhang, J. et al.; European Polymer Journal, 2023, 183, 111755

53. Excellent antimicrobial and photocatalytic performance of C/GO/TiO2/Ag and C/TiO2/Ag hybrid nanocomposite beds against waterborne microorganisms; Jakubczak, M. et al.; Mat. Chem. Phys., 2023, 297, 127333

54. Flow chemistry based catalytic hydrogenation for improving the synthesis of 1-deoxynojirimycin (DNJ) from an l-sorbose derived precursor; Bennett, J. J. et al.; Carbohydrate Research, 2023, 529, 108845

55. Flow photochemistry — from microreactors to large-scale processing; Zhang, M. et al.; Current Opinion in Chemical Engineering, 2023, 39, 100897

56. Furfural conversion over calcined Ti and Fe metal-organic frameworks under continuous flow conditions; Ratthiwal, J. et al.; Catalysis Communications, 2023, 177, 106649

57. Green Approach for Sustainable Production of Paraffin Fuel from CO2 Hydrogenation on Fe-MOF Catalyst; Ahmed, H. E. et al.; Journal of Environmental Chemical Engineering, 2023, Accepted manuscript

58. Hydrogenation of Dinitrobenzenes to Corresponding Diamines Over Cu–Al Oxide Catalyst in a Flow Reactor; Nuzhdin, A. L. et al.; Catalysis Letters, 2023, https://doi.org/10.1007/s10562-023-04306-1

59. Improving the sustainability and safety of ursodeoxycholic acid synthesis in continuous flow process with water; Kim, H. et al.; J. Ind. Eng. Chem., 2023, 119, 327-334

60. Ion-exchange resin-supported palladium catalysts for hydrodehalogenation of aryl halides under batch and continuous flow conditions; Czegeni, C. E. et al.; Inorganica Chimica Acta, 2023, 556, 121613

61. Maximizing hydrogen utilization efficiency in tandem hydrogenation of nitroarenes with ammonia borane; Shen, M. et al.; Green Chemistry, 2023, Advance article

62. Mesoporous carbon supported Cu as the efficient catalyst for flow hydrogenation processes toward formation of products with pharmaceutical potential; Zawadzki, B. et al.; Microporous and Mesoporous Materials, 2023, 362, 112803

63. Metal-free synthesis of an estetrol key intermediate under intensified continuous flow conditions; Bianchi, P. et al.; React. Chem. Eng., 2023, 8, 1565-1575

64. Micro-total process system machine (μ-TPSM) for rapid synthesis of antiretroviral darunavir; Chauhan, R. et al.; React. Chem. Eng., 2023, Advance article

65. Nanostructured Carbon Nitride for Continuous-Flow Trifluoromethylation of (Hetero)arenes; Sivo, A. et al.; ACS Sustainable Chem. Eng., 2023, 11, 13, 5284–5292

66. One-pot multi-step synthesis of gamma-valerolactone from furfuryl alcohol: Microwave vs continuous flow reaction studies; Lazaro, N. et al.; Fuel, 2023, 334, 126439

67. Photocatalytic Activity of the Oxidation Stabilized Ti3C2Tx MXene in Decomposing Methylene Blue, Bromocresol Green and Commercial Textile Dye; Bury, D. et al.; Small Methods, 2023, 7(8), 2201252

68. Polystyrene Resins: Versatile and Economical Support for Heterogeneous Nanocatalysts in Sustainable Organic Reactions; Sharma, A. S. et al.; ChemCatChem, 2023, Accepted manuscript

69. Practical and Scalable Method for Manufacturing AZD4604, A Potent and Selective JAK1 Inhibitor; Pithani, S. et al.; Org. Process Res. Dev., 2023, Accepted manuscript

70. Scouting in silico different chemo-types of PDE4 inhibitors to guide the design of new anti-inflammatory/antioxidant agents; Cichero, E. et al.; ChemMedChem, 2023, Accepted manuscript

71. Selective hydrogenation of furfural using TiO2-Fe2O3/C from Ti-Fe-MOFs as sacrificial template: Microwave vs Continuous flow experiments; Ronda-Leal, M. et al.; Fuel, 2023, 333, 126221
72. Silica-Supported 1st Row Transition Metal (Nano)Catalysts: Synthetic and Catalytic Insight; Reina, A. et al.; ChemCatChem, 2023, 15(11), e202300285
73. Structural assessment of novel spiro-naphthalene-1.2'- [1,3,4]oxadiazol-4-ones prepared under batch and flow chemistry with a concise antifungal and anti(myco)bacterial activity; Saleh, L. Y. et al.; Tetrahedron, 2023, 131, 133231
74. Structure–Activity Relationship Study of the High-Affinity Neuropeptide Y4 Receptor Positive Allosteric Modulator VU0506013; Schüß, C. et al.; J. Med. Chem., 2023, 66(13), 8745–8766
75. Synthesis and Characterization of Late Transition Metal Complexes of Mono-Acetate Pendant Armed Ethylene Cross-Bridged Tetraazamacrocycles with Promise as Oxidation Catalysts for Dye Bleaching; Hoang, T. et al.; Molecules, 2023, 28(1), 232
76. Synthesis and pharmacological activity of the epimers of hexahydrocannabinol (HHC); Russo, F. et al.; Sci. Rep., 2023, 13, 11061
77. Synthesis of Galactoacrylamide and Study of Stimuli-Responsive Fluorescent Hierarchical Self-Assembly-Promoted Specific Interactions with Proteins; Ajish, J. K. et al.; ChemistrySelect, 2023, 8(37), e202301497
78. Synthesis of Highly Reactive Ketenimines via Photochemical Rearrangement of Isoxazoles; Bracken, C. et al.; Org. Lett., 2023, Accepted manuscript
79. Synthesis of the Hexasaccharide Related to the Exopolysaccharide from Lactobacillus mucosae VG1 through Regioselective Glycosylation; Adak, A. et al.; Org. Lett., 2023, 25(25), 4711–4714
80. Targeting Cytotoxic Agents through EGFR-Mediated Covalent Binding and Release; Morese, P. A. et al.; J. Med. Chem., 2023, Accepted manuscript
81. Total Synthesis of GE81112A: An Orthoester-Based Approach; Fayad, S. et al.; J. Org. Chem., 2023, 88, 9, 5597–5608
82. Upgrading furanic platforms to α-enaminones: tunable continuous flow hydrogenation of biobased cyclopentenones; Cavaca, L. A. S. et al.; React. Chem. Eng., 2023, 8, 482
83. Wet-Chemical Etching and Delamination of MoAlB into MBene and Its Outstanding Photocatalytic Performance; Bury, D. et al.; Adv. Synth. Catal., 2023, Accepted manuscript

2022

84. Structural Effects of Metal Single-Atom Catalysts for Enhanced Photocatalytic Degradation of Gemfibrozil; Ruta, V. et al.; ACS Appl. Nano Mater., 2022, 5, 14520-14528

85. Tunable Antibacterial Activity of a Polypropylene Fabric Coated with Bristling Ti3C2Tx MXene Flakes Coupling the Nanoblade Effect with ROS Generation; Purbayanto, M. A. K. et al.; ACS Appl. Nano Mater., 2022, 5, 5373-5386

86. Synthesis of Chalcones Derivatives and Their Biological Activities: A Review; Elkanzi, N. A. A. et al.; ACS Omega, 2022, 7, 27769-27786

87. N-Hydroxyphthalimide Catalyzed Aerobic Oxidation of Aldehydes under Continuous Flow Conditions; Kappe, C. O. et al.; Adv. Synth. Catal., 2022, 364(12), 1998-2008

88. One-For-All Polyolefin Functionalization: Active Ester as Gateway to Combine Insertion Polymerization with ROP, NMP, and RAFT; Dau, H. et al.; Angew. Chem. Int. Ed., 2022, 61(33), e202205931

89. TiO2–Fe3O4 Composite Systems—Preparation, Physicochemical Characterization, and an Attempt to Explain the Limitations That Arise in Catalytic Applications; Krakowiak, R. et al.; Appl. Sci., 2022, 12(17), 8826

90. Synthesis, antiplasmodial activity and in silico molecular docking study of pinocembrin and its analogs; Melaku, Y. et al.; BMC Chemistry, 2022, 16, 36

91. Chemical synthesis of β-D-ManNAc containing pentasaccharide repeating unit of the exopolysaccharide from Lactobacillus rhamnosus BIM B-1039 in the form of its p-methoxyphenyl glycoside; Bera, A. et al.; Carbohydrate Research, 2022, 522, 108708

92. Concise synthesis of the tetrasaccharide repeating unit of the O-antigen from Escherichia coli O131 containing N-acetyl neuraminic acid; Adak, A. et al.; Carbohydrate Research, 2022, 521, 108654

93. Protecting group principles suited to late stage functionalization and global deprotection in oligosaccharide synthesis; Dhara, D. et al.; Carbohydrate Research, 2022, 521, 108644

94. Automated flow and real-time analytics approach for screening functional group tolerance in heterogeneous catalytic reactions; Simon, K. et al.; Catal. Sci. Technol., 2022, 12, 1799-1811

95. Copper-zinc oxide interface as a methanol-selective structure in Cu-ZnO catalyst during catalytic hydrogenation of carbon dioxide to methanol; Saedy, S. et al.; Catal. Sci. Technol., 2022, 12, 2703-2716

96. Scalable continuous flow hydrogenations using Pd/Al2O3-coated rectangular cross-section 3D-printed static mixers; Lebl, R. et al.; Catalysis Today, 2022, 383, 55-63

97. Catalytic Hydrogenation of Nitrocyclohexane with CuCo/SiO2 Catalysts in Gas and Liquid Flow Reactors; Kowalewski, E. et al.; Catalysts, 2022, 12(9), 1062

98. Co Loading Adjustment for the Effective Obtention of a Sedative Drug Precursor through Efficient Continuous-Flow Chemoselective Hydrogenation of 2-Methyl-2-Pentenal; Fernandez-Ropero, A. J. et al.; Catalysts, 2022, 12, 19

99. Selective Hydrogenation of 5-Acetoxymethylfurfural over Cu-Based Catalysts in a Flow Reactor: Effect of Cu-Al Layered Double Hydroxides Synthesis Conditions on Catalytic Properties; Bukhtiyarova, M. V. et al.; Catalysts, 2022, 12, 878

100. Recent Developments for the Deuterium and Tritium Labeling of Organic Molecules; Kopf, S. et al.; Chem. Rev., 2022, 122, 6634-6718

101. Technological Innovations in Photochemistry for Organic Synthesis: Flow Chemistry, High-Throughput Experimentation, Scale-up, and Photoelectrochemistry; Buglioni, L. et al.; Chem. Rev., 2022, 122, 2752-2906

102. Thermochemiluminescence-Based Sensitive Probes: Synthesis and Photophysical Characterization of Acridine-Containing 1,2-Dioxetanes Focusing on Fluorophore Push-Pull Effects; Moroni, G. et al.; ChemPhotoChem, 2022, 6(1), e202100152

103. Tuning the Selectivity of the Hydrogenation/Hydrogenolysis of 5-Hydroxymethylfurfural under Batch Multiphase and Continuous-Flow Conditions; Rodriguez-Padron, D. et al.; ChemSusChem, 2022, 15(13), e202200503

104. Design and development of photoswitchable DFG-Out RET kinase inhibitors; Xu, Y. et al.; Eur. J. Med. Chem., 2022, 234, 114226

105. A convenient total synthesis of PSMA-617: A prostate specific membrane antigen (PSMA) ligand for prostate cancer endotherapeutic applications; Kumar, K. S. A. et al.; Eur. J. Med. Chem. Rep., 2022, 6, 100084

106. Electrochemical Hydroxylation of Electron-Rich Arenes in Continuous Flow; Kooli, A et al.; Eur. J. Org. Chem., 2022, 20, e202200011

107. Continuous-flow stereoselective reduction of prochiral ketones in a whole cell bioreactor with natural deep eutectic solvents; Annunziata, F. et al.; Green Chemistry, 2022, 24, 950

108. Out-smarting smart drug modafinil through flow chemistry; Silva-Brenes, D. V. et al.; Green Chemistry, 2022, 24, 2094-2103

109. Selective hydrodeoxygenation of acetophenone derivatives using a Fe25Ru75@SILP catalyst: a practical approach to the synthesis of alkyl phenols and anilines; Goclik, L. et al.; Green Chemistry, 2022, 24, 2937

110. Flow chemistry in the multi-step synthesis of natural products; Wan, L. et al.; Green Synth. Catal., 2022, 3, 243-259

111. Prediction of Optimal Conditions of Hydrogenation Reaction Using the Likelihood Ranking Approach; Afonina, V. A. et al.; Int. J. Mol. Sci., 2022, 23, 248

112. Understanding flow chemistry for the production of active pharmaceutical ingredients; Luque, R. et al.; iScience, 2022, 25, 103892

113. A multi-step continuous flow synthesis of pomalidomide; Ivanova, M. et al.; J. Flow Chem., 2022, 12, 383-387

114. Microfluidic asymmetrical synthesis and chiral analysis; Kochetkov, K. A. et al.; J. Ind. Eng. Chem., 2022, 115, 62-91.

115. Build−Couple−Transform: A Paradigm for Lead-like Library Synthesis with Scaffold Diversity; Uguen, M. et al.; J. Med. Chem., 2022, 65(16), 11322-11339

116. Discovery and Optimization of Indoline-Based Compounds as Dual 5-LOX/sEH Inhibitors: In Vitro and In Vivo Anti-Inflammatory Characterization; Cerqua, I. et al.; J. Med. Chem., 2022, 65, 21, 14456-14480

117. Identification of a Potent, Selective, and Brain-Penetrant Rho Kinase Inhibitor and its Activity in a Mouse Model of Huntington's Disease; Ladduwahetty, T. et al.; J. Med. Chem., 2022, 65, 14, 9819-9845

118. Investigation of Janus Kinase (JAK) Inhibitors for Lung Delivery and the Importance of Aldehyde Oxidase Metabolism; Baldwin, I. R. et al.; J. Med. Chem., 2022, 65, 1, 633-664

119. Mapping Ligand Interactions of Bromodomains BRD4 and ATAD2 with FragLites and PepLites-Halogenated Probes of Druglike and Peptide-like Molecular Interactions; Davison, G. et al.; J. Med. Chem., 2022, 65, 22, 15416-15432

120. Parallel Optimization of Potency and Pharmacokinetics Leading to the Discovery of a Pyrrole Carboxamide ERK5 Kinase Domain Inhibitor; Miller, D. C. et al.; J. Med. Chem., 2022, 65, 9, 6513-6540

121. Synthesis of 2,6-Dimethyltyrosine-Like Amino Acids through Pinacolinamide-Enabled C–H Dimethylation of 4-Dibenzylamino Phenylalanine; Illuminati, D. et al.; J. Org. Chem., 2022, 87, 5, 2580-2589

122. Reactivation of catalysts for methanol-to-hydrocarbons conversion with hydrogen; Paunovic, V. et al.; Journal of Catalysis, 2022, 407, 54-64

123. Deuterated Liquid Crystals - design and synthesis of deuterium labelled 4,4″-dialkyl-2′,3′-difluoro-[1,1′:4′,1″]terphenyls using batch and continuous flow systems; Zak, M. et al.; Liquid Crystals, 2022, https://doi.org/10.1080/02678292.2022.2145379

124. Photocatalytic Activity of Sulfanyl Porphyrazine/Titanium Dioxide Nanocomposites in Degradation of Organic Pollutants; Koczorowski, T. et al.; Materials, 2022, 15(20), 7264

125. Effect of Binding Linkers on the Efficiency and Metabolite Profile of Biomimetic Reactions Catalyzed by Immobilized Metalloporphyrin; Balogh, Gy. T. et al.; Metabolites, 2022, 12(12), 1269

126. Continuous flow Reductive Alkylation of Methanol by Aldehydes. Synthesis of O-Methyl Ethers and 1,1-Dimethoxyacetals; Radjagobalou, R. et al.; Mol. Cat., 2022, 524, 112321

127. Effects of Regioisomerism on the Antiproliferative Activity of Hydroxystearic Acids on Human Cancer Cell Lines; Boga, C. et al.; Molecules, 2022, 27, 2396

128. Hyperbranched PDMAEMA-functionalized SiO2 microparticles: ATRP polymerization and grafting in a continuous flow reactor; Ge, J. et al.; MRS Communications, 2022, 12, 1147-1153

129. A flow-based transition-metal-catalysed hydrogenolysis strategy to facilitate peptide side-chain deprotection; Menti-Platten, M. et al.; Org. Biomol. Chem., 2022, 20, 106-112

130. Synthesis of 12β-methyl-18-nor-avicholic acid analogues as potential TGR5 agonists; Ure, E. M. et al.; Org. Biomol. Chem., 2022, 20, 3511-3527

131. Fixed Bed Continuous Hydrogenations in Trickle Flow Mode: A Pharmaceutical Industry Perspective; Masson, E. et al.; Org. Process Res. Dev., 2022, 26(8), 2190-2223

132. Intensified Continuous Flow Michaelis-Arbuzov Rearrangement toward Alkyl Phosphonates; Toupy, T. et al.; Org. Process Res. Dev., 2022, 26, 2, 467-478

133. Multigram Synthesis of Tetrasubstituted Dihydrobenzofuran GSK973 Enabled by High-Throughput Experimentation and a Claisen Rearrangement in Flow; Gray, M. et al.; Org. Process Res. Dev., 2022, 26, 2, 365-379

134. Using Oxygen as the Primary Oxidant in a Continuous Process: Application to the Development of an Efficient Route to AZD4635; Karlsson, S. et al.; Org. Process Res. Dev., 2022, 26, 4, 1048-1053

135. Assessing a sustainable manufacturing route to lapatinib; Stark, R. T. et al.; React. Chem. Eng., 2022, 7, 2420-2426

136. The assembly of integrated continuous flow platform for on-demand rosiglitazone and pioglitazone synthesis; Purwa, M. et al.; React. Chem. Eng., 2022, 7, 2084-2092

137. Towards 4th industrial revolution efficient and sustainable continuous flow manufacturing of active pharmaceutical ingredients; Sagandira, C. R. et al.; React. Chem. Eng., 2022, 7, 214-244

138. Total Synthesis of Marine-Derived Azole Resistant Antifungal Agent (–)-Melearoride A and Antibiotic (–)-PF1163B; Yasam, B. K. et al.; SynOpen, 2022, 6, 227-237

139. Asymmetric Synthesis of γ-Amino-Functionalised Vinyl Sulfones: De Novo Preparation of Cysteine Protease Inhibitors; Shen, W. et al.; Synthesis, 2022, 54, 7, 1753-1764

140. Flow Hydrogenation of 1,3,5-Trinitrobenzenes over Cu-Based Catalysts as an Efficient Approach for the Preparation of Phloroglucinol Derivatives; Shchurova, I. A. et al.; Synthesis, 2022, 54(16), 3605-3612

141. Use of Vinyl Sulfides in Fischer Indole Reactions; Pal, P. et al.; Synthesis, 2022, 54(22), 4917-4931

2021

142. Synthesis of 12β-Methyl-18-nor-bile Acids; Luxenburger, A. et al.; ACS Omega, 2021, 6, 38, 25019-25039

143. Advanced Real-Time Process Analyticsfor Multistep Synthesis in Continuous Flow; Sagmeister, P. et al.; Angew. Chem. Int. Ed., 2021, 60, 8139-8148

144. Biocatalyzed Flow Oxidation of Tyrosol to Hydroxytyrosol and Efficient Production of Their Acetate Esters; Annunziata, F. et al.; Antioxidants, 2021, 10(7), 1142

145. Continuous-flow hydrogenation of nitrocyclohexane toward value-added products with CuZnAl hydrotalcite derived materials; Kowalewski, E. et al.; Applied Catalysis A, General, 2021, 618, 118134

146. Continuous flow hydrogenation with Pd complexes of pyridine-benzotriazole ligands; Yilmaz, F. et al.; Appl. Organomet. Chem., 2021, 35(11), e6389

147. A comprehensive review of flow chemistry techniques tailored to the flavours and fragrances industries; Gambarcorta, G. et al.; Beilstein J. Org. Chem., 2021, 17, 1181-1312

148. Investigation of the effect of different linker chemotypes on the inhibition of histone deacetylases (HDACs); Linciano, P. et al.; Bioorg. Chem., 2021, 106, 104462

149. Discovery of potent and selective reversible Bruton's tyrosine kinase inhibitors; Qiu, H. et al.; Bioorg. Med. Chem., 2021, 40, 116163

150. Synthesis and structure-activity relationship studies of 2,4-thiazolidinediones and analogous heterocycles as inhibitors of dihydrodipicolinate synthase; Christoff, R. M. et al.; Bioorg. Med. Chem., 2021, 52, 116518

151. Chemical synthesis of the rare D-Fuc3NAc containing tetrasaccharide repeating unit of the O-antigenic polysaccharide from E. coli O74; Bera, A. et al.; Carbohydrate Research, 2021, 506, 108366

152. Chemical synthesis of the pentasaccharide repeating unit of the O-specific polysaccharide from Ruminococcus gnavus; Pal, D. et al.; Carbohydrate Research, 2021, 507, 108384

153. Continuous flow study of isoeugenol to vanillin: A bio-based iron oxide catalyst; Filiciotto, L. et al.; Catalysis Today, 2021, 368, 281-290

154. Selective continuous flow phenylacetylene hydrogenation over Pd-biogenic calcium carbonate; Chaparro, S. et al.; Catalysis Today, 2021, 368, 181-186

155. Continuous 2-Methyl-3-butyn-2-ol Selective Hydrogenation on Pd/γ-Al2O3 as a Green Pathway of Vitamin A Precursor Synthesis; Fernandez-Ropero, A. J. et al.; Catalysts, 2021, 11, 501

156. Mechanochemical Synthesis of Nickel-Modified Metal-Organic Frameworks for Reduction Reactions; Gomez-Lopez, P. et al.; Catalysts, 2021, 11, 526

157. Immobilization of an Iridium(I)-NHC-Phosphine Catalyst for Hydrogenation Reactions under Batch and Flow Conditions; Kovacs, H. et al.; Catalysts, 2021, 11, 656

158. Continuous enzymatic stirred tank reactor cascade with unconventional medium yielding high concentrations of (S)-2-hydroxyphenyl propanone and its derivatives; Oeggl, R. et al.; Catal. Sci. Technol., 2021, 11, 7886-7897

159. Integrated Suzuki Cross-Coupling/Reduction Cascade Reaction of meta-/para-Chloroacetophenones and Arylboronic Acids under Batch and Continuous Flow Conditions; Li, Y. et al.; Chem. Asian J., 2021, 16, 16, 2338-2345

160. Automated and continuous synthesis of drug substances; Castillo, I. et al.; Chem. Eng. Res. Des., 2021, 177, 493-501

161. Precursor Nuclearity and Ligand Effects in Atomically-Dispersed Heterogeneous Iron Catalysts for Alkyne Semi-Hydrogenation; Faust Akl, D. et al.; ChemCatChem, 2021, 13(14), 3247-3256

162. Synthesis of L-[5-^{11}C]Leucine and L-α-[5-^{11}C]Methylleucine via Pd^0-mediated ^{11}C-Methylation and Microfluidic Hydrogenation: Potentiality of Leucine PET Probes for Tumor Imaging; Takatani, S. et al.; ChemMedChem, 2021, 16(21), 3271-3279

163. Green Process Design for Reductive Hydroformylation of Renewable Olefin Cuts for Drop-In Diesel Fuels; Puschel, S. et al.; ChemSusChem, 2021, 14, 5226-5234

164. Functional Group Interconversion Reactions in Continuous Flow Reactors; Leslie, A. et al.; Curr. Org. Chem., 2021, 25, 19, 2217-2231

165. Heterogeneous Palladium Catalysts in the Hydrogenation of the Carbon-carbon Double Bond; Grabovskii, S. A. et al.; Curr. Org. Chem., 2021, 25, 2, 315-329

166. Improved potency of pyridin-2(1H)one derivatives for the treatment of mechanical allodynia; Visseq, A. et al.; Eur. J. Med. Chem., 2021, 225, 113748

167. Total chemical synthesis of PSMA-11: API for ^{68}Ga-PSMA-11 used for prostate cancer diagnosis; Kumar, K. S. A. et al.; Eur. J. Med. Chem. Rep., 2021, 3, 100014

168. Boosting the Productivity of H2-Driven Biocatalysis in a Commercial Hydrogenation Flow Reactor Using H2 From Water Electrolysis; Poznansky, B. et al.; Front. Chem. Eng., 2021, 3, 718257

169. A modular, low footprint and scalable flow platform for the expedient α-aminohydroxylation of enolizable ketones; Kassin, V-E. H. et al.; Green Chemistry, 2021, 23, 2336-2351

170. Modeling, Synthesis, and Biological Evaluation of Potential Retinoid-X-Receptor (RXR) Selective Agonists: Analogs of 4-[1-(3,5,5,8,8-Pentamethyl-5,6,7,8-tetrahyro-2-naphthyl)ethynyl]benzoic Acid (Bexarotene) and 6-(Ethyl(4-isobutoxy-3-isopropylphenyl)amino)nicotinic Acid (NEt-4IB); Jurutka, P. W. et al.; Int. J. Mol. Sci., 2021, 22, 12371

171. A small footprint oxycodone generator based on continuous flow technology and real-time analytics; Sommer, F. et al.; J. Flow Chem., 2021, 11, 707-715

172. Synthesis of new tetrahydropyridopyrazine derivatives via continuous flow chemistry approach and their spectroscopic characterizations; Parmar, N. D. et al.; J. Heterocyclic Chem., 2021, 58(7), 1437-1445

173. Deconstructing Noncovalent Kelch-like ECH-Associated Protein 1 (Keap1) Inhibitors into Fragments to Reconstruct New Potent Compounds; Pallesen, J. S. et al.; J. Med. Chem., 2021, 64(8), 4623-4661

174. Sustainable Drug Discovery of Multi-Target-Directed Ligands for Alzheimer's Disease; Rossi, M. et al.; J. Med. Chem., 2021, 64(8), 4972-4990

175. Chemical Synthesis of *β*-L-Rhamnose Containing the Pentasaccharide Repeating Unit of the O-Specific Polysaccharide from a Halophilic Bacterium Halomonas ventosae RU5S2EL in the Form of Its 2-Aminoethyl Glycoside; Pal, D. et al.; J. Org. Chem., 2021, 86, 13, 8683-8694

176. Triflic Acid-Catalyzed Synthesis of Indole-Substituted Indane Derivatives via In Situ Formed Acetal-Facilitated Nucleophilic Addition and 4π-Electron-5-Carbon Electrocyclization Sequence; Ramesh, G. et al.; J. Org. Chem., 2021, 86, 23, 16278-16292

177. HPLC-UV-HRMS analysis of cannabigerovarin and cannabigerobutol, the two impurities of cannabigerol extracted from hemp; Tolomeo, F. et al.; J. Pharm. Biomed. Analysis, 2021, 203, 114215

178. Reducing Challenges in Organic Synthesis with Stereoselective Hydrogenation and Tandem Catalysis; Parker, P. D. et al.; JACS, 2021, 143(18), 6724-6745

179. Reductive Amination of 5-Hydroxymethylfurfural by the Hydrogenation of Intermediate Imines in the Presence of a Pt/Al_2O_3 Catalyst in a Flow Reactor; Nuzhdin, A. L. et al.; Kinetics and Catalysis, 2021, 62, 507-512

180. Synthesis, Mesomorphism and the Optical Properties of Alkyl-Deuterated Nematogenic 4-[(2,6-Difluorophenyl)ethynyl]biphenyls; Herman, J. et al.; Materials, 2021, 14, 4653

181. High-throughput Screening of Vanadium (IV) Oxide via Continuous Hydrothermal Flow Synthesis Reactor; Tran, M. K. et al.; Materials Chemistry, 2021, Working paper

182. Reductive amination of 5-acetoxymethylfurfural over Pt/Al_2O_3 catalyst in a flow reactor; Nuzhdin, A. L. et al.; Mol. Cat., 2021, 499, 111297

183. C-N Bond Formation by Consecutive Continuous-Flow Reductions towards A Medicinally Relevant Piperazine Derivative; Fulop, Zs. et al.; Molecules, 2021, 26, 2040

184. Synthesis of Polyanionic C5-Modified 2'-Deoxyuridine and 2'-Deoxycytidine-5'-Triphosphates and Their Properties as Substrates for DNA Polymerases; Dutson, C. et al.; Molecules, 2021, 26, 2250

185. Heterogeneous Catalysis to Drive the Waste-to-Pharma Concept: From Furanics to Active Pharmaceutical Ingredients; Luque, R. et al.; Molecules, 2021, 26, 6738

186. Pharmacokinetics-Driven Evaluation of the Antioxidant Activity of Curcuminoids and Their Major Reduced Metabolites - A Medicinal Chemistry Approach; Girst, G. et al.; Molecules, 2021, 26, 3542

187. Total synthesis of the isoquinolinium metabolite ETM-204 of Trabectidin; Lembacher-Fadum, C. et al.; Monatsh. Chem., 2021, https://doi.org/10.1007/s00706-021-02844-1

188. Synthesis of a Nitroxide Spin-labeled Varenicline (Chantix) Derivative; Bognar, B. et al.; Org. Prep. And Proc. Int., 2021, 53(3), 311-315

189. Synthesis of the Lipophilic Amine Tail of Abediterol Enabled by Multiphase Flow Transformations; Garcia-Lacuna, J. et al.; Org. Process Res. Dev., 2021, 25, 947-959

190. Continuous-flow hydrogenation over resin supported palladium catalyst for the synthesis of industrially relevant chemicals; Kowalewski, E. et al.; Reaction Kinetics, Mechanisms and Catalysis, 2021, 132, 717-728

191. Application of reactor engineering concepts in continuous flow chemistry: a review; Neyt, N. C. et al.; React. Chem. Eng., 2021, 6, 1295-1326

192. Process intensification of ozonolysis reactions using dedicated microstructured reactors; Polterauer, D. et al.; React. Chem. Eng., 2021, 6, 2253-2258

193. Evaluating the Green Credentials of Flow Chemistry towards Industrial Applications; Baumann, M. et al.; Synthesis, 2021, 53(21), 3963-3976

194. Highly Diastereoselective Chelation-Controlled 1,3-anti-Allylation of (S)-3-(Methoxymethyl)hexanal Enabled by Hydrate of Scandium Triflate; Masiuk, U. S. et al.; Symmetry, 2021, 13, 470

2020

195. Recoverable and Reusable Polymer Microbead-Supported Metal Nanocatalysts for Redox Chemical Transformations; Fernandes, A. B. et al.; ACS Appl. Nano Mater., 2020, 3, 1722-1730

196. Selective Hydrogenation of Benzofurans Using Ruthenium Nanoparticles in Lewis Acid-Modified Ruthenium-Supported Ionic Liquid Phases; El Sayed, S. et al.; ACS Catal., 2020, 10, 3, 2124-2130

197. Cyanopyrrolidine Inhibitors of Ubiquitin Specific Protease 7 Mediate Desulfhydration of the Active-Site Cysteine; Bashore, C. et al.; ACS Chem. Biol., 2020, 15(6), 1392-1400

198. Fast and Highly Selective Continuous-Flow Catalytic Hydrogenation of a Cafestol–Kahweol Mixture Obtained from Green Coffee Beans; Lima, F. A. et al.; ACS Omega, 2020, 5(40), 25712-25722

199. The influence of linkages between 1-Hydroxy-2(1H)-pyridinone Coordinating Groups and a Tris(2-aminoethyl)amine core in a novel series of synthetic Hexadentate Iron(III) Chelators on antimicrobial activity; Workman, D. G. et al.; Bioorg. Chem., 2020, 95, 103465

200. Synthesis of the tetrasaccharide repeating unit of the O-antigen from Pseudomonas putida BIM B-1100 having rare D-Quip3NAc; Bera, M. et al.; Carbohydrate Research, 2020, 489, 107955

201. Effect of unimodality and bimodality of Pd nanoparticles on the catalytic activity of Pd/SiO2 in the removal of diclofenac from water; Kowalewski, E. et al.; Cat. Comm., 2020, 143, 106056

202. Accelerating Biocatalytic Hydrogenations using the H-Cube Flow Reactor; Poznansky, B. et al.; Catalysis, 2020, Working paper

203. Stereoselective reduction of prochiral cyclic 1,3-diketones using different biocatalysts; Dall'Oglio, F. et al.; Catalysis Letters, 2020, 150, 1176-1185

204. SBA materials as support of iridium catalyst for hydrogenation reactions; Kiderys, A. et al.; Catalysis Today, 2020, 356, 178-186

205. Boosting the Performance of Nano-Ni Catalysts by Palladium Doping in Flow Hydrogenation of Sulcatone; Goszewska, I. et al.; Catalysts, 2020, 10, 1267

206. Efficient Chemo-Enzymatic Flow Synthesis of High Value Amides and Esters; Annunziata, F. et al.; Catalysts, 2020, 10(8), 939

207. Hydrogenation of Aqueous Acetic Acid over Ru-Sn/TiO2 Catalyst in a Flow-Type Reactor, Governed by Reverse Reaction; Zhao, Y. et al.; Catalysts, 2020, 10, 1270

208. Catalytically sustainable, palladium-decorated graphene oxide monoliths for synthesis in flow; Ghobadi, S. et al.; Chem. Eng. J., 2020, 381, 122598

209. Tuning Nano-Nickel Catalyst Hydrogenation Aptitude by On-the-Fly Zirconium Doping; Zienkiewicz-Machnik, M. et al.; ChemCatChem, 2020, 12, 3132-3138

210. Use of Immobilized Amine Transaminase from Vibrio fluvialis under Flow Conditions for the Synthesis of (S)-1-(5-Fluoropyrimidin-2-yl)-ethanamine; Semproli, R. et al.; ChemCatChem, 2020, 12(5), 1359-1367

211. Synthesis and structure–activity relationships of N-(4-benzamidino)-oxazolidinones–potent and selective inhibitors of kallikrein-related peptidase 6; De Vita, E. et al.; ChemMedChem, 2020, 15(1), 79-95

212. Recent Progress in Continuous-Flow Hydrogenation; Yu, T. et al.; ChemSusChem, 2020, 13(11), 2876-2893

213. Preparation of metal and metal oxide doped silica hollow spheres and the evaluation of their catalytic performance; Diacon, A. et al.; Colloid Polym. Sci., 2020, 298, 1401-1410

214. Living with our machines: Towards a more sustainable future ; Chen, Y. et al.; Curr. Op. in Green and Sus. Chem., 2020, 25, 100353

215. On the regioselectivity of the Gould–Jacobs reaction: Gas-phase versus solution-phase thermolysis; Wernik, M. et al.; Eur. J. Org. Chem., 2020, 7051-7061

216. Optimized Conditions for the Palladium-Catalyzed Hydrogenolysis of Benzyl and Naphthylmethyl Ethers: Preventing Saturation of Aromatic Protecting Groups; Crawford, C. et al.; Eur. J. Org. Chem., 2020, 3332-3337

217. Synthesis and Structural Elucidation of 1,2-Disubstituted 3-Fluoropiperidines; Fischer, P. et al.; Eur. J. Org. Chem., 2020, 2020(9), 1165-1176

218. A safe and compact flow platform for the neutralization of a mustard gas simulant with air and light; Emmanuel, N. et al.; Green Chemistry, 2020, 22, 4105-4115

219. Continuous flow synthesis of menthol via tandem cyclisation-hydrogenation of citronellal catalysed by scrap catalytic converters; Zuliani, A. et al.; Green Chemistry, 2020, 22, 379-387

220. Mechanochemical synthesis of Cu2S bonded 2D-sulfonated organic polymers: continuous production of dimethyl carbonate (DMC) via preheating of reactants; Kumar, S. et al.; Green Chemistry, 2020, 22, 5619-5627

221. Scrap waste automotive converters as efficient catalysts for the continuous-flow hydrogenations of biomass derived chemicals; Cova, C. M. et al.; Green Chemistry, 2020, 22, 1414-1423

222. Simplifying levulinic acid conversion towards a sustainable biomass valorisation; Defilippi, C. et al.; Green Chemistry, 2020, 22, 2929-2934

223. Sustainable flow approaches to active pharmaceutical ingredients; Ferlin, F. et al.; Green Chemistry, 2020, 22, 5937-5955

224. Cu-Al mixed oxide derived from layered double hydroxide as an efficient catalyst for continuous-flow reductive amination of aromatic aldehydes; Nuzhdin, A. L. et al.; J. Chem. Technol. Biotechn., 2020, 95, 3292-3299

225. Metal-free hydroxylation of tertiary ketones under intensified and scalable continuous flow conditions; Kassin, V-E. H. et al.; J. Flow Chem., 2020, 10, 167-179

226. Two step continuous-flow synthesis of benzocaine; de S. Franca, A. et al.; J. Flow Chem., 2020, 10, 563-569

227. A novel agonist of the type 1 lysophosphatidic acid receptor (LPA1), UCM-05194, shows efficacy in neuropathic pain amelioration; Zian, D. et al.; J. Med. Chem., 2020, 63(5), 2372-2390

228. Discovery of a Gut-Restricted JAK Inhibitor for the Treatment of Inflammatory Bowel Disease; Leonard, K. A. et al.; J. Med. Chem., 2020, 63(6), 2915-2929

229. Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor; Bartolini, D. et al.; J. Med. Chem., 2020, 63(7), 3701-3712

230. Novel 2,7-Diazaspiro[4,4]nonane Derivatives to Inhibit Mouse and Human Osteoclast Activities and Prevent Bone Loss in Ovariectomized Mice without Affecting Bone Formation; Mounier, L. et al.; J. Med. Chem., 2020, 63(22), 13680-13694

231. Structure-Based Drug Discovery of N-((R)-3-(7-Methyl-1H-indazol-5-yl)-1-oxo-1-(((S)-1-oxo-3-(piperidin-4-yl)-1-(4-(pyridin-4-yl)piperazin-1-yl)propan-2-yl)amino)propan-2-yl)-2′-oxo-1′,2′-dihydrospiro[piperidine-4,4′-pyrido[2,3-d][1,3]oxazine]-1-carboxamide (HTL22562): A Calcitonin Gene-Related Peptide Receptor Antagonist for Acute Treatment of Migraine; Bucknell, S. J. et al.; J. Med. Chem., 2020, 63(14), 7906-7920

232. Synthesis and Pharmacological Characterization of Conformationally Restricted Retigabine Analogues as Novel Neuronal Kv7 Channel Activators; Ostacolo, C. et al.; J. Med. Chem., 2020, 63(1), 163-185

233. Targeting Her2-insYVMA with Covalent Inhibitors—A Focused Compound Screening and Structure-Based Design Approach; Lategahn, J. et al.; J. Med. Chem., 2020, 63(20), 11725-11755

234. Flow hydrogenation of 5-acetoxymethylfurfural over Cu-based catalysts; Nuzhdin, A. L. et al.; Mol. Cat., 2020, 494, 111132

235. The Current Role of Microfluidics in Radiofluorination Chemistry; Knapp, K-A. et al.; Mol. Imaging Biol., 2020, 22, 463-475

236. Flow Synthesis of Biologically-Relevant Compound Libraries; Navarro, P. M. L. et al.; Molecules, 2020, 25, 909

237. N-Acetylation of Amines in Continuous-Flow with Acetonitrile—No Need for Hazardous and Toxic Carboxylic Acid Derivatives; Orsy, G. et al.; Molecules, 2020, 25, 1985

238. Syntheses and Reactions of Pyrroline, Piperidine Nitroxide Phosphonates; Isbera, M. et al.; Molecules, 2020, 25, 2430

239. Two-Step One-Pot Reductive Amination of Furanic Aldehydes Using CuAlOx Catalyst in a Flow Reactor; Nuzhdin, A. L. et al.; Molecules, 2020, 25, 4771

240. A novel pathway for the thermolysis of N-nitrosoanthranilates using flash vacuum pyrolysis leading to 7-aminophthalides; Zlatkovic, D. et al.; Org. Biomol. Chem., 2020, 18, 8371-8375

241. Bifunctional thiourea-modified polymers of intrinsic microporosity for enantioselective α-amination of 3-aryl-2-oxindoles in batch and flow conditions; Martin, L. et al.; Org. Biomol. Chem., 2020, 18, 9275-9283

242. Evaluation and Screening of Spherical Pd/C for Use as a Catalyst in Pharmaceutical-Scale Continuous Hydrogenations; Fernandez-Puertas, E. et al.; Org. Process Res. Dev., 2020, 24(10), 2147-2156

243. Evaluation of Sponge Metal Catalysts in a Trickle Bed Reactor for the Continuous Hydrogenation of an Aliphatic Nitro Intermediate; Carangio, A. et al.; Org. Process Res. Dev., 2020, 24(10), 1909-1919

244. A streamlined synthesis of the neurosteroid 3β-methoxypregnenolone assisted by a statistical experimental design and automation; Mancino, V. et al.; React. Chem. Eng., 2020, 5, 300-307

245. Beyond electrolysis: old challenges and new concepts of electricity-driven chemical reactors; Nigar, H. et al.; React. Chem. Eng., 2020, 5, 1005

246. Scalable and robust photochemical flow process towards small spherical gold nanoparticles; Bianchi, P. et al.; React. Chem. Eng., 2020, 5, 1224-1236

247. Identification of a new cannabidiol n-hexyl homolog in a medicinal cannabis variety with an antinociceptive activity in mice: cannabidihexol; Linciano, P. et al.; Sci. Rep., 2020, 10, 22019

248. Synthesis of bioderived cinnolines and their flow-based conversion into 1,4-dihydrocinnoline derivatives; Devlin, J. et al.; Synlett, 2020, 31(5), 487-491

2019

249. Continuous Flow Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran using highly active and stable Cu-Pd/Reduced Graphene Oxide; Mhadmhan, S. et al.; ACS Sustainable Chem. Eng., 2019, 7(16), 14210-14216

250. In Situ Sulfidation of Pd/C: A Straightforward Method for Chemoselective Conjugate Reduction by Continuous Hydrogenation; Moore, J .C. et al.; ACS Sustainable Chem. Eng., 2019, 7(19), 16814-16819

251. Multistep Solvent-Free 3 m2 Footprint Pilot Miniplant for the Synthesis of Annual Half-Ton Rufinamide Precursor; Escriba-Gelonch, M. et al.; ACS Sustainable Chem. Eng., 2019, 7(20), 17237-17251

252. Tunability and scalability of single-atom catalysts based on carbon nitride; Chen, Z. et al.; ACS Sustainable Chem. Eng., 2019, 7(5), 5223-5230

253. Batch and flow hydrotreatment of water contaminated by trichloroethylene on active carbon supported nickel catalysts; Kaminska, I. I. et al.; Applied Catal. A: General, 2019, 582, 117110

254. Chemical synthesis of the pentasaccharide repeating unit of the O-specific polysaccharide from Escherichia coli O132 in the form of its 2-aminoethyl glycoside; Pal, D. et al.; Beilstein J. Org. Chem., 2019, 15, 2563-2568

255. Design and synthesis of multivalent α-1,2-trimannose-linked bioerodible microparticles for applications in immune response studies of Leishmania major infection; Rintelmann, C. L. et al.; Beilstein J. Org. Chem., 2019, 15, 623-632

256. Nanocubes of Palladium, Simple, Green Approach and Catalytic Properties Under Continuous Hydrogenation System; Bharate, B. G. et al.; Biomed. J. Sci. Techn. Res., 2019, 19(5), 14672-14675

257. A versatile de novo synthesis of legionaminic acid and 4-epi-legionaminic acid starting from D-serine; Gintner, M. et al.; Carbohydrate Research, 2019, 474, 34-42

258. Chemical synthesis of the 4-amino-4,6-dideoxy-d-glucose containing pentasaccharide repeating unit of the O-specific polysaccharide from Aeromonas hydrophila strain K691 in the form of its 2-aminoethyl glycoside; Adak, A. et al.; Carbohydrate Research, 2019, 476, 1-7

259. Concise chemical synthesis of the pentasaccharide repeating unit of the O-antigen from Escherichia albertii O2; Bera, M. et al.; Carbohydrate Research, 2019, 485, 107817

260. Improving Productivity of Multiphase Flow Aerobic Oxidation Using a Tube-in-Tube Membrane Contactor; Burkholder, M. et al.; Catalysts, 2019, 9(1), 95

261. Flow-chemistry enabled efficient synthesis of β-peptides: backbone topology vs. helix formation; Fulop, F. et al.; Chem. Commun., 2019, 55, 3061-3064

262. Assignment of vibrational circular dichroism cross-referenced electronic circular dichroism spectra of flexible foldamer building blocks: Towards assigning pure chiroptical properties of foldamers; Farkas, V. et al.; Chem. Eur. J., 2019, 25(65), 14890-14900

263. Reductive Amination in the Synthesis of Pharmaceuticals; Afanasyev, O. I. et al.; Chem. Rev., 2019, 119(23), 11857-11911

264. Multigram-scale flow synthesis of the chiral key intermediate of (−)-paroxetine enabled by solvent-free heterogeneous organocatalysis; Otvos, S. B. et al.; Chem. Sci., 2019, 10, 11141-11146

265. Tailoring Nitrogen-Doped Carbons as Hosts for Single-Atom Catalysts; Buchele, S. et al.; ChemCatChem, 2019, 11, 12, 2812-2820

266. Atomic Cu on nanodiamond-based sp2/sp3 hybrid nanostructures for selective hydrogenation of phenylacetylene; Sun, Y. et al.; Chemical Physics Letters, 2019, 723, 39-43

267. Synthesis and cytotoxicity of octahydroepoxyisoindole-7-carboxylic acids and norcantharidin-amide hybrids as norcantharidin analogues; Hizartzidis, L. et al.; ChemMedChem, 2019, 14(12), 1152-1162

268. Continuous-flow hydrogenation and reductive deuteration of nitriles: a simple access to α,α-dideutero amines; Meszaros, R. et al.; ChemPlusChem, 2019, 84(10), 1508-1511

269. Biorefinery via Achmatowicz Rearrangement: Synthesis of Pentane-1,2,5-triol from Furfuryl Alcohol; Ravutsov, M. A. et al.; ChemSusChem, 2019, 12(12), 2748-2754

270. Convergent synthesis of the hexasaccharide repeating unit of the O-antigenic OPS of Escherichia coli O133; Mitra, A. et al.; Eur. J. Org. Chem., 2019, 2019(30), 4869-4878

271. Flow chemistry: Towards a more sustainable heterocyclic synthesis; Brandao, P. et al.; Eur. J. Org. Chem., 2019, 2019(43), 7188-7217

272. Scalable and straightforward synthesis of all isomeric (cyclo)alkylpiperidines; Subota, A. I. et al.; Eur. J. Org. Chem., 2019, 2019(22), 3636-3648

273. Continuous Flow Synthesis of High Valuable N-Heterocycles via Catalytic Conversion of Levulinic Acid; Rodriguez-Padron, D. et al.; Front. Chem., 2019, 7, 103

274. Continuous flow synthesis of amines from the cascade reactions of nitriles and carbonyl-containing compounds promoted by Pt-modified titania catalysts; Altug, C. et al.; Green Chemistry, 2019, 21, 300-306

275. Continuous-flow catalytic deuterodehalogenation carried out in propylene carbonate; Mandity, I. M. et al.; Green Chemistry, 2019, 21, 956-961

276. Efficient Ru-based scrap waste automotive converter catalysts for the continuous-flow selective hydrogenation of cinnamaldehyde; Cova, C. M. et al.; Green Chemistry, 2019, 21, 4712-4722

277. Fast continuous alcohol amination employing a hydrogen borrowing protocol; Labes, R. et al.; Green Chemistry, 2019, 21, 59-63

278. Valorization of humins-extracted 5-methoxymethylfurfural: Toward high added value furanics via continuous flow catalytic hydrogenation; Pfab, E. et al.; Ind. Eng. Chem. Res., 2019, 58, 35, 16065-16070

279. endo-Hydroxamic Acid Monomers for the Assembly of a Suite of Non-native Dimeric Macrocyclic Siderophores Using Metal Templated Synthesis; Brown, C. J. M. et al.; Inorg. Chem., 2019, 58, 20, 13591-13603

280. Iridium(I)-NHC-phosphine complex-catalyzed hydrogen generation and storage in aqueous formate/bicarbonate solutions using a flow reactor - Effective response to changes in hydrogen demand; Papp, G. et al.; Int. J. Hydrogen Energy, 2019, 44(53), 28527-28532

281. Less Cytotoxic Protoflavones as Antiviral Agents: Protoapigenone 1'-O-isopropyl ether Shows Improved Selectivity Against the Epstein–Barr Virus Lytic Cycle; Vagvolgyi, M. et al.; Int. J. Mol. Sci., 2019, 20, 6269

282. Diastereoselective synthesis of cis-N-Boc-4-aminocyclohexanol with reductive ring opening method using continuous flow; Szabo, B. et al.; J. Flow Chem., 2019, 9, 13-17

283. 4-(3-Aminoazetidin-1-yl)pyrimidin-2-amines as High-Affinity Non-imidazole Histamine H3 Receptor Agonists with in Vivo Central Nervous System Activity; Wagner, G. et al.; J. Med. Chem., 2019, 62(23), 10848-10866

284. A Comparative Assessment Study of Known Small-Molecule Keap1−Nrf2 Protein–Protein Interaction Inhibitors: Chemical Synthesis, Binding Properties, and Cellular Activity; Tran, K. T. et al.; J. Med. Chem., 2019, 62(17), 8028-8052

285. Discovery of a novel chemotype of histone lysine methyltransferase EHMT1/2 (GLP/G9a) inhibitors: rational design, synthesis, biological evaluation and co-crystal structure; Milite, C. et al.; J. Med. Chem., 2019, 62(5), 2666-2689

286. Discovery of Evobrutinib: An Oral, Potent, and Highly Selective, Covalent Bruton's Tyrosine Kinase (BTK) Inhibitor for the Treatment of Immunological Diseases; Caldwell, R. D. et al.; J. Med. Chem., 2019, 62(17), 7643-7655

287. Emerging Trends in Flow Chemistry and Applications to the Pharmaceutical Industry; Dombrowski, A. W. et al.; J. Med. Chem., 2019, 62(14), 6422-6468

288. Identification of Mineralocorticoid Receptor Modulators with Low Impact on Electrolyte Homeostasis but Maintained Organ Protection; Yuan, Z. Q. et al.; J. Med. Chem., 2019, 62(3), 1385-1406

289. Topographical mapping of isoform-selectivity determinants for J-channel-binding inhibitors of sphingosine kinases 1 and 2; Adams, D. R. et al.; J. Med. Chem., 2019, 62(7), 3658-3676

290. The titanium-mediated double reductive cleavage of cyclic sulfonamides for the synthesis of aryl pyrrolidines; Khalifa, A. et al.; J. Org. Chem., 2019, 84(5), 2969-2975

291. Synthesis of an undecasaccharide featuring an oligomannosidic heptasaccharide and a bacterial Kdo-lipid A backbone for eliciting neutralizing antibodies to mammalian oligomannose on the HIV-1 envelope spike; Trattnig, N. et al.; JACS, 2019, 141(19), 7946-7954

292. Cobalt-doped magnesium fluoride as a support for platinum catalysts: The correlation of surface acidity with hydrogenation activity; Zielinski, M. et al.; Journal of Catalysis, 2019, 378, 298-311

293. Continuous-Flow Synthesis of Thermochromic M-Phase VO2 Particles via Rapid One-Step Hydrothermal Reaction: Effect of Mixers; Yan, X. et al.; Journal of Nanomaterials, 2019, 2019, 2570698

294. Pyrazole and imidazo[1,2-b]pyrazole Derivatives as New Potential Anti-tuberculosis Agents; Meta, E. et al.; Med. Chem., 2019, 15(1), 17-27

295. 4b,5,6,9-Tetrahydro-7H-dibenzo[c,e]pyrrolo[1,2-a]azepin-7-one; Boichenko, M. A. et al.; Molbank, 2019, 2019, M1061

296. Continuous flow conversion of alkyl levulinates into γ-valerolactone in the presence of Ru/C as catalyst; Zhao, D. et al.; Molecular Catalysis, 2019, 475, 110456

297. Continuous flow transfer hydrogenation of biomass derived methyl levulinate over Zr containing zeolites: Insights into the role of the catalyst acidity; Cabanillas, M. et al.; Molecular Catalysis, 2019, 477, 110522

298. Reconstruction of humins formation mechanism from decomposition products: A GC-MS study based on catalytic continuous flow depolymerizations; Filiciotto, L. et al.; Molecular Catalysis, 2019, 479, 110564

299. Continuous-flow protocol for the synthesis of enantiomerically pure intermediates of anti epilepsy and anti tuberculosis active pharmaceutical ingredients; Aquiar, R. et al.; Org. Biomol. Chem., 2019, 17, 1552-1557

300. Visible-light-mediated iodoperfluoroalkylation of alkenes in flow and its application to the synthesis of a key Fulvestrant intermediate; Rosso, C. et al.; Org. Lett., 2019, 21(13), 5341-5345

301. Telescoped Sequence of Exothermic and Endothermic Reactions in Multistep Flow Synthesis; Sharma, Y. et al.; Org. Process Res. Dev., 2019, 23, 2, 170-176

302. A Warburg effect targeting vector designed to increase the uptake of compounds by cancer cells demonstrates glucose and hypoxia dependent uptake; Glenister, A. et al.; PLoS One, 2019, 14(7), e0217712

303. Adaptive and automated system-optimization for heterogeneous flow-hydrogenation reactions; Fabry, D. C. et al.; React. Chem. Eng., 2019, 4, 1486-1491

304. Flow-oriented synthetic design in the continuous preparation of the aryl piperazine drug flibanserin; Szigetvari, A. et al.; React. Chem. Eng., 2019, 4, 652-657

305. Landscape and opportunities for active pharmaceutical ingredient manufacturing in developing African economies ; Riley, D. et al.; React. Chem. Eng., 2019, 4, 457-489

306. Amino-Modified Silica-Supported Copper-Palladium Alloy. Synthesis and Use in Selective Hydrogenation of Disubstituted Nitroarenes in a Flow Micro Reactor; Nurmukhametova, A. T. et al.; Russian J. Org. Chem., 2019, 55, 1-6

307. Aqueous flow hydroxycarbonylation of aryl halides catalyzed by an amphiphilic polymer-supported palladium–diphenylphosphine catalyst; Osako, T. et al.; Synlett, 2019, 30, 961-966

308. Catalytic Hydrogenolysis of Substituted Diaryl Ethers by Using Ruthenium Nanoparticles on an Acidic Supported Ionic Liquid Phase (Ru@SILP-SO3H); Rengshausen, S. et al.; Synlett, 2019, 30(4), 405-412

309. Asymmetric Organocatalytic Michael Addition–Cyclisation Cascade of Cyclopentane-1,2-dione with Alkylidene Malononitriles; Silm, E. et al.; Synthesis, 2019, 51, A-G

310. Diastereoselective [2,3]-Sigmatropic Rearrangement of N-Allyl Ammonium Ylides; Murre, A,. et al.; Synthesis, 2019, 51(22), 4183-4197

311. Evaluation of bifunctional chiral phosphine oxide catalysts for the asymmetric hydrosilylation of ketimines; Warner, C. J. A. et al.; Tetrahedron, 2019, 75(50), 130733

312. Scale-up synthesis of a deuterium-labeled cis-cyclobutane-1,3-Dicarboxylic acid derivative using continuous photo flow chemistry; Yamashita, T. et al.; Tetrahedron, 2019, 75, 617-623

313. Application of deuterated THENA for assigning the absolute configuration of chiral secondary alcohols; Soponpong, J. et al.; Tetrahedron Letters, 2019, 60(6), 497-500

314. Features of oxa-bridge cleavage in hexahydro-3a,6-epoxyisoindol-1(4H)-ones: A concise method to access acetylisoindolones possessing anti-viral activity; Mertsalov, D. F. et al.; Tetrahedron Letters, 2019, 60(43), 151204

315. My Twenty Years in Microwave Chemistry: From Kitchen Ovens to Microwaves that aren't Microwaves; Kappe, C. O. et al.; The Chemical Record, 2019, 19(1), 15-39

2018

316. Benign-by-Design Orange Peel-Templated Nanocatalysts for Continuous Flow Conversion of Levulinic Acid to N-Heterocycles; Rodriguez-Padron, D. et al.; ACS Sustainable Chem. Eng., 2018, 6(12), 16637-16644

317. Comparative Study of Supported Monometallic Catalysts in the Liquid-Phase Hydrogenation of Furfural: Batch Versus Continuous Flow; Wang, Y. et al.; ACS Sustainable Chem. Eng., 2018, 6, 8, 9831-9844

318. Continuous Flow Alcoholysis of Furfuryl Alcohol to Alkyl Levulinates Using Zeolites; Zhao, D. et al.; ACS Sustainable Chem. Eng., 2018, 6(5), 6901-6909

319. Continuous Flow Conversion of Biomass-Derived Methyl Levulinate into γ-Valerolactone Using Functional Metal Organic Frameworks; Ouyang, W. et al.; ACS Sustainable Chem. Eng., 2018, 6(5), 6746-6752

320. Chemoselective Flow Hydrogenation Approaches to Diversify the Cytotoxic Tetrahydroepoxyisoindole Carboxamide Scaffold; Spare, L. K. et al.; Adv. Synth. Catal., 2018, 360(6), 1209-1217

321. Covalently immobilized Trp60Cys mutant of ω-transaminase from Chromobacterium violaceum for kinetic resolution of racemic amines in batch and continuous-flow modes; Abahazi, E. et al.; Biochem. Eng. J., 2018, 132, 270-278

322. Aminoadamantanes containing monoterpene-derived fragments as potent tyrosyl-DNA phosphodiesterase 1 inhibitor; Ponomarev, K. Yu. et al.; Bioorg. Chem., 2018, 392-399

323. Design and synthesis of a potent, highly selective, orally bioavailable, retinoic acid receptor alpha agonist; Clarke, E. et al.; Bioorg. Med. Chem., 2018, 26, 798-814

324. Trisubstituted thiazoles as potent and selective inhibitors of Plasmodium falciparum protein kinase G (PfPKG); Birchall, K. et al.; Bioorg. Med. Chem. Lett., 2018, 28(19), 3168-3173

325. Synthesis of the tetrasaccharide related to the repeating unit of the O-antigen from Azospirillum brasilense Jm125A2 in the form of its 2-aminoethyl glycoside; Sarkar, V. et al.; Carbohydrate Research, 2018, 470, 13-18

326. Pd-P Nanoalloys Supported on Porous Carbon Frame as Efficient Catalyst for Benzyl Alcohol Oxidation; Guo, W. et al.; Catal. Sci. Technol., 2018, 8, 2333-2339

327. Continuous flow (micro-)reactors for heterogeneously catalyzed reactions: Main design and modelling issues; Rossetti, I. et al.; Catalysis Today, 2018, 308, 20-31

328. Metathesis of cardanol over ammonium tagged Hoveyda-Grubbs type catalyst supported on SBA-15; Zilkova, N. et al.; Catalysis Today, 2018, 304, 127-134

329. Towards industrial furfural conversion: Selectivity and stability of palladium and platinum catalysts under continuous flow regime; Ouyang, W. et al.; Catalysis Today, 2018, 308, 32-37

330. Tuning nano-nickel selectivity with tin in flow hydrogenation of 6-methyl-5-hepten-2-one by surface organometallic chemistry modification; Zienkiewicz-Machnik, M. et al.; Catalysis Today, 2018, 308, 38-44

331. Nucleophilic Dearomatization of Activated Pyridines; Bertuzzi G. et al.; Catalysts, 2018, 8, 632

332. Peptide Synthesis Utilizing Micro-Flow Technology; Otake, Y. et al.; Chem. Asian J., 2018, 13(24), 3818-3832

333. Treatments of lignocellulosic hydrolysates and continuous-flow hydrogenation of xylose to xylitol; Feher, A. et al.; Chem. Eng. Technol., 2018, 41(3), 496-503

334. Generation of Polar Semi-Saturated Bicyclic Pyrazoles for Fragment-Based Drug Discovery Campaigns; Luise, N. et al.; Chem. Eur. J., 2018, 24(41), 10443-10451

335. Pd nanoparticles on carbon layer wrapped 3D TiO_2 as efficient catalyst for selective oxidation of benzyl alcohol; Wu, Y. et al.; Chem. Phys. Lett., 2018, 712, 149-154

336. Continuous flow biocatalysis; Britton, J. et al.; Chem. Soc. Rev., 2018, 47, 5891-5918

337. Additive Manufacturing Technologies: 3D Printing in Organic Synthesis; Rossi, S. et al.; ChemCatChem, 2018, 10(7), 1512-1525

338. Batch versus Continuous Flow Performance of Supported Mono- and Bimetallic Nickel Catalysts for Catalytic Transfer Hydrogenation of Furfural in Isopropanol; Wang, Y. et al.; ChemCatChem, 2018, 10(16), 3459-2468

339. Continuous-flow Pd-catalyzed Carbonylation of Aryl Chlorides with Carbon Monoxide at Elevated Temperature and Pressure; Mata, A. et al.; ChemCatChem, 2018, 11(3), 997-1001

340. Ensemble Design in Nickel Phosphide Catalysts for Alkyne Semi-Hydrogenation; Albani, D. et al.; ChemCatChem, 2018, 11(1), 457-464

341. On-the-fly Catalyst Accretion and Screening in Chemoselective Flow Hydrogenation; Gizinski, D. et al.; ChemCatChem, 2018, 10(17), 3641-3646

342. Chiral auxiliary recycling in continuous flow: automated recovery and reuse of Oppolzer's sultam; Sullivan, R. J. et al.; Chemical Science, 2018, 9, 2130-2134

343. Methods for the synthesis of indole-3-carboxylic acid esters (microreview); Litvinova, V. A. et al.; Chemistry of Heterocyclic Compounds, 2018, 54, 923-925

344. Use of Glycosyl Dithiocarbamates: Small Molecule 'Turn-on' Fluorescent Probe for Carbohydrate Binding Proteins; Das, R. et al.; Chemistry Select, 2018, 3, 648-652

345. Synthesis of Nontoxic Protoflavone Derivatives through Selective Continuous-Flow Hydrogenation of the Flavonoid B-Ring; Otvos, S. B. et al.; ChemPlusChem, 2018, 83(2), 72-76

346. Yolk-shell-mesostructured silica-supported dual molecular catalyst for enantioselective tandem reactions; Lin, J. et al.; ChemPlusChem, 2018, 83(9), 861-867

347. Highly active catalytic Ru/TiO_2 nanomaterials for continuous production of γ-valerolactone; Xu, C. et al.; ChemSusChem, 2018, 11, 2604-2611

348. A Novel One-pot Benzimidazole Ring Formation via a Continuous Flow Selective Reductive Cyclization Method; Szabo, B. et al.; Curr. Org. Chem., 2018, 22(19), 1940-1944

349. Development of Alkyl Glycerone Phosphate Synthase Inhibitors: Structure-Activity Relationship and Effects on Ether Lipids and Epithelial-Mesenchymal Transition in Cancer Cells; Stazi, G. et al.; Eur. J. Med. Chem., 2018, 163, 722-735

350. A Continuous Flow Strategy for the Facile Synthesis and Elaboration of Semi-Saturated Heterobicyclic Fragments; Luise, N. et al.; Eur. J. Org. Chem., 2018, 2019(6), 1341-1349

351. Approaches to Pyranuronic β-Sugar Amino Acid Building Blocks of Peptidosaccharide Foldamers; Goldschmidt-Goz, V. et al.; Eur. J. Org. Chem., 2018, 355-361

352. Continuous Flow Organic Chemistry: Successes and Pitfalls at the Interface with Current Societal Challenges; Gerardy, R. et al.; Eur. J. Org. Chem., 2018, 2301-2351

353. Continuous Flow retro-Diels-Alder Reaction: A Novel Process Window for Designing New Heterocyclic Scaffolds; Nekkaa, I. et al.; Eur. J. Org. Chem., 2018, 2018(32), 4456-4464

354. Tyrosinases in Organic Chemistry: A Versatile Tool for the α-Arylation of β-Dicarbonyl Compounds; Krug, R. et al.; Eur. J. Org. Chem., 2018, 1789-1796

355. A versatile biobased continuous flow strategy for the production of 3-butene-1,2-diol and vinyl ethylene carbonate from erythritol; Tshibalonza, N. N. et al.; Green Chemistry, 2018, 20, 5147-5157

356. Controlled photo-flow oxidative reaction (UV-FOR) platform for ultra-fast phthalides and API synthesis; Aand, D. et al.; Green Chemistry, 2018, 20, 4584-4590

357. Aiming to Miss a Moving Target: Bromo and Extra Terminal Domain (BET) Selectivity in Constrained ATAD2 Inhibitors; Bamborough, P. et al.; J. Med. Chem., 2018, 18, 8321-8336

358. Development of a Novel Human Parathyroid Hormone Receptor 1 (hPTHR1) Agonist (CH5447240), a Potent and Orally Available Small Molecule for Treatment of Hypoparathyroidism; Esaki, T. et al.; J. Med. Chem., 2018, 61, 5949-5962

359. Doping carbon networks with phosphorus for supporting Pd in catalyzing selective oxidation of benzyl alcohol; Guo, W. et al.; J. Nanopart. Res., 2018, 20, 180

360. Aqueous Asymmetric 1,4-Addition of Arylboronic Acids to Enones Catalyzed by an Amphiphilic Resin-Supported Chiral Diene Rhodium Complex under Batch and Continuous-Flow Conditions; Shen, G. et al.; J. Org. Chem., 2018, 83, 7380-7387

361. Lewis Acid Triggered Vinylcyclopropane-Cyclopentene Rearrangement; Ivanova, O. A. et al.; J. Org. Chem., 2018, 83, 543-560

362. Synthetic Access to Noncanonical Strigolactones: Syntheses of Carlactonic Acid and Methyl Carlactonoate; Dieckmann, M. C. et al.; J. Org. Chem., 2018, 83, 125-135

363. Comparative study on the liquid chromatographic enantioseparation of cyclic β-amino acids and the related cyclic β-aminohydroxamic acids on Cinchona alkaloid-based zwitterionic chiral stationary phases; Bajtai, A. et al.; J. Sep. Sci., 2018, 41, 1216-1223

364. Nickel-Catalyzed Reductive [2+2] Cycloaddition of Alkynes; Canellas, S. et al.; JACS, 2018, 140(50), 17349-17355

365. One-Pot Synthesis of Secondary Amines from Nitroarenes and Aldehydes on Supported Copper Catalysts in a Flow Reactor: The Effect of the Support; Artiukha, E. A. et al.; Kinetics and Catalysis, 2018, 59, 593-600

366. Continuous Flow Fabrication of Block Copolymer-Grafted Silica Micro-Particles in Environmentally Friendly Water/Ethanol Media; Ye, P. et al.; Macromolecular Materials and Engineering, 2018, 1800451

367. Immobilized phosphine-phosphite rhodium complexes: highly active and enantioselective catalysts for asymmetric hydrogenation under continuous flow conditions; Madarasz, J. et al.; Monatsh. Chem., 2018, 149, 19-25

368. Polysaccharides from Burkholderia species as targets for vaccine development, immunomodulation and chemical synthesis; Cloutier, M. et al.; Nat. Prod. Rep., 2018, 35, 1251-1293

369. Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds; Chen, Z. et al.; National Science Review, 2018, 5, 642-652

370. Selective ensembles in supported palladium sulfide nanoparticles for alkyne semi-hydrogenation; Albani, D. et al.; Nature Communications, 2018, 9, article number: 2634

371. Click 1,2,3-triazole derived fluorescent scaffold by mesoionic carbene-nitrene cyclization: an experimental and theoretical study; Bouchemella, K. et al.; New Journal of Chemistry, 2018, 42, 18969

372. Hydrogenation of nitroarenes to anilines in a flow reactor using polystyrene supported rhodium in a catalyst-cartridge (Cart-Rh@PS); Sharma, S. et al.; New Journal of Chemistry, 2018, 43, 1764-1769

373. The dual reactivity of Weinreb amides applied to the late-stage divergent functionalisation of meso pyrrolidines; Boufroura, H. et al.; New Journal of Chemistry, 2018, 42, 12403-12411

374. The renascence of continuous-flow peptide synthesis - an abridged account of solid and solution-based approaches; Gordon, C. P. et al.; Org. Biomol. Chem., 2018, 16, 180-196

375. Prodrugs for colon-restricted delivery: Design, synthesis, and in vivo evaluation of colony stimulating factor 1 receptor (CSF1R) inhibitors; Huntley, R. J. et al.; PLoS One, 2018, 13(9), e0203567

376. Catalytic oxidation of aqueous bioethanol: an efficient upgrade from batch to flow; Mostrou, S. et al.; React. Chem. Eng., 2018, 3, 781-789

377. An effective synthesis of polynuclear tetraamines, monomers for polyheteroarylenes; Begunov, R. S. et al.; Russian Chemical Bulletin, 2018, 67, 1072-1077

378. New copper-containing catalysts based on modified amorphous silica and their use in flow azide-alkyne cycloaddition; Nurmukhametova, A. N. et al.; Russian Chemical Bulletin, 2018, 67, 461-468

379. A 'Turn-on' Fluorescence Glycosyl Dithiocarbamate Probe for Selective Fluoride Sensing in Aqueous Medium; Das, R. et al.; Synlett, 2018, 29(15), 2001-2005

380. A Continuous-Flow, Two-Step, Metal-Free Process for the Synthesis of Differently Substituted Chiral 1,2-Diamino Derivatives; Pirola, M. et al.; Synthesis, 2018, 50, 1430-1438

381. Approaches for Performing Reductions under Continuous-Flow Conditions; Neyt, N. C. et al.; Synthesis, 2018, 50(14), 2707-2720

382. Continuous-Flow Reductive Alkylation: Synthesis of Bio-based Symmetrical and Disymmetrical Ethers; Bruniaux. S. et al.; Synthesis, 2018, 50, 1849-1856

383. A structure-based design approach to advance the allyltyrosine-based series of HIV integrase inhibitors; Dalton, N. et al.; Tetrahedron, 2018, 74, 1253-1268

384. Flow fine synthesis with heterogeneous catalysts; Masuda, K. et al.; Tetrahedron, 2018, 74, 1705-1730

385. Studies on the synthesis of the lasubine alkaloids; Aslam, N. F. M. et al.; Tetrahedron, 2018, 74, 5032-5039

386. Substrate engineering: Effects of different N-protecting groups in the CAL-B-catalysed asymmetric O-acylation of 1-hydroxymethyltetrahydro-β-carbolines; Megyesi, R. et al.; Tetrahedron, 2018, 74, 2634-2640

387. A concise stereoselective synthesis of pterosin B; Dexter, H. R. et al.; Tetrahedron Letters, 2018, 59, 4323-4325

2017

388. Chemoselective Continuous-Flow Hydrogenation of Aldehydes Catalyzed by Platinum Nanoparticles Dispersed in an Amphiphilic Resin; Osako, T. et al.; ACS Catal., 2017, 7, 7371-7377

389. Silica-Immobilized NHC-Gold(I) Complexes: Versatile Catalysts for the Functionalization of Alkynes under Batch and Continuous Flow Conditions; Sarmiento, J. T. et al.; ACS Catal., 2017, 7(10), 7146-7155

390. Small-Molecule Inhibitors of the NusB-NusE Protein-Protein Interaction with Antibiotic Activity; Cossar, P. J. et al.; ACS Omega, 2017, 2, 3839-3857

391. Batch and Continuous-Flow Huisgen 1,3-Dipolar Cycloadditions with an Amphiphilic Resin-Supported Triazine-Based Polyethyleneamine Dendrimer Copper Catalyst; Pan, S. et al.; ACS Sustainable Chem. Eng., 2017, 5, 10722-10734

392. Highly Selective Hydrogenation of R-(+)-Limonene to (+)-p-1-Menthene in Batch and Continuous Flow Reactors; Rubulotta, G. et al.; ACS Sustainable Chem. Eng., 2017, 5, 3762-3767

393. Stabilization of Single Metal Atoms on Graphitic Carbon Nitride; Chen, Z. et al.; Adv. Funct. Mater., 2017, 27, 1605785

394. Flow chemistry - Microreaction technology comes of age; Jensen, K. F. et al.; AIChE J., 2017, 63, 858-869

395. Turbostratic carbon supported palladium as an efficient catalyst for reductive purification of water from trichloroethylene; Kowalewski, E. et al.; AIMS Mat. Sci., 2017, 4, 1276-1288

396. C-3 epimers of sugar amino acids as foldameric building blocks: improved synthesis, useful derivatives, coupling strategies; Nagy, A. et al.; Amino Acids, 2017, 49(2), 223-240

397. Continuous Synthesis and Purification by Coupling a Multistep Flow Reaction with Centrifugal Partition Chromatography; Orkenyi, R. et al.; Angew. Chem. Int. Ed., 2017, 129, 8868-8871

398. Stereoselective Catalytic Synthesis of Active Pharmaceutical Ingredients in Homemade 3D-Printed Mesoreactors; Rossi, S. et al.; Angew. Chem. Int. Ed., 2017, 129, 4354-4358

399. Design and Scaling Up of Microchemical Systems: A Review; Zhang, J. et al.; Ann. Rev. Chem. Biomol. Eng., 2017, 8, 285-305

400. A concise flow synthesis of indole-3-carboxylic ester and its derivatisation to an auxin mimic; Baumann, M. et al.; Beilstein J. Org. Chem., 2017, 13, 2549-2560

401. Automating multistep flow synthesis: approach and challenges in integrating chemistry, machines and logic; Shukla, C. A. et al.; Beilstein J. Org. Chem., 2017, 13, 960-987

402. Continuous-flow processes for the catalytic partial hydrogenation reaction of alkynes; Moreno-Marrodan, C. et al.; Beilstein J. Org. Chem., 2017, 13, 734-754

403. A stereoselective, catalytic strategy for the in-flow synthesis of advanced precursors of rasagiline and tamsulosin; Brenna, D. et al.; Bioorg. Med. Chem., 2017, 25, 6242-6247

404. Discovery of a series of 8-(1-phenylpyrrolidin-2-yl)-6-carboxamide-2-morpholino-4H-chromen-4-one as PI3Kβ/δ inhibitors for the treatment of PTEN-deficient tumours; Cosulich, S. et al.; Bioorg. Med. Chem. Lett., 2017, 1949-1954

405. Identification and validation of small molecule modulators of the NusB-NusE interaction; Cossar, P. J. et al.; Bioorg. Med. Chem. Lett., 2017, 27(2), 162-167

406. Study of Catalyst Deactivation in Liquid-Phase Hydrogenation of 3-Nitrostyrene Over Au/Al_2O^3 Catalyst in Flow Reactor; Reshetnikov, S. I. et al.; Catal. Lett., 2017, 147, 572-580

407. Nanosized palladium on phosphorus-incorporated porous carbon frameworks for enhanced selective phenylacetylene hydrogenation; Yu, W. et al.; Catal. Sci. Technol., 2017, 7, 4934-4939

408. A novel nano-palladium catalyst for continuous-flow chemoselective hydrogenation reactions; Goszewska, I. et al.; Catalysis Communications, 2017, 94, 65-68

409. Chemoselective flow hydrogenation of α,β-Unsaturated aldehyde with nano-nickel; Gizinski, D. et al.; Catalysis Communications, 2017, 98, 17-21

410. p-Nitrophenol flow hydrogenation with nano-Cu_2O grafted on polymeric resin; Paun, C. et al.; Catalysis Communications, 2017, 92, 61-64

411. Synthesis of secondary amines by reductive amination of aldehydes with nitroarenes over supported copper catalysts in a flow reactor; Artiukha, E. A. et al.; Catalysis Communications, 2017, 102, 108-113

412. Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling in Continuous Flow; Bruniaux. S. et al.; Catalysts, 2017, 7, 146-169

413. A Short Total Synthesis of (±)-γ-Lycorane by a Sequential Intramolecular Acylal Cyclisation (IAC) and Intramolecular Heck Addition Reaction; Monaco, A. et al.; Chem. Eur. J., 2017, 23, 4750-4755

414. Development of a Nucleotide Exchange Inhibitor That Impairs Ras Oncogenic Signaling; Marin-Ramos, N. I. et al.; Chem. Eur. J., 2017, 1676-1685

415. Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH-π Stacking Interactions by Different Fluorination Patterns; Unione, L. et al.; Chem. Eur. J., 2017, 23, 3957-3965

416. Recent Development of Palladium-Supported Catalysts for Chemoselective Hydrogenation; Monguchi, Y. et al.; Chem. Pharm. Bull., 2017, 65, 2-9

417. The Hitchhiker's Guide to Flow Chemistry; Plutschack, M. B. et al.; Chem. Rev., 2017, 117(18), 11796-11893

418. Multi-step continuous-flow synthesis; Britton, J. et al.; Chem. Soc. Rev., 2017, 46, 1250-1271

419. Pd@ionosilica as heterogeneous hydrogenation catalyst for continuous flow reductive upgrade of cinnamaldehyde; Braun, M. et al.; Chem. Tech. Biotech., 2017, 92, 2229-2235

420. A Continuous-Flow Process for Palladium-Catalyzed Olefin Cleavage by using Oxygen within the Explosive Regime; Hone, C. A. et al.; ChemCatChem, 2017, 9, 3298-3302

421. A High-Throughput Composite Catalyst based on Nickel Carbon Cubes for the Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran; Mani, C. M. et al.; ChemCatChem, 2017, 9, 3388-3394

422. Electrochemical Effects at Surfactant-Platinum Nanoparticle Interfaces Boost Catalytic Performance; Almora-Barrios, N. et al.; ChemCatChem, 2017, 9, 604-609

423. Hydrogenation Properties of Nanostructured Tungsten Carbide Catalysts in a Continuous-Flow Reactor; Braun, M. et al.; ChemCatChem, 2017, 9, 393-397

424. Chemoselective three-phase hydrogenation of an Ombrabulin nitro-stilbene intermediate in a continuous-flow mobile platform; Rehm, T. H. et al.; Chemical Engineering Journal, 2017, 316, 1069-1077

425. Heterogeneous catalysis in continuous flow microreactors: A review of methods and applications; Tanimu, A. et al.; Chemical Engineering Journal, 2017, 327, 792-821

426. Innovative benign-by-design flow chemistry protocols: from bio(nano)materials synthesis to biomass/waste valorisation; Wang, B. et al.; Chemistry Today, 2017, 34, 58-63

427. Chemoenzymatic Synthesis in Flow Reactors: A Rapid and Convenient Preparation of Captopril; De Vitis, V. et al.; ChemistryOpen, 2017, 6, 668-673

428. 1,3,5-Trisubstituted Pyrazoles as Potent Negative Allosteric Modulators of the mGlu2/3 Receptors; De Diego, S. A. A. et al.; ChemMedChem, 2017, 12, 905-912

429. Dependence of the Properties of Fluorine-Containing Poly(phenylquinoxaline) on the Method of Its Preparation; Bulycheva, E. G. et al.; Doklady Chemistry, 2017, 475, 159-163

430. Discovery of PET radiopharmaceuticals at the academia-industry interface; Bernard-Gauthier, V. et al.; Drug Discovery Today: Technologies, 2017, 25, 19-26

431. Tacrine-resveratrol fused hybrids as multi-target-directed ligands against Alzheimer's disease; Jerabek, J. et al.; Eur. J. Med. Chem., 2017, 127, 250-262

432. A Meldrum's Acid Based Multicomponent Synthesis of N-Fmocisoxazolidin-5-ones: Entry to N-Fmoc-β-amino Acids; Le Foll Devaux, A. et al.; Eur. J. Org. Chem., 2017, 3265-3273

433. An Enantioselective Approach to Pinguisane Sesquiterpenes: Total Synthesis of (-)-Pinguisenol and (-)-Isonaviculol; Singh, S. et al.; Eur. J. Org. Chem., 2017, 2824-2830

434. An Integrated Continuous-Flow Synthesis of a Key Oxazolidine Intermediate to Noroxymorphone from Naturally Occurring Opioids; Mata, A. et al.; Eur. J. Org. Chem., 2017, 6505-6510

435. Design and Development of Pd-Catalyzed Aerobic N-Demethylation Strategies for the Synthesis of Noroxymorphone in Continuous Flow Mode; Gutmann, B. et al.; Eur. J. Org. Chem., 2017, 914-927

436. Environmentally Friendly Synthesis of Indoline Derivatives using Flow-Chemistry Techniques; Orkenyi, R. et al.; Eur. J. Org. Chem., 2017, 6525-6532

437. Green and Scalable Palladium-on-Carbon-Catalyzed Tsuji-Trost Coupling Reaction Using an Efficient and Continuous Flow System; Cazorla, C. et al.; Eur. J. Org. Chem., 2017, 1078-1085

438. Stereoselective Metal-Free Reduction of Chiral Imines in Batch and Flow Mode: A Convenient Strategy for the Synthesis of Chiral Active Pharmaceutical Ingredients; Brenna, D. et al.; Eur. J. Org. Chem., 2017, 39-44

439. Synthesis of Mepivacaine and Its Analogues by a Continuous-Flow Tandem Hydrogenation/Reductive Amination Strategy; Suveges, N. S. et al.; Eur. J. Org. Chem., 2017, 6511-6517

440. Quantification of benzoxazinoids and their metabolites in Nordic breads; Dihm, K. et al.; Food Chemistry, 2017, 235, 7-13

441. A continuous flow process for the production of 2,5-dimethylfuran from fructose using (non-noble metal based) heterogeneous catalysis; Antonietti, M. et al.; Green Chemistry, 2017, 19, 3813-3819

442. A step forward towards sustainable aerobic alcohol oxidation: new and revised catalysts based on transition metals on solid supports; Parmeggiani, C. et al.; Green Chemistry, 2017, 19, 2030-2050

443. Improving the efficiency of the Diels-Alder process by using flow chemistry and zeolite catalysis; Seghers, S. et al.; Green Chemistry, 2017, 19, 237-248

444. Interfacial acidity in ligand-modified ruthenium nanoparticles boosts the hydrogenation of levulinic acid to γ-valerolactone; Albani, D. et al.; Green Chemistry, 2017, 19, 2361-2370

445. Revisiting the deoxydehydration of glycerol towards allyl alcohol under continuous-flow conditions; Tshibalonza, N. N. et al.; Green Chemistry, 2017, 19, 3006-3013

446. Continuous-Flow Hydrogenation of D-Xylose with Bimetallic Ruthenium Catalysts on Micrometric Alumina; Paun, C. et al.; iMedPub J., 2017, 2, 1

447. New gonadotropin-releasing hormone glycolipids with direct antiproliferative activity and gonadotropin-releasing potency; Mansfeld, F. M. et al.; Int. J. Pharm., 2017, 521, 327-336

448. Enzymatic synthesis and protein adsorption properties of crystalline nanoribbons composed of cellulose oligomer derivatives with primary amino groups; Nohara, T. et al.; J. Biomat. Sci., Polymer Ed., 2017, 28, 925-938

449. Anthranilic acid, the new player in the ensemble of aromatic residue labeling precursor compounds; Schorghuber, J. et al.; J. Biomol. NMR, 2017, 69, 13-22

450. Acylguanidine Beta Secretase 1 Inhibitors: A Combined Experimental and Free Energy Perturbation Study; Keranen, H. et al.; J. Chem. Theory Comput., 2017, 13, 1439-1453

451. Continuous-Flow Hydrogenation of 4-Phenylpyridine to 4-Phenylpiperidine with Integrated Product Isolation Using a CO2 Switchable System; Barwinski, B. et al.; J. Flow Chem., 2017, 7(2), 41-45

452. Flow Chemistry in Space - A Unique Opportunity to Perform Extraterrestrial Research; Sipos, G. et al.; J. Flow Chem., 2017, 7(3-4), 151-156

453. Synthesis and Antimicrobial Studies of New Spiropyran Quinazolinone Derivatives with Amide, Urea, and Sulfonamide Moieties; Poojari, S. et al.; J. Heterocyclic Chem., 2017, 54(6), 3527-3537

454. Tailoring the framework composition of carbon nitride to improve the catalytic efficiency of the stabilised palladium atoms; Vorobyeva, E. et al.; J. Mater. Chem. A, 2017, 5, 16393-16403

455. 4-Methyl-6,7-dihydro-4H-triazolo[4,5-c]pyridine-Based P2X7 Receptor Antagonists: Optimization of Pharmacokinetic Properties Leading to the Identification of a Clinical Candidate; Savall, B. M. et al.; J. Med. Chem., 2017, 60, 4559-4572

456. Design, Synthesis, Structurel-Activity Relationship Studies, and Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Modeling of a Series of O-Biphenyl Carbamates as Dual Modulators of Dopamine D3 Receptor and Fatty Acid Amide Hydrolase; De Simone, A. et al.; J. Med. Chem., 2017, 60, 2287-2304

457. Discovery of a Potent, Cell Penetrant, and Selective p300/CBP-Associated Factor (PCAF)/General Control Nonderepressible 5 (GCN5) Bromodomain Chemical Probe; Bamborough, P. et al.; J. Med. Chem., 2017, 60, 695-709

458. Exploiting the 4-Phenylquinazoline Scaffold for the Development of High Affinity Fluorescent Probes for the Translocator Protein (TSPO); Milite, C. et al.; J. Med. Chem., 2017, 60, 7897-7909

459. Identification of the Clinical Candidate (R)-(1-(4-Fluorophenyl)-6-((1-methyl-1H-pyrazol-4-yl)sulfonyl)-4,4a,5,6,7,8-hexahydro-1H-pyrazolo[3,4-g]isoquinolin-4a-yl)(4-(trifluoromethyl)pyridin-2-yl)methanone (CORT125134): A Selective Glucocorticoid Receptor (GR) Antagonist; Belanoff, J. K. et al.; J. Med. Chem., 2017, 60, 3405-3421

460. Thieno[3,2-b]pyrrole-5-carboxamides as New Reversible Inhibitors of Histone Lysine Demethylase KDM1A/LSD1. Part 2: Structure Based Drug Design and Structure-Activity Relationship; Sartori, L. et al.; J. Med. Chem., 2017, 60, 1693-1715

461. Synthesis of a Pentasaccharide Fragment Related to the Inner Core Region of Rhizobial and Agrobacterial Lipopolysaccharides; Trattnig, N. et al.; J. Org. Chem., 2017, 82, 12346-12358

462. Synthesis of Fused Pyrimidinone and Quinolone Derivatives in an Automated High Temperature and High Pressure Flow Reactor; Tsoung, J. et al.; J. Org. Chem., 2017, 82, 1073-1084

463. Visible-Light-Mediated Annulation of Electron-Rich Alkenes and Nitrogen-Centered Radicals from N-Sulfonylallylamines: Construction of Chloromethylated Pyrrolidine Derivatives; Greb, A. et al.; J. Org. Chem., 2017, 82, 13093-13108

464. Preparation of HKUST-1@silica aerogel composite for continuous flow catalysis; Nuzhdin, A. L. et al.; J. Sol-Gel Sci. Technol., 2017, 84, 446-452

465. Chalcone Derivatives: Promising Starting Points for Drug Design; Gomes, M. N. et al.; Molecules, 2017, 22, 1210

466. Pyrrolizidine alkaloids: occurrence, biology, and chemical synthesis; Stevens, K. et al.; Nat. Prod. Rep., 2017, 34, 62-89

467. USP7 small-molecule inhibitors interfere with ubiquitin binding; Di Lello, P. et al.; Nature, 2017, 550, 534-538

468. Deciphering minimal antigenic epitopes associated with Burkholderia pseudomallei and Burkholderia mallei lipopolysaccharide O-antigens; Kenfack, M. T. et al.; Nature Communications, 2017, 8, 115

469. Synthetic approaches to the C11-C27 fragments of bryostatins; Green, A. P. et al.; Org. Biomol. Chem., 2017, 15, 9475-9496

470. Bioinspired Total Synthesis and Stereochemical Revision of the Fungal Metabolite Pestalospirane B; Badrinarayanan, S. et al.; Org. Lett., 2017, 19, 3414-3417

471. A Green Process for the Preparation of Bis(2,2,2-trifluoroethyl) Methylphosphonate; Molnar, K. et al.; Org. Process Res. Dev., 2017, 21, 1985-1989

472. Continuous Flow Synthesis of a Key 1,4-Benzoxazinone Intermediate via a Nitration/Hydrogenation/Cyclization Sequence; Cantillo, D. et al.; Org. Process Res. Dev., 2017, 21, 125-132

473. Highly efficient reversible addition-fragmentation chain-transfer polymerization in ethanol/water via flow chemistry; Ye, P. et al.; Polymer Int., 2017, 66, 1252-1258

474. Expedient Diels-Alder cycloadditions with ortho-quinodimethanes in a high temperature/pressure flow reactor; Tsoung, J. et al.; React. Chem. Eng., 2017, 2, 458-461

475. Flow synthesis of secondary amines over Ag/Al_2O_3 catalyst by one-pot reductive amination of aldehydes with nitroarenes; Artiukha, E. A. et al.; RSC Adv., 2017, 7, 45856-45861

476. Nanoscale Pd supported on 3D porous carbon for enhanced selective oxidation of benzyl alcohol; Niu, S. et al.; RSC Adv., 2017, 7, 25885-25890

477. Nanosizing Pd on 3D porous carbon frameworks as effective catalysts for selective phenylacetylene hydrogenation; Yu, W. et al.; RSC Adv., 2017, 7, 15309-15314

478. Towards sustainable hydrogenation of 5-(hydroxymethyl)furfural: a two-stage continuous process in aqueous media over RANEY® catalysts; Lima, S et al.; RSC Adv., 2017, 7, 31401-31407

479. Rapid Continuous Ruthenium-Catalysed Transfer Hydrogenation of Aromatic Nitriles to Primary Amines; Labes, R. et al.; Synlett, 2017, 28(20), 2855-2858

480. An Intramolecular Diels-Alder Furan (IMDAF) Approach towards the Synthesis of Isoindolo[2,1-a]quinazolines and Isoindolo-[1,2-b]quinazolines; Revutskaya E. L. et al.; Synthesis, 2017, 49(16), 3749-3767

481. Synthesis of 1,5-Anhydro-D-glycero-D-gluco-heptitol Derivatives as Potential Inhibitors of Bacterial Heptose Biosynthetic Pathways; Blaukopf, M. et al.; Synthesis, 2017, 49(24), 5320-5334

482. Particle-based immobilized enzymatic reactors in microfluidic chips; Kecskemeti, A. et al.; Talanta, 2017, 180, 211-228

483. Activity of continuous flow synthesized Pd-based nanocatalysts in the flow hydroconversion of furfural; Garcia-Olmo, A. J. et al.; Tetrahedron, 2017, 73, 5599-5604

484. Synthesis and reactivity of new amide-substituted oxindole derivatives; Ignatov, A. A. et al.; Tetrahedron, 2017, 73, 6887-6893

485. A Safe and Selective Method for Reduction of 2-Nitrophenylacetic Acid Systems to N-Aryl Hydroxamic Acids Using Continuous Flow Hydrogenation; Ichire, O. et al.; Tetrahedron Letters, 2017, 58, 582-585

486. Facile synthesis of bromo- and iodo-1,2,3-triazoles; Sakurada, I. et al.; Tetrahedron Letters, 2017, 3188-3190

487. Efficient lipase-catalysed route for the kinetic resolution of salsolidine and its β-carboline analogue; Kovacs, B. et al.; Tetrahedron: Asymmetry, 2017, 28, 1829-1833

2016

488. Feedback in Flow for Accelerated Reaction Development; Reizman, B. J. et al.; Acc. Chem. Res., 2016, 49(9), 1786-1796

489. Merging Single-Atom-Dispersed Silver and Carbon Nitride to a Joint Electronic System via Copolymerization with Silver Tricyanomethanide; Chen, Z. et al.; ACS Nano, 2016, 10, 3166-3175

490. Nitro Lignin-Derived Nitrogen-Doped Carbon as an Efficient and Sustainable Electrocatalyst for Oxygen Reduction; Graglia, M. et al.; ACS Nano, 2016, 10, 4364-4371

491. Bifunctional Ruthenium Nanoparticle-SILP Catalysts (RuNPs@SILP) for the Hydrodeoxygenation of Eucalyptol under Batch and Continuous Flow Conditions; Luska, K. L. et al.; ACS Sustainable Chem. Eng., 2016, 4(11), 6186-6192

492. Solvent-Free Continuous Operations Using Small Footprint Reactors: A Key Approach for Process Intensification; Ouchi, T. et al.; ACS Sustainable Chem. Eng., 2016, 4(4), 1912-1916

493. Toward the Synthesis of Noroxymorphone via Aerobic Palladium-Catalyzed Continuous Flow N-Demethylation Strategies; Gutmann, B. et al.; ACS Sustainable Chem. Eng., 2016, 4(11), 6048-6061

494. Chemo-Catalyzed Pathways to Lactic Acid and Lactates; Shuklov, I. A. et al.; Adv. Synth. Catal., 2016, 358, 3910-3931

495. Origin of problems related to Staudinger reduction in carbopeptoid syntheses; Csordas, B. et al.; Amino Acids, 2016, 48(11), 2619-2633

496. Facile Conversion of Red Phosphorus into Soluble Polyphosphide Anions by Reaction with Potassium Ethoxide; Dragulescu-Andrasi, A. et al.; Angew. Chem. Int. Ed., 2016, 55(12), 3904-3908

497. Synthesis of Highly Functionalized 4-Aminoquinolines; Wezeman, T. et al.; Angew. Chem. Int. Ed., 2016, 55, 3823-3827

498. Quinazolinones, Quinazolinthiones, and Quinazolinimines as Nitric Oxide Synthase Inhibitors: Synthetic Study and Biological Evaluation; Camacho, M. E. et al.; Arch. Pharm. Chem. Life Sci., 2016, 349, 1-13

499. Chemistry of 3-carbonyl-2-methyl-4-oxo-4H-1-benzopyrans; Chakraborty, A. et al.; ARKIVOC, 2016, 1, 111-149

500. Continuous-flow synthesis of primary amines: Metal-free reduction of aliphatic and aromatic nitro derivatives with trichlorosilane; Porta, R. et al.; Beilstein J. Org. Chem., 2016, 12, 2614-2619

501. Synthetic multivalent ligands for cholera & cholera-like toxins: Protected cyclic neoglycopeptides; Kumar, V. et al.; Carbohydrate Research, 2016, 431, 47-55

502. Continuous flow hydrogenation of nitroarenes, azides and alkenes using maghemite-Pd nanocomposites; Rathi, A. K. et al.; Catal. Sci. Technol., 2016, 6, 152-160

503. Fine chemical syntheses under flow using SiliaCat catalysts; Ciriminna, R. et al.; Catal. Sci. Technol., 2016, 6(13), 4678-4685

504. Insights into the activity, selectivity and stability of heterogeneous catalysts in the continuous flow hydroconversion of furfural; Garcia-Olmo, A. J. et al.; Catal. Sci. Technol., 2016, 6(13), 4705-4711

505. Ligand ordering determines the catalytic response of hybrid palladium nanoparticles in hydrogenation; Albani, D. et al.; Catal. Sci. Technol., 2016, 6(6), 1621-1631

506. Asymmetric Total Synthesis of (-)-Erogorgiaene and Its C-11 Epimer and Investigation of Their Antimycobacterial Activity; Incerti-Pradillos, C. A. et al.; Chem. Eur. J., 2016, 22, 14390-14396

507. Batch- and Continuous-Flow Aerobic Oxidation of 14-Hydroxy Opioids to 1,3-Oxazolidines - A Concise Synthesis of Noroxymorphone; Gutmann, B. et al.; Chem. Eur. J., 2016, 22, 10393-10398

508. Synthesis of Natural and Unnatural Cyclooligomeric Depsipeptides Enabled by Flow Chemistry; Lucke, D. et al.; Chem. Eur. J., 2016, 22, 4206-4217

509. Synthesis, Properties, and Two-Dimensional Adsorption Characteristics of [6]Hexahelicene-7-carboxylic acid; van der Meijden, M. W. et al.; Chem. Eur. J., 2016, 22, 14633-14639

510. Liquid phase oxidation chemistry in continuous-flow microreactors; Gemoets, H. P. L. et al.; Chem. Soc. Rev., 2016, 45, 83-117

511. Taming hazardous chemistry by continuous flow technology; Movsisyan, M. et al.; Chem. Soc. Rev., 2016, 45, 4892-4928

512. Chemical reaction engineering, process design and scale-up issues at the frontier of synthesis: Flow chemistry; Compagnoni, M. et al.; Chemical Engineering Journal, 2016, 296, 56-70

513. Enzymatic Strategy for the Resolution of New 1-Hydroxymethyl Tetrahydro-b-carboline Derivatives in Batch and Continuous-Flow Systems; Megyesi, R. et al.; ChemistryOpen, 2016, 5(3), 254-260

514. Ceapins are a new class of unfolded protein response inhibitors, selectively targeting the ATF6α branch; Gallagher, C. M. et al.; eLife, 2016, 5, e11878

515. Discovery and antiplatelet activity of a selective PI3Kβ inhibitor (MIPS-9922); Zheng, Z. et al.; Eur. J. Med. Chem., 2016, 122, 339-351

516. Nitroimidazole carboxamides as antiparasitic agents targeting Giardia lamblia, Entamoeba histolytica and Trichomonas vaginalis; Jarrad, A. M. et al.; Eur. J. Med. Chem., 2016, 120, 353-362

517. Potent α-amino-β-lactam carbamic acid ester as NAAA inhibitors. Synthesis and structure-activity relationship (SAR) studies; Nuzzi, A. et al.; Eur. J. Med. Chem., 2016, 111, 138-159

518. Molecularly imprinted hydrogels as functional active packaging materials; Benito-Pena, E. et al.; Food Chemistry, 2016, 190, 487-494

519. Nanopalladium-catalyzed conjugate reduction of Michael acceptors - application in flow; Nagendiran, A. et al.; Green Chemistry, 2016, 18(9), 2632-2637

520. A continuous flow process for the green and sustainable production of N-alkyl imidazoles; Fekete, M. et al.; Green Process. Synth., 2016, 5(3), 239-246

521. Continuous-flow biochemical reactors: Biocatalysis, bioconversion, and bioanalytical applications utilizing immobilized microfluidic enzyme reactors; Hajba, L. et al.; J. Flow Chem., 2016, 6(1), 8-12

522. Regioselective Catalytic Alkylation of N-Heterocycles in Continuous Flow; Sipocz, T. et al.; J. Flow Chem., 2016, 6(2), 117-122

523. Discovery of a Novel Inhibitor of Histone Lysine-Specific Demethylase 1A (KDM1A/LSD1) as Orally Active Antitumor Agent; Vianello, P. et al.; J. Med. Chem., 2016, 59, 1501-1517

524. Discovery of Narrow Spectrum Kinase Inhibitors: New Therapeutic Agents for the Treatment of COPD and Steroid-Resistant Asthma; Ito, K et al.; J. Med. Chem., 2016, 59, 1727-1746

525. Modeling, Synthesis, and Biological Evaluation of Potential Retinoid X Receptor (RXR)-Selective Agonists: Analogues of 4-[1-(3,5,5,8,8-Pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic Acid (Bexarotene) and 6-(Ethyl(5,5,8,8-tetrahydronaphthalen-2-yl)amino)nicotinic Acid (NEt-TMN); Heck, M. C. et al.; J. Med. Chem., 2016, 59, 8924-8940

526. Optically Pure, Structural, and Fluorescent Analogues of a Dimeric Y4 Receptor Agonist Derived by an Olefin Metathesis Approach; Liu, M. et al.; J. Med. Chem., 2016, 59, 6059-6069

527. Structurally Diverse Mitochondrial Branched Chain Aminotransferase (BCATm) Leads with Varying Binding Modes Identified by Fragment Screening; Borthwick, J. A. et al.; J. Med. Chem., 2016, 59, 2452-2467

528. Structure-Activity Relationship Studies of Mitogen Activated Protein Kinase Interacting Kinase (MNK) 1 and 2 and BCR-ABL1 Inhibitors Targeting Chronic Myeloid Leukemic Cells; Nacro, K. et al.; J. Med. Chem., 2016, 59, 3063-3078

529. Sydnone Cycloaddition Route to Pyrazole-Based Analogs of Combretastatin A4; Brown, A. W. et al.; J. Med. Chem., 2016, 59, 9473-9488

530. Total Synthesis and Biological Evaluation of Tubulysin Analogues; Colombo, R. et al.; J. Org. Chem., 2016, 81(21), 10302-10320

531. Hazards associated with laboratory scale hydrogenations; Chandra, T. et al.; Journal of Chemical Health and Safety, 2016, 23, 16-25

532. Development of biolubricants from vegetable oils via chemical modification; McNutt, J. et al.; Journal of Industrial and Engineering Chemistry, 2016, 36, 1-12

533. Synthesis of novel Iron(III) chelators based on triaza macrocycle backbone and 1-hydroxy-2(H)-pyridin-2-one coordinating groups and their evaluation as antimicrobial agents; Workman, D. G. et al.; Journal of Inorganic Biochemistry, 2016, 160, 49-58

534. Insights into the selective hydrogenation of levulinic acid to γ-valerolactone using supported mono- and bimetallic catalysts; Al-Naji, M. et al.; Journal of Molecular Catalysis A: Chemical, 2016, 417, 145-152

535. Enantioselective hydrolysis of 3,4-disubstituted β-lactams. An efficient enzymatic method for the preparation of a key Taxol side-chain intermediate; Galla, Zs. et al.; Journal of Molecular Catalysis B: Enzymatic, 2016, 123, 107-112

536. Recent advances for serial processes of hazardous chemicals in fully integrated microfluidic systems; Singh, R. et al.; Korean Journal of Chemical Engineering, 2016, 33(8), 2253-2267

537. Continuous-Flow Synthesis of Deuterium-Labeled Antidiabetic Chalcones: Studies towards the Selective Deuteration of the Alkynone Core; Otvos, S. B. et al.; Molecules, 2016, 21, 318

538. Optimized Conditions for Passerini-Smiles Reactions and Applications to Benzoxazinone Syntheses; Martinand-Lurin, E. et al.; Molecules, 2016, 21, 1257

539. Improved and scalable synthesis of building blocks for the modular synthesis of teraryl-based alpha-helix mimetics; Trobe, M. et al.; Monatsh. Chem., 2016, 147, 509-521

540. Library synthesis of cardiomyogenesis inducing compounds using an efficient two-step-one-flow process; Schon, M. et al.; Monatsh. Chem., 2016, 147, 523-532

541. CIS is a potent checkpoint in NK cell-mediated tumor immunity; Delconte, R. B. et al.; Nat. Immun., 2016, 17, 816-824

542. A Facile hybrid 'flow and batch' access to substituted 3,4-dihydro-2H-benzo[b][1,4]oxazinones; Lin, A. J. S. et al.; Org. Biomol. Chem., 2016, 14, 8732-8742

543. New potent αvβ3 integrin ligands based on azabicycloalkane (γ,α)-dipeptide mimics; Pilkington-Miksa, M. et al.; Org. Biomol. Chem., 2016, 14, 3221-3233

544. Photooxygenation of an amino-thienopyridone yields a more potent PTP4A3 inhibitor; Salamoun, J. M. et al.; Org. Biomol. Chem., 2016, 14, 6398-6402

545. High-Temperature Boc Deprotection in Flow and Its Application in Multistep Reaction Sequences; Charaschanya, M. et al.; Org. Lett., 2016, 18(8), 1732-1735

546. Enabling the Scale-Up of a Key Asymmetric Hydrogenation Step in the Synthesis of an API Using Continuous Flow Solid-Supported Catalysis; Amara, Z. et al.; Org. Process Res. Dev., 2016, 20, 1321-1327

547. The Use of Gases in Flow Synthesis; Mallia, C. J. et al.; Org. Process Res. Dev., 2016, 20(2), 327-360

548. Aerobic oxidations in flow: opportunities for the fine chemicals and pharmaceuticals industries; Gavriilidis, A. et al.; React. Chem. Eng., 2016, 1, 595-612

549. Combining microfluidics and FT-IR spectroscopy: towards spatially resolved information on chemical processes; Perro, A. et al.; React. Chem. Eng., 2016, 1, 577-594

550. Online monitoring and analysis for autonomous continuous flow self-optimizing reactor systems; Fabry, D. C. et al.; React. Chem. Eng., 2016, 1, 129-133

551. Structuring hybrid palladium nanoparticles in metallic monolithic reactors for continuous-flow three-phase alkyne hydrogenation; Albani, D. et al.; React. Chem. Eng., 2016, 1, 454-462

552. Flow hydrogenation of p-nitrophenol with nano-Ag/Al_2O_3; Paun, C. et al.; RSC Adv., 2016, 6, 87564-87568

553. HKUST-1 silica aerogel composites: novel materials for the separation of saturated and unsaturated hydrocarbons by conventional liquid chromatography; Shalygin, A. S. et al.; RSC Adv., 2016, 6, 62501-62507

554. Synthesis of unsaturated secondary amines by direct reductive amination of aliphatic aldehydes with nitroarenes over Au/Al_2O_3 catalyst in continuous flow mode; Artiukha, E. A. et al.; RSC Adv., 2016, 6, 88366-88372

555. Continuous flow room temperature reductive aqueous homo-coupling of aryl halides using supported Pd catalysts; Feiz, A. et al.; Sci. Rep., 2016, 6, 32719

556. In vitro reconstitution guide for targeted synthetic metabolism of chemicals, nutraceuticals and drug precursors; Tan, G. Y. et al.; Synthetic and Systems Biotechnology, 2016, 1, 25-33

557. Flow chemistry vs. flow analysis; Trojanowicz, M. et al.; Talanta, 2016, 146, 621-640

558. Synthesis of hydroxylated pyrrolidines by allenic cyclisation; Ng, P. S. et al.; Tetrahedron, 2016, 72, 6356-6362

559. General methods for the synthesis and late-stage diversification of 2,4-substituted 7-azaindoles; McGuire, T. et al.; Tetrahedron Letters, 2016, 57, 4718-4722

560. Nucleophilic aromatic substitution of heterocycles using a high-temperature and high-pressure flow reactor; Charaschanya, M. et al.; Tetrahedron Letters, 2016, 57, 1035-1039

561. Preparation of vinyl ethers using a Wittig approach, and their subsequent hydrogenation employing continuous-flow processing; Balti, M. et al.; Tetrahedron Letters, 2016, 57, 1804-1806

562. Reaction screening in continuous flow reactors; Mohamed, D. K. B. et al.; Tetrahedron Letters, 2016, 57, 3965-3977

563. Harnessing the Versatility of Continuous-Flow Processes: Selective and Efficient Reactions; Mandity, I. M. et al.; The Chemical Record, 2016, 16, 1018-1033

564. Metathesis Reactions on Solid-Phase: Towards New Synthesis Challenges; Franzen, R. G. et al.; Top Catal., 2016, 59, 1143-1150

2015

565. Flow Chemistry: Intelligent Processing of Gas-Liquid Transformations Using a Tube-in-Tube Reactor; Brzozowski, M. et al.; Acc. Chem. Res., 2015, 48(2), 349-362

566. Benchmarking Immobilized Di- and Triarylphosphine Palladium Catalysts for Continuous-Flow Cross-Coupling Reactions: Efficiency, Durability, and Metal Leaching Studies; Greco, R. et al.; ACS Catal., 2015, 5, 1303-1312

567. Structure and Reactivity of Supported Hybrid Platinum Nanoparticles for the Flow Hydrogenation of Functionalized Nitroaromatics; Vile, G. et al.; ACS Catal., 2015, 5, 3767-3778

568. Diversity-Oriented Synthesis of a Library of Star-Shaped 2H-Imidazolines; Yu, X. et al.; ACS Combinatorial Science, 2015, 17(11), 682-690

569. Preclinical Characterization of the FAAH Inhibitor JNJ-42165279; Jones, W. M. et al.; ACS Med. Chem. Lett., 2015, 6, 1204-1208

570. Synthesis, SAR, and Pharmacological Characterization of Brain Penetrant P2X7 Receptor Antagonists; Wu, D. et al.; ACS Med. Chem. Lett., 2015, 6, 671-676

571. Molecularly imprinted polymers for cleanup and selective extraction of curcuminoids in medicinal herbal extracts; Wulandari, M. et al.; Analytical and Bioanalytical Chemistry, 2015, 407, 803-812

572. Chemo-Enzymatic Synthesis of 13C Labeled Complex N-Glycans as Internal Standards for the Absolute Glycan Quantification by Mass Spectrometry; Echeverria, B. et al.; Analytical Chemistry, 2015, 87, 11460-11467

573. Structural Identification of Petroleum Acids by Conversion to Hydrocarbons and Multidimensional Gas Chromatography-Mass Spectrometry; Wilde, M. J. et al.; Analytical Chemistry, 2015, 87, 8457-8465

574. Chemical Assembly Systems: Layered Control for Divergent, Continuous, Multistep Syntheses of Active Pharmaceutical Ingredients; Ghislieri, D. et al.; Angew. Chem. Int. Ed., 2015, 54, 678-682

575. Organic Synthesis: March of the Machines; Fitzpatrick, D. E. et al.; Angew. Chem. Int. Ed., 2015, 54, 3449-3464

576. Synergistic Interaction within Bifunctional Ruthenium Nanoparticle/SILP Catalysts for the Selective Hydrodeoxygenation of Phenols; Luska, K. L. et al.; Angew. Chem. Int. Ed., 2015, 54, 15750-15755

577. Safe hydrogenation of organic compounds and their property studies; Woo, S. J. et al.; APEC Youth Scientist Journal, 2015, 7, 45-53

578. An imidazolium-based organopalladium-functionalized organic-inorganic hybrid silica promotes one-pot tandem Suzuki cross coupling-reduction of haloacetophenones and arylboronic acids; Zhang, D. et al.; Applied Catal. B: Environmental, 2015, 174-175, 344-349

579. Synthesis and Activity of Putative Small-Molecule Inhibitors of the F-Box Protein SKP2; Shouksmith, A. E. et al.; Aust. J. Chem., 2015, 68, 660-679

580. The synthesis of active pharmaceutical ingredients (APIs) using continuous flow chemistry; Baumann, M. et al.; Beilstein J. Org. Chem., 2015, 11, 1194-1219

581. Discovery and SAR of novel pyrazolo[1,5-a]pyrimidines as inhibitors of CDK9; Phillipson, L. J. et al.; Bioorg. Med. Chem., 2015, 23, 6280-6296

582. Discovery and SAR of novel series of imidazopyrimidinones and dihydroimidazopyrimidinones as positive allosteric modulators of the metabotropic glutamate receptor 5 (mGlu5); Bartolome-Nebreda, J. M. et al.; Bioorg. Med. Chem. Lett., 2015, 25, 1310-1317

583. Structural requirements for TLR7-selective signaling by 9-(4-piperidinylalkyl)-8-oxoadenine derivatives; Li, Y. et al.; Bioorg. Med. Chem. Lett., 2015, 25, 1318-1323

584. Synthesis and antiviral evaluation of a novel series of homoserine-based inhibitors of the hepatitis C virus NS3/4A serine protease; Brandt, G. et al.; Bioorg. Med. Chem. Lett., 2015, 25, 3984-3991

585. Chemical synthesis of the tetrasaccharide repeating unit of the O-polysaccharide isolated from Azospirillum brasilense SR80; Sarkar, V. et al.; Carbohydrate Research, 2015, 406, 65-70

586. Facile access to new C-glycosides and C-glycoside scaffolds incorporating functionalised aromatic moieties; Redpath, P. et al.; Carbohydrate Research, 2015, 402, 25-34

587. Synthesis of four (4''-, 2''-, 2'-, and 6) monodeoxy analogs of the trisaccharide α-d-Glcp-(1→3)-α-d-Manp-(1→2)-α-d-ManpOMe recognized by Calreticulin/Calnexin; Glinschert, A. et al.; Carbohydrate Research, 2015, 414, 65-71

588. Flow chemistry as a versatile tool for the synthesis of triazoles; Otvos, S. B. et al.; Catal. Sci. Technol., 2015, 5, 4926-4941

589. One-pot reductive amination of aldehydes with nitroarenes over an Au/Al_2O_3 catalyst in a continuous flow reactor; Artiukha, E. A. et al.; Catal. Sci. Technol., 2015, 5, 4741-4745

590. The role of water in catalytic biomass-based technologies to produce chemicals and fuels; Mika, L. T. et al.; Catalysis Today, 2015, 247, 33-46

591. Palladium on Carbon-Catalyzed Suzuki-Miyaura Coupling Reaction Using an Efficient and Continuous Flow System; Hattori, T. et al.; Catalysts, 2015, 5, 18-25

592. Expanding the toolbox of asymmetric organocatalysis by continuous-flow process; Finelli, F. G. et al.; Chem. Commun., 2015, 51, 3708-3722

593. Nafion-H-Catalyzed High-Temperature/High-Pressure Synthesis of a Triarylmethane in Continuous-Flow Mode; Hayden, S. et al.; Chem. Eng. Technol., 2015, 38, 1743-1748

594. Catalytic Asymmetric Crotylation of Aldehydes: Application in Total Synthesis of (-)-Elisabethadione; O'Hora, P. S. et al.; Chem. Eur. J., 2015, 21, 4551-4555

595. Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH-π Interactions; Calle, L. P. et al.; Chem. Eur. J., 2015, 21, 11408-11416

596. Total Synthesis of Aignopsanes, A Class of Sesquiterpenes: (+)-Aignopsanoic Acid A, (-)-Methyl Aignopsanoate A, and (-)-Isoaignopsanoic A; Burki, C. et al.; Chem. Eur. J., 2015, 21, 395-401

597. Enhanced Biocatalytic Performance of Bacterial Laccase from Streptomyces sviceus: Application in the Michael Addition Sequence Towards 3-Arylated 4-Oxochromanes; Suljic, S. et al.; ChemCatChem, 2015, 7, 1380-1385

598. Highly Selective Continuous-Flow Synthesis of Potentially Bioactive Deuterated Chalcone Derivatives; Hsieh, C. T. et al.; ChemPlusChem, 2015, 80, 859-864

599. Selective Liquid-Phase Hydrogenation of a Nitro Group in Substituted Nitrobenzenes over Au/Al_2O_3 Catalyst in a Packed-Bed Flow Reactor; Nuzhdin, A. L. et al.; ChemPlusChem, 2015, 80, 1741-1749

600. Continuous Reductive Amination of Biomass-Derived Molecules over Carbonized Filter Paper-Supported FeNi Alloy; Chieffi, G. et al.; ChemSusChem, 2015, 8, 3590-3594

601. Nanocatalysis in Flow; Ricciardi, R. et al.; ChemSusChem, 2015, 8, 2586-2605

602. Synthesis of Novel Camphor-Derived Bifunctional Thiourea Organocatalysts; Ricko, S. et al.; Chirality, 2015, 27(1), 39-52

603. Structure activity relationships of 4-hydroxy-2-pyridones: A novel class of antituberculosis agents; Ng, P. S. et al.; Eur. J. Med. Chem., 2015, 106, 144-156

604. Facile Arene Hydrogenation under Flow Conditions Catalyzed by Rhodium or Ruthenium on Carbon; Hattori, T. et al.; Eur. J. Org. Chem., 2015, 2492-2497

605. Stereoselective Total Synthesis of the Marine Macrolide Sanctolide A; Yadav, J. S. et al.; Eur. J. Org. Chem., 2015, 5856-5863

606. The continuous synthesis and application of graphene supported palladium nanoparticles: a highly effective catalyst for Suzuki-Miyaura cross-coupling reactions; Brinkley, K. W. et al.; Green Process. Synth., 2015, 4, 241-246

607. A Flow-Based Synthesis of Telmisartan; Martin, A. D. et al.; J. Flow Chem., 2015, 5(3), 145-147

608. An efficient and more sustainable one-step continuous-flow multicomponent synthesis approach to chromene derivatives; Vaddula, B. R. et al.; J. Flow Chem., 2015, 5(3), 172-177

609. Iridium(I)-Catalyzed Ortho-Directed Hydrogen Isotope Exchange in Continuous-Flow Reactors; Habraken, E. R. M. et al.; J. Flow Chem., 2015, 5(1), 2-5

610. Multistep Continuous-Flow Synthesis of Condensed Benzothiazoles; Lovei, K. et al.; J. Flow Chem., 2015, 5(2), 74-81

611. Pt-cinchonidine catalyzed asymmetric catalytic cascade reaction of 2-nitrophenylpyruvates in flow system; Kovacs, L. et al.; J. Flow Chem., 2015, 5(4), 210-215

612. Studies on the Continuous-Flow Synthesis of Nonpeptidal bis-Tetrahydrofuran Moiety of Darunavir; Leao, R. A. C. et al.; J. Flow Chem., 2015, 5(4), 216-219

613. Synthesis of N-Hydroxypyrazin-2(1H)-ones via Selective O-Debenzylation of 1-Benzyloxypyrazin-2(1H)-ones Using Flow Methodology; Mai, A. H. et al.; J. Flow Chem., 2015, 5(1), 6-10

614. An Orally Bioavailable, Indole-3-glyoxylamide Based Series of Tubulin Polymerization Inhibitors Showing Tumor Growth Inhibition in a Mouse Xenograft Model of Head and Neck Cancer; Colley, H. E. et al.; J. Med. Chem., 2015, 58, 9309-9333

615. Benzo[d]imidazole Transient Receptor Potential Vanilloid 1 Antagonists for the Treatment of Pain: Discovery of trans-2-(2-{2-[2-(4-Trifluoromethyl-phenyl)-vinyl]-1H-benzimidazol-5-yl}-phenyl)-propan-2-ol (Mavatrep); Parsons, W. H. et al.; J. Med. Chem., 2015, 58, 3859-3874

616. Benzoxazolone Carboxamides as Potent Acid Ceramidase Inhibitors: Synthesis and Structure-Activity Relationship (SAR) Studies; Bach, A. et al.; J. Med. Chem., 2015, 58, 9258-9272

617. Discovery of Dual Leucine Zipper Kinase (DLK, MAP3K12) Inhibitors with Activity in Neurodegeneration Models; Patel, S. et al.; J. Med. Chem., 2015, 58, 401-418

618. Hit Optimization of 5-Substituted-N-(piperidin-4-ylmethyl)-1H-indazole-3-carboxamides: Potent Glycogen Synthase Kinase-3 (GSK-3) Inhibitors with in Vivo Activity in Model of Mood Disorders; Furlotti, G. et al.; J. Med. Chem., 2015, 58, 8920-8937

619. Identification of a Novel Orally Bioavailable Phosphodiesterase 10A (PDE10A) Inhibitor with Efficacy in Animal Models of Schizophrenia; Bartolome-Nebreda, J. M. et al.; J. Med. Chem., 2015, 58, 978-993

620. Optimization of Novel Indazoles as Highly Potent and Selective Inhibitors of Phosphoinositide 3-Kinase δ for the Treatment of Respiratory Disease; Down, K. et al.; J. Med. Chem., 2015, 58, 7381-7399

621. Structure-Based Optimization of Naphthyridones into Potent ATAD2 Bromodomain Inhibitors; Bamborough, P. et al.; J. Med. Chem., 2015, 58, 6151-6178

622. Synthesis and Biological Evaluation of Second-Generation Tropanol-Based Androgen Receptor Modulators; Sunden, H. et al.; J. Med. Chem., 2015, 58, 1569-1574

623. Synthesis, Biological Evaluation and Utility of Fluorescent Ligands Targeting the μ -Opioid Receptor; Schembri, L. S. et al.; J. Med. Chem., 2015, 58, 9754-9767

624. Densely Substituted L-Proline Esters as Catalysts for Asymmetric Michael Additions of Ketones to Nitroalkenes; Ruiz-Olalla, A. et al.; J. Org. Chem., 2015, 80, 5588-5599

625. Enantiodivergent Synthesis of Bis-Spiropyrrolidines via Sequential Interrupted and Completed (3 + 2) Cycloadditions; Conde, E. et al.; J. Org. Chem., 2015, 80, 11755-11767

626. Synthesis of the Tetrasaccharide Repeating Unit of the β -Kdo-Containing Exopolysaccharide from Burkholderia pseudomallei and B. cepacia Complex; Laroussarie, A. et al.; J. Org. Chem., 2015, 80, 10386-10396

627. Total Synthesis of (±)-Taiwaniaquinol F and Related Taiwaniaquinoids; Kakde, B. N. et al.; J. Org. Chem., 2015, 80, 9889-9899

628. Regio-, Diastereo-, and Enantioselective Nitroso-Diels-Alder Reaction of 1,3-Diene-1-carbamates Catalyzed by Chiral Phosphoric Acids; Pous, J. et al.; JACS, 2015, 137, 11950-11953

629. Chemical Synthesis of the Pentasaccharide Related to the Repeating Unit of the O-Antigen from Salmonella enterica O4; Das, R. et al.; Journal of Carbohydrate Chemistry, 2015, 34(5), 247-262

630. Synthesis of the Trisaccharide Repeating Unit of the Lipopolysaccharide from Moritella viscosa Strain M2-226; Pal, K. B. et al.; Journal of Carbohydrate Chemistry, 2015, 34(4), 173-182

631. Bicyclic naphthenic acids in oil sands process water: Identification bycomprehensive multidimensional gas chromatography-massspectrometry; Wilde, M. J. et al.; Journal of Chromatography A, 2015, 1378, 74-87

632. Solvent-free enzymatic process for biolubricant production in continuous microfluidic reactor; Madarasz, J. et al.; Journal of Cleaner Production, 2015, 93, 140-144

633. Engineering an iterative polyketide pathway in Escherichia coli results in single-form alkene and alkane overproduction; Liu, Q. et al.; Metabolic Engineering, 2015, 28, 82-90

634. Direct synthesis of imino-C-nucleoside analogues and other biologically active iminosugars; Bergeron-Brlek, M. et al.; Nature Communications, 2015, 6, 6903

635. 1,8-Naphthalimide derivatives: new leads against dynamin I GTPase activity; Abdel-Hamid, M. K. et al.; Org. Biomol. Chem., 2015, 13, 8016-8028

636. The expanding utility of continuous flow hydrogenation; Cossar, P. J. et al.; Org. Biomol. Chem., 2015, 13, 7119-7130

637. Synthetic Studies toward the C32-C46 Segment of Hemicalide. Assignment of the Relative Configuration of the C36-C42 Subunit; Specklin, S. et al.; Org. Lett., 2015, 17, 2446-2449

638. Design of Experiments (DoE) and Process Optimization. A Review of Recent Publications; Weissman, S. A. et al.; Org. Process Res. Dev., 2015, 19, 1605-1633

639. SiliaCat: A Versatile Catalyst Series for Synthetic Organic Chemistry; Ciriminna, R. et al.; Org. Process Res. Dev., 2015, 19, 755-768

640. Synthesis of Condensed Heterocycles by the Gould-Jacobs Reaction in a Novel Three-Mode Pyrolysis Reactor; Sipos, G. et al.; Org. Process Res. Dev., 2015, 19, 399-409

641. A continuous-flow synthesis of 1,4-benzodiazepin-5-ones, privileged scaffolds for drug discovery; Viviano, M. et al.; RSC Adv., 2015, 5, 1268-1273

642. Aerobic flow oxidation of alcohols in water catalyzed by platinum nanoparticles dispersed in an amphiphilic polymer; Osako, T. et al.; RSC Adv., 2015, 5, 2647-2654

643. An integrated flow and microwave approach to a broad spectrum protein kinase inhibitor; Russel, C. et al.; RSC Adv., 2015, 5, 93433-93437

644. Continuous-flow hydrogenation of olefins and nitrobenzenes catalyzed by platinum nanoparticles dispersed in an amphiphilic polymer; Osako, T. et al.; RSC Adv., 2015, 5, 45760-45766

645. Convergent synthesis of the hexasaccharide related to the repeating unit of the O-antigen from E. coli O120; Budhadev, D. et al.; RSC Adv., 2015, 5, 98033-98040

646. Valorization of lignin waste from hydrothermal treatment of biomass: towards porous carbonaceous composites for continuous hydrogenation; Chieffti, G. et al.; RSC Adv., 2015, 5, 63691-63696

647. Continuous-flow catalytic hydrogenation of 3a,6-epoxyisoindoles; Zubkov, F. I. et al.; Russian Chemical Bulletin, 2015, 64, 112-126

648. Formation of benzocyclobutenes from substituted oxocycloocta-2,8-diene-1,2-dicarboxylates; Bezensek, J. et al.; Tetrahedron Letters, 2015, 56(42), 5705-5708

649. Catalytic Epoxidation of Cyclohexene with Tert-butylhydroperoxide Using an Immobilized Molybdenum Catalyst; Morales-delaRosa, S. et al.; Top Catal., 2015, 58(4), 325-333

2014

650. Discovery of Tertiary Amine and Indole Derivatives as Potent RORγt Inverse Agonists; Yang, T. et al.; ACS Med. Chem. Lett., 2014, 5, 65-68

651. Synthesis of 3-Arylated 3,4-Dihydrocoumarins: Combining Continuous Flow Hydrogenation with Laccase-Catalysed Oxidation; Suljic, S. et al.; Adv. Synth. Catal., 2014, 356, 1007-1020

652. Microreactors for peptide synthesis: looking through the eyes of twenty first century !!!; Ramesh, S. et al.; Amino Acids, 2014, 46, 2091-2104

653. Integration of enabling methods for the automated flow preparation of piperazine-2-carboxamide; Ingham, R. J. et al.; Beilstein J. Org. Chem., 2014, 10, 641-652

654. Novel derivatives of usnic acid effectively inhibiting reproduction of influenza A virus; Shtro, A. A. et al.; Bioorg. Med. Chem., 2014, 22, 6826-6836

655. Chemical synthesis of a tetrasaccharide related to the exocellular polysaccharide from Rhodococcus sp. RHA1; Budhadev, D. et al.; Carbohydrate Research, 2014, 394, 26-31

656. Synthesis of the tetrasaccharide repeating unit of the O-glycan from the polar flagellum flagellin of Azospirillum brasilense Sp7; Pal, K. B. et al.; Carbohydrate Research, 2014, 400, 9-13

657. Synthesis of two trisaccharides related to the hepatoprotective phenylethanoids leonoside E and F isolated from Leonurus japonicus Houtt; Budhadev, D. et al.; Carbohydrate Research, 2014, 384, 51-55

658. Easy Access to Ni3N- and Ni-Carbon Nanocomposite Catalysts; Molinari, V. et al.; Chem. Eur. J., 2014, 20, 9018-9023

659. From the Lindlar Catalyst to Supported Ligand-Modified Palladium Nanoparticles: Selectivity Patterns and Accessibility Constraints in the Continuous-Flow Three-Phase Hydrogenation of Acetylenic Compounds; Vile, G. et al.; Chem. Eur. J., 2014, 20, 5926-5937

660. Epoxy Resin Monomers with Reduced Skin Sensitizing Potency; O'Boyle, N. M. et al.; Chem. Res. Toxicol., 2014, 27, 1002-1010

661. Immobilized Transition Metals as Catalysts for Cross-Couplings in Continuous Flow – A Critical Assessment of the Reaction Mechanism and Metal Leaching; Cantillo, D. et al.; ChemCatChem, 2014, 6, 3286-3305

662. Mild and Selective Hydrogenation of Nitro Compounds using Palladium Nanoparticles Supported on Amino- Functionalized Mesocellular Foam; Verho, O. et al.; ChemCatChem, 2014, 6, 3153-3159

663. Stereo- and Chemoselective Character of Supported CeO_2 Catalysts for Continuous-Flow Three-Phase Alkyne Hydrogenation; Vile, G. et al.; ChemCatChem, 2014, 6, 1928-1934

664. Present and Future of Cyclopropanations in Fragrance Chemistry; Schroder, F. et al.; Chemistry & Biodiversity, 2014, 11, 1734-1751

665. 3-Aminoazetidin-2-one Derivatives as N-Acylethanolamine Acid Amidase (NAAA) Inhibitors Suitable for Systemic Administration; Fiasella, A. et al.; ChemMedChem, 2014, 9, 1602-1614

666. Synthesis, Anti-tubulin and Antiproliferative SAR of Steroidomimetic Dihydroisoquinolinones; Leese, M. P. et al.; ChemMedChem, 2014, 9, 798-812

667. Synthesis, Antitubulin, and Antiproliferative SAR of C3/C1-Substituted Tetrahydroisoquinolines; Dohle, W. et al.; ChemMedChem, 2014, 9, 350-370

668. Synthesis, Structure-Activity, and Structure-Stability Relationships of 2-Substituted-N-(4-oxo-3-oxetanyl) N-Acylethanolamine Acid Amidase (NAAA) Inhibitors; Vitale, R. et al.; ChemMedChem, 2014, 9, 323-336

669. Tetrahydroisoquinolinone-based Steroidomimetic and Chimeric Microtubule Disruptors; Leese, M. P. et al.; ChemMedChem, 2014, 9, 85-108

670. Synthesis of Cross-Linked Glycopeptides and Ureas by a Mechanochemical, Solvent-Free Reaction and Determination of Their Structural Properties by TEM and X-ray Crystallography; Kumar, V. et al.; ChemPlusChem, 2014, 79, 1605-1613

671. Immobilized Iron Oxide Nanoparticles as Stable and Reusable Catalysts for Hydrazine-Mediated Nitro Reductions in Continuous Flow; Moghaddam, M. M. et al.; ChemSusChem, 2014, 7, 3122-3131

672. Life Cycle Analysis within Pharmaceutical Process Optimization and Intensification: Case Study of Active Pharmaceutical Ingredient Production; Kralisch, D. et al.; ChemSusChem, 2014, 7, 3521-3533

673. Enantiomeric Separation of Bicyclo[2.2.2]octane-Based 2-Amino-3-Carboxylic Acids on Macrocyclic Glycopeptide Chiral Stationary Phases; Pataj, Z. et al.; Chirality, 2014, 26, 200-208

674. Towards the development of chromone-based MEK1/2 modulators; Redwan, I. N. et al.; Eur. J. Med. Chem., 2014, 85, 127-138

675. Concise Synthesis of Vesnarinone and Its Analogues by Using Pd-Catalyzed C-N Bond-Forming Reactions; See, Y. Y. et al.; Eur. J. Org. Chem., 2014, 7405-7412

676. A continuous process for glyoxal valorisation using tailored Lewis-acid zeolite catalysts; Dapsens, P. Y. et al.; Green Chemistry, 2014, 16, 1176-1186

677. Carbonylation in microflow: close encounters of CO and reactive species; Fukuyama, T. et al.; Green Chemistry, 2014, 16, 2042-2050

678. Self-Optimizing Reactor Systems: Algorithms, On-line Analytics, Setups, and Strategies for Accelerating Continuous Flow Process Optimization; Fabry, D. C. et al.; Isr. J. Chem., 2014, 54, 341-350

679. First Example of Alkyl-Aryl Negishi Cross-Coupling in Flow: Mild, Efficient and Clean Introduction of Functionalized Alkyl Groups; Egle, B. et al.; J. Flow Chem., 2014, 4(1), 22-25

680. Fully Automated Sequence-Specific Synthesis of α-Peptides Using Flow Chemistry; Ladlow, M. et al.; J. Flow Chem., 2014, 4(1), 18-21

681. FeNi nanoparticles with carbon armor as sustainable hydrogenation catalysts: towards biorefineries; Chieffi, G. et al.; J. Mater. Chem. A, 2014, 2, 11591-11596

682. Design, Synthesis, and Pharmacological Evaluation of a Novel Series of Pyridopyrazine-1,6-dione γ-Secretase Modulators; Johnson, D. S. et al.; J. Med. Chem., 2014, 57, 1046-1062

683. Discovery and Early Development of TMC647055, a Non-Nucleoside Inhibitor of the Hepatitis C Virus NS5B Polymerase; Cummings, M. D. et al.; J. Med. Chem., 2014, 57, 1880-1892

684. Hepatitis C Virus NS5A Replication Complex Inhibitors. Part 6: Discovery of a Novel and Highly Potent Biarylimidazole Chemotype with Inhibitory Activity Toward Genotypes 1a and 1b Replicons; Nguyen, V. N. et al.; J. Med. Chem., 2014, 57, 1995-2012

685. N-[6-(4-Butanoyl-5-methyl-1H-pyrazol-1-yl)pyridazin-3-yl]-5-chloro-1-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1H-indole-3-carboxamide (SAR216471), a Novel Intravenous and Oral, Reversible, and Directly Acting P2Y12 Antagonist; Besse, A. et al.; J. Med. Chem., 2014, 57, 7293-7316

686. Synthesis and Structure-Activity Relationship Studies of 4-((2-Hydroxy-3-methoxybenzyl)amino)benzenesulfonamide Derivatives as Potent and Selective Inhibitors of 12-Lipoxygenase; Luci, D. K. et al.; J. Med. Chem., 2014, 57, 495-506

687. Synthesis and Structure-Activity Relationship Studies of N-Benzyl-2-phenylpyrimidin-4-amine Derivatives as Potent USP1/UAF1 Deubiquitinase Inhibitors with Anticancer Activity against Nonsmall Cell Lung Cancer; Dexheimer, T. S. et al.; J. Med. Chem., 2014, 57, 8099-8110

688. Synthesis, Biological Evaluation, and Molecular Modeling of New 3-(Cyclopentyloxy)-4-methoxybenzaldehyde O-(2-(2,6-Dimethylmorpholino)-2-oxoethyl) Oxime (GEBR-7b) Related Phosphodiesterase 4D (PDE4D) Inhibitors; Brullo, C. et al.; J. Med. Chem., 2014, 57, 7061-7072

689. Aziridine Ring Opening for the Synthesis of Sphingolipid Analogues: Inhibitors of Sphingolipid-Metabolizing Enzymes; Alcaide, A. et al.; J. Org. Chem., 2014, 79, 2993-3029

690. Intramolecular Aglycon Delivery Enables the Synthesis of 6-Deoxy-β-D-manno-heptosides as Fragments of Burkholderia pseudomallei and Burkholderia mallei Capsular Polysaccharide; Kenfack, M. T. et al.; J. Org. Chem., 2014, 79, 4615-4634

691. Synthesis of α-Substituted Vinylsulfonium Salts and Their Application as Annulation Reagents in the Formation of Epoxide and Cyclopropane-Fused Heterocycles; Matlock, J. V. et al.; J. Org. Chem., 2014, 79, 10226-10239

692. Total Synthesis of the Macrocyclic N-Methyl Enamides Palmyrolide A and 2S-Sanctolide A; Wadsworth, A. D. et al.; J. Org. Chem., 2014, 79, 11179-11193

693. Titanium Nitride-Nickel Nanocomposite as Heterogeneous Catalyst for the Hydrogenolysis of Aryl Ethers; Molinari, V. et al.; JACS, 2014, 136, 1758-1761

694. Evaluation of SILP-Pd catalysts for Heck reactions in amicrofluidics-based high throughput flow reactor; Urban, B. et al.; Journal of Molecular Catalysis A: Chemical, 2014, 395, 364-372

695. Tools for chemical synthesis in microsystems; Reizman, B. J. et al.; Lab Chip, 2014, 14, 3206-3212

696. Isolation and Characterization of Anti-Adenoviral Secondary Metabolites from Marine Actinobacteria; Strand, M. et al.; Marine Drugs, 2014, 12, 799-821

697. Discovery of acrylonitrile-based small molecules active against Haemonchus contortus; Gordon, C. P. et al.; Med. Chem. Commun., 2014, 5, 159-164

698. Evaluation of functional groups as acetyl-lysine mimetics for BET bromodomain inhibition; Sharp, P. P. et al.; Med. Chem. Commun., 2014, 5, 1834-1842

699. Synthesis of Riboflavines, Quinoxalinones and Benzodiazepines through Chemoselective Flow Based Hydrogenations; Baumann, M. et al.; Molecules, 2014, 19, 9736-9759

700. Beyond the Use of Modifiers in Selective Alkyne Hydrogenation: Silver and Gold Nanocatalysts in Flow Mode for Sustainable Alkene Production; Vile, G. et al.; Nanoscale, 2014, 6, 13476-13482

701. An efficient continuous flow approach to furnish furan-based biaryls; Trinh, T. N. et al.; Org. Biomol. Chem., 2014, 12, 9562-9571

702. Comparison of alternative nucleophiles for Sortase A-mediated bioconjugation and application in neuronal cell labelling; Baer, S. et al.; Org. Biomol. Chem., 2014, 12, 2675-2685

703. Measurement of supramolecular effective molarities for intramolecular H-bonds in zinc porphyrin-imidazole complexes; Jinks, M. A. et al.; Org. Biomol. Chem., 2014, 12, 1440-1447

704. Multivalent agents containing 1-substituted 2,3,4-trihydroxyphenyl moieties as novel synthetic polyphenols directed against HIV-1; Flores, A. et al.; Org. Biomol. Chem., 2014, 12, 5278-5294

705. Non-stoichiometric O-acetylation of Shigella flexneri 2a O-specific polysaccharide: synthesis and antigenicity; Gauthier, C. et al.; Org. Biomol. Chem., 2014, 12, 4218-4232

706. Synthesis and biological evaluation of dual action cyclo-RGD/SMAC mimetic conjugates targeting αvβ3/αvβ5 integrins and IAP proteins; Mingozzi, M. et al.; Org. Biomol. Chem., 2014, 12, 3288-3302

707. Synthesis of aromatic 13C/2H- α -ketoacid precursors to be used in selective phenylalanine and tyrosine protein labelling; Lichtenecker, R. J. et al.; Org. Biomol. Chem., 2014, 12, 7551-7560

708. Sonogashira cross-coupling under non-basic conditions. Flow chemistry as a new paradigm in reaction control; Voltrova, S. et al.; Org. Chem. Front., 2014, 1, 1067-1071

709. Cubanes in Medicinal Chemistry: Synthesis of Functionalized Building Blocks; Wlochal, J. et al.; Org. Lett., 2014, 16, 4094-4097

710. A Continuous-Flow Microwave Reactor for Conducting High-Temperature and High-Pressure Chemical Reactions; Sauks, J. M. et al.; Org. Process Res. Dev., 2014, 18, 1310-1314

711. Eco-efficiency Analysis for Intensified Production of an Active Pharmaceutical Ingredient: A Case Study; Dencic, I. et al.; Org. Process Res. Dev., 2014, 18, 1326-1338

712. Improved Continuous Flow Processing: Benzimidazole Ring Formation via Catalytic Hydrogenation of an Aromatic Nitro Compound; Przyuski, K. et al.; Org. Process Res. Dev., 2014, 18, 1427-1433

713. Process Intensification for the Continuous Flow Hydrogenation of Ethyl Nicotinate; Ouchi, T. et al.; Org. Process Res. Dev., 2014, 18, 1560-1566

714. Sequential Nitration/Hydrogenation Protocol for the Synthesis of Triaminophloroglucinol: Safe Generation and Use of an Explosive Intermediate under Continuous-Flow Conditions; Cantillo, D. et al.; Org. Process Res. Dev., 2014, 18, 1360-1366

715. Synthesis of 2,6,8,12-Tetraacetyl-2,4,6,8,10,12-hexaazaisowurtzitane (TAIW) from 2,6,8,12-Tetraacetyl-4,10-dibenzyl-2,4,6,8,10,12-hexaazaisowurtzitane (TADBIW) by Catalytic Hydrogenolysis Using a Continuous Flow Process; Dong, K. et al.; Org. Process Res. Dev., 2014, 18, 1321-1325

716. A Novel Aminothiazole KY-05009 with Potential to Inhibit Traf2- and Nck-Interacting Kinase (TNIK) Attenuates TGF-b1-Mediated Epithelial-to-Mesenchymal Transition in Human Lung Adenocarcinoma A549 Cells; Kim, J. et al.; PLoS One, 2014, 9(10), e110180

717. Can two-dimensional gas chromatography/mass spectrometric identification of bicyclic aromatic acids in petroleum fractions help to reveal further details of aromatic hydrocarbon biotransformation pathways?; West, C. E. et al.; Rapid Commun Mass Spectrom., 2014, 28, 1023-1032

718. Chemoselective flow hydrogenation approaches to isoindole-7-carboxylic acids and 7-oxa-bicyclio[2.2.1]heptanes; Hizartzidis, L. et al.; RSC Adv., 2014, 4, 9709-9722

719. Expanding the utility of flow hydrogenation – a robust protocol restricting hydrodehalogenation; Hizartzidis, L. et al.; RSC Adv., 2014, 4, 56743-56748

720. Flash carboxylation: fast lithiation-carboxylation sequence at room temperature in continuous flow; Pieber, B. et al.; RSC Adv., 2014, 4, 13430-13433

721. Systematic evaluation of the palladium-catalyzed hydrogenation under flow conditions; Hattori, T. et al.; Tetrahedron, 2014, 70, 4790-4798

722. Benzoxazinone synthesis via Passerini-Smiles couplings; Martinand-Lurin, E. et al.; Tetrahedron Letters, 2014, 55, 5144-5146

723. Chemistry of pyrrolizidine alkaloids revisited – semi-synthetic microwave and continuous-flow approaches toward Crotalaria-alkaloids; Martinez, S. T. et al.; Tetrahedron Letters, 2014, 55, 4181-4184

724. Green and scalable procedure for extremely fast ligandless Suzuki-Miyaura cross-coupling reactions in aqueous IPA using solid-supported Pd in continuous flow; Rincon, J. A. et al.; Tetrahedron Letters, 2014, 55, 3701-3705

725. Syntheses of 4-, 5-, 6-, and 7-substituted tryptamine derivatives and the use of a bromine atom as a protecting group; Fauber, B. P. et al.; Tetrahedron Letters, 2014, 55, 830-833

726. Synthesis of an azabicyclic framework towards (±)-actinophyllic acid; Mortimer, D. et al.; Tetrahedron Letters, 2014, 55, 1255-1257

727. Evaluating dynamic kinetic resolution strategies in the asymmetric hydrosilylation of cyclic ketimines; Zhao, P. et al.; Tetrahedron: Asymmetry, 2014, 25, 238-244

728. Stereoselective syntheses and transformations of chiral 1,3-aminoalcohols and 1,3-diols derived from nopinone; Szakonyi, Zs. et al.; Tetrahedron: Asymmetry, 2014, 25, 1138-1145

2013

729. Recent Advances in Asymmetric Catalysis in Flow; Zhao, D. et al.; ACS Catal., 2013, 3(5), 928-944

730. De Novo Design of Protein Kinase Inhibitors by in Silico Identification of Hinge Region-Binding Fragments; Urich, R. et al.; ACS Chem. Biol., 2013, 8, 1044-1052

731. Disubstituted 1-Aryl-4-Aminopiperidine Library Synthesis Using Computational Drug Design and High-Throughput Batch and Flow Technologies; Bryan, M. C. et al.; ACS Comb. Sci., 2013, 15(9), 503-511

732. Characterization of Dispersion Effects on Reaction Optimization and Scale-Up for a Packed Bed Flow Hydrogenation Reactor; Wernick, D. et al.; Aust. J. Chem., 2013, 66, 165-171

733. Efficient continuous-flow synthesis of novel 1,2,3-triazole-substituted β-aminocyclohexanecarboxylic acid derivatives with gram-scale production; Otvos, S. B. et al.; Beilstein J. Org. Chem., 2013, 9, 1508-1516

734. Flow Synthesis of a versatile fructosamine mimic and quenching studies of a fructose transport probe; Plutschack, M. B. et al.; Beilstein J. Org. Chem., 2013, 9, 2022-2027

735. Synthesis and biological evaluation of halogenated curcumin analogs as potential nuclear receptor selective agonists; Batie, S. et al.; Bioorg. Med. Chem., 2013, 21, 693-702

736. Synthesis of new 18F-radiolabeled silicon-based nitroimidazole compounds; Joyard, Y. et al.; Bioorg. Med. Chem., 2013, 21, 3680-3688

737. Discovery of N-[[1-[2-(tert-butylcarbamoylamino)ethyl]-4-(hydroxymethyl)-4-piperidyl]methyl]-3,5-dichloro-benzamide as a selective T-type calcium channel (Cav3.2) inhibitor; Wallberg, A. et al.; Bioorg. Med. Chem. Lett., 2013, 23, 119-124

738. Mitigation of cardiovascular toxicity in a series of CSF-1R inhibitors, and the identification of AZD7507; Dakin, L. A. et al.; Bioorg. Med. Chem. Lett., 2013, 23, 4591-4596

739. Octahydropyrrolo[3,4-c]pyrrole negative allosteric modulators of mGlu1; Manka , J. T. et al.; Bioorg. Med. Chem. Lett., 2013, 23, 5091-5096

740. Application of Factorial Design of Experiments for the Continuous Hydrogenation of Enriched Castor Oil Methyl Esters; Neeharika, T. S. V. R. et al.; Bull. Chem. React. Eng. Catal., 2013, 8(2), 154-159

741. Concise synthesis of the trisaccharide repeating unit of the O-polysaccharide from Aeromonas hydrophila A19 (O:14); Pal, K. B. et al.; Carbohydrate Research, 2013, 379, 26-29

742. Gram scale de novo synthesis of 2,4-diacetamido-2,4,6-trideoxy-D-galactose; Schmolzer, C. et al.; Carbohydrate Research, 2013, 367, 1-4

743. Alkyne-Azide Cycloadditions with Copper Powder in a High-Pressure Continuous-Flow Reactor: High-Temperature Conditions versus the Role of Additives; Otvos, S. B. et al.; Chem. Asian J., 2013, 8, 800-808

744. Rapid microfluidic flow hydrogenation for reduction or deprotection of 18F-labeled compounds; Liang, S. H. et al.; Chem. Commun., 2013, 49, 8755-8757

745. A Modular Synthesis of Teraryl-Based a-Helix Mimetics, Part 2: Synthesis of 5-Pyridine Boronic Acid Pinacol Ester Building Blocks with Amino Acid Side Chains in 3-Position; Peters, M. et al.; Chem. Eur. J., 2013, 19, 2450-2456

746. Multistep Continuous-Flow Synthesis in Medicinal Chemistry: Discovery and Preliminary Structure-Activity Relationships of CCR8 Ligands; Petersen, T. P. et al.; Chem. Eur. J., 2013, 19, 9343-9350

747. Site-Selective Deuterated-Alkene Synthesis with Palladium on Boron Nitride; Yabe, Y. et al.; Chem. Eur. J., 2013, 19(2), 484-488

748. Total Synthesis, Stereochemical Assignment, and Biological Activity of Chamuvarinin and Structural Analogues; Morris, J. C. et al.; Chem. Eur. J., 2013, 19, 8309-8320

749. Flow Chemistry Syntheses of Natural Products; Pastre, J. C. et al.; Chem. Soc. Rev., 2013, 42, 8849-8869

750. The integration of flow reactors into synthetic organic chemistry; Baxendale, I. R. et al.; Chem. Tech. Biotech., 2013, 88, 519-552

751. Single Operation Stereoselective Synthesis of Aerangis Lactones: Combining Continuous Flow Hydrogenation and Biocatalysts in a Chemoenzymatic Sequence; Fink, M. J. et al.; ChemCatChem, 2013, 5, 724-727

752. Flow chemistry for designing sustainable chemical synthesis; Vaddula, B. R. et al.; Chemistry Today, 2013, 31, 16-20

753. Design of a Highly Selective and Potent Class of Non-planar Estrogen Receptor β Agonists; Sunden, H. et al.; ChemMedChem, 2013, 8, 1283-1294

754. Novel Process Windows for Enabling, Accelerating, and Uplifting Flow Chemistry; Kralisch, D. et al.; ChemSusChem, 2013, 6, 746-789

755. A remote-controlled adaptive medchem lab: an innovative approach to enable drug discovery in the 21st Century; Masquelin, T. et al.; Drug Discovery Today, 2013, 18, 795-802

756. 3-(Oxazolo[4,5-b]pyridin-2-yl)anilides as a novel class of potent inhibitors for the kinetoplastid Trypanosoma brucei, the causative agent for human African trypanosomiasis; Ferrins, L. et al.; Eur. J. Med. Chem., 2013, 66, 450-465

757. Structural Studies of the O-Acetyl-Containing O-Antigen from a Shigella flexneri Serotype 6 Strain and Synthesis of Oligosaccharide Fragments Thereof; Chassagne, P. et al.; Eur. J. Org. Chem., 2013, 4085-4106

758. Synthesis of 3-Hydroxypipecolic Acids; Cochi, A. et al.; Eur. J. Org. Chem., 2013, 809-829

759. Self-assembly of a helical zinc-europium complex: speciation in aqueous solution and luminescence; Deiters, E. et al.; Frontiers in Chemistry, 2013, 1, 15

760. Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals; Bermudez, J. M. et al.; Green Chemistry, 2013, 15, 2786-2792

761. Highly efficient iron(0) nanoparticle-catalyzed hydrogenation in water in flow; Hudson, R. et al.; Green Chemistry, 2013, 15, 2141-2148

762. Nanocatalysis in continuous flow: supported iron oxide nanoparticles for the heterogeneous aerobic oxidation of benzyl alcohol; Obermayer, D. et al.; Green Chemistry, 2013, 15, 1530-1537

763. The role of flow in green chemistry and engineering; Newman, S. G. et al.; Green Chemistry, 2013, 15, 1456-1472

764. Flow chemistry approaches directed at improving chemical synthesis; Brocken, L. et al.; Green Process. Synth., 2013, 2, 211-230

765. Microwave heating and conventionally-heated continuous-flow processing as tools for performing cleaner palladium-catalyzed decarboxylative couplings using oxygen as the oxidant – a proof of principle study; Rudzinski, D. M. et al.; Green Process. Synth., 2013, 2, 323-328

766. Electrochemical Phenylselenoetherification as a Key Step in the Synthesis of (±)-Curcumene Ether; Stevanovic, D. et al.; Helvetica Chimica Acta, 2013, 96, 1103-1110

767. Ruthenium and osmium complexes of novel carbohydrate derived salen ligands: Synthesis, characterization and in situ ligand reduction; Mandal, S. et al.; Inorganica Chimica Acta, 2013, 398, 83-88

768. Visually Following the Hydrogenation of Curcumin to Tetrahydrocurcumin in a Natural Product Experiment That Enhances Student Understanding of NMR Spectroscopy; Marshall, P. A. et al.; J. Chem. Educ., 2013, 90, 930-933

769. Important industrial procedures revisited in flow: Very efficient oxidation and N-alkylation reactions with high atom-economy; Sipos, G. et al.; J. Flow Chem., 2013, 3(2), 51-58

770. Design and Synthesis of Diazatricyclodecane Agonists of the G-Protein-Coupled Receptor 119; Darout, E. et al.; J. Med. Chem., 2013, 56, 301-319

771. Development of Second-Generation Indole-Based Dynamin GTPase Inhibitors; Gordon, C. P. et al.; J. Med. Chem., 2013, 56, 46-59

772. Discovery of a New Class of Highly Potent Inhibitors of Acid Ceramidase: Synthesis and Structure-Activity Relationship (SAR); Pizzirani, D. et al.; J. Med. Chem., 2013, 56, 3518-3530

773. Rapid Discovery of a Novel Series of Abl Kinase Inhibitors by Application of an Integrated Microfluidic Synthesis and Screening Platform; Desai, B. et al.; J. Med. Chem., 2013, 56, 3033-3047

774. Synthesis and Structure-Activity Relationship (SAR) of 2-Methyl-4-oxo-3-oxetanylcarbamic Acid Esters, a Class of Potent N-Acylethanolamine Acid Amidase (NAAA) Inhibitors; Ponzano, S. et al.; J. Med. Chem., 2013, 56, 6917-6934

775. Applying Flow Chemistry: Methods, Materials, and Multistep Synthesis; Seeberger, P. H. et al.; J. Org. Chem., 2013, 78, 6384-6389

776. Synthesis of 4-Fluoromethylsydnones and their Participation in Alkyne Cycloaddition Reactions; Foster, R. S. et al.; J. Org. Chem., 2013, 78, 4049-4064

777. A benchtop continuous flow reactor: A solution to the hazards posed by gas cylinder based hydrogenation; Dorman, Gy. et al.; Journal of Chemical Health and Safety, 2013, 20(4), 3-8

778. Studies of long chain lipids in insects by high temperature gas chromatography and high temperature gas chromatography-mass spectrometry; Sutton, P. A. et al.; Journal of Chromatography A, 2013, 1297, 236-240

779. How the mode of Candida antarctica lipase B immobilization affects the continuous-flow kinetic resolution of racemic amines at various temperatures; Boros, Z. et al.; Journal of Molecular Catalysis B: Enzymatic, 2013, 85-86, 119-125

780. Towards a continuous flow environment for lipase-catalyzed reactions; Itabaiana, I. et al.; Journal of Molecular Catalysis B: Enzymatic, 2013, 85-86, 1-9

781. α-1,4-Galactosyltransferase-catalyzed glycosylation of sugar and lipid modified Leu-enkephalins; Christie, M. P. et al.; Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 196-202

782. VUT-MK142: a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes; Koley, M. et al.; Med. Chem. Commun., 2013, 4(8), 1189-1195

783. Syntheses of Four Enantiomers of 2,3-Diendo- and 3-Endo-aminobicyclo[2.2.2]oct-5-ene-2-exo-carboxylic Acid and Their Saturated Analogues; Palko, M. et al.; Molecules, 2013, 18, 15080-15093

784. A three step continuous flow synthesis of the biaryl unit of the HIV protease inhibitor Atazanavir; Dalla-Vechia, L. et al.; Org. Biomol. Chem., 2013, 11, 6806-6813

785. Enantioselective access to benzannulated spiroketals using a chiral sulfoxide auxiliary; Aitken, H. R. M. et al.; Org. Biomol. Chem., 2013, 11, 5147-5155

786. Spirocyclic Dihydropyridines by Electrophile-Induced Dearomatizing Cyclization of N-Alkenyl Pyridinecarboxamides; Senczyszyn, J. et al.; Org. Lett., 2013, 15(8), 1922-1925

787. Latest Highlights in Liquid-Phase Reactions for Organic Synthesis in Microreactors; Protasova, L. N. et al.; Org. Process Res. Dev., 2013, 17, 760-791

788. Concise synthesis of a tetra- and a trisaccharide related to the repeating unit of the O-antigen from Providencia rustigianii O34 in the form of their p-methoxyhenyl glycosides; Verma, P. R. et al.; RSC Adv., 2013, 3, 201-207

789. Synthesis of γ-valerolactone using a continuous-flow reactor; Tukacs, J. M. et al.; RSC Adv., 2013, 3, 16283-16287

790. Versatile low-loaded mechanochemically synthesized supported iron oxide nanoparticles for continuous flow alkylations; Balu, A. M. et al.; RSC Adv., 2013, 3, 16292-16295

791. Chemical and bacterial reduction of azo-probes: monitoring a conformational change using fluorescence spectroscopy; Rattray, N. J. W. et al.; Tetrahedron, 2013, 69, 2758-2766

792. Concise synthesis of di- and trisaccharides related to the O-antigens from Shigella flexneri serotypes 6 and 6a, based on late stage mono-O-acetylation and/or site-selective oxidation; Chassagne, P. et al.; Tetrahedron, 2013, 69, 10337-10350

793. Synthesis and photophysical characterization of 1- and 4-(purinyl)triazoles; Redwan, I. N. et al.; Tetrahedron, 2013, 69, 8857-8864

794. Total syntheses of the dipyrrolobenzoquinone (+)-terreusinone enabled by an evaluation of 4-methylpent-1-yn-3-ols in the Larock indole synthesis; Wang, C. et al.; Tetrahedron, 2013, 69, 4563-4577

795. Exploration of versatile reactions on 2-chloro-3-nitroimidazo[1,2-a]pyridine: expanding structural diversity of C2- and C3-functionalized imidazo[1,2-a]pyridines; Bazin, M. A. et al.; Tetrahedron Letters, 2013, 54, 5378-5382

796. Flow synthesis of annulated 5-aryl-substituted pyridines by tandem intramolecular inverse-electron-demand hetero-/retro-Diels-Alder reaction; Lenz, M. et al.; Tetrahedron Letters, 2013, 54, 6703-6707

797. Continuous-flow enzymatic resolution strategy for the acylation of amino alcohols with a remote stereogenic centre: synthesis of calycotomine enantiomers; Schonstein, L. et al.; Tetrahedron: Asymmetry, 2013, 24, 202-206

798. Enzymatic reactions for the preparation of homocalycotomine enantiomers; Schonstein, L. et al.; Tetrahedron: Asymmetry, 2013, 24, 1059-1062

2012

799. Flow Chemistry – A Key Enabling Technology for (Multistep) Organic Synthesis; Wegner, J. et al.; Adv. Synth. Catal., 2012, 354, 17-57

800. Homo- and heterodimeric Smac mimetics/IAP inhibitors as in vivo-active pro-apoptotic agents. Part I: Synthesis; Manzoni, L. et al.; Bioorg. Med. Chem., 2012, 20(22), 6687-6708

801. Synthesis and biological characterization of sirtuin inhibitors based on the tenovins; McCarthy, A. R. et al.; Bioorg. Med. Chem., 2012, 20, 1779-1793

802. Synthesis of Staphylococcus aureus type 5 capsular polysaccharide repeating unit using novel L-FucNAc and D-FucNAc synthons and immunochemical evaluation; Danieli, E. et al.; Bioorg. Med. Chem., 2012, 20(21), 6403-6415

803. Discovery of 4-morpholino-pyrimidin-6-one and 4-morpholino-pyrimidin-2-one-containing Phosphoinositide 3-kinase (PI3K) p110β isoform inhibitors through structure-based fragment optimisation; Wallberg, A. et al.; Bioorg. Med. Chem. Lett., 2012, 22(21), 6665-6670

804. Discovery of selective biaryl ethers as PDE10A inhibitors: Improvement in potency and mitigation of Pgp-mediated efflux; Hu, E. et al.; Bioorg. Med. Chem. Lett., 2012, 22(24), 7371-7375

805. An alternative route for fondaparinux sodium synthesis via selective hydrogenations and sulfation of appropriate pentasaccharides; Koziol, A. et al.; Carbohydrate Research, 2012, 361, 155-161

806. A practical and benign synthesis of amines through Pd@mpg-C3N4 catalyzed reduction of nitriles; Li, Y. et al.; Cat. Comm., 2012, 28, 9-12

807. Heterogeneous Enantioselective Hydrogenation in a Continuous-flow Fixed-bed Reactor System: Hydrogenation of Activated Ketones and Their Binary Mixtures on Pt-Alumina-Cinchona Alkaloid Catalysts; Szollosi, Gy. et al.; Catal. Lett., 2012, 142(7), 889-894

808. Continuous-Flow Processes in Heterogeneously Catalyzed Transformations of Biomass Derivatives into Fuels and Chemicals; Luque, R. et al.; Challenges, 2012, 3, 114-132

809. Microwave-assisted synthesis of medium-sized heterocycles; Sharma, A. et al.; Chem. Commun., 2012, 48, 1623-1637

810. Reversible and Efficient Inhibition of UDP-Galactopyranose Mutase by Electrophilic, Constrained and Unsaturated UDP-Galactitol Analogues; Ansiaux, C. et al.; Chem. Eur. J., 2012, 18, 14860-14866

811. Papain-Specific Activating Esters in Aqueous Dipeptide Synthesis; de Beer, R. J. A. C. et al.; ChemBioChem, 2012, 13(9), 1319-1326

812. Modeling, Synthesis and Biological Evaluation of Potential Retinoid X Receptor-Selective Agonists: Novel Halogenated Analogues of 4-[1-(3,5,5,8,8-Pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic Acid (Bexarotene); Furmick, J. K. et al.; ChemMedChem, 2012, 7(9), 1551-1566

813. Application of Metal-Based Reagents and Catalysts in Microstructured Flow Devices; Chinnusamy, T. et al.; ChemSusChem, 2012, 5(2), 247-255

814. Highly Efficient 1,4-Addition of Aldehydes to Nitroolefins: Organocatalysis in Continuous Flow by Solid-Supported Peptidic Catalysts; Otvos, S. B. et al.; ChemSusChem, 2012, 5(2), 266-269

815. Synthesis and anticancer activity of a series of norcantharidin analogues; Tarleton, M. et al.; Eur. J. Med. Chem., 2012, 54, 573-581

816. Synthesis and biological evaluation of 2,3-diarylimidazo[1,2-a]pyridines as antileishmanial agents; Marhadour, S. et al.; Eur. J. Med. Chem., 2012, 58, 543-556

817. Access to Optically Active 3-Aminopiperidines by Ring Expansion of Prolinols: Thermodynamic versus Kinetic Control; Cochi, A. et al.; Eur. J. Org. Chem., 2012, 2023-2040

818. Stereocontrolled Synthesis of the cis-Hydroxydecalin System: Towards Biologically Active 19-nor-Clerodanes; Mirzayans, P. M. et al.; Eur. J. Org. Chem., 2012, 1633-1638

819. Synthesis of Amines from Alcohols in a Nonepimerizing One-Pot Sequence – Synthesis of Bioactive Compounds: Cinacalcet and Dexoxadrol; Guerin, C. et al.; Eur. J. Org. Chem., 2012, 2990-3000

820. Asymmetric hydrogenation of C=C double bonds using Rh-complex under homogeneous, heterogeneous and continuous mode conditions; Balogh, Sz. et al.; Green Chemistry, 2012, 14, 1146-1151

821. Catalysis in flow: Au-catalysed alkylation of amines by alcohols; Zotova, N. et al.; Green Chemistry, 2012, 14, 226-232

822. Continuous flow reactors: a perspective; Watts, P. et al.; Green Chemistry, 2012, 14, 38-54

823. Methylation using dimethylcarbonate catalysed by ionic liquids under continuous flow conditions; Glasnov, T. N. et al.; Green Chemistry, 2012, 14, 3071-3076

824. Versatile dual hydrogenation-oxidation nanocatalysts for the aqueous transformation of biomass-derived platform molecules; Balu A. M. et al.; Green Chemistry, 2012, 14, 1434-1439

825. A Method to Identify Best Available Technologies (BAT) for Hydrogenation Reactors in the Pharmaceutical Industry; Van Le Doan, T. et al.; J. Flow Chem., 2012, 2(3), 77-82

826. Safe Generation and Synthetic Utilization of Hydrazoic Acid in a Continuous Flow Reactor; Gutmann, B. et al.; J. Flow Chem., 2012, 2(1), 8-19

827. User Friendly and Flexible Kiliani Reaction on Ketoses Using Microreaction Technology; Cukalovic, A. et al.; J. Flow Chem., 2012, 2(2), 43-46

828. Continuous Flow Synthesis. A Pharma Perspective; Susanne, F. et al.; J. Med. Chem., 2012, 55(9), 4062-4098

829. Development of o-Chlorophenyl Substituted Pyrimidines as Exceptionally Potent Aurora Kinase Inhibitors; Lawrence, H. R. et al.; J. Med. Chem., 2012, 55(17), 7392-7416

830. Discovery and Optimization of a Novel Spiropyrrolidine Inhibitor of β-Secretase (BACE1) through Fragment-Based Drug Design; Vajdos, F. F. et al.; J. Med. Chem., 2012, 55(21), 9069-9088

831. Discovery and Optimization of C-2 Methyl Imidazopyrrolopyridines as Potent and Orally Bioavailable JAK1 Inhibitors with Selectivity over JAK2; Mendonca, R. et al.; J. Med. Chem., 2012, 55(13), 6176-6193

832. Discovery and Synthesis of Hydronaphthoquinones as Novel Proteasome Inhibitors; Ge, Y. et al.; J. Med. Chem., 2012, 55(5), 1978-1998

833. Discovery of 7- Methyl-5-(1-{[3-(trifluoromethyl)phenyl]acetyl}-2,3- dihydro-1H-indol-5-yl)- 7H-pyrrolo[2,3-d]pyrimidin-4-amine (GSK2606414), a Potent and Selective First-in-Class Inhibitor of Protein Kinase R (PKR)-like Endoplasmic Reticulum Kinase (PERK); Medina, J. R. et al.; J. Med. Chem., 2012, 55(16), 7193-7207

834. Identification and Characterization of Carprofen as a Multitarget Fatty Acid Amide Hydrolase/Cyclooxygenase Inhibitor; Favia, A. D. et al.; J. Med. Chem., 2012, 55(20), 8807-8826

835. Structure-Based Design of Potent and Ligand-Efficient Inhibitors of CTX-M Class A β-Lactamase; Nichols, D. A. et al.; J. Med. Chem., 2012, 55(5), 2163-2172

836. Synthesis and Biological Evaluation of an Orally Active Glycosylated Endomorphin-1; Varamini, P. et al.; J. Med. Chem., 2012, 55(12), 5859-5867

837. Synthesis, Evaluation, and Radiolabeling of New Potent Positive Allosteric Modulators of the Metabotropic Glutamate Receptor 2 as Potential Tracers for Positron Emission Tomography Imaging; Alcazar, J. et al.; J. Med. Chem., 2012, 55(20), 8685-8699

838. Flash Flow Pyrolysis: Mimicking Flash Vacuum Pyrolysis in a High-Temperature/High-Pressure Liquid-Phase Microreactor Environment; Cantillo, D. et al.; J. Org. Chem., 2012, 77, 2463-2473

839. Synthesis of Phenols via Fluoride-free Oxidation of Arylsilanes and Arylmethoxysilanes; Rayment, E. J. et al.; J. Org. Chem., 2012, 77, 7052-7060

840. Asymmetric aldol reaction in a continuous-flow reactor catalyzed by a highly reusable heterogeneous peptide; Otvos, S. B. et al.; Journal of Catalysis, 2012, 295, 179-185

841. Micro reactors, flow reactors and continuous flow synthesis; Wiles, C. et al.; Journal of Chemical Research, 2012, 36, 181-193

842. Fatty acids residue from palm oil refining process as feedstock for lipase catalyzed monoacylglicerol production under batch and continuous flow conditions; Junior, I. I. et al.; Journal of Molecular Catalysis B: Enzymatic, 2012, 77, 53-58

843. De novo design, synthesis and pharmacological evaluation of new azaindole derivatives as dual inhibitors of Abl and Src kinases; Chev,, G. et al.; Med. Chem. Commun., 2012, 3, 788-800

844. Parallel synthesis of 1,2,4-triazole derivatives using microwave and continuous-flow techniques; Szommer, T. et al.; Mol. Divers., 2012, 16(1), 81-90

845. Diastereoselective 1,3-Dipolar Cycloaddition of Pyrylium Ylides with Chiral Enamides; Sloan, C. et al.; Org. Biomol. Chem., 2012, 10, 4215-4219

846. Rapid synthesis of substituted pyrrolines and pyrrolidines by nucleophilic ring closure at activated oximes; Chandan, N. et al.; Org. Biomol. Chem., 2012, 10, 7863-7868

847. Synthesis of a new family of acyclic nucleoside phosphonates, analogues of TPases transition states; Dayde, B. J. et al.; Org. Biomol. Chem., 2012, 10, 3448-3454

848. First Enantioselective Total Synthesis of (+)-(R)-Pinnatolide Using an Asymmetric Domino Allylation Reaction; Wolfram, T. et al.; Org. Lett., 2012, 14(16), 4035-4037

849. Lipase-Catalyzed Monostearin Synthesis Under Continuous Flow Conditions; Junior, I. I. et al.; Org. Process Res. Dev., 2012, 16(5), 1098-1101

850. Process Development of a Potent Glucosylceramide Synthase Inhibitor; Lee, E. R. et al.; Org. Process Res. Dev., 2012, 16(5), 1090-1097

851. Using Continuous Processes to Increase Production; Anderson, N. G. et al.; Org. Process Res. Dev., 2012, 16(5), 852-869

852. Fragment-Hopping-Based Discovery of a Novel Chemical Series of Proto-Oncogene PIM-1 Kinase Inhibitors; Saluste, G. et al.; PLoS One, 2012, 7(10), e45964

853. Reductive Amination by Continuous-Flow Hydrogenation: Direct and Scalable Synthesis of a Benzylpiperazine; Fitzgerald, A. E. et al.; Synthesis, 2012, 44, 2469-2473

854. Scale-Up of Flow-Assisted Synthesis of C2-Symmetric Chiral PyBox Ligands; Battilocchio, C. et al.; Synthesis, 2012, 4, 635-647

855. Investigation, optimization and synthesis of sulfamoyloxy-linked aminoacyl-AMP analogues; Redwan, I. N. et al.; Tetrahedron, 2012, 68, 1507-1514

856. Metal-catalyzed amidation; Roy, S. et al.; Tetrahedron, 2012, 68, 9867-9923

857. Scalable synthesis of an integrin-binding peptide mimetic for biomedical applications; Cablewski, T. et al.; Tetrahedron, 2012, 68, 9448-9455

858. Synthesis and arylation of unprotected sulfonimidamides; Maldonado, M. F. et al.; Tetrahedron, 2012, 68, 7456-7462

859. Synthesis of a biphenyl library for studies of hydrogen bonding in the solid state; Baltus, C. B. et al.; Tetrahedron, 2012, 68, 9272-9277

860. Efficient and scalable synthesis of thiazole fused benzazepine as a D2 partial agonist; Wu, Y. et al.; Tetrahedron Letters, 2012, 53, 5833-5836

861. Highly efficient thermal cyclization reactions of alkylidene esters in continuous flow to give aromatic/heteroaromatic derivatives; Lengyel, L. et al.; Tetrahedron Letters, 2012, 53, 738-743

862. High-speed microwave assisted synthesis of SEA0400 – a selective inhibitor of the Na^+/Ca^{2+} exchanger; de la Cruz, G. G. et al.; Tetrahedron Letters, 2012, 53, 3731-3734

863. Microwave-mediated synthesis and manipulation of a 2-substituted-5-aminooxazole-4-carbonitrile library; Patel, H. et al.; Tetrahedron Letters, 2012, 53, 1656-1659

864. Reagent-controlled stereoselective synthesis of (±)-gallo- and (±)-epigallo-catechin gallates; Tanaka, H. et al.; Tetrahedron Letters, 2012, 53, 2493-2495

865. Synthesis of N-aryl spiro-sulfamides as potential glycogen phosphorylase inhibitors; Tite, T. et al.; Tetrahedron Letters, 2012, 53, 959-961

866. Total synthesis of (±)-monomorine; Le, T. Q. et al.; Tetrahedron Letters, 2012, 53, 5660-5662

2011

867. Synthesis of a Drug-Like Focused Library of Trisubstituted Pyrrolidines Using Integrated Flow Chemistry and Batch Methods; Baumann, M. et al.; ACS Comb. Sci., 2011, 13(4), 405-413

868. 4'-C-Methyl-2'-Deoxyadenosine and 4'-C-Ethyl-2'-Deoxyadenosine Inhibit HIV-1 Replication; Vu, B. C. et al.; Antimicrob. Agents Chemother., 2011, 55(5), 2379-2389

869. Microwave-Assisted Grafting to MCM-41 Silica and its Application as Catalyst in Flow Chemistry; Procopio, A. et al.; Aust. J. Chem., 2011, 64, 1522-1529

870. Evaluation of a commercial packed bed flow hydrogenator for reaction screening, optimization, and synthesis; Bryan, M. C. et al.; Beilstein J. Org. Chem., 2011, 7, 1141–1149

871. Unusual behavior in the reactivity of 5-substituted- 1H-tetrazoles in a resistively heated microreactor; Gutmann, B. et al.; Beilstein J. Org. Chem., 2011, 7, 503-517

872. Synthesis and biological evaluation of 1,4-benzodiazepin-2-ones with antitrypanosomal activity; Rathnam, P. R. et al.; Bioorg. Med. Chem., 2011, 19, 1802-1815

873. 2,7-Pyrrolo[2,1-f][1,2,4]triazines as JAK2 inhibitors: modification of target structure to minimize reactive metabolite formation; Albom, M. S. et al.; Bioorg. Med. Chem. Lett., 2011, 21(24), 7325-7330

874. The First Case of Competitive Heterogeneously Catalyzed Hydrogenation using Continuous-Flow Fixed-Bed Reactor System: Hydrogenation of Binary Mixtures of Activated Ketones on Pt-Alumina and on Pt-Alumina-Cinchonidine Catalysts; Szollosi, Gy. et al.; Catal. Lett., 2011, 141, 1616-1620

875. A simple chemical model for clathrate hydrate inhibition by polyvinylcaprolactam; Davenport, J. R. et al.; Chem. Commun., 2011, 47, 9891-9893

876. Recent advances in micro reaction technology; Wiles, C. et al.; Chem. Commun., 2011, 47, 6512-6535

877. Stereoselective approaches to 2,3,6-trisubstituted piperidines. An enantiospecific synthesis of quinolizidine (-)-217A; Mancey, N. C. et al.; Chem. Commun., 2011, 47, 9804-9806

878. A Two-Step Continuous-Flow Synthesis of N-(2-Aminoethyl)acylamides through Ring-Opening/Hydrogenation of Oxazolines; Gutmann, B. et al.; Chem. Eur. J., 2011, 17, 13146-13150

879. Diastereoselective Chain-Elongation Reactions Using Microreactors for Applications in Complex Molecule Assembly; Carter, C. F. et al.; Chem. Eur. J., 2011, 17, 3398-3405

880. The Microwave-to-Flow Paradigm: Translating High-Temperature Batch Microwave Chemistry to Scalable Continuous Flow Processes; Glasnov, T. N. et al.; Chem. Eur. J., 2011, 17, 11956-11968

881. Cross-coupling in flow; Noel, T. et al.; Chem. Soc. Rev., 2011, 40, 5010-5029

882. Heterogeneous Catalytic Hydrogenation Reactions in Continuous-Flow Reactors; Irfan, M. et al.; ChemSusChem, 2011, 4(3), 300-316

883. Bis(diethylamino)(pentafluorophenyl)phosphane – a Push-Pull Phosphane Available for Coordination; Orthaber, A. et al.; Eur. J. Inorg. Chem., 2011, 2588-2596

884. A Flexible Approach to 6,5-Benzannulated Spiroketals; Wilson, Z. E. et al.; Eur. J. Org. Chem., 2011, 3938-3945

885. Synthesis of 5-Bromomethylfurfural from Cellulose as a Potential Intermediate for Biofuel; Kumari, N. et al.; Eur. J. Org. Chem., 2011, 1266-1270

886. Transition-Metal-Catalyzed Cyclopropanation of Nonactivated Alkenes in Dibromomethane with Triisobutylaluminium; Brunner, G. et al.; Eur. J. Org. Chem., 2011, 4623-4633

887. Synthesis of Highly Substituted Nitropyrrolidines, Nitropyrrolizines and Nitropyrroles via Multicomponent-Multistep Sequences within a Flow Reactor; Baumann, M. et al.; Heterocycles, 2011, 82(2), 1297-1316

888. Synthesis of Laminarin Fragments and Evaluation of a β-(1,3) Glucan Hexasaccaride-CRM197 Conjugate as Vaccine Candidate against Candida albicans; Adamo, R. et al.; J. Carbohydrate Chem., 2011, 30, 249-280

889. A Continuous Flow System for Asymmetric Hydrogenation Using Supported Chiral Catalysts; Madarasz, J. et al.; J. Flow Chem., 2011, 1(2), 62-67

890. Reissert Indole Synthesis Using Continuous-Flow Hydrogenation; Colombo, E. et al.; J. Flow Chem., 2011, 1(2), 68-73

891. Continuous-Flow Syntheses of Heterocycles; Glasnov, T. N. et al.; J. Heterocyclic Chem., 2011, 48, 11-29

892. Discovery of Potent and Selective Inhibitors of Ataxia Telangiectasia Mutated and Rad3 Related (ATR) Protein Kinase as Potential Anticancer Agents; Charrier, J. D. et al.; J. Med. Chem., 2011, 54(7), 2320-2330

893. Elucidation of a Structural Basis for the Inhibitor-Driven, p62 (SQSTM1)-Dependent Intracellular Redistribution of cAMP Phosphodiesterase-4A4 (PDE4A4); Day, J. P. et al.; J. Med. Chem., 2011, 54(9), 3331-3347

894. Structure-Guided Lead Optimization of Triazolopyrimidine-Ring Substituents Identifies Potent Plasmodium falciparum Dihydroorotate Dehydrogenase Inhibitors with Clinical Candidate Potential; Coteron, J. M. et al.; J. Med. Chem., 2011, 54(15), 5540-5561

895. Synthesis, In Vivo Occupancy, and Radiolabeling of Potent Phosphodiesterase Subtype-10 Inhibitors as Candidates for Positron Emission Tomography Imaging; Andres, J-I. et al.; J. Med. Chem., 2011, 54(16), 5820-5835

896. Microwave-Assisted and Continuous Flow Multistep Synthesis of 4-(Pyrazol-1-yl)carboxanilides; Obermayer, D. et al.; J. Org. Chem, 2011, 76, 6657-6669

897. Dissection of Complex Molecular Recognition Interfaces; Misuraca, M. C. et al.; JACS, 2011, 133(3), 582-594

898. Diacylglycerol synthesis by lipase- catalyzed partial hydrolysis of palm oil under microwave irradiation and continuous flow conditions; Matos, L. M. C. et al.; Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 36-39

899. Library synthesis and cytotoxicity of a family of 2-phenylacrylonitriles and discovery of an estrogen dependent breast cancer lead compound; Tarleton, M. et al.; Med. Chem. Commun., 2011, 2, 31-37

900. Application of continuous flow and alternative energy devices for 5-hydroxymethylfurfural production; Schon, M. et al.; Mol. Divers., 2011, 15, 639-643

901. Highly selective deuteration of pharmaceutically relevant nitrogen-containing heterocycles: a flow chemistry approach; Otvos, S. B. et al.; Mol. Divers., 2011, 15, 605-611

902. Stepwise aromatic nucleophilic substitution in continuous flow. Synthesis of an unsymmetrically substituted 3,5-diamino-benzonitrile library; Lengyel, L. et al.; Mol. Divers., 2011, 15, 631-638

903. The flow synthesis of heterocycles for natural product and medicinal chemistry applications; Baumann, M. et al.; Mol. Divers., 2011, 15, 613-630

904. 3-Substituted xanthines as promising candidates for quadruplex formation: computational, synthetic and analytical studies; Szolomajer, J. et al.; New Journal of Chemistry, 2011, 35, 476-482

905. Hydrothermal formose reaction; Antonietti, M. et al.; New Journal of Chemistry, 2011, 35, 1787-1794

906. Synthesis of spirocyclic thiazolidinediones using ring-closing metathesis and one-pot sequential ring-closing/cross metathesis; Dhara, K. et al.; Org. Biomol. Chem., 2011, 9, 3801-3807

907. A continuous-flow approach to palladium-catalyzed alkoxycarbonylation reactions; Kelly, C. B. et al.; Org. Process Res. Dev., 2011, 15(3), 717-720

908. A Scalable Two-Step Continuous Flow Synthesis of Nabumetone and Related 4-Aryl-2-butanones; Viviano, M. et al.; Org. Process Res. Dev., 2011, 15(4), 858-870

909. Green Chemistry Articles of Interest to the Pharmaceutical Industry; Andrews, I. et al.; Org. Process Res. Dev., 2011, 15(4), 748-756

910. Continuous flow ozonolysis in a laboratory scale reactor; Irfan, M. et al.; Organic Letters, 2011, 13(5), 984-987

911. Synthesis of Benzannulated Spiroketals Using an Oxidative Radical Cyclization; Sperry, J. et al.; Synthesis, 2011, 9, 1383-1398

912. Synthesis of N-propynyl analogues of peptide nucleic acid (PNA) monomers and their use in the click reaction to prepare N-functionalized PNAs; Ricci, J. et al.; Tetrahedron, 2011, 67, 9588-9594

913. A flexible synthesis of C-6 and N-1 analogues of a 4-amino-1,3-dihydroimidazo[4,5-c]pyridin-2-one core; Adam, F. M. et al.; Tetrahedron Letters, 2011, 52(44), 5728-5732

914. A flow chemistry route to 2-phenyl-3-(1H-pyrrol-2-yl)propan-1-amines; Tarleton, M. et al.; Tetrahedron Letters, 2011, 52(14), 1583-1586

915. Copper-catalyzed rearragement of oximes into primary amides; Sharma, S. K. et al.; Tetrahedron Letters, 2011, 52(33), 4252-4255

916. Flow chemistry approach for partial deuteration of alkynes: synthesis of deuterated taxol side chain; Vijaykumar, B. V. D. et al.; Tetrahedron Letters, 2011, 52(30), 3865-3867

917. Rapid, simple, and efficient deprotection of benzyl/benzylidene protected carbohydrates by utilization of flow chemistry; Ekholm, F. S. et al.; Tetrahedron Letters, 2011, 52(16), 1839-1841

918. Reductive amination of ketones: novel one-step transfer hydrogenations in batch and continuous-flow mode; Falus, P. et al.; Tetrahedron Letters, 2011, 52(12), 1310-1312

919. Synthesis and solid state study of pyridine- and pyrimidine-based fragment libraries; Patel, H. et al.; Tetrahedron Letters, 2011, 52(45), 5905-5909

920. Synthesis of a (piperazin-1-ylmethyl)biaryl library via microwave-mediated Suzuki-Miyaura cross-couplings; Baltus, C. B. et al.; Tetrahedron Letters, 2011, 52(31), 3963-3968

921. Synthesis of oxaspiropiperidines as a strategy for lowering logD; Dykstra, K. et al.; Tetrahedron Letters, 2011, 52(48), 6457-6459

2010

922. Mechanistic Insights into Copper (I)-Catalyzed Azide-Alkyne Cycloadditions using Continuous Flow Conditions; Fuchs, M. et al.; Adv. Synth. Catal., 2010, 352, 323-328

923. Toward a Continuous-Flow Synthesis of Boscalid; Glasnov, T. N. et al.; Adv. Synth. Catal., 2010, 352, 3089-3097

924. Origin of the rate enhancement and enantiodifferentiation in the heterogeneous enantioselective hydrogenation of 2,2,2-trifluoroacetophenone over Pt/alumina studied in continuous-flow fixed-bed reactor system; Szollosi, Gy. et al.; Applied Catal. A: General, 2010, 382, 263-271

925. Fused bicyclic piperidines and dihydropyridines by dearomatising cyclisation of the enolates of nicotyl-substitued esters and ketones; Brice, H. et al.; Beilstein J. Org. Chem., 2010, 6, 22

926. Synthesis and biological evaluation of naphthoquinone analogs as a novel class of proteasome inhibitors; Kazi, A. et al.; Bioorg. Med. Chem., 2010, 18(15), 5576-5592

927. Oxazolomycins: Natural product lead structures for novel antibacterials by click fragment conjugation; Bagwell, C. L. et al.; Bioorg. Med. Chem. Lett., 2010, 20, 2090-2094

928. Synthesis of new oxathiazinane dioxides and their in vitro cancer cell growth inhibitory activity; Borcard, F. et al.; Bioorg. Med. Chem. Lett., 2010, 20, 5353-5356

929. Novel Evidence on the Role of the Nucleophilic Intermediate Complex in the Orito-Reaction: Unexpected Inversion in the Enantioselective Hydrogenation of 2,2,2-Trifluoroacetophenone on Pt-Cinchona Chiral Catalyst Using Continuous-Flow Fixed-Bed Reactor; Szollosi, Gy. et al.; Catal. Lett., 2010, 134, 264-269

930. Reversal of the ee in enantioselective hydrogenation of activated ketones in continuous-flow fixed-bed reactor system; Cserenyi, Sz. et al.; Catalysis Communications, 2010, 12, 14-19

931. Continuous Flow Organic Synthesis under High-Temperature/Pressure Conditions; Razzaq, T. et al.; Chem. Asian J., 2010, 5, 1274-1289

932. A Gram-Scale Batch and Flow Total Synthesis of Perhydrohistrionicotoxin; Brasholz, M. et al.; Chem. Eur. J., 2010, 16(37), 11471-11480

933. Continuous flow multi-step organic synthesis; Webb, D. et al.; Chemical Science, 2010, 1, 675-680

934. Microwave chemistry enabling the synthesis of biologically relevant amines; Spencer, J. et al.; Future Med. Chem., 2010, 2(2), 161-168

935. The Cooperative Research Centre for Cancer Therapeutics: bridging the gap between leading cancer research at Australia's universities and developing novel cancer drugs; Heathers, G. et al.; Future Med. Chem., 2010, 2(6), 941-947

936. A facile, protic ionic liquid route to N-substituted 5-hydroxy-4-methyl-3-oxoisoindoline-1-carboxamides and N-substituted 3-oxoisoindoline-4-carboxylic acids; Gordon, C. P. et al.; Green Chemistry, 2010, 12, 1000-1006

937. Catalysis in flow: the practical and selective aerobic oxidation of alcohols to aldehydes and ketones; Zotova, N. et al.; Green Chemistry, 2010, 12, 2157-2163

938. Heterogeneous catalytic synthesis using microreactor technology; Mutton, L. et al.; Green Chemistry, 2010, 12, 1687-1703

939. Transfer hydrogenation of levulinic acid under hydrothermal conditions catalyzed by sulfate as a temperature-switchable base; Antonietti, M. et al.; Green Chemistry, 2010, 12, 656-660

940. Aminopyrazine Inhibitors Binding to an Unusual Inactive Conformation of the Mitotic Kinase Nek2: SAR and Structural Characterization; Whelligan, D. K. et al.; J. Med. Chem., 2010, 53(21), 7682-7698

941. De Novo Design of a Picomolar Nonbasic 5-HT1B Receptor Antagonist; Nugiel, D. A. et al.; J. Med. Chem., 2010, 53(4), 1876-1880

942. Novel Spirotetracyclic Zwitterionic Dual H1/5-HT2A Receptor Antagonists for the Treatment of Sleep Disorders; Gianotti, M. et al.; J. Med. Chem., 2010, 53(21), 7778-7795

943. The Identification of Indacaterol as an Ultralong-Acting Inhaled β2-Adrenoceptor Agonist; Baur, F. et al.; J. Med. Chem., 2010, 53(9), 3675-3684

944. Nanotechnology tools in pharmaceutical R&D; Kumar, C. S. S. R. et al.; Materials Today, 2010, 12, 24-30

945. The continuous flow synthesis of butane-2,3-diacetal protected building blocks using microreactors; Carter, C. F. et al.; Org. Biomol. Chem., 2010, 8, 1588-1595

946. ReactIR Flow Cell: A New Analytical Tool for Continuous Flow Chemical Processing; Carter, C. F. et al.; Org. Process Res. Dev., 2010, 14, 393-404

947. Translating High-Temperature Microwave Chemistry to Scalable Continuous Flow Processes; Damm, M, et al.; Org. Process Res. Dev., 2010, 14, 215-224

948. Building β-Peptide H10/12 Foldamer Helices with Six-Membered Cyclic Side-Chains: Fine-Tuning of Folding and Self-Assembly; Mandity, I. M. et al.; Organic Letters, 2010, 12(23), 5584-5587

949. Diversity-Oriented Synthesis of Dibenzoazocines and Dibenzoazepines via a Microwave-Assisted Intramolecular A3-Coupling Reaction; Bariwal, J. B. et al.; Organic Letters, 2010, 12(12), 2774-2777

950. Synthesis of Unique Scaffolds via Diels-Alder Cycloadditions of Tetrasubstituated Cyclohexadienes; Jones, A. L. et al.; Organic Letters, 2010, 12(7), 1592-1595

951. The development of poly(dendrimer)s for advanced processing; Gunning, J. P. et al.; Polym. Chem., 2010, 1, 730-738

952. Lipase-catalyzed kinetic resolution of 2-methylene-substituted cycloalkanols in batch and continuous-flow modes; Tomin, A. et al.; Process Biochemistry, 2010, 45, 859-865

953. A Flow Process Using Microreactors for the Preparation of a Quinolone Derivate as a Potent 5HT1B Antagonist; Qian, Z. et al.; Synlett, 2010, 4, 505-508

954. Synthesis of 3-Nitropyrrolidines via Dipolar Cycloaddition Reactions Using a Modular Flow Reactor; Baumann, M. et al.; Synlett, 2010, 5, 749-752

955. Synthesis and reactivity of 3-amino-1H-pyrazole[4,3-c]pyridine-4(5H)-ones: development of a novel kinase-focused library; Smyth, L. A. et al.; Tetrahedron, 2010, 66(15), 2843-2854

956. Synthesis of functionalized 3-hydroxypiperidines; Wijdeven, M. A. et al.; Tetrahedron, 2010, 66(30), 5623-5636

957. Enantioselective syntheses of candenatenins B and C using a chiral anthracene auxiliary; Jones, A. L. et al.; Tetrahedron Letters, 2010, 51(7), 1091-1094

958. Straightforward hetero Diels-Alder reactions of nitroso dienophiles by microreactor technology; Monbaliu, J. M. R. et al.; Tetrahedron Letters, 2010, 51(44), 5830-5833

959. The synthesis of azabicyclic heterocycles; Basak, A. et al.; Tetrahedron Letters, 2010, 51(22), 2998-3001

960. Synthesis of a tetrasaccharide related to the triterpenoid saponin Bellisoside isolated from Bellis perennis (compositae); Mandal, S. et al.; Tetrahedron: Asymmetry, 2010, 21(17), 2172-2176

2009

961. Enantioselective Synthesis of (+)-Chamaecypanone C: A Novel Microtubule Inhibitor; Dong, S. et al.; Angew. Chem. Int. Ed., 2009, 48, 1494-1497

962. Recycling the Waste: The Development of a Catalytic Wittig Reaction; O'Brien, C. J. et al.; Angew. Chem. Int. Ed., 2009, 48, 6836-6839

963. Design, synthesis and evaluation of a novel cyclohexanamine class of neuropeptide Y Y1 receptor antagonists; Ando, M. et al.; Bioorg. Med. Chem. Lett., 2009, 19(16), 4781-4785

964. Synthesis of a novel C2/C2'-aryl-substituated pyrrolo[2,1-c][1,4]benzodiazepine dimer produg with improved water solubility and reduced DNA reaction rate; Chen, Z. et al.; Bioorg. Med. Chem. Lett., 2009, 19(22), 6463-6466

965. Synthesis of a Streptococcus pyogenes candidate based on the M protein PL1 epitope; Lu, H. et al.; Bioorg. Med. Chem. Lett., 2009, 19(3), 821-824

966. Accessing Novel Process Windows in a High-Temperature/Pressure Capillary Flow Reactor; Razzaq, T. et al.; Chem. Eng. Technol., 2009, 32(11), 1702-1716.

967. Heterogeneous Versus Homogeneous Palladium Catalysts for Ligandless Mizoroki-Heck Reactions: A Comparison of Batch/Microwave and Continuous-Flow Processing; Glasnov, T. N. et al.; Chem. Eur. J., 2009, 15, 1001-1010

968. Ion Exchange Resins: Catalyst Recovery and Recycle; Liguori, F. et al.; Chem. Rev., 2009, 109(2), 515-529

969. Continuous Flow Hydrogenation of Functionalized Pyridines; Irfan, M. et al.; Eur. J. Org. Chem., 2009, 1327-1334

970. Continuous-flow microreactor chemistry under high-temperature/pressure conditions; Razzaq, T. et al.; Eur. J. Org. Chem., 2009, 1321-1325

971. Synthesis of Symmetric Dinitro-Functionalized Troger's Base Analogues; Bhuiyan, M. D. H. et al.; Eur. J. Org. Chem., 2009, 687-698

972. Continuous-flow organic synthesis: a tool for the modern medicinal chemistry; Watts, P. et al.; Future Med Chem., 2009, 1(9), 1593-1612

973. An efficient and transition metal free protocol for the transfer hydrogenation of ketones as a continuous flow process; Sedelmeier, J. et al.; Green Chemistry, 2009, 11, 683-685

974. Construction of a Bicyclic β-Benzyloxy and β-Hydroxy Amide Library through a Multicomponent Cyclization Reaction; Zhang, L. et al.; J. Comb. Chem., 2009, 11(4), 640-644

975. Increasing Selectivity of CC Chemokine Receptor 8 Antagonists by Engineering Nondesolvation Related Interactions with the Intended and Off-Target Binding Sites; de Graaf, C. et al.; J. Med. Chem., 2009, 52, 7706-7723

976. Pyrido[2,3-d]pyrimidin-5-ones: A Novel Class of Antiinflammatory Macrophage Colony-Stimulating Factor-1 Receptor Inhibitors; Huang, H. et al.; J. Med. Chem., 2009, 52, 1081-1099

977. Synthesis of Bivalent Lactosides Based on Terephthalamide, N,N'-Diglucosylterephthalamide, and Glycophane Scaffolds and Assessment of Their Inhibitory Capacity on Medically Relevant Lectins; Leyden, R. et al.; J. Org. Chem., 2009, 74, 9010-9026

978. Double carbonylation of iodobenzene in a microfluidics-based high throughput flow reactor; Balogh, J. et al.; Journal of Molecular Catalysis A: Chemical, 2009, 302, 76-79

979. New data in the enantioselective hydrogenation of ethyl pyruvate on Pt-cinchona chiral catalyst using continuous-flow fixed-bed reactor system: The origin of rate enhancement; Szollosi, Gy. et al.; Journal of Molecular Catalysis A: Chemical, 2009, 305, 155-160

980. A Multi-Step Continuous-Flow System for Rapid On-Demand Synthesis of Receptor Ligands; Petersen, T. P. et al.; Organic Letters, 2009, 11(22), 5134-5137

981. Rearrangement of N-alkyl 1,2-amino alcohols. Synthesis of (S)-toliprolol and (S)-propanolol; Duthion, B. et al.; Tetrahedron, 2009, 65(33), 6696-6709

982. A simple, efficient, and selective deuteration via a flow chemistry approach; Mandity, I. M. et al.; Tetrahedron Letters, 2009, 50, 4372-4374

2008

983. New Data on the Orito Reaction: Effect of Substrate Structure on Nonlinear Phenomenon; Balazsik, K. et al.; Catal. Lett., 2008, 125, 401-407

984. Flow reactors for drug discovery Flow for reaction optimization, library synthesis, and scale up; Csajagi, Cs. et al.; Chemistry Today, 2008, 26(3), 10-13

985. Natural-product-like spiroketals and fused bicyclic acetals as potential therapeutic agents for B-cell chronic lymphocytic leukaemia; Milroy, L. G. et al.; ChemMedChem, 2008, 3, 1922-1935

986. The Changing Face of Organic Synthesis; Baxendale, I. R. et al.; Chimia, 2008, 62 (3), 162-168

987. New data to the origin of rate enhancement on the Pt-cinchona catalyzed enantioselective hydrogenation of activated ketones using continuous-flow fixed-bed reactor system; Szollosi, Gy. et al.; J. Catal., 2008, 260(2), 245-253

988. Construction and Validation of an Automated Flow Hydrogenation Instrument for Application in High-Throughput Organic Chemistry; Wilson, N. S. et al.; J. Comb. Chem., 2008, 10, 88-93

989. Enantioselective Synthesis of Bicyclo[2.2.2]octenones Using a Copper-Mediated Oxidative Dearomatization/[4 + 2] Dimerization Cascade; Dong, S. et al.; JACS, 2008, 130(9), 2738-2739

990. Nanoparticle synthesis completed with in situ catalyst preparation performed on a high-pressure high-temperature continuous flow reactor; Hornyak, I. et al.; Microfluidics and Nanofluidics, 2008, 5(3), 411-416

991. Using chemical probes to investigate the sub-inhibitory effects of azithromycin; Glansdorp, F. G. et al.; Org. Biomol. Chem., 2008, 6, 4120-4124

992. Electrophile-Induced Dearomatizing Spirocyclization of N-Arylisonicotinamides: A Route to Spirocyclic Piperidines; Arnott, G. et al.; Org. Lett., 2008, 10(14), 3089-3092

993. High Efficiency Aminocarbonylation by Introducing CO to a Pressurized Continuous Flow Reactor; Csajagi, Cs. et al.; Org. Lett., 2008, 10(8), 1589-1592

994. High pressure in organic chemistry on the way to miniaturization; Benito-Lopez, F. et al.; Tetrahedron, 2008, 64(43), 10023-10040

995. Enantiomer selective acylation of racemic alcohols by lipases in continuous-flow bioreactors; Csajagi, Cs. et al.; Tetrahedron: Asymmetry, 2008, 19(2), 237-246

2007

996. Optimisation of Conditions for O-Benzyl and N-Benzyloxycarbonyl Protecting Group Removal using an Automated Flow Hydrogenator; Knudsen, K. R. et al.; Adv. Synth. Catal., 2007, 349, 535-538

997. Enantioselective hydrogenation of α,β-unsaturated carboxylic acids in fixed-bed reactor; Herman, B. et al.; Applied Catal. A: General, 2007, 331, 39-43

998. Synthesis of sugar-lactams from azides of glucuronic acid; Loukou, C. et al.; Carbohydrate Research, 2007, 342, 1953-1959

999. Selective catalytic hydrogenations in a microfluidics-based high-throughput flow reactor on ion-exchange supported transition metal complexes: A modular approach to the heterogenization of soluble complex catalyst; Horvath, H. H. et al.; Cat. Commun., 2007, 8, 442-446

1000. Tools for efficient high-throughput synthesis; Chighine, A. et al.; Drug Discovery Today, 2007, 12 (11/12), 459-464

1001. Automated Technology for Performing Flow-Chemistry at Elevated Temperature and Pressure; Jones, R. V. et al.; J. Assoc. Lab. Aut., 2007, 12(5), 284-290

1002. Asymmetric Mannich Reaction of Dicarbonyl Compounds with a-Amido Sulfones Catalyzed by Cinchona Alkaloids and Synthesis of Chiral Dihydropyrimidones; Lou, S. et al.; J. Org. Chem., 2007, 72, 9998-10008

1003. Synthesis of macrolide-saccharide hybrids by ring-closing metathesis of precursors derived from glycitols and benzoic acids; Matos, M. et al.; J. Org. Chem., 2007, 72, 1803-1806

1004. Interesting applications on a novel high pressure high temperature microfluidic-based flow reactor; Csajagi, Cs. et al.; Nanotechnology, 2007, 4, 426-429

1005. Mesoscale Flow Chemistry: A Plug-Flow Approach to Reaction Optimisation; Benali, O. et al.; Org. Process Res. Dev., 2007, 11, 704-710

1006. Synthesis of tetrazole analogues of amino acids using Fmoc chemistry: isolation of amino free tetrazoles and their incorporation into peptides; Venkataramanarao, R. et al.; Tetrahedron Letters, 2007, 48, 7038-7041

2006

1007. A flow process for the multi-step synthesis of the alkaloid natural product oxomaritidine: a new paradigm for molecular assembly; Baxendale, I. R. et al.; Chem. Commun., 2006, 2566-2568

1008. A flow reactor process for the synthesis of peptides utilizing immobilized reagents, scavengers and catch and release protocols; Baxendale, I. R. et al.; Chem. Commun., 2006, 4835-4837

1009. Combining Enabling Techniques in Organic Synthesis: Continuous Flow Process with Heterogenized Catalysts; Solodenko, W. et al.; Chem. Eur. J., 2006, 12, 5972-5990

1010. Natural product synthesis on the fly - Multistep continuous reaction shows the power of automated flow synthesis; Ritter, S. et al.; Chemical & Engineering News, 2006, 84(10), 17

1011. Scaling up and validation of hydrogenation reactions using a continuous-flow microfluidics-based reactor, H-Cube™; Spadoni, C. et al.; Chemistry Today, 2006, January/February 2006, 38-41

1012. Continuous-flow high pressure hydrogenation reactor for optimization and high-throughput synthesis; Jones, R. V. et al.; J. Comb. Chem., 2006, 8(1), 110-116

1013. Microfluidics in commercial applications, an industry perspective; Haber, C. et al.; Lab Chip, 2006, 6, 1118-1121

1014. Continuous enantioselective hydrogenation of activated ketones on a Pt-Cd chiral catalyst: use of H-cube reactor system; Szollosi, Gy. et al.; React. Kinet. Catal. Lett., 2006, 88(2), 391-398

1015. The Future of Organic Synthesis; Kundig, P. et al.; Science, 2006, 314, 430-431

1016. Practical Synthesis of (S)-Pyrrolidin-2-yl-1H-tetrazole, Incorporating Efficient Protecting Group Removal by Flow-reactor Hydrogenolysis; Franckevicius, V. et al.; Synlett, 2006, 6, 889-892

1017. Microwave-Assisted Solution Phase Synthesis of Dihydropyrimidine C5 Amides and Esters; Desai, B. et al.; Tetrahedron, 2006, 62, 4651-4664

2005

1018. The use of a continuous flow reactor employing a mixed hydrogen-liquid flow stream for the efficient reduction of imines to amines; Saaby, S. et al.; Chem. Commun., 2005, 23, 2909-2911

1019. The recent advancement of hydrogenation technology and their implications for drug discovery research; Spadoni, C. et al.; Chemistry Today, 2005, January/February 2005, 36-39

1020. Heterogeneous hydrogenation reactions using a continuous flow high pressure device; Desai, B. et al.; J. Comb. Chem., 2005, 7, 641-643

1021. A novel method for high-throughput reduction of compounds through automated sequential injection into a continuous-flow microfluidic reactor; Jones, R. V. et al.; QSAR Comb. Sci., 2005, 24(6), 722-727