

# Timothy F Jamison

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

185  
papers

13,936  
citations

67  
h-index

113  
g-index

188  
ext. papers

15,724  
ext. citations

10.3  
avg, IF

7.19  
L-index

#	Paper	IF	Citations
185	Recent advances in homogeneous nickel catalysis. <i>Nature</i> , <b>2014</b> , 509, 299-309	50.4	1369
184	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. <i>Science</i> , <b>2016</b> , 352, 61-7	33.3	578
183	Continuous flow multi-step organic synthesis. <i>Chemical Science</i> , <b>2010</b> , 1, 675	9.4	557
182	End-to-end continuous manufacturing of pharmaceuticals: integrated synthesis, purification, and final dosage formation. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12359-63	16.4	426
181	A robotic platform for flow synthesis of organic compounds informed by AI planning. <i>Science</i> , <b>2019</b> , 365,	33.3	271
180	Highly Enantio- and Diastereoselective Hetero-Diels-Alder Reactions Catalyzed by New Chiral Tridentate Chromium(III) Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 2398-2400	16.4	246
179	Photoredox activation of carbon dioxide for amino acid synthesis in continuous flow. <i>Nature Chemistry</i> , <b>2017</b> , 9, 453-456	17.6	243
178	A graph-convolutional neural network model for the prediction of chemical reactivity. <i>Chemical Science</i> , <b>2019</b> , 10, 370-377	9.4	237
177	Iterative exponential growth of stereo- and sequence-controlled polymers. <i>Nature Chemistry</i> , <b>2015</b> , 7, 810-5	17.6	227
176	Epoxide-opening cascades promoted by water. <i>Science</i> , <b>2007</b> , 317, 1189-92	33.3	227
175	Catalytic asymmetric reductive coupling of alkynes and aldehydes: enantioselective synthesis of allylic alcohols and alpha-hydroxy ketones. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3442-3	16.4	225
174	Reconfigurable system for automated optimization of diverse chemical reactions. <i>Science</i> , <b>2018</b> , 361, 1220-1225	33.3	207
173	Epoxide-opening cascades in the synthesis of polycyclic polyether natural products. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5250-81	16.4	174
172	Catalytic three-component coupling of alkynes, imines, and organoboron reagents. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 1364-7	16.4	160
171	Highly selective catalytic intermolecular reductive coupling of alkynes and aldehydes. <i>Organic Letters</i> , <b>2000</b> , 2, 4221-3	6.2	152
170	Understanding and controlling the cell cycle with natural products. <i>Chemistry and Biology</i> , <b>1996</b> , 3, 623-39		148
169	A three-minute synthesis and purification of ibuprofen: pushing the limits of continuous-flow processing. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 983-7	16.4	147

- 168 Highly Regioselective Indoline Synthesis under Nickel/Photoredox Dual Catalysis. *Journal of the American Chemical Society*, **2015**, 137, 9531-4 16.4 140
- 167 Nickel-catalyzed Heck-type reactions of benzyl chlorides and simple olefins. *Journal of the American Chemical Society*, **2011**, 133, 19020-3 16.4 136
- 166 Development of a Multi-Step Synthesis and Workup Sequence for an Integrated, Continuous Manufacturing Process of a Pharmaceutical. *Organic Process Research and Development*, **2014**, 18, 402-409 3.9 133
- 165 Direct  $\beta$ -Selective Hydrocarboxylation of Styrenes with CO Enabled by Continuous Flow Photoredox Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 13969-13972 16.4 132
- 164 Nickel Catalysis: Synergy between Method Development and Total Synthesis. *Accounts of Chemical Research*, **2015**, 48, 1503-14 24.3 131
- 163 Asymmetric catalytic coupling of organoboranes, alkynes, and imines with a removable (trialkylsilyloxy)ethyl group--direct access to enantiomerically pure primary allylic amines. *Angewandte Chemie - International Edition*, **2004**, 43, 3941-4 16.4 131
- 162 Alkene-directed, nickel-catalyzed alkyne coupling reactions. *Journal of the American Chemical Society*, **2004**, 126, 4130-1 16.4 131
- 161 Scalable synthesis of sequence-defined, unimolecular macromolecules by Flow-IEG. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10617-22 11.5 130
- 160 Simplifying nickel(0) catalysis: an air-stable nickel precatalyst for the internally selective benzylation of terminal alkenes. *Journal of the American Chemical Society*, **2013**, 135, 1585-92 16.4 130
- 159 Tandem Use of Cobalt-Mediated Reactions to Synthesize (+)-Epoxydictymene, a Diterpene Containing a Trans-Fused 5 $\beta$  Ring System. *Journal of the American Chemical Society*, **1997**, 119, 4353-4363 16.4 125
- 158 Mixing and Dispersion in Small-Scale Flow Systems. *Organic Process Research and Development*, **2012**, 16, 976-981 3.9 124
- 157 A Broadly Applicable Strategy for Entry into Homogeneous Nickel(0) Catalysts from Air-Stable Nickel(II) Complexes. *Organometallics*, **2014**, 33, 2012-2018 3.8 117
- 156 Aminolysis of Epoxides in a Microreactor System: A Continuous Flow Approach to  $\beta$ -Amino Alcohols. *Organic Process Research and Development*, **2010**, 14, 432-440 3.9 117
- 155 Continuous-flow synthesis of functionalized phenols by aerobic oxidation of Grignard reagents. *Angewandte Chemie - International Edition*, **2014**, 53, 3353-7 16.4 116
- 154 Highly enantioselective and regioselective nickel-catalyzed coupling of allenes, aldehydes, and silanes. *Journal of the American Chemical Society*, **2005**, 127, 7320-1 16.4 116
- 153 Nickel-catalyzed reductive coupling of alkynes and epoxides. *Journal of the American Chemical Society*, **2003**, 125, 8076-7 16.4 116
- 152 FR901464: total synthesis, proof of structure, and evaluation of synthetic analogues. *Journal of the American Chemical Society*, **2001**, 123, 9974-83 16.4 116
- 151 Nickel-catalyzed allylic substitution of simple alkenes. *Journal of the American Chemical Society*, **2010**, 132, 6880-1 16.4 115

- 150 Asymmetric Faradaic systems for selective electrochemical separations. *Energy and Environmental Science*, **2017**, 10, 1272-1283 35.4 111
- 149 Bromine-catalyzed conversion of CO<sub>2</sub> and epoxides to cyclic carbonates under continuous flow conditions. *Journal of the American Chemical Society*, **2013**, 135, 18497-501 16.4 111
- 148 P-chiral, monodentate ferrocenyl phosphines, novel ligands for asymmetric catalysis. *Journal of Organic Chemistry*, **2003**, 68, 156-66 4.2 108
- 147 Highly selective coupling of alkenes and aldehydes catalyzed by [Ni(NHC){P(OPh)<sub>3</sub>]: synergy between a strong sigma donor and a strong pi acceptor. *Angewandte Chemie - International Edition*, **2007**, 46, 782-5 16.4 107
- 146 Safe and efficient tetrazole synthesis in a continuous-flow microreactor. *Angewandte Chemie - International Edition*, **2011**, 50, 3525-8 16.4 106
- 145 Continuous Flow Total Synthesis of Rufinamide. *Organic Process Research and Development*, **2014**, 18, 1567-1570 3.9 102
- 144 Origins of regioselectivity and alkene-directing effects in nickel-catalyzed reductive couplings of alkynes and aldehydes. *Journal of the American Chemical Society*, **2010**, 132, 2050-7 16.4 101
- 143 Combinatorial libraries of transition-metal complexes, catalysts and materials. *Current Opinion in Chemical Biology*, **1998**, 2, 422-8 9.7 96
- 142 A Unified Continuous Flow Assembly-Line Synthesis of Highly Substituted Pyrazoles and Pyrazolines. *Angewandte Chemie - International Edition*, **2017**, 56, 8823-8827 16.4 95
- 141 Total syntheses of amphidinolides T1 and T4 via catalytic, stereoselective, reductive macrocyclizations. *Journal of the American Chemical Society*, **2005**, 127, 4297-307 16.4 95
- 140 Enantioselective synthesis of (-)-terpestacin and structural revision of siccanol using catalytic stereoselective fragment couplings and macrocyclizations. *Journal of the American Chemical Society*, **2004**, 126, 10682-91 16.4 95
- 139 Cobalt-Mediated Total Synthesis of (+)-Epoxydictymene. *Journal of the American Chemical Society*, **1994**, 116, 5505-5506 16.4 93
- 138 Nickel-catalyzed Mizoroki-Heck reaction of aryl sulfonates and chlorides with electronically unbiased terminal olefins: high selectivity for branched products. *Angewandte Chemie - International Edition*, **2014**, 53, 1858-61 16.4 92
- 137 Continuous flow synthesis of chiral amines in organic solvents: immobilization of E. coli cells containing both  $\beta$ -transaminase and PLP. *Organic Letters*, **2014**, 16, 6092-5 6.2 92
- 136 Ligand-switchable directing effects of tethered alkenes in nickel-catalyzed additions to alkynes. *Journal of the American Chemical Society*, **2004**, 126, 15342-3 16.4 92
- 135 Highly regioselective, catalytic asymmetric reductive coupling of 1,3-enynes and ketones. *Organic Letters*, **2005**, 7, 3077-80 6.2 88
- 134 Ni-Catalyzed Electrochemical Decarboxylative C-C Couplings in Batch and Continuous Flow. *Organic Letters*, **2018**, 20, 1338-1341 6.2 87
- 133 The development of endo-selective epoxide-opening cascades in water. *Chemical Society Reviews*, **2009**, 38, 3175-92 58.5 87

132	Mechanism and transition-state structures for nickel-catalyzed reductive alkyne-aldehyde coupling reactions. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6654-5	16.4	86
131	End-to-end continuous flow synthesis and purification of diphenhydramine hydrochloride featuring atom economy, in-line separation, and flow of molten ammonium salts. <i>Chemical Science</i> , <b>2013</b> , 4, 2822	9.4	81
130	Synthesis of amphidinolide T1 via catalytic, stereoselective macrocyclization. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 998-9	16.4	81
129	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8870-8873	16.4	80
128	Total synthesis of ent-dioxepandehydrothysiferol via a bromonium-initiated epoxide-opening cascade. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12084-5	16.4	75
127	Nickel-catalyzed coupling of alkenes, aldehydes, and silyl triflates. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11513-28	16.4	75
126	Kinetic and Scale-Up Investigations of Epoxide Aminolysis in Microreactors at High Temperatures and Pressures. <i>Organic Process Research and Development</i> , <b>2011</b> , 15, 131-139	3.9	73
125	Simple alkenes as substitutes for organometallic reagents: nickel-catalyzed, intermolecular coupling of aldehydes, silyl triflates, and alpha olefins. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14194-5	16.4	73
124	SiMe <sub>3</sub> -based homologation-epoxidation-cyclization strategy for ladder THP synthesis. <i>Organic Letters</i> , <b>2003</b> , 5, 2339-42	6.2	73
123	Highly regioselective nickel-catalyzed cross-coupling of N-tosylaziridines and alkylzinc reagents. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11145-52	16.4	72
122	Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3394-3404	15.6	71
121	Diisobutylaluminum hydride reductions revitalized: a fast, robust, and selective continuous flow system for aldehyde synthesis. <i>Organic Letters</i> , <b>2012</b> , 14, 568-71	6.2	70
120	Continuous flow coupling and decarboxylation reactions promoted by copper tubing. <i>Organic Letters</i> , <b>2011</b> , 13, 280-3	6.2	69
119	Alpha-olefins as alkenylmetal equivalents in catalytic conjugate addition reactions. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1893-5	16.4	67
118	Total Synthesis of FR901464. Convergent Assembly of Chiral Components Prepared by Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 10482-10483	16.4	66
117	Ladder polyether synthesis via epoxide-opening cascades using a disappearing directing group. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1056-7	16.4	65
116	Synthesis of marine polycyclic polyethers via endo-selective epoxide-opening cascades. <i>Marine Drugs</i> , <b>2010</b> , 8, 763-809	6	64
115	N-(9-phenylfluoren-9-yl)-alpha-amino ketones and N-(9-phenylfluoren-9-yl)-alpha-amino aldehydes as chiral educts for the synthesis of optically pure 4-alkyl-3-hydroxy-2-amino acids. Synthesis of the C-9 amino acid MeBmt present in cyclosporin. <i>Journal of Organic Chemistry</i> , <b>1990</b> , 55, 3511-3522	4.2	64

- 114 The assembly and use of continuous flow systems for chemical synthesis. *Nature Protocols*, **2017**, 12, 2423-2446 18.8 61
- 113 Nickel-catalyzed synthesis of acrylamides from alpha-olefins and isocyanates. *Organic Letters*, **2007**, 9, 875-8 6.2 61
- 112 Synthesis of (-)-terpestacin via catalytic, stereoselective fragment coupling: siccanol is terpestacin, not 11-epi-terpestacin. *Journal of the American Chemical Society*, **2003**, 125, 11514-5 16.4 61
- 111 Advanced Continuous Flow Platform for On-Demand Pharmaceutical Manufacturing. *Chemistry - A European Journal*, **2018**, 24, 2776-2784 4.8 59
- 110 Photoredox Activation of SF for Fluorination. *Angewandte Chemie - International Edition*, **2016**, 55, 15072-15075 6.4 58
- 109 Recent progress in the synthesis of oxepanes and medium ring ethers. *Tetrahedron*, **2012**, 68, 6999-7018 2.4 58
- 108 Continuous photochemical generation of catalytically active [CpRu]<sup>+</sup> complexes from CpRu(**β**-C<sub>6</sub>H<sub>6</sub>)PF<sub>6</sub>. *Organic Letters*, **2011**, 13, 6414-7 6.2 58
- 107 7-Step Flow Synthesis of the HIV Integrase Inhibitor Dolutegravir. *Angewandte Chemie - International Edition*, **2018**, 57, 7181-7185 16.4 56
- 106 End-to-End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. *Angewandte Chemie*, **2013**, 125, 12585-12589 3.6 56
- 105 anti-1,2-Diols via Ni-catalyzed reductive coupling of alkynes and alpha-oxaldehydes. *Organic Letters*, **2005**, 7, 2937-40 6.2 56
- 104 Electrophilic amination: the case of nitrenoids. *Chemistry - A European Journal*, **2015**, 21, 5278-300 4.8 55
- 103 Continuous Flow Oxidation of Alcohols and Aldehydes Utilizing Bleach and Catalytic Tetrabutylammonium Bromide. *Organic Process Research and Development*, **2012**, 16, 1082-1089 3.9 54
- 102 Towards More Efficient, Greener Syntheses through Flow Chemistry. *Chemical Record*, **2017**, 17, 667-680 6.6 53
- 101 Hydrogen-free alkene reduction in continuous flow. *Organic Letters*, **2013**, 15, 710-3 6.2 53
- 100 Water overcomes methyl group directing effects in epoxide-opening cascades. *Journal of the American Chemical Society*, **2009**, 131, 6678-9 16.4 51
- 99 Nickel-Catalyzed Coupling Reactions of Alkenes. *Pure and Applied Chemistry*, **2008**, 80, 929-939 2.1 49
- 98 Mechanistic implications of nickel-catalyzed reductive coupling of aldehydes and chiral 1,6-enynes. *Organic Letters*, **2006**, 8, 455-8 6.2 49
- 97 Ni(II) salts and 2-propanol effect catalytic reductive coupling of epoxides and alkynes. *Organic Letters*, **2011**, 13, 4140-3 6.2 48

96	Mechanism-guided design of flow systems for multicomponent reactions: conversion of CO <sub>2</sub> and olefins to cyclic carbonates. <i>Chemical Science</i> , <b>2014</b> , 5, 1227	9.4	47
95	Seven-Step Continuous Flow Synthesis of Linezolid Without Intermediate Purification. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7678-7681	16.4	46
94	Nickel-catalyzed coupling of terminal allenes, aldehydes, and silanes. <i>Tetrahedron</i> , <b>2006</b> , 62, 11350-11359	9.4	46
93	Peptide fragment coupling using a continuous-flow photochemical rearrangement of nitrones. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4251-5	16.4	45
92	Nickel-catalyzed, carbonyl-ene-type reactions: selective for alpha olefins and more efficient with electron-rich aldehydes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5362-3	16.4	45
91	Catalytic reductive carbon-carbon bond-forming reactions of alkynes. <i>Tetrahedron: Asymmetry</i> , <b>2003</b> , 14, 3619-3625		44
90	A Three-Minute Synthesis and Purification of Ibuprofen: Pushing the Limits of Continuous-Flow Processing. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 997-1001	3.6	43
89	Functionalized templates for the convergent assembly of polyethers: synthesis of the HIJK rings of gymnocin A. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4430-2	16.4	43
88	On the synergism between H <sub>2</sub> O and a tetrahydropyran template in the regioselective cyclization of an epoxy alcohol. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6383-5	16.4	43
87	Highly convergent total synthesis of (+)-acutiphycin. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15106-7	16.4	43
86	Enantioselective and regioselective nickel-catalyzed multicomponent coupling of chiral allenes, aromatic aldehydes, and silanes. <i>Tetrahedron</i> , <b>2005</b> , 61, 11405-11417	2.4	43
85	Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 247-264	5.6	43
84	Minimizing E-factor in the continuous-flow synthesis of diazepam and atropine. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 6233-6241	3.4	41
83	Enhanced Reaction Efficiency in Continuous Flow. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 218-227	3.4	39
82	Synthesis of Celecoxib, Mavacoxib, SC-560, Fluxapyroxad, and Bixafen Enabled by Continuous Flow Reaction Modules. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 6566-6574	3.2	37
81	Continuous-flow synthesis and purification of atropine with sequential in-line separations of structurally similar impurities. <i>Journal of Flow Chemistry</i> , <b>2015</b> , 5, 133-138	3.3	37
80	Catalytic Addition of Simple Alkenes to Carbonyl Compounds Using Group 10 Metals. <i>Synlett</i> , <b>2009</b> , 2009, 2565-2582	2.2	37
79	Cobalt cluster-containing carbonyl ylides for catalytic, three-component assembly of oxygen heterocycles. <i>Organic Letters</i> , <b>2002</b> , 4, 2277-80	6.2	37



78	Evidence that epoxide-opening cascades promoted by water are stepwise and become faster and more selective after the first cyclization. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1902-8	16.4	36
77	Rapid continuous synthesis of 5Pdeoxyribonucleosides in flow via Brønsted acid catalyzed glycosylation. <i>Organic Letters</i> , <b>2012</b> , 14, 3348-51	6.2	35
76	Safe and Efficient Tetrazole Synthesis in a Continuous-Flow Microreactor. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3587-3590	3.6	35
75	A comparative analysis of the total syntheses of the amphidinolide T natural products. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 2675-84	3.9	35
74	Rhodium-catalyzed endo-selective epoxide-opening cascades: formal synthesis of (-)-brevisin. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6941-6	16.4	34
73	Continuous flow photocatalysis enhanced using an aluminum mirror: rapid and selective synthesis of 2Pdeoxy and 2P3Pdideoxynucleosides. <i>Chemical Communications</i> , <b>2012</b> , 48, 7444-6	5.8	34
72	Directing effects of tethered alkenes in nickel-catalyzed coupling reactions of 1,6-enynes and aldehydes. <i>Tetrahedron</i> , <b>2006</b> , 62, 7598-7610	2.4	34
71	Scalable and Robust Synthesis of CpRu(MeCN)3PF6 via Continuous Flow Photochemistry. <i>Journal of Flow Chemistry</i> , <b>2012</b> , 1, 24-27	3.3	32
70	Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes. <i>Environmental Science and Technology Letters</i> , <b>2017</b> , 4, 161-167	11	31
69	Redox Interfaces for Electrochemically Controlled Protein Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5702-5712	9.6	31
68	trans-hydroalumination/alkylation: one-pot synthesis of trisubstituted allylic alcohols. <i>Organic Letters</i> , <b>2006</b> , 8, 3761-4	6.2	31
67	Macrocyclization by nickel-catalyzed, ester-promoted, epoxide-alkyne reductive coupling: total synthesis of (-)-gloeosporone. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5366-8	16.4	30
66	A Unified Continuous Flow Assembly-Line Synthesis of Highly Substituted Pyrazoles and Pyrazolines. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8949-8953	3.6	29
65	Total Synthesis of the Marine Ladder Polyether Gymnocin B. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11239-11244	16.4	28
64	Xenoprotein engineering via synthetic libraries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5298-E5306	11.5	28
63	Photoredox Activation of SF6 for Fluorination. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15296-15299	3.6	27
62	Sml2-promoted Reformatsky-type coupling reactions in exceptionally hindered contexts. <i>Organic Letters</i> , <b>2008</b> , 10, 1291-4	6.2	27
61	A General Strategy for the Synthesis of Enantiomerically Pure Azetidines and Aziridines through Nickel-Catalyzed Cross-Coupling. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7379-83	4.8	26



60	Nickel-Catalyzed Mizoroki-H Heck Reaction of Aryl Sulfonates and Chlorides with Electronically Unbiased Terminal Olefins: High Selectivity for Branched Products. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1889-1892	3.6	26
59	A continuous homologation of esters: an efficient telescoped reduction-olefination sequence. <i>Organic Letters</i> , <b>2012</b> , 14, 2465-7	6.2	26
58	Total synthesis of (+)-acutiphycin. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 9736-45	4.2	26
57	Synthesis of skipped enynes via phosphine-promoted couplings of propargylcopper reagents. <i>Tetrahedron</i> , <b>2003</b> , 59, 8913-8917	2.4	26
56	Synthesis of C13022 of amphidinolide T2 via nickel-catalyzed reductive coupling of an alkyne and a terminal epoxide. <i>Tetrahedron</i> , <b>2005</b> , 61, 6243-6248	2.4	26
55	Entropic factors provide unusual reactivity and selectivity in epoxide-opening reactions promoted by water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16724-9	11.5	25
54	Total synthesis of pumiliotoxins 209F and 251D via late-stage, nickel-catalyzed epoxide-alkyne reductive cyclization. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 7451-4	4.2	25
53	Amide Bond Formation via Reversible, Carboxylic Acid-Promoted Lactone Aminolysis. <i>Organic Process Research and Development</i> , <b>2010</b> , 14, 1177-1181	3.9	24
52	A concise route to MK-4482 (EIDD-2801) from cytidine. <i>Chemical Communications</i> , <b>2020</b> , 56, 13363-13364	4.8	24
51	Bench-Stable Nickel Precatalysts with Heck-type Activation. <i>Organometallics</i> , <b>2018</b> , 37, 2716-2722	3.8	21
50	Continuous-Flow Chemistry in Undergraduate Education: Sustainable Conversion of Reclaimed Vegetable Oil into Biodiesel. <i>Journal of Chemical Education</i> , <b>2018</b> , 95, 1371-1375	2.4	21
49	Ladder polyether synthesis via epoxide-opening cascades directed by a disappearing trimethylsilyl group. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 2681-701	4.2	21
48	Progress Toward a Large-Scale Synthesis of Molnupiravir (MK-4482, EIDD-2801) from Cytidine. <i>ACS Omega</i> , <b>2021</b> , 6, 10396-10402	3.9	21
47	Synthesis of Highly Substituted 2-Arylindoles via Copper-Catalyzed Coupling of Isocyanides and Arylboronic Acids. <i>Organic Letters</i> , <b>2018</b> , 20, 3263-3267	6.2	21
46	Bench-Stable $\pi$ -Heterocyclic Carbene Nickel Precatalysts for C-C and C-N Bond-Forming Reactions. <i>ChemCatChem</i> , <b>2018</b> , 10, 2873-2877	5.2	20
45	Stereoselective Formation of Fully Substituted Ketone Enolates. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5517-20	16.4	20
44	Continuous Production of Five Active Pharmaceutical Ingredients in Flexible Plug-and-Play Modules: A Demonstration Campaign. <i>Organic Process Research and Development</i> , <b>2020</b> , 24, 2183-2196	3.9	19
43	Flow-IEG enables programmable thermodynamic properties in sequence-defined unimolecular macromolecules. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 5786-5794	4.9	19

42	Total syntheses of the squalene-derived halogenated polyethers -dioxepandehydrothysiferol and armatol A via bromonium- and Lewis acid-initiated epoxide-opening cascades. <i>Tetrahedron</i> , <b>2013</b> , 69, 5205-5220	2.4	19
41	A dioxane template for highly selective epoxy alcohol cyclizations. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 10004-16	4.8	18
40	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8996-8999	3.6	17
39	Modular Continuous Flow Synthesis of Imatinib and Analogues. <i>Organic Letters</i> , <b>2019</b> , 21, 6112-6116	6.2	17
38	Synthesis and Utilization of Nitroalkyne Equivalents in Batch and Continuous Flow. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13999-14002	16.4	16
37	Ready, Set, Flow! Automated Continuous Synthesis and Optimization. <i>Trends in Chemistry</i> , <b>2021</b> , 3, 373-386	15	
36	Deuteriodifluoromethylation and gem-Difluoroalkenylation of Aldehydes Using ClCF <sub>3</sub> H in Continuous Flow. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13885-13890	16.4	14
35	Strategic use of nickel(0)-catalyzed enyne-epoxide reductive coupling towards the synthesis of (-)-cyatha-3,12-diene. <i>Tetrahedron</i> , <b>2009</b> , 65, 3270-3280	2.4	14
34	Catalytic Generation and Use of Ketyl Radical from Unactivated Aliphatic Carbonyl Compounds. <i>Organic Letters</i> , <b>2019</b> , 21, 10159-10163	6.2	13
33	Ni-Catalyzed Cross-Electrophile Coupling for the Synthesis of Skipped Polyenes. <i>Organic Letters</i> , <b>2019</b> , 21, 3606-3609	6.2	11
32	A Concise Route to MK-4482 (EIDD-2801) from Cytidine: Part 2. <i>Synlett</i> , <b>2021</b> , 32, 326-328	2.2	11
31	Hydroxyl-substituted ladder polyethers via selective tandem epoxidation/cyclization sequence. <i>Organic Letters</i> , <b>2015</b> , 17, 774-7	6.2	10
30	A Scalable Membrane Pervaporation Approach for Continuous Flow Olefin Metathesis. <i>Organic Process Research and Development</i> , <b>2020</b> , 24, 2298-2303	3.9	9
29	New synthetic strategies for the stereocontrolled synthesis of substituted "skipped" diepoxides. <i>Tetrahedron</i> , <b>2009</b> , 65, 6648-6655	2.4	9
28	Selective N-monomethylation of primary anilines with dimethyl carbonate in continuous flow. <i>Tetrahedron</i> , <b>2018</b> , 74, 3124-3128	2.4	9
27	Monolithic Silica Support for Immobilized Catalysis in Continuous Flow. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 314-319	5.6	8
26	7-Step Flow Synthesis of the HIV Integrase Inhibitor Dolutegravir. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7299-7303	8	
25	A reductive coupling strategy towards ripostatin A. <i>Beilstein Journal of Organic Chemistry</i> , <b>2013</b> , 9, 1533-50	7	

24	Synthesis and Utilization of Nitroalkyne Equivalents in Batch and Continuous Flow. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14187-14190	3.6	6
23	Diazotization of $\alpha$ -Sulfonyl-cysteines. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 15001-15007	4.2	6
22	Continuous Flow Synthesis of ACE Inhibitors From N-Substituted L-Alanine Derivatives. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 14527-14531	4.8	5
21	Total Synthesis of $(\pm)$ -Sceptrin. <i>Organic Letters</i> , <b>2020</b> , 22, 6698-6702	6.2	5
20	Confining a biocatalyst for highly efficient and selective synthesis of carboxamide derivatives under continuous-flow conditions. <i>Journal of Flow Chemistry</i> , <b>2016</b> , 6, 67-72	3.3	5
19	Continuous flow strategies for using fluorinated greenhouse gases in fluoroalkylations. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 7378-7394	58.5	5
18	Seven-Step Continuous Flow Synthesis of Linezolid Without Intermediate Purification. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7760-7763	3.6	4
17	Studies toward brevisulcenal F via convergent strategies for marine ladder polyether synthesis. <i>Tetrahedron</i> , <b>2018</b> , 74, 1111-1122	2.4	4
16	Selective Lewis acid catalyzed assembly of phosphonomethyl ethers: three-step synthesis of tenofovir. <i>Organic Letters</i> , <b>2015</b> , 17, 820-3	6.2	4
15	On-Demand Generation and Use in Continuous Synthesis of the Ambiphilic Nitrogen Source Chloramine. <i>Organic Letters</i> , <b>2020</b> , 22, 8392-8395	6.2	3
14	Di-tert-butyl Phosphonate Route to the Antiviral Drug Tenofovir. <i>Organic Process Research and Development</i> , <b>2021</b> , 25, 789-798	3.9	3
13	Automated On-Demand Titration of Organometallic Reagents in Continuous Flow. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 278-282	3.9	2
12	Continuous-Flow Synthesis of Tramadol from Cyclohexanone. <i>Synlett</i> , <b>2020</b> , 31, 1888-1893	2.2	2
11	Synthesis of the ABC framework of tamulamides A and B. <i>Bioorganic and Medicinal Chemistry</i> , <b>2018</b> , 26, 5327-5335	3.4	2
10	(S)-(+)-Neomenthylidiphenylphosphine in Nickel-Catalyzed Asymmetric Reductive Coupling of Alkynes and Aldehydes: Enantioselective Synthesis of Allylic Alcohols and $\beta$ -Hydroxy Ketones <b>2007</b> , 111-119		2
9	Toward a Practical, Nonenzymatic Process for Investigational COVID-19 Antiviral Molnupiravir from Cytidine: Supply-Centered Synthesis.. <i>Organic Process Research and Development</i> , <b>2021</b> , 25, 2679-2685	3.9	2
8	Deuteriodifluoromethylation and gem-Difluoroalkenylation of Aldehydes Using ClCF <sub>2</sub> H in Continuous Flow. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13989-13994	3.6	1
7	Monodentate Chiral Ferrocenyl Ligands <b>2010</b> , 55-71		1

6	Synthesis of (R)-Emtricitabine and (R)-Lamivudine by Chlorotrimethylsilane-Sodium Iodide-Promoted Vorbrücken Glycosylation.. <i>Journal of Organic Chemistry</i> , <b>2022</b> ,	4.2	1
5	Design of dynamic trajectories for efficient and data-rich exploration of flow reaction design spaces. <i>Reaction Chemistry and Engineering</i> ,	4.9	1
4	A Call for Increased Focus on Reproductive Health within Lab Safety Culture. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12422-12427	16.4	1
3	Continuous dimethyldioxirane generation for polymer epoxidation. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 489-493	4.9	0
2	Synthesis of the Framework of Tamulamides A and B. <i>Organic Letters</i> , <b>2019</b> , 21, 8027-8030	6.2	
1	Redox Electrodes: Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces (Adv. Funct. Mater. 20/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3552-3552	15.6	