Timothy F Jamison

List of Publications by Year
in descending order

181 papers	17,571 citations	12597 71 h-index	17373 126 g-index
188 all docs	188 docs citations	188 times ranked	13514 citing authors

#	Article	IF	Citations
1	Recent advances in homogeneous nickel catalysis. Nature, 2014, 509, 299-309.	13.7	1,780
2	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. Science, 2016, 352, 61-67.	6.0	751
3	Continuous flow multi-step organic synthesis. Chemical Science, 2010, 1, 675.	3.7	611
4	A robotic platform for flow synthesis of organic compounds informed by AI planning. Science, 2019, 365, .	6.0	548
5	Endâ€toâ€End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. Angewandte Chemie - International Edition, 2013, 52, 12359-12363.	7.2	505
6	A graph-convolutional neural network model for the prediction of chemical reactivity. Chemical Science, 2019, 10, 370-377.	3.7	430
7	Reconfigurable system for automated optimization of diverse chemical reactions. Science, 2018, 361, 1220-1225.	6.0	339
8	Photoredox activation of carbon dioxide for amino acid synthesis in continuous flow. Nature Chemistry, 2017, 9, 453-456.	6.6	330
9	Iterative exponential growth of stereo- and sequence-controlled polymers. Nature Chemistry, 2015, 7, 810-815.	6.6	296
10	Highly Enantio- and Diastereoselective Hetero-Diels-Alder Reactions Catalyzed by New Chiral Tridentate Chromium(III) Catalysts. Angewandte Chemie - International Edition, 1999, 38, 2398-2400.	7.2	286
11	Catalytic Asymmetric Reductive Coupling of Alkynes and Aldehydes:Â Enantioselective Synthesis of Allylic Alcohols and Î±-Hydroxy Ketones. Journal of the American Chemical Society, 2003, 125, 3442-3443.	6.6	265
12	Epoxide-Opening Cascades Promoted by Water. Science, 2007, 317, 1189-1192.	6.0	254
13	Epoxideâ€Opening Cascades in the Synthesis of Polycyclic Polyether Natural Products. Angewandte Chemie - International Edition, 2009, 48, 5250-5281.	7.2	203
14	Direct Î²-Selective Hydrocarboxylation of Styrenes with CO₂ Enabled by Continuous Flow Photoredox Catalysis. Journal of the American Chemical Society, 2017, 139, 13969-13972.	6.6	202
15	Catalytic Three-Component Coupling of Alkynes, Imines, and Organoboron Reagents. Angewandte Chemie - International Edition, 2003, 42, 1364-1367.	7.2	190
16	Highly Selective Catalytic Intermolecular Reductive Coupling of Alkynes and Aldehydes. Organic Letters, 2000, 2, 4221-4223.	2.4	176
17	A Threeâ€Minute Synthesis and Purification of Ibuprofen: Pushing the Limits of Continuousâ€Flow Processing. Angewandte Chemie - International Edition, 2015, 54, 983-987.	7.2	176
18	Nickel Catalysis: Synergy between Method Development and Total Synthesis. Accounts of Chemical Research, 2015, 48, 1503-1514.	7.6	173

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19	Highly Regioselective Indoline Synthesis under Nickel/Photoredox Dual Catalysis. Journal of the American Chemical Society, 2015, 137, 9531-9534.	6.6	172
20	Understanding and controlling the cell cycle with natural products. Chemistry and Biology, 1996, 3, 623-639.	6.2	170
21	A Broadly Applicable Strategy for Entry into Homogeneous Nickel(0) Catalysts from Air-Stable Nickel(II) Complexes. Organometallics, 2014, 33, 2012-2018.	1.1	163
22	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, 10617-10622.	3.3	161
23	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, 1585-1592.	6.6	160
24	Alkene-Directed, Nickel-Catalyzed Alkyne Coupling Reactions. Journal of the American Chemical Society, 2004, 126, 4130-4131.	6.6	153
25	Nickel-Catalyzed Heck-Type Reactions of Benzyl Chlorides and Simple Olefins. Journal of the American Chemical Society, 2011, 133, 19020-19023.	6.6	153
26	Asymmetric Catalytic Coupling of Organoboranes, Alkynes, and Imines with a Removable (Trialkylsilyloxy)ethyl Groupâ€”Direct Access to Enantiomerically Pure Primary Allylic Amines. Angewandte Chemie - International Edition, 2004, 43, 3941-3944.	7.2	151
27	Tandem Use of Cobalt-Mediated Reactions to Synthesize (+)-Epoxydictymene, a Diterpene Containing aTrans-Fused 5â˜5 Ring System. Journal of the American Chemical Society, 1997, 119, 4353-4363.	6.6	144
28	Mixing and Dispersion in Small-Scale Flow Systems. Organic Process Research and Development, 2012, 16, 976-981.	1.3	144
29	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.	1.3	143
30	Asymmetric Faradaic systems for selective electrochemical separations. Energy and Environmental Science, 2017, 10, 1272-1283.	15.6	143
31	Highly Enantioselective and Regioselective Nickel-Catalyzed Coupling of Allenes, Aldehydes, and Silanes. Journal of the American Chemical Society, 2005, 127, 7320-7321.	6.6	137
32	FR901464:Â Total Synthesis, Proof of Structure, and Evaluation of Synthetic Analogues. Journal of the American Chemical Society, 2001, 123, 9974-9983.	6.6	136
33	P-Chiral, Monodentate Ferrocenyl Phosphines, Novel Ligands for Asymmetric Catalysisâ€. Journal of Organic Chemistry, 2003, 68, 156-166.	1.7	135
34	A Unified Continuous Flow Assemblyâ€Line Synthesis of Highly Substituted Pyrazoles and Pyrazolines. Angewandte Chemie - International Edition, 2017, 56, 8823-8827.	7.2	133
35	Nickel-Catalyzed Reductive Coupling of Alkynes and Epoxides. Journal of the American Chemical Society, 2003, 125, 8076-8077.	6.6	132
36	Bromine-Catalyzed Conversion of CO₂ and Epoxides to Cyclic Carbonates under Continuous Flow Conditions. Journal of the American Chemical Society, 2013, 135, 18497-18501.	6.6	130

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37	Aminolysis of Epoxides in a Microreactor System: A Continuous Flow Approach to Î²-Amino Alcohols. Organic Process Research and Development, 2010, 14, 432-440.	1.3	127
38	Ni-Catalyzed Electrochemical Decarboxylative Câ€“C Couplings in Batch and Continuous Flow. Organic Letters, 2018, 20, 1338-1341.	2.4	126
39	Continuousâ€Flow Synthesis of Functionalized Phenols by Aerobic Oxidation of Grignard Reagents. Angewandte Chemie - International Edition, 2014, 53, 3353-3357.	7.2	125
40	Nickel-Catalyzed Allylic Substitution of Simple Alkenes. Journal of the American Chemical Society, 2010, 132, 6880-6881.	6.6	124
41	Continuous Flow Total Synthesis of Rufinamide. Organic Process Research and Development, 2014, 18, 1567-1570.	1.3	118
42	Highly Selective Coupling of Alkenes and Aldehydes Catalyzed by [Ni(NHC){P(OPh)3}]: Synergy between a Strong Ïƒâ€…Donor and a Strong Ï€â€…Acceptor. Angewandte Chemie - International Edition, 2007, 46, 782-785.	7.2	117
43	Cobalt-Mediated Total Synthesis of (+)-Epoxydictymene. Journal of the American Chemical Society, 1994, 116, 5505-5506.	6.6	115
44	Safe and Efficient Tetrazole Synthesis in a Continuousâ€Flow Microreactor. Angewandte Chemie - International Edition, 2011, 50, 3525-3528.	7.2	114
45	Origins of Regioselectivity and Alkene-Directing Effects in Nickel-Catalyzed Reductive Couplings of Alkynes and Aldehydes. Journal of the American Chemical Society, 2010, 132, 2050-2057.	6.6	109
46	Continuous Flow Synthesis of Chiral Amines in Organic Solvents: Immobilization of E. coli Cells Containing Both Ï‰-Transaminase and PLP. Organic Letters, 2014, 16, 6092-6095.	2.4	107
47	Nickelâ€Catalyzed Mizorokiâ€“Heck Reaction of Aryl Sulfonates and Chlorides with Electronically Unbiased Terminal Olefins: High Selectivity for Branched Products. Angewandte Chemie - International Edition, 2014, 53, 1858-1861.	7.2	107
48	Combinatorial libraries of transition-metal complexes, catalysts and materials. Current Opinion in Chemical Biology, 1998, 2, 422-428.	2.8	106
49	Anionâ€Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. Advanced Functional Materials, 2016, 26, 3394-3404.	7.8	106
50	Ligand-Switchable Directing Effects of Tethered Alkenes in Nickel-Catalyzed Additions to Alkynes. Journal of the American Chemical Society, 2004, 126, 15342-15343.	6.6	105
51	Total Syntheses of Amphidinolides T1 and T4 via Catalytic, Stereoselective, Reductive Macrocyclizations. Journal of the American Chemical Society, 2005, 127, 4297-4307.	6.6	105
52	Enantioselective Synthesis of (â^')-Terpestacin and Structural Revision of Siccanol Using Catalytic Stereoselective Fragment Couplings and Macrocyclizations. Journal of the American Chemical Society, 2004, 126, 10682-10691.	6.6	102
53	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. Angewandte Chemie - International Edition, 2017, 56, 8870-8873.	7.2	98
54	Synthesis of Amphidinolide T1 via Catalytic, Stereoselective Macrocyclization. Journal of the American Chemical Society, 2004, 126, 998-999.	6.6	97

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55	Highly Regioselective, Catalytic Asymmetric Reductive Coupling of 1,3-Enynes and Ketones. Organic Letters, 2005, 7, 3077-3080.	2.4	97
56	The development of endo-selective epoxide-opening cascades in water. Chemical Society Reviews, 2009, 38, 3175.	18.7	97
57	Highly Regioselective Nickel-Catalyzed Cross-Coupling of N-Tosylaziridines and Alkylzinc Reagents. Journal of the American Chemical Society, 2014, 136, 11145-11152.	6.6	97
58	Mechanism and Transition-State Structures for Nickel-Catalyzed Reductive Alkyneâ"Aldehyde Coupling Reactions. Journal of the American Chemical Society, 2009, 131, 6654-6655.	6.6	94
59	End-to-end continuous flow synthesis and purification of diphenhydramine hydrochloride featuring atom economy, in-line separation, and flow of molten ammonium salts. Chemical Science, 2013, 4, 2822.	3.7	94
60	The assembly and use of continuous flow systems for chemical synthesis. Nature Protocols, 2017, 12, 2423-2446.	5.5	92
61	Nickel-Catalyzed Coupling of Alkenes, Aldehydes, and Silyl Triflates. Journal of the American Chemical Society, 2006, 128, 11513-11528.	6.6	88
62	Diisobutylaluminum Hydride Reductions Revitalized: A Fast, Robust, and Selective Continuous Flow System for Aldehyde Synthesis. Organic Letters, 2012, 14, 568-571.	2.4	88
63	Photoredox Activation of SF₆ for Fluorination. Angewandte Chemie - International Edition, 2016, 55, 15072-15075.	7.2	86
64	Total Synthesis of ent-Dioxepandehydrothyrsiferol via a Bromonium-Initiated Epoxide-Opening Cascade. Journal of the American Chemical Society, 2009, 131, 12084-12085.	6.6	83
65	Kinetic and Scale-Up Investigations of Epoxide Aminolysis in Microreactors at High Temperatures and Pressures. Organic Process Research and Development, 2011, 15, 131-139.	1.3	83
66	SiMe3-Based Homologationâ"Epoxidationâ"Cyclization Strategy for Ladder THP Synthesis. Organic Letters, 2003, 5, 2339-2342.	2.4	82
67	Simple Alkenes as Substitutes for Organometallic Reagents:Â Nickel-Catalyzed, Intermolecular Coupling of Aldehydes, Silyl Triflates, and Alpha Olefins. Journal of the American Chemical Society, 2005, 127, 14194-14195.	6.6	81
68	Advanced Continuous Flow Platform for Onâ€Demand Pharmaceutical Manufacturing. Chemistry - A European Journal, 2018, 24, 2776-2784.	1.7	81
69	7â€Step Flow Synthesis of the HIV Integrase Inhibitor Dolutegravir. Angewandte Chemie - International Edition, 2018, 57, 7181-7185.	7.2	80
70	Total Synthesis of FR901464. Convergent Assembly of Chiral Components Prepared by Asymmetric Catalysis. Journal of the American Chemical Society, 2000, 122, 10482-10483.	6.6	76
71	Continuous Flow Coupling and Decarboxylation Reactions Promoted by Copper Tubing. Organic Letters, 2011, 13, 280-283.	2.4	76
72	Synthesis of Marine Polycyclic Polyethers via Endo-Selective Epoxide-Opening Cascades. Marine Drugs, 2010, 8, 763-809.	2.2	75

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73	Synthesis of (â˜)-Terpestacin via Catalytic, Stereoselective Fragment Coupling:Â Siccanol Is Terpestacin, Not 11-epi-Terpestacin. Journal of the American Chemical Society, 2003, 125, 11514-11515.	6.6	74
74	Ready, Set, Flow! Automated Continuous Synthesis and Optimization. Trends in Chemistry, 2021, 3, 373-386.	4.4	74
75	Ladder Polyether Synthesis via Epoxide-Opening Cascades Using a Disappearing Directing Group. Journal of the American Chemical Society, 2006, 128, 1056-1057.	6.6	71
76	Î±â€Olefins as Alkenylmetal Equivalents in Catalytic Conjugate Addition Reactions. Angewandte Chemie - International Edition, 2008, 47, 1893-1895.	7.2	71
77	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. Journal of Organic Chemistry, 1990, 55, 3511-3522.	1.7	69
78	Nickel-Catalyzed Synthesis of Acrylamides from Î±-Olefins and Isocyanates. Organic Letters, 2007, 9, 875-878.	2.4	68
79	Recent progress in the synthesis of oxepanes and medium ring ethers. Tetrahedron, 2012, 68, 6999-7018.	1.0	68
80	Electrophilic Amination: The Case of Nitrenoids. Chemistry - A European Journal, 2015, 21, 5278-5300.	1.7	68
81	Towards More Efficient, Greener Syntheses through Flow Chemistry. Chemical Record, 2017, 17, 667-680.	2.9	68
82	Sevenâ€Step Continuous Flow Synthesis of Linezolid Without Intermediate Purification. Angewandte Chemie - International Edition, 2019, 58, 7678-7681.	7.2	68
83	anti-1,2-Diols via Ni-Catalyzed Reductive Coupling of Alkynes and Î±-Oxyaldehydes. Organic Letters, 2005, 7, 2937-2940.	2.4	67
84	Continuous Photochemical Generation of Catalytically Active [CpRu]⁺ Complexes from CpRu(Î·⁶-C₆H₆)PF₆. Organic Letters, 2011, 13, 6414-6417.	2.4	66
85	Continuous Flow Oxidation of Alcohols and Aldehydes Utilizing Bleach and Catalytic Tetrabutylammonium Bromide. Organic Process Research and Development, 2012, 16, 1082-1089.	1.3	64
86	Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis. Advanced Synthesis and Catalysis, 2019, 361, 247-264.	2.1	64
87	Hydrogen-Free Alkene Reduction in Continuous Flow. Organic Letters, 2013, 15, 710-713.	2.4	58
88	Water Overcomes Methyl Group Directing Effects in Epoxide-Opening Cascades. Journal of the American Chemical Society, 2009, 131, 6678-6679.	6.6	56
89	Ni(II) Salts and 2-Propanol Effect Catalytic Reductive Coupling of Epoxides and Alkynes. Organic Letters, 2011, 13, 4140-4143.	2.4	56
90	Minimizing E-factor in the continuous-flow synthesis of diazepam and atropine. Bioorganic and Medicinal Chemistry, 2017, 25, 6233-6241.	1.4	56

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91	Mechanism-guided design of flow systems for multicomponent reactions: conversion of CO2 and olefins to cyclic carbonates. Chemical Science, 2014, 5, 1227.	3.7	55
92	Enantioselective and regioselective nickel-catalyzed multicomponent coupling of chiral allenes, aromatic aldehydes, and silanes. Tetrahedron, 2005, 61, 11405-11417.	1.0	54
93	Mechanistic Implications of Nickel-Catalyzed Reductive Coupling of Aldehydes and Chiral 1,6-Enynes. Organic Letters, 2006, 8, 455-458.	2.4	54
94	Nickel-catalyzed coupling of terminal allenes, aldehydes, and silanes. Tetrahedron, 2006, 62, 11350-11359.	1.0	53
95	Nickel-catalyzed coupling reactions of alkenes. Pure and Applied Chemistry, 2008, 80, 929-939.	0.9	53
96	Catalytic reductive carbonî—¸carbon bond-forming reactions of alkynes. Tetrahedron: Asymmetry, 2003, 14, 3619-3625.	1.8	51
97	Nickel-Catalyzed, Carbonyl-Ene-Type Reactions:Â Selective for Alpha Olefins and More Efficient with Electron-Rich Aldehydes. Journal of the American Chemical Society, 2006, 128, 5362-5363.	6.6	51
98	Highly Convergent Total Synthesis of (+)-Acutiphycin. Journal of the American Chemical Society, 2006, 128, 15106-15107.	6.6	50
99	Peptide Fragment Coupling Using a Continuousâ€Flow Photochemical Rearrangement of Nitrones. Angewandte Chemie - International Edition, 2013, 52, 4251-4255.	7.2	50
100	Synthesis of Celecoxib, Mavacoxib, SCâ€560, Fluxapyroxad, and Bixafen Enabled by Continuous Flow Reaction Modules. European Journal of Organic Chemistry, 2017, 2017, 6566-6574.	1.2	50
101	Continuous Production of Five Active Pharmaceutical Ingredients in Flexible Plug-and-Play Modules: A Demonstration Campaign. Organic Process Research and Development, 2020, 24, 2183-2196.	1.3	50
102	Enhanced Reaction Efficiency in Continuous Flow. Israel Journal of Chemistry, 2017, 57, 218-227.	1.0	48
103	On the Synergism Between H2O and a Tetrahydropyran Template in the Regioselective Cyclization of an Epoxy Alcohol. Journal of the American Chemical Society, 2009, 131, 6383-6385.	6.6	47
104	Bayesian Optimization of Computer-Proposed Multistep Synthetic Routes on an Automated Robotic Flow Platform. ACS Central Science, 2022, 8, 825-836.	5.3	47
105	Functionalized Templates for the Convergent Assembly of Polyethers: Synthesis of the HIJK Rings of Gymnocinâ€…A. Angewandte Chemie - International Edition, 2009, 48, 4430-4432.	7.2	46
106	Continuous-flow synthesis and purification of atropine with sequential in-line separations of structurally similar impurities. Journal of Flow Chemistry, 2015, 5, 133-138.	1.2	46
107	Rapid Continuous Synthesis of 5â€²-Deoxyribonucleosides in Flow via BrÃ¸nsted Acid Catalyzed Glycosylation. Organic Letters, 2012, 14, 3348-3351.	2.4	42
108	Evidence That Epoxide-Opening Cascades Promoted by Water Are Stepwise and Become Faster and More Selective After the First Cyclization. Journal of the American Chemical Society, 2011, 133, 1902-1908.	6.6	41

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109	Rhodium-Catalyzed Endo-Selective Epoxide-Opening Cascades: Formal Synthesis of (â^')-Brevisin. Journal of the American Chemical Society, 2015, 137, 6941-6946.	6.6	41
110	Cobalt Cluster-Containing Carbonyl Ylides for Catalytic, Three-Component Assembly of Oxygen Heterocycles. Organic Letters, 2002, 4, 2277-2280.	2.4	40
111	Continuous flow photocatalysis enhanced using an aluminum mirror: rapid and selective synthesis of 2â€²-deoxy and 2â€²,3â€²-dideoxynucleosides. Chemical Communications, 2012, 48, 7444.	2.2	40
112	Catalytic Addition of Simple Alkenes to Carbonyl Compounds by Use of Group 10 Metals. Synlett, 2009, 2009, 2565-2582.	1.0	39
113	Total Synthesis of the Marine Ladder Polyether Gymnocin B. Journal of the American Chemical Society, 2019, 141, 11239-11244.	6.6	39
114	A concise route to MK-4482 (EIDD-2801) from cytidine. Chemical Communications, 2020, 56, 13363-13364.	2.2	39
115	A comparative analysis of the total syntheses of the amphidinolide T natural products. Organic and Biomolecular Chemistry, 2005, 3, 2675.	1.5	38
116	Directing effects of tethered alkenes in nickel-catalyzed coupling reactions of 1,6-enynes and aldehydes. Tetrahedron, 2006, 62, 7598-7610.	1.0	38
117	Scalable and Robust Synthesis of CpRu(MeCN)₃PF₆via Continuous Flow Photochemistry. Journal of Flow Chemistry, 2012, 1, 24-27.	1.2	38
118	A Unified Continuous Flow Assemblyâ€Line Synthesis of Highly Substituted Pyrazoles and Pyrazolines. Angewandte Chemie, 2017, 129, 8949-8953.	1.6	37
119	trans-Hydroalumination/Alkylation:â€‰ One-Pot Synthesis of Trisubstituted Allylic Alcohols. Organic Letters, 2006, 8, 3761-3764.	2.4	36
120	Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes. Environmental Science and Technology Letters, 2017, 4, 161-167.	3.9	36
121	Xenoprotein engineering via synthetic libraries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5298-E5306.	3.3	36
122	Modular Continuous Flow Synthesis of Imatinib and Analogues. Organic Letters, 2019, 21, 6112-6116.	2.4	36
123	Photoredox Activation of SF₆ for Fluorination. Angewandte Chemie, 2016, 128, 15296-15299.	1.6	35
124	Redox Interfaces for Electrochemically Controlled Proteinâ€“Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis. Chemistry of Materials, 2017, 29, 5702-5712.	3.2	35
125	Progress Toward a Large-Scale Synthesis of Molnupiravir (MK-4482, EIDD-2801) from Cytidine. ACS Omega, 2021, 6, 10396-10402.	1.6	35
126	Continuous flow strategies for using fluorinated greenhouse gases in fluoroalkylations. Chemical Society Reviews, 2021, 50, 7378-7394.	18.7	35

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127	SmI₂-Promoted Reformatsky-Type Coupling Reactions in Exceptionally Hindered Contexts. Organic Letters, 2008, 10, 1291-1294.	2.4	34
128	Entropic factors provide unusual reactivity and selectivity in epoxide-opening reactions promoted by water. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16724-16729.	3.3	34
129	Macrocyclization by Nickelâ€Catalyzed, Esterâ€Promoted, Epoxideâ€“Alkyne Reductive Coupling: Total Synthesis of (â^')â€Gloeosporone. Angewandte Chemie - International Edition, 2009, 48, 5366-5368.	7.2	32
130	Total Synthesis of (+)-Acutiphycin. Journal of Organic Chemistry, 2007, 72, 9736-9745.	1.7	31
131	Catalytic Generation and Use of Ketyl Radical from Unactivated Aliphatic Carbonyl Compounds. Organic Letters, 2019, 21, 10159-10163.	2.4	31
132	Synthesis of C13â€“C22 of amphidinolide T2 via nickel-catalyzed reductive coupling of an alkyne and a terminal epoxide. Tetrahedron, 2005, 61, 6243-6248.	1.0	30
133	A Continuous Homologation of Esters: An Efficient Telescoped Reductionâ€“Olefination Sequence. Organic Letters, 2012, 14, 2465-2467.	2.4	30
134	A General Strategy for the Synthesis of Enantiomerically Pure Azetidines and Aziridines through Nickelâ€Catalyzed Crossâ€Coupling. Chemistry - A European Journal, 2015, 21, 7379-7383.	1.7	30
135	Benchâ€Stable Nâ€Heterocyclic Carbene Nickel Precatalysts for Câ^'C and Câ^'N Bondâ€Forming Reactions. ChemCatChem, 2018, 10, 2873-2877.	1.8	29
136	Synthesis of skipped enynes via phosphine-promoted couplings of propargylcopper reagents. Tetrahedron, 2003, 59, 8913-8917.	1.0	28
137	Bench-Stable Nickel Precatalysts with Heck-type Activation. Organometallics, 2018, 37, 2716-2722.	1.1	28
138	Total Synthesis of Pumiliotoxins 209F and 251D via Late-Stage, Nickel-Catalyzed Epoxideâ^'Alkyne Reductive Cyclization. Journal of Organic Chemistry, 2007, 72, 7451-7454.	1.7	27
139	Continuous-Flow Chemistry in Undergraduate Education: Sustainable Conversion of Reclaimed Vegetable Oil into Biodiesel. Journal of Chemical Education, 2018, 95, 1371-1375.	1.1	27
140	Deuteriodifluoromethylation and gemâ€Difluoroalkenylation of Aldehydes Using ClCF₂H in Continuous Flow. Angewandte Chemie - International Edition, 2020, 59, 13885-13890.	7.2	27
141	Ladder Polyether Synthesis via Epoxide-Opening Cascades Directed by a Disappearing Trimethylsilyl Group. Journal of Organic Chemistry, 2010, 75, 2681-2701.	1.7	26
142	Synthesis of Highly Substituted 2-Arylindoles via Copper-Catalyzed Coupling of Isocyanides and Arylboronic Acids. Organic Letters, 2018, 20, 3263-3267.	2.4	26
143	Amide Bond Formation via Reversible, Carboxylic Acid-Promoted Lactone Aminolysis. Organic Process Research and Development, 2010, 14, 1177-1181.	1.3	25
144	Ni-Catalyzed Cross-Electrophile Coupling for the Synthesis of Skipped Polyenes. Organic Letters, 2019, 21, 3606-3609.	2.4	24

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145	Total syntheses of the squalene-derived halogenated polyethers ent -dioxepandehydrothyrsiferol and armatol A via bromonium- and Lewis acid-initiated epoxide-opening cascades. Tetrahedron, 2013, 69, 5205-5220.	1.0	23
146	Stereoselective Formation of Fully Substituted Ketone Enolates. Angewandte Chemie - International Edition, 2016, 55, 5517-5520.	7.2	23
147	Flow-IEG enables programmable thermodynamic properties in sequence-defined unimolecular macromolecules. Polymer Chemistry, 2017, 8, 5786-5794.	1.9	23
148	A Dioxane Template for Highly Selective Epoxy Alcohol Cyclizations. Chemistry - A European Journal, 2013, 19, 10004-10016.	1.7	22
149	Synthesis and Utilization of Nitroalkyne Equivalents in Batch and Continuous Flow. Angewandte Chemie - International Edition, 2017, 56, 13999-14002.	7.2	21
150	A Concise Route to MK-4482 (EIDD-2801) from Cytidine: Part 2. Synlett, 2021, 32, 326-328.	1.0	21
151	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. Angewandte Chemie, 2017, 129, 8996-8999.	1.6	19
152	Selective N-monomethylation of primary anilines with dimethyl carbonate in continuous flow. Tetrahedron, 2018, 74, 3124-3128.	1.0	16
153	Strategic use of nickel(0)-catalyzed enyneâ€“epoxide reductive coupling toward the synthesis of (â^')-cyatha-3,12-diene. Tetrahedron, 2009, 65, 3270-3280.	1.0	15
154	Monolithic Silica Support for Immobilized Catalysis in Continuous Flow. Advanced Synthesis and Catalysis, 2020, 362, 314-319.	2.1	15
155	A Scalable Membrane Pervaporation Approach for Continuous Flow Olefin Metathesis. Organic Process Research and Development, 2020, 24, 2298-2303.	1.3	14
156	Design of dynamic trajectories for efficient and data-rich exploration of flow reaction design spaces. Reaction Chemistry and Engineering, 2021, 6, 2306-2314.	1.9	14
157	Toward a Practical, Nonenzymatic Process for Investigational COVID-19 Antiviral Molnupiravir from Cytidine: Supply-Centered Synthesis. Organic Process Research and Development, 2021, 25, 2679-2685.	1.3	14
158	Hydroxyl-Substituted Ladder Polyethers via Selective Tandem Epoxidation/Cyclization Sequence. Organic Letters, 2015, 17, 774-777.	2.4	13
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