

C Oliver Kappe

List of Publications by Year in descending order

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papers

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666
times ranked

22889
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Microwave Heating in Modern Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6250-6284.	7.2	3,145
2	Biologically active dihydropyrimidones of the Biginelli-type – a literature survey. <i>European Journal of Medicinal Chemistry</i> , 2000, 35, 1043-1052.	2.6	1,249
3	Continuous-Flow Technology – A Tool for the Safe Manufacturing of Active Pharmaceutical Ingredients. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6688-6728.	7.2	1,164
4	100 years of the biginelli dihydropyrimidine synthesis. <i>Tetrahedron</i> , 1993, 49, 6937-6963.	1.0	1,158
5	Recent Advances in the Biginelli Dihydropyrimidine Synthesis. New Tricks from an Old Dog. <i>Accounts of Chemical Research</i> , 2000, 33, 879-888.	7.6	1,026
6	Microwave-Assisted Synthesis in Water as Solvent. <i>Chemical Reviews</i> , 2007, 107, 2563-2591.	23.0	1,012
7	Microwave dielectric heating in synthetic organic chemistry. <i>Chemical Society Reviews</i> , 2008, 37, 1127.	18.7	704
8	Microwave-Assisted Synthesis of Colloidal Inorganic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11312-11359.	7.2	686
9	The impact of microwave synthesis on drug discovery. <i>Nature Reviews Drug Discovery</i> , 2006, 5, 51-63.	21.5	525
10	Nonthermal Microwave Effects Revisited: On the Importance of Internal Temperature Monitoring and Agitation in Microwave Chemistry. <i>Journal of Organic Chemistry</i> , 2008, 73, 36-47.	1.7	482
11	Microwave Effects in Organic Synthesis: Myth or Reality?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1088-1094.	7.2	457
12	Synthetic applications of furan Diels-Alder chemistry. <i>Tetrahedron</i> , 1997, 53, 14179-14233.	1.0	425
13	A Reexamination of the Mechanism of the Biginelli Dihydropyrimidine Synthesis. Support for an N-Acyliminium Ion Intermediate. <i>Journal of Organic Chemistry</i> , 1997, 62, 7201-7204.	1.7	414
14	Controlled microwave heating in modern organic synthesis: highlights from the 2004–2008 literature. <i>Molecular Diversity</i> , 2009, 13, 71-193.	2.1	413
15	Conformational analysis of 4-aryl-dihydropyrimidine calcium channel modulators. A comparison of ab initio, semiempirical and X-ray crystallographic studies. <i>Tetrahedron</i> , 1997, 53, 2803-2816.	1.0	387
16	Click chemistry under non-classical reaction conditions. <i>Chemical Society Reviews</i> , 2010, 39, 1280-1290.	18.7	342
17	Heterogeneous Catalytic Hydrogenation Reactions in Continuous-Flow Reactors. <i>ChemSusChem</i> , 2011, 4, 300-316.	3.6	321
18	A critical assessment of the greenness and energy efficiency of microwave-assisted organic synthesis. <i>Green Chemistry</i> , 2011, 13, 794.	4.6	301

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19	The Liebeskindâ€“Srogl C ₁ C ₂ Crossâ€“Coupling Reaction. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2276-2286.	7.2	297
20	High-speed combinatorial synthesis utilizing microwave irradiation. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 314-320.	2.8	265
21	Automated Library Generation Using Sequential Microwave-Assisted Chemistry. Application toward the Biginelli Multicomponent Condensation. <i>ACS Combinatorial Science</i> , 2001, 3, 624-630.	3.3	233
22	Microwave-Assisted High-Speed Parallel Synthesis of 4-Aryl-3,4-dihydropyrimidin-2(1H)-ones using a Solventless Biginelli Condensation Protocol. <i>Synthesis</i> , 1999, 1999, 1799-1803.	1.2	227
23	Microwave-Assisted Synthesis under Continuous-Flow Conditions. <i>Macromolecular Rapid Communications</i> , 2007, 28, 395-410.	2.0	225
24	Microwave Chemistry in Silicon Carbide Reaction Vials: Separating Thermal from Nonthermal Effects. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8321-8324.	7.2	220
25	The Microwaveâ€“toâ€“Flow Paradigm: Translating Highâ€“Temperature Batch Microwave Chemistry to Scalable Continuousâ€“Flow Processes. <i>Chemistry - A European Journal</i> , 2011, 17, 11956-11968.	1.7	205
26	Microwave-Assisted Asymmetric Organocatalysis. A Probe for Nonthermal Microwave Effects and the Concept of Simultaneous Cooling. <i>Journal of Organic Chemistry</i> , 2007, 72, 1417-1424.	1.7	191
27	Inâ€“Situ Generated Iron Oxide Nanocrystals as Efficient and Selective Catalysts for the Reduction of Nitroarenes using a Continuous Flow Method. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10190-10193.	7.2	184
28	Polyphosphate Ester-Mediated Synthesis of Dihydropyrimidines. Improved Conditions for the Biginelli Reaction. <i>Synlett</i> , 1998, 1998, 718-720.	1.0	181
29	Rapid microwave-assisted solution phase synthesis of substituted 2-pyridone libraries. <i>Tetrahedron</i> , 2004, 60, 8633-8644.	1.0	173
30	Continuous Flow Organic Synthesis under Highâ€“Temperature/Pressure Conditions. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1274-1289.	1.7	170
31	Tuning of Chemo- and Regioselectivities in Multicomponent Condensations of 5-Aminopyrazoles, Dimedone, and Aldehydes. <i>Journal of Organic Chemistry</i> , 2008, 73, 5110-5118.	1.7	169
32	Silicon Carbide Passive Heating Elements in Microwave-Assisted Organic Synthesis. <i>Journal of Organic Chemistry</i> , 2006, 71, 4651-4658.	1.7	168
33	Synthesis of 5-Substituted 1 <i>H</i> -Tetrazoles from Nitriles and Hydrazoic Acid by Using a Safe and Scalable Highâ€“Temperature Microreactor Approach. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7101-7105.	7.2	167
34	How to measure reaction temperature in microwave-heated transformations. <i>Chemical Society Reviews</i> , 2013, 42, 4977.	18.7	167
35	Understanding microwave heating effects in single mode type cavitiesâ€“theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4750.	1.3	163
36	Continuous Flow Generation and Reactions of Anhydrous Diazomethane Using a Teflon AF-2400 Tube-in-Tube Reactor. <i>Organic Letters</i> , 2013, 15, 5590-5593.	2.4	163

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37	Immobilized Transition Metals as Catalysts for Cross-Couplings in Continuous Flow—A Critical Assessment of the Reaction Mechanism and Metal Leaching. <i>ChemCatChem</i> , 2014, 6, 3286-3305.	1.8	163
38	Solid-Phase Synthesis of Difficult Peptide Sequences at Elevated Temperatures: A Critical Comparison of Microwave and Conventional Heating Technologies. <i>Journal of Organic Chemistry</i> , 2008, 73, 7532-7542.	1.7	162
39	X-Ray Structure, Conformational Analysis, Enantioseparation, and Determination of Absolute Configuration of the Mitotic Kinesin Eg5 Inhibitor Monastrol. <i>Tetrahedron</i> , 2000, 56, 1859-1862.	1.0	161
40	Novel pyrazole compounds for pharmacological discrimination between receptor-operated and store-operated Ca^{2+} entry pathways. <i>British Journal of Pharmacology</i> , 2012, 167, 1712-1722.	2.7	160
41	Scalability of Microwave-Assisted Organic Synthesis. From Single-Mode to Multimode Parallel Batch Reactors. <i>Organic Process Research and Development</i> , 2003, 7, 707-716.	1.3	158
42	Tunable Carbon-Carbon and Carbon-Sulfur Cross-Coupling of Boronic Acids with 3,4-Dihydropyrimidine-2-thiones. <i>Organic Letters</i> , 2004, 6, 771-774.	2.4	154
43	Heterogeneous Versus Homogeneous Palladium Catalysts for Ligandless Mizoroki-Heck Reactions: A Comparison of Batch/Microwave and Continuous-Flow Processing. <i>Chemistry - A European Journal</i> , 2009, 15, 1001-1010.	1.7	153
44	Continuous-Flow Microreactor Chemistry under High-Temperature/Pressure Conditions. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1321-1325.	1.2	148
45	The Generation of Dihydropyrimidine Libraries Utilizing Biginelli Multicomponent Chemistry. <i>QSAR and Combinatorial Science</i> , 2003, 22, 630-645.	1.5	146
46	4-Aryldihydropyrimidines via the Biginelli Condensation: Aza-Analogs of Nifedipine-Type Calcium Channel Modulators. <i>Molecules</i> , 1998, 3, 1-9.	1.7	141
47	Continuous Flow α -Trifluoromethylation of Ketones by Metal-Free Visible Light Photoredox Catalysis. <i>Organic Letters</i> , 2014, 16, 896-899.	2.4	141
48	Hydrazine-mediated Reduction of Nitro and Azide Functionalities Catalyzed by Highly Active and Reusable Magnetic Iron Oxide Nanocrystals. <i>Journal of Organic Chemistry</i> , 2013, 78, 4530-4542.	1.7	136
49	On the Energy Efficiency of Microwave-Assisted Organic Reactions. <i>ChemSusChem</i> , 2008, 1, 123-132.	3.6	134
50	Translating High-Temperature Microwave Chemistry to Scalable Continuous Flow Processes. <i>Organic Process Research and Development</i> , 2010, 14, 215-224.	1.3	133
51	Combining Biginelli Multicomponent and Click Chemistry: Generation of 6-(1,2,3-Triazol-1-yl)-Dihydropyrimidone Libraries. <i>ACS Combinatorial Science</i> , 2004, 6, 884-892.	3.3	132
52	Microwave-Assisted Ring-Closing Metathesis Revisited. On the Question of the Nonthermal Microwave Effect. <i>Journal of Organic Chemistry</i> , 2003, 68, 9136-9139.	1.7	131
53	Structural Basis for Inhibition of Eg5 by Dihydropyrimidines: Stereoselectivity of Antimitotic Inhibitors Enastron, Dimethylenastron and Fluorastrol. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 5676-5683.	2.9	126
54	Rapid Nickel-Catalyzed Suzuki-Miyaura Cross-Couplings of Aryl Carbamates and Sulfamates Utilizing Microwave Heating. <i>Journal of Organic Chemistry</i> , 2011, 76, 1507-1510.	1.7	124

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55	Why flow means green – Evaluating the merits of continuous processing in the context of sustainability. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 7, 6-12.	3.2	124
56	Investigating the Existence of Nonthermal/Specific Microwave Effects Using Silicon Carbide Heating Elements as Power Modulators. <i>Journal of Organic Chemistry</i> , 2008, 73, 6321-6329.	1.7	122
57	Palladium(0)-Catalyzed, Copper(I)-Mediated Coupling of Boronic Acids with Cyclic Thioamides. Selective Carbon–Carbon Bond Formation for the Functionalization of Heterocycles. <i>Journal of Organic Chemistry</i> , 2007, 72, 4440-4448.	1.7	121
58	High-Throughput Synthesis of N3-Acylated Dihydropyrimidines Combining Microwave-Assisted Synthesis and Scavenging Techniques. <i>Organic Letters</i> , 2003, 5, 1205-1208.	2.4	120
59	Palladium-Catalyzed Direct Arylation of Heteroaromatic Compounds: Improved Conditions Utilizing Controlled Microwave Heating. <i>Journal of Organic Chemistry</i> , 2011, 76, 8138-8142.	1.7	120
60	Synthesis and reactions of <i>biginelli</i> compounds. Part I. <i>Journal of Heterocyclic Chemistry</i> , 1989, 26, 55-64.	1.4	117
61	Continuous Flow Ozonolysis in a Laboratory Scale Reactor. <i>Organic Letters</i> , 2011, 13, 984-987.	2.4	116
62	Microwave-Assisted Three-Component Synthesis of 7-Aryl-2-alkylthio-4,7-dihydro-1,2,4-triazolo[1,5-a]-pyrimidine-6-carboxamides and Their Selective Reduction. <i>ACS Combinatorial Science</i> , 2006, 8, 427-434.	3.3	114
63	Microwave-Assisted Multistep Synthesis of Functionalized 4-Arylquinolin-2(1H)-ones Using Palladium-Catalyzed Cross-Coupling Chemistry. <i>Journal of Organic Chemistry</i> , 2005, 70, 3864-3870.	1.7	110
64	Mechanistic Insights into Copper(I)-Catalyzed Azide-Alkyne Cycloadditions using Continuous Flow Conditions. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 323-328.	2.1	109
65	Toward a Continuous-Flow Synthesis of Boscalid. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 3089-3097.	2.1	109
66	The Use of Molecular Oxygen in Pharmaceutical Manufacturing: Is Flow the Way to Go?. <i>ChemSusChem</i> , 2017, 10, 32-41.	3.6	104
67	Sintered Silicon Carbide: A New Ceramic Vessel Material for Microwave Chemistry in Single-Mode Reactors. <i>Chemistry - A European Journal</i> , 2010, 16, 12182-12194.	1.7	103
68	Microwave-Assisted Solution- and Solid-Phase Synthesis of 2-Amino-4-arylpyrimidine Derivatives. <i>ACS Combinatorial Science</i> , 2007, 9, 275-284.	3.3	102
69	Nanocatalysis in continuous flow: supported iron oxide nanoparticles for the heterogeneous aerobic oxidation of benzyl alcohol. <i>Green Chemistry</i> , 2013, 15, 1530.	4.6	100
70	Palladium(0) Nanoparticles on Glass-Polymer Composite Materials as Recyclable Catalysts: A Comparison Study on their Use in Batch and Continuous Flow Processes. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 717-730.	2.1	99
71	The Use of Molecular Oxygen for Liquid Phase Aerobic Oxidations in Continuous Flow. <i>Topics in Current Chemistry</i> , 2019, 377, 2.	3.0	99
72	The Concept of Chemical Generators: On-Site On-Demand Production of Hazardous Reagents in Continuous Flow. <i>Accounts of Chemical Research</i> , 2020, 53, 1330-1341.	7.6	98

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73	Advanced Real-Time Process Analytics for Multistep Synthesis in Continuous Flow**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8139-8148.	7.2	98
74	On the importance of simultaneous infrared/fiber-optic temperature monitoring in the microwave-assisted synthesis of ionic liquids. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 114-121.	1.5	96
75	Copper-Catalyzed Formation of C-C Bonds by Direct C-H Bond Activation of Ethers Using Stoichiometric Amounts of Peroxide in Batch and Continuous-Flow Formats. <i>Chemistry - A European Journal</i> , 2012, 18, 6124-6128.	1.7	96
76	High-Speed Microwave-Promoted Hetero-Diels-Alder Reactions of 2(1H)-Pyrazinones in Ionic Liquid Doped Solvents. <i>Journal of Organic Chemistry</i> , 2002, 67, 7904-7907.	1.7	95
77	Activation and Deactivation of a Chemical Transformation by an Electromagnetic Field: Evidence for Specific Microwave Effects in the Formation of Grignard Reagents. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7636-7640.	7.2	95
78	Unraveling the Mysteries of Microwave Chemistry Using Silicon Carbide Reactor Technology. <i>Accounts of Chemical Research</i> , 2013, 46, 1579-1587.	7.6	95
79	Design and Synthesis of a Conformationally Rigid Mimic of the Dihydropyrimidine Calcium Channel Modulator SQ 32,926. <i>Molecules</i> , 2000, 5, 227-239.	1.7	94
80	Mechanistic Insights on Azide-Nitrile Cycloadditions: On the Dialkyltin Oxide-Trimethylsilyl Azide Route and a New Vilsmeier-Haack-Type Organocatalyst. <i>Journal of the American Chemical Society</i> , 2011, 133, 4465-4475.	6.6	94
81	Highly versatile solid phase synthesis of biofunctional 4-aryl-3,4-dihydropyrimidines using resin-bound isothiourea building blocks and multidirectional resin cleavage. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 49-51.	1.0	93
82	Rhodium(II)-Catalyzed Equilibration of Push-Pull Carbonyl and Ammonium Ylides. A Computationally Based Understanding of the Reaction Pathway. <i>Journal of the American Chemical Society</i> , 2000, 122, 8155-8167.	6.6	93
83	Solid- and solution-phase synthesis of bioactive dihydropyrimidines. <i>Pure and Applied Chemistry</i> , 2004, 76, 1017-1024.	0.9	93
84	Halogenation of organic compounds using continuous flow and microreactor technology. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 7-19.	1.9	93
85	Continuous Flow Synthesis of α -Halo Ketones: Essential Building Blocks of Antiretroviral Agents. <i>Journal of Organic Chemistry</i> , 2014, 79, 1555-1562.	1.7	92
86	High-Speed Couplings and Cleavages in Microwave-Heated, Solid-Phase Reactions at High Temperatures. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 919-925.	1.2	91
87	A Scalable Procedure for Light-Induced Benzylic Brominations in Continuous Flow. <i>Journal of Organic Chemistry</i> , 2014, 79, 223-229.	1.7	91
88	A Continuous-Flow Protocol for Light-Induced Benzylic Fluorinations. <i>Journal of Organic Chemistry</i> , 2014, 79, 8486-8490.	1.7	91
89	Laboratory of the future: a modular flow platform with multiple integrated PAT tools for multistep reactions. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1571-1578.	1.9	90
90	Rapid Parallel Synthesis of Polymer-Bound Enones Utilizing Microwave-Assisted Solid-Phase Chemistry. <i>ACS Combinatorial Science</i> , 2002, 4, 154-161.	3.3	89

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91	Preparation of Thioamide Building Blocks via Microwave-Promoted Three-Component Kindler Reactions. <i>ACS Combinatorial Science</i> , 2003, 5, 145-148.	3.3	88
92	Monolithic polymer/carrier materials: Versatile composites for fine chemical synthesis. <i>Catalysis Today</i> , 2005, 105, 318-324.	2.2	88
93	Direct aerobic oxidation of 2-benzylpyridines in a gas-liquid continuous-flow regime using propylene carbonate as a solvent. <i>Green Chemistry</i> , 2013, 15, 320.	4.6	88
94	Traceless Solid-Phase Synthesis of Bicyclic Dihydropyrimidones Using Multidirectional Cyclization Cleavage. <i>ACS Combinatorial Science</i> , 2002, 4, 501-510.	3.3	87
95	Microwave-assisted Negishi and Kumada cross-coupling reactions of aryl chlorides Electronic supplementary information (ESI) available: Experimental procedures and spectral data. See http://www.rsc.org/suppdata/cc/b3/b313887a/ . <i>Chemical Communications</i> , 2004, , 564.	2.2	87
96	Microwave-enhanced reactions under open and closed vessel conditions. A case study. <i>Tetrahedron</i> , 2002, 58, 3177-3183.	1.0	86
97	Microwave-Assisted Organic Synthesis in Near-Critical Water at 300 Å°C -A Proof-of-Concept Study. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3672-3679.	1.2	86
98	Synthesis and Aromatization of Dihydropyrimidines Structurally Related to Calcium Channel Modulators of the Nifedipine-Type. <i>Heterocycles</i> , 1997, 45, 1967.	0.4	84
99	Microwave-mediated Biginelli reactions revisited. On the nature of rate and yield enhancements. <i>Perkin Transactions II RSC</i> , 2000, , 1363-1368.	1.1	84
100	Investigation of the Formation of CuInS ₂ Nanoparticles by the Oleylamine Route: Comparison of Microwave-Assisted and Conventional Syntheses. <i>Inorganic Chemistry</i> , 2011, 50, 193-200.	1.9	84
101	Pericyclic versus Pseudopericyclic 1,5-Electrocyclization of Iminodiazomethanes. An ab Initio and Density Functional Theory Study. <i>Journal of Organic Chemistry</i> , 1998, 63, 5801-5805.	1.7	83
102	Microwave-Enhanced and Metal-Catalyzed Functionalizations of the 4-Aryl-Dihydropyrimidone Template. <i>ACS Combinatorial Science</i> , 2005, 7, 574-583.	3.3	83
103	Generation and Synthetic Application of Trifluoromethyl Diazomethane Utilizing Continuous Flow Technologies. <i>Organic Letters</i> , 2016, 18, 1076-1079.	2.4	82
104	Forbidden chemistries - paths to a sustainable future engaging continuous processing. <i>Journal of Flow Chemistry</i> , 2017, 7, 65-71.	1.2	82
105	A three-component synthesis of pyrido[2,3-d]pyrimidines. <i>Tetrahedron Letters</i> , 2003, 44, 5385-5387.	0.7	81
106	Visible-Light-Mediated Iodoperfluoroalkylation of Alkenes in Flow and Its Application to the Synthesis of a Key Fulvestrant Intermediate. <i>Organic Letters</i> , 2019, 21, 5341-5345.	2.4	81
107	One-Pot, Multicomponent Route to Pyrazoloquinolizinones. <i>Organic Letters</i> , 2007, 9, 1691-1694.	2.4	80
108	Copper-Catalyzed C-C Coupling of Thiol Esters and Boronic Acids under Aerobic Conditions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3674-3676.	7.2	79

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109	PKC-dependent coupling of calcium permeation through transient receptor potential canonical 3 (TRPC3) to calcineurin signaling in HL-1 myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10556-10561.	3.3	79
110	Translating batch electrochemistry to single-pass continuous flow conditions: an organic chemist's guide. Journal of Flow Chemistry, 2020, 10, 181-190.	1.2	79
111	Regulation of Gene Expression through a Transcriptional Repressor that Senses Acyl-Chain Length in Membrane Phospholipids. Developmental Cell, 2014, 29, 729-739.	3.1	78
112	A Triple Cascade Sequence as a Strategy for the Construction of the Erythrinane Skeleton. Journal of Organic Chemistry, 1998, 63, 1144-1155.	1.7	77
113	Rapid Formation of Triarylphosphines by Microwave-Assisted Transition Metal-Catalyzed C ³ P Cross-Coupling Reactions. Organic Letters, 2002, 4, 3541-3543.	2.4	77
114	In Situ Generation of Diimide from Hydrazine and Oxygen: Continuous Flow Transfer Hydrogenation of Olefins. Angewandte Chemie - International Edition, 2013, 52, 10241-10244.	7.2	76
115	Biginelli condensations of fluorinated 3-oxo esters and 1,3-diketones. Journal of Fluorine Chemistry, 2000, 103, 17-23.	0.9	75
116	Microwave-Assisted Catalyst-Free Transesterification of Triglycerides with 1-Butanol under Supercritical Conditions. Energy & Fuels, 2008, 22, 643-645.	2.5	75
117	Continuous Flow Hydrogenation of Functionalized Pyridines. European Journal of Organic Chemistry, 2009, 2009, 1327-1334.	1.2	75
118	The Scale-Up of Microwave-Assisted Organic Synthesis. , 2006, , 233-278.		74
119	Design and 3D printing of a stainless steel reactor for continuous difluoromethylations using fluoroform. Reaction Chemistry and Engineering, 2017, 2, 919-927.	1.9	73
120	Microwave-assisted solution phase synthesis of dihydropyrimidine C5 amides and esters. Tetrahedron, 2006, 62, 4651-4664.	1.0	72
121	Cyclocondensation reactions of 5-aminopyrazoles, pyruvic acids and aldehydes. Multicomponent approaches to pyrazolopyridines and related products. Tetrahedron, 2007, 63, 1229-1242.	1.0	72
122	Microwave-Assisted Cross-Coupling and Hydrogenation Chemistry by Using Heterogeneous Transition-Metal Catalysts: An Evaluation of the Role of Selective Catalyst Heating. Chemistry - A European Journal, 2009, 15, 11608-11618.	1.7	71
123	Rapid solid-phase peptide synthesis using thermal and controlled microwave irradiation. Journal of Peptide Science, 2006, 12, 633-638.	0.8	70
124	5-Aroyl-3,4-dihydropyrimidin-2-one Library Generation via Automated Sequential and Parallel Microwave-assisted Synthesis Techniques. ACS Combinatorial Science, 2007, 9, 415-421.	3.3	70
125	Microwave-assisted aliphatic fluorine-chlorine exchange using triethylamine trihydrofluoride (TREAT-HF). Tetrahedron Letters, 2009, 50, 3665-3668.	0.7	70
126	Kinetic Resolution of (<i>rac</i>)-1-Phenylethanol with Immobilized Lipases: A Critical Comparison of Microwave and Conventional Heating Protocols. Journal of Organic Chemistry, 2009, 74, 6157-6162.	1.7	70

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127	An Investigation of Wall Effects in Microwave-Assisted Ring-Closing Metathesis and Cyclotrimerization Reactions. <i>Journal of Organic Chemistry</i> , 2010, 75, 5278-5288.	1.7	70
128	Phase dependent encapsulation and release profile of ZIF-based biocomposites. <i>Chemical Science</i> , 2020, 11, 3397-3404.	3.7	70
129	Accessing Novel Process Windows in a High-Temperature/Pressure Capillary Flow Reactor. <i>Chemical Engineering and Technology</i> , 2009, 32, 1702-1716.	0.9	69
130	Microwave-Assisted and Continuous Flow Multistep Synthesis of 4-(Pyrazol-1-yl)carboxanilides. <i>Journal of Organic Chemistry</i> , 2011, 76, 6657-6669.	1.7	69
131	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. <i>Cardiovascular Research</i> , 2015, 106, 163-173.	1.8	69
132	Oscillatory flow reactors for synthetic chemistry applications. <i>Journal of Flow Chemistry</i> , 2020, 10, 475-490.	1.2	69
133	Heterogeneous Hydrogenation Reactions Using a Continuous Flow High Pressure Device. <i>ACS Combinatorial Science</i> , 2005, 7, 641-643.	3.3	68
134	Direct Solid-Phase Synthesis of the Î²-Amyloid (1âˆ²42) Peptide Using Controlled Microwave Heating. <i>Journal of Organic Chemistry</i> , 2010, 75, 2103-2106.	1.7	68
135	A Scalable Two-Step Continuous Flow Synthesis of Nabumetone and Related 4-Aryl-2-butanones. <i>Organic Process Research and Development</i> , 2011, 15, 858-870.	1.3	68
136	An oscillatory plug flow photoreactor facilitates semi-heterogeneous dual nickel/carbon nitride photocatalytic C=C-N couplings. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 597-604.	1.9	68
137	Reply to the Correspondence on Microwave Effects in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7924-7928.	7.2	67
138	Diversity-Oriented Synthesis of Dibenzoazocines and Dibenzoazepines via a Microwave-Assisted Intramolecular A³-Coupling Reaction. <i>Organic Letters</i> , 2010, 12, 2774-2777.	2.4	65
139	Characterization of Microwave-Induced Electric Discharge Phenomena in Metal-Solvent Mixtures. <i>ChemistryOpen</i> , 2012, 1, 39-48.	0.9	65
140	Benchmarking Immobilized Di- and Triarylphosphine Palladium Catalysts for Continuous-Flow Cross-Coupling Reactions: Efficiency, Durability, and Metal Leaching Studies. <i>ACS Catalysis</i> , 2015, 5, 1303-1312.	5.5	65
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142	Synthesis and reactions of biginelli compounds âˆ²5. Facile preparation and resolution of a stable 5-dihydropyrimidinecarboxylic acid.. <i>Tetrahedron</i> , 1992, 48, 5473-5480.	1.0	64
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