

Klavs F Jensen

List of Publications by Year in descending order

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524
papers

49,795
citations

1118

115
h-index

2453

203
g-index

550
all docs

550
docs citations

550
times ranked

37869
citing authors

#	ARTICLE	IF	CITATIONS
1	(CdSe)ZnS Core-Shell Quantum Dots: Synthesis and Characterization of a Size Series of Highly Luminescent Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9463-9475.	1.2	3,916
2	Cells on chips. <i>Nature</i> , 2006, 442, 403-411.	13.7	2,022
3	Microreaction engineering "is small better?". <i>Chemical Engineering Science</i> , 2001, 56, 293-303.	1.9	1,042
4	Deciding Whether To Go with the Flow: Evaluating the Merits of Flow Reactors for Synthesis. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7502-7519.	7.2	868
5	Multiphase microfluidics: from flow characteristics to chemical and materials synthesis. <i>Lab on A Chip</i> , 2006, 6, 1487-1503.	3.1	862
6	Analyzing Learned Molecular Representations for Property Prediction. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3370-3388.	2.5	773
7	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. <i>Science</i> , 2016, 352, 61-67.	6.0	751
8	Full Color Emission from II-VI Semiconductor Quantum Dot-Polymer Composites. <i>Advanced Materials</i> , 2000, 12, 1102-1105.	11.1	709
9	In vitro and ex vivo strategies for intracellular delivery. <i>Nature</i> , 2016, 538, 183-192.	13.7	662
10	Synthesis of micro and nanostructures in microfluidic systems. <i>Chemical Society Reviews</i> , 2010, 39, 1183.	18.7	617
11	A robotic platform for flow synthesis of organic compounds informed by AI planning. <i>Science</i> , 2019, 365, .	6.0	548
12	End-to-End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12359-12363.	7.2	505
13	Next-generation in vivo optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	490
14	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. <i>Chemical Reviews</i> , 2018, 118, 7409-7531.	23.0	490
15	Prediction of Organic Reaction Outcomes Using Machine Learning. <i>ACS Central Science</i> , 2017, 3, 434-443.	5.3	477
16	Transport and reaction in microscale segmented gas-liquid flow. <i>Lab on A Chip</i> , 2004, 4, 278-286.	3.1	465
17	Microchemical systems for continuous-flow synthesis. <i>Lab on A Chip</i> , 2009, 9, 2495.	3.1	463
18	The role of flow in green chemistry and engineering. <i>Green Chemistry</i> , 2013, 15, 1456.	4.6	455

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19	Machine Learning in Computer-Aided Synthesis Planning. <i>Accounts of Chemical Research</i> , 2018, 51, 1281-1289.	7.6	430
20	A graph-convolutional neural network model for the prediction of chemical reactivity. <i>Chemical Science</i> , 2019, 10, 370-377.	3.7	430
21	Microfabricated Multiphase Packed-Bed Reactors: Characterization of Mass Transfer and Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2555-2562.	1.8	407
22	Synthesis of Luminescent Thin-Film CdSe/ZnSe Quantum Dot Composites Using CdSe Quantum Dots Passivated with an Overlayer of ZnSe. <i>Chemistry of Materials</i> , 1996, 8, 173-180.	3.2	399
23	Microfluidic Synthesis of Colloidal Silica. <i>Langmuir</i> , 2004, 20, 8604-8611.	1.6	397
24	Micromixing of Miscible Liquids in Segmented Gas-Liquid Flow. <i>Langmuir</i> , 2005, 21, 1547-1555.	1.6	387
25	A vector-free microfluidic platform for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2082-2087.	3.3	386
26	Multistep Continuous-Flow Microchemical Synthesis Involving Multiple Reactions and Separations. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5704-5708.	7.2	362
27	Microfluidic Shear Devices for Quantitative Analysis of Cell Adhesion. <i>Analytical Chemistry</i> , 2004, 76, 5257-5264.	3.2	361
28	Flow chemistry—Microreaction technology comes of age. <i>AIChE Journal</i> , 2017, 63, 858-869.	1.8	351
29	Integrated continuous microfluidic liquid-liquid extraction. <i>Lab on A Chip</i> , 2007, 7, 256-263.	3.1	341
30	Reconfigurable system for automated optimization of diverse chemical reactions. <i>Science</i> , 2018, 361, 1220-1225.	6.0	339
31	A Continuum Model of DC and RF Discharges. <i>IEEE Transactions on Plasma Science</i> , 1986, 14, 78-91.	0.6	333
32	Integrated Microreactors for Reaction Automation: New Approaches to Reaction Development. <i>Annual Review of Analytical Chemistry</i> , 2010, 3, 19-42.	2.8	324
33	Convolutional Embedding of Attributed Molecular Graphs for Physical Property Prediction. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1757-1772.	2.5	317
34	A microfluidic electroporation device for cell lysis. <i>Lab on A Chip</i> , 2005, 5, 23.	3.1	283
35	Flow-induced deformation of shallow microfluidic channels. <i>Lab on A Chip</i> , 2006, 6, 500.	3.1	283
36	A Microfabricated Gas-Liquid Segmented Flow Reactor for High-Temperature Synthesis: The Case of CdSe Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5447-5451.	7.2	252

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37	Mass transport and surface reactions in microfluidic systems. <i>Chemical Engineering Science</i> , 2006, 61, 1102-1121.	1.9	248
38	Using Machine Learning To Predict Suitable Conditions for Organic Reactions. <i>ACS Central Science</i> , 2018, 4, 1465-1476.	5.3	245
39	Micromachined reactors for catalytic partial oxidation reactions. <i>AIChE Journal</i> , 1997, 43, 3059-3069.	1.8	243
40	Size-Controlled Flow Synthesis of Gold Nanoparticles Using a Segmented Flow Microfluidic Platform. <i>Langmuir</i> , 2012, 28, 7007-7013.	1.6	236
41	A fully automated flow-based approach for accelerated peptide synthesis. <i>Nature Chemical Biology</i> , 2017, 13, 464-466.	3.9	235
42	A Continuous-Flow Microcapillary Reactor for the Preparation of a Size Series of CdSe Nanocrystals. <i>Advanced Materials</i> , 2003, 15, 1858-1862.	11.1	226
43	Design and global optimization of high-efficiency thermophotovoltaic systems. <i>Optics Express</i> , 2010, 18, A314.	1.7	226
44	Continuous manufacturing – the Green Chemistry promise?. <i>Green Chemistry</i> , 2019, 21, 3481-3498.	4.6	222
45	Overcoming the Challenges of Solid Bridging and Constriction during Pd-Catalyzed C–N Bond Formation in Microreactors. <i>Organic Process Research and Development</i> , 2010, 14, 1347-1357.	1.3	219
46	Feedback in Flow for Accelerated Reaction Development. <i>Accounts of Chemical Research</i> , 2016, 49, 1786-1796.	7.6	214
47	Microfluidic systems with on-line UV detection fabricated in photodefinable epoxy. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 263-269.	1.5	210
48	Design and Scaling Up of Microchemical Systems: A Review. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 285-305.	3.3	208
49	Accelerating Reactions with Microreactors at Elevated Temperatures and Pressures: Profiling Aminocarbonylation Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1734-1737.	7.2	207
50	Photochemical reactions and on-line UV detection in microfabricated reactors. <i>Lab on A Chip</i> , 2001, 1, 22.	3.1	206
51	Design and fabrication of microfluidic devices for multiphase mixing and reaction. <i>Journal of Microelectromechanical Systems</i> , 2002, 11, 709-717.	1.7	206
52	Palladium-catalyzed amination reactions in flow: overcoming the challenges of clogging via acoustic irradiation. <i>Chemical Science</i> , 2011, 2, 287-290.	3.7	203
53	Insights into the Kinetics of Semiconductor Nanocrystal Nucleation and Growth. <i>Journal of the American Chemical Society</i> , 2009, 131, 4479-4489.	6.6	201
54	An Integrated Microreactor System for Self-Optimization of a Heck Reaction: From Micro- to Mesoscale Flow Systems. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7076-7080.	7.2	200

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55	Computer-Assisted Retrosynthesis Based on Molecular Similarity. ACS Central Science, 2017, 3, 1237-1245.	5.3	200
56	Microfluidic electrochemistry for single-electron transfer redox-neutral reactions. Science, 2020, 368, 1352-1357.	6.0	194
57	Complex flow phenomena in MOCVD reactors. Journal of Crystal Growth, 1986, 77, 108-119.	0.7	192
58	Microchemical systems: Status, challenges, and opportunities. AIChE Journal, 1999, 45, 2051-2054.	1.8	192
59	Reactive Polymer Coatings: A First Step toward Surface Engineering of Microfluidic Devices. Analytical Chemistry, 2003, 75, 2117-2122.	3.2	187
60	Membrane-aerated microbioreactor for high-throughput bioprocessing. Biotechnology and Bioengineering, 2004, 87, 243-254.	1.7	186
61	Tools for chemical synthesis in microsystems. Lab on a Chip, 2014, 14, 3206-3212.	3.1	186
62	Autonomous Discovery in the Chemical Sciences Part 1: Progress. Angewandte Chemie - International Edition, 2020, 59, 22858-22893.	7.2	180
63	Microfabricated Multiphase Reactors for the Selective Direct Fluorination of Aromatics. Industrial & Engineering Chemistry Research, 2003, 42, 698-710.	1.8	178
64	SCScore: Synthetic Complexity Learned from a Reaction Corpus. Journal of Chemical Information and Modeling, 2018, 58, 252-261.	2.5	176
65	Flow Phenomena in Chemical Vapor Deposition of Thin Films. Annual Review of Fluid Mechanics, 1991, 23, 197-232.	10.8	173
66	Photo-oxidation of polymers used in electroluminescent devices. Synthetic Metals, 1995, 73, 195-199.	2.1	171
67	Reactive Polymer Coatings: A Platform for Patterning Proteins and Mammalian Cells onto a Broad Range of Materials. Langmuir, 2002, 18, 3632-3638.	1.6	171
68	A reaction-transport model for AlGaIn MOVPE growth. Journal of Crystal Growth, 1998, 195, 733-739.	0.7	170
69	Microreactor-based reaction optimization in organic chemistry—glycosylation as a challenge. Chemical Communications, 2005, , 578-580.	2.2	162
70	Design and Packaging of Microreactors for High Pressure and High Temperature Applications. Industrial & Engineering Chemistry Research, 2010, 49, 11310-11320.	1.8	162
71	Microfluidics-Based Assessment of Cell Deformability. Analytical Chemistry, 2012, 84, 6438-6443.	3.2	162
72	The bifurcation behavior of tubular reactors. Chemical Engineering Science, 1982, 37, 199-222.	1.9	159

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73	Investigation of high-temperature degradation of platinum thin films with an in situ resistance measurement apparatus. <i>Journal of Microelectromechanical Systems</i> , 1998, 7, 128-135.	1.7	159
74	High-throughput nuclear delivery and rapid expression of DNA via mechanical and electrical cell-membrane disruption. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	158
75	Suzuki–Miyaura Cross-Coupling Reactions in Flow: Multistep Synthesis Enabled by a Microfluidic Extraction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5943-5946.	7.2	156
76	Membrane-Based, Liquid–Liquid Separator with Integrated Pressure Control. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10802-10808.	1.8	156
77	Continuous Dielectrophoretic Size-Based Particle Sorting. <i>Analytical Chemistry</i> , 2006, 78, 5019-5025.	3.2	155
78	In-Situ Encapsulation of Quantum Dots into Polymer Microspheres. <i>Langmuir</i> , 2006, 22, 3782-3790.	1.6	155
79	Three-Dimensional Flow Effects in Silicon CVD in Horizontal Reactors. <i>Journal of the Electrochemical Society</i> , 1988, 135, 459-471.	1.3	152
80	Measurement of residence time distribution in microfluidic systems. <i>Chemical Engineering Science</i> , 2005, 60, 5729-5737.	1.9	152
81	Density Functional Theory Study of Ligand Binding on CdSe (0001), (000 $\bar{1}$), and (112 $\bar{1}$,0) Single Crystal Relaxed and Reconstructed Surfaces: A Implications for Nanocrystalline Growth. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18007-18016.	1.2	152
82	Toward high-energy-density, high-efficiency, and moderate-temperature chip-scale thermophotovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5309-5314.	3.3	152
83	Rapid Determination of Reaction Kinetics with an Automated Microfluidic System. <i>Organic Process Research and Development</i> , 2011, 15, 398-407.	1.3	148
84	Transport phenomena in vertical reactors for metalorganic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 1990, 102, 441-470.	0.7	145
85	Supercritical Continuous–Microflow Synthesis of Narrow Size Distribution Quantum Dots. <i>Advanced Materials</i> , 2008, 20, 4830-4834.	11.1	145
86	Mixing and Dispersion in Small-Scale Flow Systems. <i>Organic Process Research and Development</i> , 2012, 16, 976-981.	1.3	144
87	Trimethylamine complexes of alane as precursors for the low-pressure chemical vapor deposition of aluminum. <i>Chemistry of Materials</i> , 1989, 1, 339-343.	3.2	143
88	Development of a Multi-Step Synthesis and Workup Sequence for an Integrated, Continuous Manufacturing Process of a Pharmaceutical. <i>Organic Process Research and Development</i> , 2014, 18, 402-409.	1.3	143
89	In situ mass spectroscopy and thermogravimetric studies of GaAs MOCVD gas phase and surface reactions. <i>Journal of Crystal Growth</i> , 1987, 85, 165-174.	0.7	141
90	Autonomous Discovery in the Chemical Sciences Part II: Outlook. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23414-23436.	7.2	139

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91	Rapid Flow-Based Peptide Synthesis. <i>ChemBioChem</i> , 2014, 15, 713-720.	1.3	136
92	Flow Distribution and Ozonolysis in Gas-Liquid Multichannel Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 8036-8042.	1.8	135
93	A microfabricated suspended-tube chemical reactor for thermally efficient fuel processing. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 600-612.	1.7	134
94	Development of a multiplexed microreactor system for high-throughput bioprocessing. <i>Lab on a Chip</i> , 2005, 5, 819.	3.1	134
95	BigSMILES: A Structurally-Based Line Notation for Describing Macromolecules. <i>ACS Central Science</i> , 2019, 5, 1523-1531.	5.3	134
96	In situ characterization of the oxidative degradation of a polymeric light emitting device. <i>Journal of Applied Physics</i> , 1997, 81, 3716-3720.	1.1	133
97	Batch Kinetics in Flow: Online IR Analysis and Continuous Control. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 470-473.	7.2	133
98	Cathodoluminescence and photoluminescence of highly luminescent CdSe/ZnS quantum dot composites. <i>Applied Physics Letters</i> , 1997, 70, 2132-2134.	1.5	132
99	A Microfabricated Device for Subcellular Organelle Sorting. <i>Analytical Chemistry</i> , 2004, 76, 5705-5712.	3.2	132
100	Microfabricated Multiphase Reactors for the Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1153-1160.	1.8	131
101	Multistep Microchemical Synthesis Enabled by Microfluidic Distillation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 899-903.	7.2	131
102	An Automated Microfluidic System for Online Optimization in Chemical Synthesis. <i>Organic Process Research and Development</i> , 2010, 14, 1169-1176.	1.3	129
103	Achieving Continuous Manufacturing: Technologies and Approaches for Synthesis, Workup, and Isolation of Drug Substance May 20-21, 2014 Continuous Manufacturing Symposium. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 781-791.	1.6	129
104	CVD in Stagnation Point Flow: An Evaluation of the Classical 1D Treatment. <i>Journal of the Electrochemical Society</i> , 1986, 133, 961-970.	1.3	128
105	Microfabricated packed-bed reactor for phosgene synthesis. <i>AIChE Journal</i> , 2001, 47, 1639-1647.	1.8	128
106	A Teflon microreactor with integrated piezoelectric actuator to handle solid forming reactions. <i>Lab on a Chip</i> , 2011, 11, 2488.	3.1	128
107	Investigation of Indium Phosphide Nanocrystal Synthesis Using a High-Temperature and High-Pressure Continuous Flow Microreactor. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 627-630.	7.2	128
108	Aminolysis of Epoxides in a Microreactor System: A Continuous Flow Approach to β -Amino Alcohols. <i>Organic Process Research and Development</i> , 2010, 14, 432-440.	1.3	127

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109	Automated Multitrajectory Method for Reaction Optimization in a Microfluidic System using Online IR Analysis. <i>Organic Process Research and Development</i> , 2012, 16, 1409-1415.	1.3	127
110	Scalability of mass transfer in liquid-liquid flow. <i>Chemical Engineering Science</i> , 2014, 116, 1-8.	1.9	126
111	Suzuki-Miyaura cross-coupling optimization enabled by automated feedback. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 658-666.	1.9	125
112	Fabrication and structural characterization of self-supporting electrolyte membranes for a micro solid-oxide fuel cell. <i>Journal of Materials Research</i> , 2004, 19, 2604-2615.	1.2	123
113	Distillation in microchemical systems using capillary forces and segmented flow. <i>Lab on A Chip</i> , 2009, 9, 1843.	3.1	122
114	Silicon-Based Microchemical Systems: Characteristics and Applications. <i>MRS Bulletin</i> , 2006, 31, 101-107.	1.7	121
115	Current and Future Roles of Artificial Intelligence in Medicinal Chemistry Synthesis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 8667-8682.	2.9	118
116	Gas-Phase and Surface Reaction Mechanisms in MOCVD of GaAs with Trimethyl-Gallium and Arsine. <i>Journal of the Electrochemical Society</i> , 1991, 138, 2426-2439.	1.3	116
117	Estimation of effective transport coefficients in porous solids based on percolation concepts. <i>Chemical Engineering Science</i> , 1985, 40, 1723-1734.	1.9	114
118	Complex flow phenomena in vertical MOCVD reactors: Effects on deposition uniformity and interface abruptness. <i>Journal of Crystal Growth</i> , 1987, 85, 154-164.	0.7	112
119	Microchemostat-microbial continuous culture in a polymer-based, instrumented microbioreactor. <i>Lab on A Chip</i> , 2006, 6, 906-913.	3.1	112
120	The Open Reaction Database. <i>Journal of the American Chemical Society</i> , 2021, 143, 18820-18826.	6.6	112
121	Flow and heat transfer in CVD reactors: Comparison of Raman temperature measurements and finite element model predictions. <i>Journal of Crystal Growth</i> , 1990, 100, 577-599.	0.7	109
122	Microfluidic Synthesis of Titania Shells on Colloidal Silica. <i>Advanced Materials</i> , 2007, 19, 2556-2560.	11.1	109
123	Scaled-Out Multilayer Gas-Liquid Microreactor with Integrated Velocimetry Sensors. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 8997-9013.	1.8	105
124	Characterization of Indium Phosphide Quantum Dot Growth Intermediates Using MALDI-TOF Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2016, 138, 13469-13472.	6.6	101
125	Photoredox Iridium-Nickel Dual-Catalyzed Decarboxylative Arylation Cross-Coupling: From Batch to Continuous Flow via Self-Optimizing Segmented Flow Reactor. <i>Organic Process Research and Development</i> , 2018, 22, 542-550.	1.3	101
126	Percolation concepts in modelling of gas-solid reactions. Application to char gasification in the kinetic regime. <i>Chemical Engineering Science</i> , 1986, 41, 333-343.	1.9	99

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127	Mass Transport and Reactions in the Tube-in-Tube Reactor. <i>Organic Process Research and Development</i> , 2013, 17, 927-933.	1.3	99
128	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8870-8873.	7.2	98
129	Synthesis of control structures by singular value analysis: Dynamic measures of sensitivity and interaction. <i>AIChE Journal</i> , 1985, 31, 427-439.	1.8	97
130	Estimation of the molecular weight distribution in batch polymerization. <i>AIChE Journal</i> , 1988, 34, 1341-1353.	1.8	96
131	Development of an Automated Microfluidic Reaction Platform for Multidimensional Screening: Reaction Discovery Employing Bicyclo[3.2.1]octanoid Scaffolds. <i>Journal of Organic Chemistry</i> , 2009, 74, 6169-6180.	1.7	96
132	RDChiral: An RDKit Wrapper for Handling Stereochemistry in Retrosynthetic Template Extraction and Application. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2529-2537.	2.5	96
133	Microfabricated Differential Reactor for Heterogeneous Gas Phase Catalyst Testing. <i>Journal of Catalysis</i> , 2002, 209, 401-412.	3.1	94
134	Live-cell protein labelling with nanometre precision by cell squeezing. <i>Nature Communications</i> , 2016, 7, 10372.	5.8	94
135	Facile Soft-Templated Synthesis of High-Surface Area and Highly Porous Carbon Nitrides. <i>Chemistry of Materials</i> , 2017, 29, 1496-1506.	3.2	92
136	Microfluidic based single cell microinjection. <i>Lab on A Chip</i> , 2008, 8, 1258.	3.1	91
137	Low Pressure CVD of Silicon Nitride. <i>Journal of the Electrochemical Society</i> , 1987, 134, 1777-1785.	1.3	89
138	In situ mass spectroscopy studies of the decomposition of organometallic arsenic compounds in the presence of Ga(CH ₃) ₃ and Ga(C ₂ H ₅) ₃ . <i>Journal of Crystal Growth</i> , 1988, 93, 134-142.	0.7	89
139	Detailed models of the MOVPE process. <i>Journal of Crystal Growth</i> , 1991, 107, 1-11.	0.7	89
140	A New Method toward Microengineered Surfaces Based on Reactive Coating. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3166-3169.	7.2	89
141	An Automated Continuous-Flow Platform for the Estimation of Multistep Reaction Kinetics. <i>Organic Process Research and Development</i> , 2012, 16, 1770-1782.	1.3	89
142	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. <i>Scientific Reports</i> , 2015, 5, 10276.	1.6	88
143	Transition Metals for Selective Chemical Vapor Deposition of Parylene-Based Polymers. <i>Chemistry of Materials</i> , 2000, 12, 1305-1313.	3.2	87
144	Multiscale modeling of chemical vapor deposition. <i>Journal of Applied Physics</i> , 1998, 83, 524-530.	1.1	86

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145	Simulations and analysis of multiphase transport and reaction in segmented flow microreactors. <i>Chemical Engineering Science</i> , 2017, 169, 106-116.	1.9	86
146	Cell Stimulus and Lysis in a Microfluidic Device with Segmented Gas-Liquid Flow. <i>Analytical Chemistry</i> , 2005, 77, 3629-3636.	3.2	84
147	A well-mixed, polymer-based microbioreactor with integrated optical measurements. <i>Biotechnology and Bioengineering</i> , 2006, 93, 286-296.	1.7	84
148	Kinetic and Scale-Up Investigations of Epoxide Aminolysis in Microreactors at High Temperatures and Pressures. <i>Organic Process Research and Development</i> , 2011, 15, 131-139.	1.3	83
149	On-line molecular weight distribution estimation and control in batch polymerization. <i>AIChE Journal</i> , 1994, 40, 445-462.	1.8	82
150	Smaller, faster chemistry. <i>Nature</i> , 1998, 393, 735-737.	13.7	82
151	Advanced Continuous Flow Platform for On-Demand Pharmaceutical Manufacturing. <i>Chemistry - A European Journal</i> , 2018, 24, 2776-2784.	1.7	81
152	Micro-reaction engineering applications of reaction engineering to processing of electronic and photonic materials. <i>Chemical Engineering Science</i> , 1987, 42, 923-958.	1.9	80
153	Hydrodynamics of Liquid-Liquid Dispersion in an Advanced-Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16251-16262.	1.8	80
154	Nonendocytic Delivery of Functional Engineered Nanoparticles into the Cytoplasm of Live Cells Using a Novel, High-Throughput Microfluidic Device. <i>Nano Letters</i> , 2012, 12, 6322-6327.	4.5	80
155	Gas-Liquid Flow and Mass Transfer in an Advanced-Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8996-9010.	1.8	79
156	Simultaneous solvent screening and reaction optimization in microliter slugs. <i>Chemical Communications</i> , 2015, 51, 13290-13293.	2.2	79
157	Analysis of MOCVD of GaAs on patterned substrates. <i>Journal of Crystal Growth</i> , 1991, 114, 581-592.	0.7	78
158	Generative models for molecular discovery: Recent advances and challenges. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, .	6.2	78
159	Electromigration of aluminum cathodes in polymer-based electroluminescent devices. <i>Applied Physics Letters</i> , 1996, 69, 3941-3943.	1.5	77
160	Electroluminescent Materials with Feature Sizes as Small as 5 μm Using Elastomeric Membranes as Masks for Dry Lift-Off. <i>Advanced Materials</i> , 1999, 11, 546-552.	11.1	77
161	Regio-selectivity prediction with a machine-learned reaction representation and on-the-fly quantum mechanical descriptors. <i>Chemical Science</i> , 2021, 12, 2198-2208.	3.7	75
162	Oscillatory Microprocessor for Growth and in Situ Characterization of Semiconductor Nanocrystals. <i>Chemistry of Materials</i> , 2015, 27, 6131-6138.	3.2	74

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163	Shape-controlled continuous synthesis of metal nanostructures. <i>Nanoscale</i> , 2016, 8, 7534-7543.	2.8	74
164	Ready, Set, Flow! Automated Continuous Synthesis and Optimization. <i>Trends in Chemistry</i> , 2021, 3, 373-386.	4.4	74
165	A segmented flow platform for on-demand medicinal chemistry and compound synthesis in oscillating droplets. <i>Chemical Communications</i> , 2017, 53, 6649-6652.	2.2	73
166	Electrospray organometallic chemical vapor deposition—A novel technique for preparation of II–VI quantum dot composites. <i>Applied Physics Letters</i> , 1994, 65, 2795-2797.	1.5	72
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