

Paul J A Kenis

List of Publications by Year in descending order

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206
papers

21,573
citations

13961

64
h-index

7950

143
g-index

217
all docs

217
docs citations

217
times ranked

17748
citing authors

#	ARTICLE	IF	CITATIONS
1	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO ₂ Fixation. <i>Chemical Reviews</i> , 2013, 113, 6621-6658.	49.4	1,852
2	Prospects of CO ₂ Utilization via Direct Heterogeneous Electrochemical Reduction. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3451-3458.	4.7	1,248
3	Electrochemical conversion of CO ₂ to useful chemicals: current status, remaining challenges, and future opportunities. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 191-199.	7.8	677
4	Electroreduction of Carbon Dioxide to Hydrocarbons Using Bimetallic Cu-Pd Catalysts with Different Mixing Patterns. <i>Journal of the American Chemical Society</i> , 2017, 139, 47-50.	14.1	675
5	Nanoporous Copper-Silver Alloys by Additive-Controlled Electrodeposition for the Selective Electroreduction of CO ₂ to Ethylene and Ethanol. <i>Journal of the American Chemical Society</i> , 2018, 140, 5791-5797.	14.1	658
6	Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning. <i>Science</i> , 1999, 285, 83-85.	19.6	651
7	A Gross-Margin Model for Defining Technoeconomic Benchmarks in the Electroreduction of CO ₂ . <i>ChemSusChem</i> , 2016, 9, 1972-1979.	7.2	532
8	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. <i>Nature Communications</i> , 2016, 7, 13869.	12.8	528
9	Co-electrolysis of CO ₂ and glycerol as a pathway to carbon chemicals with improved technoeconomics due to low electricity consumption. <i>Nature Energy</i> , 2019, 4, 466-474.	28.8	519
10	Patterning cells and their environments using multiple laminar fluid flows in capillary networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 5545-5548.	7.4	509
11	Experimental and theoretical scaling laws for transverse diffusive broadening in two-phase laminar flows in microchannels. <i>Applied Physics Letters</i> , 2000, 76, 2376-2378.	3.2	480
12	Insights into the Low Overpotential Electroreduction of CO ₂ to CO on a Supported Gold Catalyst in an Alkaline Flow Electrolyzer. <i>ACS Energy Letters</i> , 2018, 3, 193-198.	17.8	413
13	One-step electrosynthesis of ethylene and ethanol from CO ₂ in an alkaline electrolyzer. <i>Journal of Power Sources</i> , 2016, 301, 219-228.	7.9	412
14	The effect of electrolyte composition on the electroreduction of CO ₂ to CO on Ag based gas diffusion electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7075-7084.	2.8	396
15	Nanoparticle Silver Catalysts That Show Enhanced Activity for Carbon Dioxide Electrolysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1627-1632.	3.2	384
16	Electrochemical CO ₂ -to-ethylene conversion on polyamine-incorporated Cu electrodes. <i>Nature Catalysis</i> , 2021, 4, 20-27.	27.4	366
17	Air-Breathing Laminar Flow-Based Microfluidic Fuel Cell. <i>Journal of the American Chemical Society</i> , 2005, 127, 16758-16759.	14.1	334
18	Patterning Electro-osmotic Flow with Patterned Surface Charge. <i>Physical Review Letters</i> , 2000, 84, 3314-3317.	7.8	321

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19	Microfluidic Reactor for the Electrochemical Reduction of Carbon Dioxide: The Effect of pH. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B109.	2.3	308
20	Effect of Cations on the Electrochemical Conversion of CO ₂ to CO. <i>Journal of the Electrochemical Society</i> , 2013, 160, F69-F74.	2.9	302
21	DNA-Mediated Control of Metal Nanoparticle Shape: One-Pot Synthesis and Cellular Uptake of Highly Stable and Functional Gold Nanoflowers. <i>Nano Letters</i> , 2010, 10, 1886-1891.	9.2	285
22	Fabricating complex three-dimensional nanostructures with high-resolution conformable phase masks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12428-12433.	7.4	283
23	Nanoporous Copper Films by Additive-Controlled Electrodeposition: CO ₂ Reduction Catalysis. <i>ACS Catalysis</i> , 2017, 7, 3313-3321.	11.3	231
24	Silver Supported on Titania as an Active Catalyst for Electrochemical Carbon Dioxide Reduction. <i>ChemSusChem</i> , 2014, 7, 866-874.	7.2	198
25	The Effects of Catalyst Layer Deposition Methodology on Electrode Performance. <i>Advanced Energy Materials</i> , 2013, 3, 589-599.	21.5	191
26	Effects of composition of the micro porous layer and the substrate on performance in the electrochemical reduction of CO ₂ to CO. <i>Journal of Power Sources</i> , 2016, 312, 192-198.	7.9	189
27	Influence of dilute feed and pH on electrochemical reduction of CO ₂ to CO on Ag in a continuous flow electrolyzer. <i>Electrochimica Acta</i> , 2015, 166, 271-276.	5.3	183
28	Nitrogen-Based Catalysts for the Electrochemical Reduction of CO ₂ to CO. <i>Journal of the American Chemical Society</i> , 2012, 134, 19520-19523.	14.1	173
29	Carbon nanotube containing Ag catalyst layers for efficient and selective reduction of carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8573-8578.	10.3	173
30	On the performance of membraneless laminar flow-based fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 3569-3578.	7.9	155
31	Fabrication inside Microchannels Using Fluid Flow. <i>Accounts of Chemical Research</i> , 2000, 33, 841-847.	15.7	151
32	Durable Cathodes and Electrolyzers for the Efficient Aqueous Electrochemical Reduction of CO ₂ . <i>ChemSusChem</i> , 2020, 13, 855-875.	7.2	135
33	Microfluidic Arrays of Fluid-Fluid Diffusional Contacts as Detection Elements and Combinatorial Tools. <i>Analytical Chemistry</i> , 2001, 73, 5207-5213.	6.6	128
34	Active control of the depletion boundary layers in microfluidic electrochemical reactors. <i>Lab on A Chip</i> , 2006, 6, 1516.	5.9	125
35	A multiplexed microfluidic platform for rapid antibiotic susceptibility testing. <i>Biosensors and Bioelectronics</i> , 2013, 49, 118-125.	10.2	122
36	Controlling Speciation during CO ₂ Reduction on Cu-Alloy Electrodes. <i>ACS Catalysis</i> , 2020, 10, 672-682.	11.3	121

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37	A Nitrogen-Doped Carbon Catalyst for Electrochemical CO ₂ Conversion to CO with High Selectivity and Current Density. <i>ChemSusChem</i> , 2017, 10, 1094-1099.	7.2	119
38	Cell Migration and Polarity on Microfabricated Gradients of Extracellular Matrix Proteins. <i>Langmuir</i> , 2006, 22, 4250-4258.	3.6	118
39	A Stochastic Model for Nucleation Kinetics Determination in Droplet-Based Microfluidic Systems. <i>Crystal Growth and Design</i> , 2010, 10, 2515-2521.	3.1	115
40	Characterization of Limiting Factors in Laminar Flow-Based Membraneless Microfuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A348.	2.3	108
41	Air-Breathing Laminar Flow-Based Direct Methanol Fuel Cell with Alkaline Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A252.	2.3	103
42	System Design Rules for Intensifying the Electrochemical Reduction of CO ₂ to CO on Ag Nanoparticles. <i>ChemElectroChem</i> , 2020, 7, 2001-2011.	3.4	102
43	High efficiency electrochemical reduction of CO ₂ beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10313-10319.	10.3	98
44	Microfluidic Generation of Gradient Hydrogels to Modulate Hematopoietic Stem Cell Culture Environment. <i>Advanced Healthcare Materials</i> , 2014, 3, 449-458.	8.3	96
45	Potential Dependence of the Local pH in a CO ₂ Reduction Electrolyzer. <i>ACS Catalysis</i> , 2021, 11, 255-263.	11.3	96
46	Pressure-Driven Laminar Flow in Tangential Microchannels: An Elastomeric Microfluidic Switch. <i>Analytical Chemistry</i> , 2001, 73, 4682-4687.	6.6	95
47	Greenhouse Gas Emissions, Energy Efficiency, and Cost of Synthetic Fuel Production Using Electrochemical CO ₂ Conversion and the Fischer-Tropsch Process. <i>Energy & Fuels</i> , 2016, 30, 5980-5989.	5.1	95
48	Investigation of Electrolyte-Dependent Carbonate Formation on Gas Diffusion Electrodes for CO ₂ Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15132-15142.	8.1	95
49	Direct Growth of ¹³ C-Glycine from Neutral Aqueous Solutions by Slow, Evaporation-Driven Crystallization. <i>Crystal Growth and Design</i> , 2006, 6, 1746-1749.	3.1	94
50	Methods to study the tumor microenvironment under controlled oxygen conditions. <i>Trends in Biotechnology</i> , 2014, 32, 556-563.	9.3	92
51	Investigation of fuel and media flexible laminar flow-based fuel cells. <i>Electrochimica Acta</i> , 2009, 54, 7099-7105.	5.3	86
52	A Carbon-Supported Copper Complex of 3,5-Diamino-1,2,4-triazole as a Cathode Catalyst for Alkaline Fuel Cell Applications. <i>Journal of the American Chemical Society</i> , 2010, 132, 12185-12187.	14.1	82
53	Carbonate resilience of flowing electrolyte-based alkaline fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 1762-1768.	7.9	82
54	Microfluidic Hydrogen Fuel Cell with a Liquid Electrolyte. <i>Langmuir</i> , 2007, 23, 6871-6874.	3.6	81

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55	Efficient Electrochemical Flow System with Improved Anode for the Conversion of CO ₂ to CO. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1124-F1131.	2.9	79
56	Solving Mazes Using Microfluidic Networks. <i>Langmuir</i> , 2003, 19, 4714-4722.	3.6	78
57	In Situ Deposition and Patterning of Single-Walled Carbon Nanotubes by Laminar Flow and Controlled Flocculation in Microfluidic Channels. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 581-585.	14.2	78
58	Modeling and Experimental Validation of Electrochemical Reduction of CO ₂ to CO in a Microfluidic Cell. <i>Journal of the Electrochemical Society</i> , 2015, 162, F23-F32.	2.9	77
59	Mammalian target of rapamycin and Rictor control neutrophil chemotaxis by regulating Rac/Cdc42 activity and the actin cytoskeleton. <i>Molecular Biology of the Cell</i> , 2013, 24, 3369-3380.	2.3	76
60	Ruthenium cluster-like chalcogenide as a methanol tolerant cathode catalyst in air-breathing laminar flow fuel cells. <i>Electrochimica Acta</i> , 2009, 54, 4384-4388.	5.3	74
61	Microfluidic chip for combinatorial mixing and screening of assays. <i>Lab on A Chip</i> , 2009, 9, 1676.	5.9	74
62	Selective Electrooxidation of Glycerol to Formic Acid over Carbon Supported Ni _{1-x} M _x (M = Bi, Pd, and Au) Nanocatalysts and Coelectrolysis of CO ₂ . <i>ACS Applied Energy Materials</i> , 2020, 3, 8725-8738.	5.2	74
63	Microtopographically patterned surfaces promote the alignment of tenocytes and extracellular collagen. <i>Acta Biomaterialia</i> , 2010, 6, 2580-2589.	8.5	73
64	Simple Methods for the Direct Assembly, Functionalization, and Patterning of Acid-Terminated Monolayers on Si(111). <i>Langmuir</i> , 2005, 21, 10537-10544.	3.6	65
65	Second-Order Nonlinear Optical Properties of the Four Tetranitrotetrapropoxycalix[4]arene Conformers. <i>Journal of the American Chemical Society</i> , 1998, 120, 7875-7883.	14.1	64
66	Methanol Dehydrogenation and Oxidation on Pt(111) in Alkaline Solutions. <i>Langmuir</i> , 2006, 22, 10457-10464.	3.6	63
67	Alkaline Microfluidic Hydrogen-Oxygen Fuel Cell as a Cathode Characterization Platform. <i>Journal of the Electrochemical Society</i> , 2009, 156, B565.	2.9	62
68	Fabrication of X-ray compatible microfluidic platforms for protein crystallization. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 1-9.	7.9	59
69	Gold Nanoparticles on Polymer-Wrapped Carbon Nanotubes: An Efficient and Selective Catalyst for the Electroreduction of CO ₂ . <i>ChemPhysChem</i> , 2017, 18, 3274-3279.	2.3	59
70	Laminar Flow-Based Electrochemical Microreactor for Efficient Regeneration of Nicotinamide Cofactors for Biocatalysis. <i>Journal of the American Chemical Society</i> , 2005, 127, 10466-10467.	14.1	58
71	Binder-Focused Approaches to Improve the Stability of Cathodes for CO ₂ Electroreduction. <i>ACS Applied Energy Materials</i> , 2021, 4, 5175-5186.	5.2	58
72	Design considerations for elastomeric normally closed microfluidic valves. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1216-1223.	7.9	55

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73	Elasticity in Macrophage-Engineered Synthesized Biocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1815-1819.	14.2	53
74	Screening and optimization of protein crystallization conditions through gradual evaporation using a novel crystallization platform. <i>Journal of Applied Crystallography</i> , 2005, 38, 988-995.	4.6	50
75	Determination of Critical Supersaturation from Microdroplet Evaporation Experiments. <i>Crystal Growth and Design</i> , 2006, 6, 1175-1180.	3.1	49
76	Microfluidic Generation of Lipidic Mesophases for Membrane Protein Crystallization. <i>Crystal Growth and Design</i> , 2009, 9, 2566-2569.	3.1	47
77	The Role of Surface Defects in CO Oxidation, Methanol Oxidation, and Oxygen Reduction on Pt(111). <i>Journal of the Electrochemical Society</i> , 2007, 154, F238.	2.9	46
78	Analysis of Pt/C electrode performance in a flowing-electrolyte alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2559-2570.	7.1	46
79	Regiospecific Control of Protein Expression in Cells Cultured on Two-Component Counter Gradients of Extracellular Matrix Proteins. <i>Langmuir</i> , 2005, 21, 3061-3068.	3.6	45
80	Ceramic microreactors for on-site hydrogen production from high temperature steam reforming of propane. <i>Lab on A Chip</i> , 2006, 6, 1328.	5.9	45
81	Gravity-induced reorientation of the interface between two liquids of different densities flowing lamarily through a microchannel. <i>Lab on A Chip</i> , 2005, 5, 1259.	5.9	44
82	Design rules for electrode arrangement in an air-breathing alkaline direct methanol laminar flow fuel cell. <i>Journal of Power Sources</i> , 2012, 218, 28-33.	7.9	43
83	Microfluidic radiolabeling of biomolecules with PET radiometals. <i>Nuclear Medicine and Biology</i> , 2013, 40, 42-51.	1.2	43
84	A microfluidic approach to study the effect of bacterial interactions on antimicrobial susceptibility in polymicrobial cultures. <i>RSC Advances</i> , 2015, 5, 35211-35223.	3.7	43
85	A microfluidic platform for pharmaceutical salt screening. <i>Lab on A Chip</i> , 2011, 11, 3829.	5.9	40
86	A microfluidic approach for protein structure determination at room temperature via on-chip anomalous diffraction. <i>Lab on A Chip</i> , 2013, 13, 3183.	5.9	40
87	Chemical Analysis of Drug Biocrystals: A Role for Counterion Transport Pathways in Intracellular Drug Disposition. <i>Molecular Pharmaceutics</i> , 2015, 12, 2528-2536.	4.6	40
88	Engineering Silver-Enriched Copper Core-Shell Electrocatalysts to Enhance the Production of Ethylene and C ₂₊ Chemicals from Carbon Dioxide at Low Cell Potentials. <i>Advanced Functional Materials</i> , 2021, 31, 2101668.	16.0	40
89	Combining Structural and Electrochemical Analysis of Electrodes Using Micro-Computed Tomography and a Microfluidic Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2012, 159, B292-B298.	2.9	39
90	Electrochemical Reduction of Carbon Dioxide on Cu/CuO Core/Shell Catalysts. <i>ChemElectroChem</i> , 2014, 1, 1577-1582.	3.4	39

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91	Comprehensive energy analysis of a photovoltaic thermal water electrolyzer. <i>Applied Energy</i> , 2016, 164, 294-302.	10.2	39
92	Microfluidic labeling of biomolecules with radiometals for use in nuclear medicine. <i>Lab on A Chip</i> , 2010, 10, 3387.	5.9	38
93	Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties. <i>Chemistry - A European Journal</i> , 1998, 4, 1225-1234.	3.8	37
94	High temperature continuous flow synthesis of CdSe/CdS/ZnS, CdS/ZnS, and CdSeS/ZnS nanocrystals. <i>Nanoscale</i> , 2015, 7, 15895-15903.	5.6	37
95	Carbon Foam Decorated with Silver Nanoparticles for Electrochemical CO ₂ Conversion. <i>Energy Technology</i> , 2017, 5, 861-863.	3.7	37
96	Development of a high-dynamic range, GFP-based FRET probe sensitive to oxidative microenvironments. <i>Experimental Biology and Medicine</i> , 2011, 236, 681-691.	2.4	36
97	Microfluidic Approach to Cocrystal Screening of Pharmaceutical Parent Compounds. <i>Crystal Growth and Design</i> , 2012, 12, 6023-6034.	3.1	36
98	Antisolvent Crystallization and Polymorph Screening of Glycine in Microfluidic Channels Using Hydrodynamic Focusing. <i>Crystal Growth and Design</i> , 2015, 15, 3299-3306.	3.1	36
99	Highly dispersed, single-site copper catalysts for the electroreduction of CO ₂ to methane. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 113862.	3.8	35
100	Microfluidic approach to polymorph screening through antisolvent crystallization. <i>CrystEngComm</i> , 2012, 14, 2404.	2.3	34
101	Cross Metathesis on Olefin-Terminated Monolayers on Si(111) Using the Grubbs' Catalyst. <i>Langmuir</i> , 2006, 22, 2146-2155.	3.6	33
102	Design considerations for electrostatic microvalves with applications in poly(dimethylsiloxane)-based microfluidics. <i>Lab on A Chip</i> , 2012, 12, 1078.	5.9	31
103	Thiolene and SIFEL-based microfluidic platforms for liquid-liquid extraction. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 634-644.	7.9	31
104	Crystallization Optimization of Pharmaceutical Solid Forms with X-ray Compatible Microfluidic Platforms. <i>Crystal Growth and Design</i> , 2015, 15, 1201-1209.	3.1	31
105	Towards accelerated durability testing protocols for CO ₂ electrolysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22557-22571.	10.3	31
106	Fabrication of Metallic Microstructures Using Exposed, Developed Silver Halide-Based Photographic Film. <i>Analytical Chemistry</i> , 2000, 72, 645-651.	6.6	30
107	<i>In situ</i> serial Laue diffraction on a microfluidic crystallization device. <i>Journal of Applied Crystallography</i> , 2014, 47, 1975-1982.	4.6	30
108	Towards time-resolved serial crystallography in a microfluidic device. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 823-830.	0.8	30

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109	Determination of the Phase Diagram for Soluble and Membrane Proteins. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4432-4441.	2.6	29
110	X-ray Transparent Microfluidic Chip for Mesophase-Based Crystallization of Membrane Proteins and On-Chip Structure Determination. <i>Crystal Growth and Design</i> , 2014, 14, 4886-4890.	3.1	29
111	Multilevel Microfluidics via Single-Exposure Photolithography. <i>Journal of the American Chemical Society</i> , 2005, 127, 7674-7675.	14.1	28
112	The Q-Cycle Mechanism of the bc_1 Complex: A Biologist's Perspective on Atomistic Studies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3701-3717.	2.6	28
113	Decreasing the Energy Consumption of the CO_2 Electrolysis Process Using a Magnetic Field. <i>ACS Energy Letters</i> , 2021, 6, 2427-2433.	17.8	28
114	Multiplexed detection of nucleic acids in a combinatorial screening chip. <i>Lab on A Chip</i> , 2011, 11, 1916.	5.9	27
115	Triazine-Based Tool Box for Developing Peptidic PET Imaging Probes: Syntheses, Microfluidic Radiolabeling, and Structure-Activity Evaluation. <i>Bioconjugate Chemistry</i> , 2014, 25, 761-772.	3.7	27
116	Thiol-based antioxidants elicit mitochondrial oxidation via respiratory complex III. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C81-C91.	4.5	27
117	Unraveling the Origin of Interfacial Oxidation of InP-Based Quantum Dots: Implications for Bioimaging and Optoelectronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 12325-12333.	5.0	26
118	Exploring multivalent cations-based electrolytes for CO_2 electroreduction. <i>Electrochimica Acta</i> , 2021, 394, 139055.	5.3	26
119	Oscillatory Behavior of Neutrophils under Opposing Chemoattractant Gradients Supports a Winner-Take-All Mechanism. <i>PLoS ONE</i> , 2014, 9, e85726.	2.5	26
120	An X-ray transparent microfluidic platform for screening of the phase behavior of lipidic mesophases. <i>Analyst</i> , 2013, 138, 5384.	3.5	25
121	Fabrication of Ceramic Microscale Structures. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2779-2783.	3.7	24
122	Multiplexed electrical sensor arrays in microfluidic networks. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 350-358.	7.9	24
123	First resonance energy transfer-based sensor targeting endoplasmic reticulum reveals highly oxidative environment. <i>Experimental Biology and Medicine</i> , 2012, 237, 652-662.	2.4	24
124	In Situ Deposition and Patterning of Single-Walled Carbon Nanotubes by Laminar Flow and Controlled Flocculation in Microfluidic Channels. <i>Angewandte Chemie</i> , 2006, 118, 595-599.	2.1	23
125	Investigation of Pt, Pt_3Co , and $\text{Pt}_3\text{Co/Mo}$ Cathodes for the ORR in a Microfluidic H_2/O_2 Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2010, 157, B837.	2.9	23
126	The non-receptor tyrosine kinase Lyn controls neutrophil adhesion by recruiting the CrkL^{C3G} complex and activating Rap1 at the leading edge. <i>Journal of Cell Science</i> , 2011, 124, 2153-2164.	2.0	23

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127	Twists and turns in the development and maintenance of the mammalian small intestine epithelium. Birth Defects Research Part C: Embryo Today Reviews, 2005, 75, 58-71.	3.6	22
128	A Kinetic Model To Simulate Protein Crystal Growth in an Evaporation-Based Crystallization Platform. Langmuir, 2007, 23, 4516-4522.	3.6	22
129	Carbon Dioxide Utilization Coming of Age. ChemPhysChem, 2017, 18, 3091-3093.	2.3	22
130	A Millifluidic Reactor System for Multistep Continuous Synthesis of InP/ZnSeS Nanoparticles. ChemNanoMat, 2018, 4, 943-953.	2.9	22
131	Second-Order Nonlinear Optical Active Calix[4]arene Polyimides Suitable for Frequency Doubling in the UV Region. Chemistry of Materials, 1997, 9, 596-601.	6.8	21
132	Double Transfer Printing of Small Volumes of Liquids. Langmuir, 2007, 23, 2906-2914.	3.6	21
133	A Microfluidic Platform for Evaporation-based Salt Screening of Pharmaceutical Parent compounds. Lab on A Chip, 2013, 13, 1708.	5.9	21
134	Microfluidic platform for the study of intercellular communication via soluble factor-cell and cell-cell paracrine signaling. Biomicrofluidics, 2014, 8, 044104.	2.2	21
135	A Method of Cryoprotection for Protein Crystallography by Using a Microfluidic Chip and Its Application for in Situ X-ray Diffraction Measurements. Analytical Chemistry, 2015, 87, 4194-4200.	6.6	21
136	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. CrystEngComm, 2016, 18, 7722-7727.	2.3	21
137	Probability of Nucleation in a Metastable Zone: Induction Supersaturation and Implications. Crystal Growth and Design, 2017, 17, 1132-1145.	3.1	21
138	Microfluidic Flow-Flash: A Method for Investigating Protein Dynamics. Analytical Chemistry, 2007, 79, 122-128.	6.6	20
139	Metastable States of Small-Molecule Solutions. Journal of Physical Chemistry B, 2007, 111, 14121-14129.	2.6	20
140	X-ray transparent microfluidic platforms for membrane protein crystallization with microseeds. Lab on A Chip, 2018, 18, 944-954.	5.9	20
141	Accelerated screening of colloidal nanocrystals using artificial neural network-assisted autonomous flow reactor technology. Nanoscale, 2021, 13, 17028-17039.	5.6	20
142	Mild methods to assemble and pattern organic monolayers on hydrogen-terminated Si(111). Chemical Communications, 2005, , 3198.	4.1	19
143	Materials for Micro- and Nanofluidics. MRS Bulletin, 2006, 31, 87-94.	4.1	19
144	Cadherin and Integrin Regulation of Epithelial Cell Migration. Langmuir, 2009, 25, 10092-10099.	3.6	17

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145	Two-layer multiplexed peristaltic pumps for high-density integrated microfluidics. <i>Sensors and Actuators B: Chemical</i> , 2011, 151, 384-393.	7.9	17
146	Microfluidic Preparation of a ⁸⁹ Zr-Labeled Trastuzumab Single-Patient Dose. <i>Journal of Nuclear Medicine</i> , 2016, 57, 747-752.	5.8	17
147	Elasticity in Macrophage-Synthesized Biocrystals. <i>Angewandte Chemie</i> , 2017, 129, 1841-1845.	2.1	17
148	Mechanistic Insights into Size-Focused Growth of Indium Phosphide Nanocrystals in the Presence of Trace Water. <i>Chemistry of Materials</i> , 2020, 32, 3577-3584.	6.8	17
149	Design rules for pumping and metering of highly viscous fluids in microfluidics. <i>Lab on A Chip</i> , 2010, 10, 3112.	5.9	16
150	Quantitative Analysis of Single-Electrode Plots to Understand In-Situ Behavior of Individual Electrodes. <i>Journal of the Electrochemical Society</i> , 2012, 159, B761-B769.	2.9	16
151	A three-dimensional numerical model of a micro laminar flow fuel cell with a bridge-shaped microchannel cross-section. <i>Journal of Power Sources</i> , 2014, 269, 542-549.	7.9	16
152	Design, fabrication, and characterization of a proposed microchannel water electrolyzer. <i>Journal of Power Sources</i> , 2016, 307, 122-128.	7.9	16
153	Continuous Flow Synthesis of Anisotropic Cadmium Selenide and Zinc Selenide Nanoparticles. <i>ChemNanoMat</i> , 2017, 3, 204-211.	2.9	16
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