

# Paul J A Kenis

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1123963/paul-j-a-kenis-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

214  
papers

17,748  
citations

64  
h-index

130  
g-index

235  
ext. papers

20,150  
ext. citations

7.6  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
214	Investigation of Electrolyte-Dependent Carbonate Formation on Gas Diffusion Electrodes for CO Electrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15132-15142	9.5	29
213	Engineering Silver-Enriched Copper Core-Shell Electrocatalysts to Enhance the Production of Ethylene and C <sub>2</sub> + Chemicals from Carbon Dioxide at Low Cell Potentials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101668	15.6	9
212	Binder-Focused Approaches to Improve the Stability of Cathodes for CO <sub>2</sub> Electroreduction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5175-5186	6.1	11
211	Decreasing the Energy Consumption of the CO <sub>2</sub> Electrolysis Process Using a Magnetic Field. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2427-2433	20.1	9
210	Electrochemical CO <sub>2</sub> -to-ethylene conversion on polyamine-incorporated Cu electrodes. <i>Nature Catalysis</i> , <b>2021</b> , 4, 20-27	36.5	85
209	Potential Dependence of the Local pH in a CO <sub>2</sub> Reduction Electrolyzer. <i>ACS Catalysis</i> , <b>2021</b> , 11, 255-263	13.1	23
208	Accelerated screening of colloidal nanocrystals using artificial neural network-assisted autonomous flow reactor technology. <i>Nanoscale</i> , <b>2021</b> , 13, 17028-17039	7.7	5
207	Exploring multivalent cations-based electrolytes for CO <sub>2</sub> electroreduction. <i>Electrochimica Acta</i> , <b>2021</b> , 394, 139055	6.7	7
206	Unraveling the Origin of Interfacial Oxidation of InP-Based Quantum Dots: Implications for Bioimaging and Optoelectronics. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 12325-12333	5.6	10
205	Mechanistic Insights into Size-Focused Growth of Indium Phosphide Nanocrystals in the Presence of Trace Water. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3577-3584	9.6	11
204	System Design Rules for Intensifying the Electrochemical Reduction of CO <sub>2</sub> to CO on Ag Nanoparticles. <i>ChemElectroChem</i> , <b>2020</b> , 7, 2001-2011	4.3	48
203	Highly dispersed, single-site copper catalysts for the electroreduction of CO <sub>2</sub> to methane. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 875, 113862	4.1	17
202	Durable Cathodes and Electrolyzers for the Efficient Aqueous Electrochemical Reduction of CO. <i>ChemSusChem</i> , <b>2020</b> , 13, 855-875	8.3	64
201	Controlling Speciation during CO <sub>2</sub> Reduction on Cu-Alloy Electrodes. <i>ACS Catalysis</i> , <b>2020</b> , 10, 672-682	13.1	58
200	Selective Electrooxidation of Glycerol to Formic Acid over Carbon Supported Ni <sub>1-x</sub> M <sub>x</sub> (M = Bi, Pd, and Au) Nanocatalysts and Coelectrolysis of CO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8725-8738	6.1	20
199	Gold nanoparticles disrupt actin organization and pulmonary endothelial barriers. <i>Scientific Reports</i> , <b>2020</b> , 10, 13320	4.9	2
198	Towards accelerated durability testing protocols for CO <sub>2</sub> electrolysis. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22557-22571	13	9

197	Electrochemistry for a Sustainable World. <i>Electrochemical Society Interface</i> , <b>2020</b> , 29, 41-42	3.6	5
196	Ring-Opening Polymerization of Cyclic Esters in an Aqueous Dispersion. <i>Macromolecules</i> , <b>2020</b> , 53, 7767-7773	3.3	3
195	Polymeric microfluidic continuous flow mixer combined with hyperspectral FT-IR imaging for studying rapid biomolecular events. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2598-2609	7.2	8
194	Co-electrolysis of CO <sub>2</sub> and glycerol as a pathway to carbon chemicals with improved techno-economics due to low electricity consumption. <i>Nature Energy</i> , <b>2019</b> , 4, 466-474	62.3	228
193	Carbon-Based Electrodes and Catalysts for the Electroreduction of Carbon Dioxide (CO <sub>2</sub> ) to Value-Added Chemicals. <i>Nanostructure Science and Technology</i> , <b>2019</b> , 219-251	0.9	7
192	Solution Coating of Pharmaceutical Nanothin Films and Multilayer Nanocomposites with Controlled Morphology and Polymorphism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10480-10489	9.5	11
191	X-ray transparent microfluidic platforms for membrane protein crystallization with microseeds. <i>Lab on A Chip</i> , <b>2018</b> , 18, 944-954	7.2	17
190	Nanoporous Copper-Silver Alloys by Additive-Controlled Electrodeposition for the Selective Electroreduction of CO to Ethylene and Ethanol. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5791-5797	16.4	398
189	Insights into the Low Overpotential Electroreduction of CO <sub>2</sub> to CO on a Supported Gold Catalyst in an Alkaline Flow Electrolyzer. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 193-198	20.1	263
188	High efficiency electrochemical reduction of CO <sub>2</sub> beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10313-10319	13	66
187	A Millifluidic Reactor System for Multistep Continuous Synthesis of InP/ZnSe Nanoparticles. <i>ChemNanoMat</i> , <b>2018</b> , 4, 943-953	3.5	18
186	Probability of Nucleation in a Metastable Zone: Induction Supersaturation and Implications. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 1132-1145	3.5	15
185	Elasticity in Macrophage-Synthesized Biocrystals. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1841-1845	3.6	14
184	Elasticity in Macrophage-Synthesized Biocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1815-1819	16.4	42
183	Continuous Flow Synthesis of Anisotropic Cadmium Selenide and Zinc Selenide Nanoparticles. <i>ChemNanoMat</i> , <b>2017</b> , 3, 204-211	3.5	15
182	"Click Chip" Conjugation of Bifunctional Chelators to Biomolecules. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 986-994	6.3	4
181	The Q-Cycle Mechanism of the bc Complex: A Biologist's Perspective on Atomistic Studies. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 3701-3717	3.4	22
180	Chemical and mechanical modulation of polymeric micelle assembly. <i>Nanoscale</i> , <b>2017</b> , 9, 5194-5204	7.7	9

179	X-ray transparent microfluidic chips for high-throughput screening and optimization of membrane protein crystallization. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 024118	3.2	6
178	Nanoporous Copper Films by Additive-Controlled Electrodeposition: CO <sub>2</sub> Reduction Catalysis. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3313-3321	13.1	172
177	Carbon Foam Decorated with Silver Nanoparticles for Electrochemical CO <sub>2</sub> Conversion. <i>Energy Technology</i> , <b>2017</b> , 5, 861-863	3.5	33
176	Electroreduction of Carbon Dioxide to Hydrocarbons Using Bimetallic Cu-Pd Catalysts with Different Mixing Patterns. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 47-50	16.4	446
175	Gold Nanoparticles on Polymer-Wrapped Carbon Nanotubes: An Efficient and Selective Catalyst for the Electroreduction of CO. <i>ChemPhysChem</i> , <b>2017</b> , 18, 3274-3279	3.2	48
174	Probability of Nucleation in a Metastable Zone: Cooling Crystallization and Polythermal Method. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 5823-5837	3.5	5
173	Role of Automatic Process Control in Quality by Design <b>2017</b> , 25-53		
172	Non-Aqueous Primary Li-Air Flow Battery and Optimization of its Cathode through Experiment and Modeling. <i>ChemSusChem</i> , <b>2017</b> , 10, 4198-4206	8.3	5
171	Design considerations for open-well microfluidic platforms for hypoxic cell studies. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 054116	3.2	9
170	A Nitrogen-Doped Carbon Catalyst for Electrochemical CO Conversion to CO with High Selectivity and Current Density. <i>ChemSusChem</i> , <b>2017</b> , 10, 1094-1099	8.3	92
169	Insight into the electrochemical reduction of CO <sub>2</sub> on gold via surface-enhanced Raman spectroscopy and N-containing additives. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 1149-1154	2.6	10
168	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. <i>CrystEngComm</i> , <b>2016</b> , 18, 7722-7727	3.3	14
167	Microfluidics for Studying Pharmacodynamics of Antibiotics <b>2016</b> , 177-202		
166	A Gross-Margin Model for Defining Technoeconomic Benchmarks in the Electroreduction of CO <sub>2</sub> . <i>ChemSusChem</i> , <b>2016</b> , 9, 1972-9	8.3	343
165	Greenhouse Gas Emissions, Energy Efficiency, and Cost of Synthetic Fuel Production Using Electrochemical CO <sub>2</sub> Conversion and the Fischer-Tropsch Process. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 5980-5989	4.1	66
164	The effect of electrolyte composition on the electroreduction of CO <sub>2</sub> to CO on Ag based gas diffusion electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7075-84	3.6	269
163	Solvent compatible microfluidic platforms for pharmaceutical solid form screening. <i>RSC Advances</i> , <b>2016</b> , 6, 13286-13296	3.7	13
162	Microfluidic Preparation of a <sup>89</sup> Zr-Labeled Trastuzumab Single-Patient Dose. <i>Journal of Nuclear Medicine</i> , <b>2016</b> , 57, 747-52	8.9	12

161	Design, fabrication, and characterization of a proposed microchannel water electrolyzer. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 122-128	8.9	10
160	Comprehensive energy analysis of a photovoltaic thermal water electrolyzer. <i>Applied Energy</i> , <b>2016</b> , 164, 294-302	10.7	30
159	One-step electrosynthesis of ethylene and ethanol from CO <sub>2</sub> in an alkaline electrolyzer. <i>Journal of Power Sources</i> , <b>2016</b> , 301, 219-228	8.9	306
158	Crystal structure of a 2:1 piroxicam-gentisic acid co-crystal featuring neutral and zwitterionic piroxicam mol-ecules. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2016</b> , 72, 1714-1717	0.7	0
157	Enhanced emission of quantum dots embedded within the high-index dielectric regions of photonic crystal slabs. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 171108	3.4	4
156	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. <i>Nature Communications</i> , <b>2016</b> , 7, 13869	17.4	385
155	Effects of composition of the micro porous layer and the substrate on performance in the electrochemical reduction of CO <sub>2</sub> to CO. <i>Journal of Power Sources</i> , <b>2016</b> , 312, 192-198	8.9	107
154	Carbon nanotube containing Ag catalyst layers for efficient and selective reduction of carbon dioxide. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8573-8578	13	122
153	Chemical Analysis of Drug Biocrystals: A Role for Counterion Transport Pathways in Intracellular Drug Disposition. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 2528-36	5.6	34
152	Antisolvent Crystallization and Polymorph Screening of Glycine in Microfluidic Channels Using Hydrodynamic Focusing. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3299-3306	3.5	22
151	A method of cryoprotection for protein crystallography by using a microfluidic chip and its application for in situ X-ray diffraction measurements. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4194-200	7.8	19
150	Influence of dilute feed and pH on electrochemical reduction of CO <sub>2</sub> to CO on Ag in a continuous flow electrolyzer. <i>Electrochimica Acta</i> , <b>2015</b> , 166, 271-276	6.7	118
149	Region specific enhancement of quantum dot emission using interleaved two-dimensional photonic crystals. <i>Applied Optics</i> , <b>2015</b> , 54, 2302-8	1.7	6
148	Crystallization and characterization of cocrystals of piroxicam and 2,5-dihydroxybenzoic acid. <i>CrystEngComm</i> , <b>2015</b> , 17, 5299-5306	3.3	12
147	Thiol-based antioxidants elicit mitochondrial oxidation via respiratory complex III. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 309, C81-91	5.4	18
146	High temperature continuous flow synthesis of CdSe/CdS/ZnS, CdS/ZnS, and CdSeS/ZnS nanocrystals. <i>Nanoscale</i> , <b>2015</b> , 7, 15895-903	7.7	30
145	Towards time-resolved serial crystallography in a microfluidic device. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2015</b> , 71, 823-30	1.1	27
144	Modeling and Experimental Validation of Electrochemical Reduction of CO <sub>2</sub> to CO in a Microfluidic Cell. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F23-F32	3.9	49

143	Development of a microfluidic "click chip" incorporating an immobilized Cu(I) catalyst. <i>RSC Advances</i> , <b>2015</b> , 5, 6142-6150	3.7	10
142	A microfluidic approach to study the effect of bacterial interactions on antimicrobial susceptibility in polymicrobial cultures. <i>RSC Advances</i> , <b>2015</b> , 5, 35211-35223	3.7	35
141	Crystallization Optimization of Pharmaceutical Solid Forms with X-ray Compatible Microfluidic Platforms. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 1201-1209	3.5	23
140	Silver supported on titania as an active catalyst for electrochemical carbon dioxide reduction. <i>ChemSusChem</i> , <b>2014</b> , 7, 866-74	8.3	155
139	Microfluidic platform for the study of intercellular communication via soluble factor-cell and cell-cell paracrine signaling. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 044104	3.2	18
138	Control of pressure-driven components in integrated microfluidic devices using an on-chip electrostatic microvalve. <i>RSC Advances</i> , <b>2014</b> , 4, 51593-51602	3.7	13
137	X-ray Transparent Microfluidic Chip for Mesophase-Based Crystallization of Membrane Proteins and On-Chip Structure Determination. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4886-4890	3.5	28
136	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> , <b>2014</b> , 269, 542-549	8.9	12
135	Electrochemical Reduction of Carbon Dioxide on Cu/CuO Core/Shell Catalysts. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1577-1582	4.3	33
134	Triazine-based tool box for developing peptidic PET imaging probes: syntheses, microfluidic radiolabeling, and structure-activity evaluation. <i>Bioconjugate Chemistry</i> , <b>2014</b> , 25, 761-72	6.3	21
133	Thiolene and SIFEL-based Microfluidic Platforms for Liquid-Liquid Extraction. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 190, 634-644	8.5	27
132	Modeling and Simulating Electrochemical Reduction of CO <sub>2</sub> in a Microfluidic Cell. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 639-644	0.6	2
131	serial Laue diffraction on a microfluidic crystallization device. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 1975-1982	3.8	27
130	Efficient Electrochemical Flow System with Improved Anode for the Conversion of CO <sub>2</sub> to CO. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F1124-F1131	3.9	63
129	Methods to study the tumor microenvironment under controlled oxygen conditions. <i>Trends in Biotechnology</i> , <b>2014</b> , 32, 556-563	15.1	64
128	Inhibition of glutathione synthesis distinctly alters mitochondrial and cytosolic redox poise. <i>Experimental Biology and Medicine</i> , <b>2014</b> , 239, 394-403	3.7	7
127	Microfluidic generation of gradient hydrogels to modulate hematopoietic stem cell culture environment. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 449-58	10.1	82
126	Oscillatory behavior of neutrophils under opposing chemoattractant gradients supports a winner-take-all mechanism. <i>PLoS ONE</i> , <b>2014</b> , 9, e85726	3.7	19

125	A microfluidic approach for protein structure determination at room temperature via on-chip anomalous diffraction. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3183-7	7.2	35
124	Tailoring electrode hydrophobicity to improve anode performance in alkaline media. <i>Journal of Power Sources</i> , <b>2013</b> , 242, 581-588	8.9	7
123	A monolithic poly(dimethylsiloxane) electrostatic actuator for controlling integrated pneumatic microsystems. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 196, 22-29	3.9	6
122	A multiplexed microfluidic platform for rapid antibiotic susceptibility testing. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 49, 118-25	11.8	101
121	Transient light-induced intracellular oxidation revealed by redox biosensor. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 439, 517-21	3.4	6
120	An X-ray transparent microfluidic platform for screening of the phase behavior of lipidic mesophases. <i>Analyst, The</i> , <b>2013</b> , 138, 5384-95	5	21
119	Effects of detergent $\beta$ -cyclodextrin and phosphate salt solutions on phase behavior of monoolein mesophases. <i>Biophysical Journal</i> , <b>2013</b> , 105, 1848-59	2.9	8
118	The Effects of Catalyst Layer Deposition Methodology on Electrode Performance. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 589-599	21.8	148
117	Cell-laden hydrogels in integrated microfluidic devices for long-term cell culture and tubulogenesis assays. <i>Small</i> , <b>2013</b> , 9, 3076-81	11	3
116	Normally-Closed Electrostatic Microvalve Fabricated Using Exclusively Soft-Lithographic Techniques and Operated With Portable Electronics. <i>Journal of Microelectromechanical Systems</i> , <b>2013</b> , 22, 1251-1253	2.5	6
115	Effect of Cations on the Electrochemical Conversion of CO <sub>2</sub> to CO. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, F69-F74	3.9	222
114	Manufacturing all-polymer laminar flow-based fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 240, 486-493	8.9	23
113	Frontiers, opportunities, and challenges in biochemical and chemical catalysis of CO <sub>2</sub> fixation. <i>Chemical Reviews</i> , <b>2013</b> , 113, 6621-58	68.1	1415
112	In-situ measurement of ethanol tolerance in an operating fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 8980-8991	6.7	5
111	A microfluidic platform for evaporation-based salt screening of pharmaceutical parent compounds. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1708-23	7.2	17
110	Electrochemical conversion of CO <sub>2</sub> to useful chemicals: current status, remaining challenges, and future opportunities. <i>Current Opinion in Chemical Engineering</i> , <b>2013</b> , 2, 191-199	5.4	526
109	Microfluidic radiolabeling of biomolecules with PET radiometals. <i>Nuclear Medicine and Biology</i> , <b>2013</b> , 40, 42-51	2.1	38
108	Nanoparticle Silver Catalysts That Show Enhanced Activity for Carbon Dioxide Electrolysis. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1627-1632	3.8	308



107	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> , <b>2013</b> , 24, 3369-80	3.5	58
106	Using macromolecular-crystallography beamline and microfluidic platform for small-angle diffraction studies of lipidic matrices for membrane-protein crystallization. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 425,	0.3	5
105	Nitrogen-based catalysts for the electrochemical reduction of CO <sub>2</sub> to CO. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19520-3	16.4	145
104	Förster resonance energy transfer-based sensor targeting endoplasmic reticulum reveals highly oxidative environment. <i>Experimental Biology and Medicine</i> , <b>2012</b> , 237, 652-62	3.7	20
103	Fabrication of X-ray compatible microfluidic platforms for protein crystallization. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 1-9	8.5	53
102	Microfluidic approach to polymorph screening through antisolvent crystallization. <i>CrystEngComm</i> , <b>2012</b> , 14, 2404	3.3	29
101	Design considerations for electrostatic microvalves with applications in poly(dimethylsiloxane)-based microfluidics. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1078-88	7.2	26
100	Design rules for electrode arrangement in an air-breathing alkaline direct methanol laminar flow fuel cell. <i>Journal of Power Sources</i> , <b>2012</b> , 218, 28-33	8.9	38
99	Identification of nucleation rates in droplet-based microfluidic systems. <i>Chemical Engineering Science</i> , <b>2012</b> , 77, 235-241	4.4	22
98	Microfluidic Approach to Cocrystal Screening of Pharmaceutical Parent Compounds. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 6023-6034	3.5	29
97	Analysis of Pt/C electrode performance in a flowing-electrolyte alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2559-2570	6.7	40
96	Combining Structural and Electrochemical Analysis of Electrodes Using Micro-Computed Tomography and a Microfluidic Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, B292-B298	3.9	36
95	Quantitative Analysis of Single-Electrode Plots to Understand In-Situ Behavior of Individual Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, B761-B769	3.9	15
94	Ionic liquid-mediated selective conversion of CO <sub>2</sub> to CO at low overpotentials. <i>Science</i> , <b>2011</b> , 334, 643-4	33.3	1042
93	Multiplexed detection of nucleic acids in a combinatorial screening chip. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1916-23	7.2	25
92	A microfluidic platform for pharmaceutical salt screening. <i>Lab on A Chip</i> , <b>2011</b> , 11, 3829-37	7.2	33
91	Design considerations for elastomeric normally closed microfluidic valves. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 1216-1223	8.5	47
90	Imaging in real-time with FRET the redox response of tumorigenic cells to glutathione perturbations in a microscale flow. <i>Integrative Biology (United Kingdom)</i> , <b>2011</b> , 3, 208-17	3.7	12



89	Carbonate resilience of flowing electrolyte-based alkaline fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1762-1768	8.9	74
88	Design, fabrication, and characterization of a planar, silicon-based, monolithically integrated micro laminar flow fuel cell with a bridge-shaped microchannel cross-section. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 4638-4645	8.9	61
87	Two-layer multiplexed peristaltic pumps for high-density integrated microfluidics. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 151, 384-393	8.5	15
86	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> , <b>2011</b> , 124, 2153-64	5.3	21
85	Development of a high-dynamic range, GFP-based FRET probe sensitive to oxidative microenvironments. <i>Experimental Biology and Medicine</i> , <b>2011</b> , 236, 681-91	3.7	28
84	Investigation of Pt, Pt[sub 3]Co, and Pt[sub 3]Co/Mo Cathodes for the ORR in a Microfluidic H[sub 2]/O[sub 2] Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, B837	3.9	22
83	Microfluidic Reactor for the Electrochemical Reduction of Carbon Dioxide: The Effect of pH. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, B109		219
82	Prospects of CO <sub>2</sub> Utilization via Direct Heterogeneous Electrochemical Reduction. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3451-3458	6.4	971
81	DNA-mediated control of metal nanoparticle shape: one-pot synthesis and cellular uptake of highly stable and functional gold nanoflowers. <i>Nano Letters</i> , <b>2010</b> , 10, 1886-91	11.5	250
80	Determination of the phase diagram for soluble and membrane proteins. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4432-41	3.4	26
79	A Stochastic Model for Nucleation Kinetics Determination in Droplet-Based Microfluidic Systems. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 2515-2521	3.5	89
78	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> , <b>2010</b> , 132, 12185-7	16.4	73
77	Microfluidic labeling of biomolecules with radiometals for use in nuclear medicine. <i>Lab on A Chip</i> , <b>2010</b> , 10, 3387-96	7.2	34
76	Design rules for pumping and metering of highly viscous fluids in microfluidics. <i>Lab on A Chip</i> , <b>2010</b> , 10, 3112-24	7.2	13
75	New Concepts in the Chemistry and Engineering of Low-Temperature Fuel Cells <b>2010</b> , 565-610		
74	On the performance of membraneless laminar flow-based fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 3569-3578	8.9	126
73	Nanoporous separator and low fuel concentration to minimize crossover in direct methanol laminar flow fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 3523-3528	8.9	70
72	Microtopographically patterned surfaces promote the alignment of tenocytes and extracellular collagen. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2580-9	10.8	60

71	Alkaline Microfluidic Hydrogen-Oxygen Fuel Cell as a Cathode Characterization Platform. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, B565	3.9	57
70	Multiplexed electrical sensor arrays in microfluidic networks. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 350-358	8.5	20
69	Ruthenium cluster-like chalcogenide as a methanol tolerant cathode catalyst in air-breathing laminar flow fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 4384-4388	6.7	65
68	Investigation of fuel and media flexible laminar flow-based fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 7099-7105	7.1	75
67	Electronic Properties of a Monolayer-Electrolyte Interface Obtained from Mechanistic Impedance Analysis. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9375-9391	3.8	11
66	Cadherin and integrin regulation of epithelial cell migration. <i>Langmuir</i> , <b>2009</b> , 25, 10092-9	4	12
65	Mechanisms of Charge Transport through Monolayer-Modified Polycrystalline Gold Electrodes in the Absence of Redox-Active Moieties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4687-4705	3.8	8
64	Microfluidic chip for combinatorial mixing and screening of assays. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1676-80	7.2	66
63	Microfluidic Generation of Lipidic Mesophases for Membrane Protein Crystallization. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 2566-2569	3.5	44
62	Vertical-cavity surface-emitting lasers for optical sensing in microfluidic microsystems <b>2009</b> ,		1
61	Engineering redox-sensitive linkers for genetically encoded FRET-based biosensors. <i>Experimental Biology and Medicine</i> , <b>2008</b> , 233, 238-48	3.7	51
60	Microfluidic flow-flash: method for investigating protein dynamics. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 122-87.8	7.8	18
59	Generalized phase behavior of small molecules and nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 12494-9	3.4	12
58	Double transfer printing of small volumes of liquids. <i>Langmuir</i> , <b>2007</b> , 23, 2906-14	4	19
57	Patterning by Etching at the Nanoscale (PENs) on Si(111) through the Controlled Etching of PDMS. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2903-2909	9.6	6
56	A kinetic model to simulate protein crystal growth in an evaporation-based crystallization platform. <i>Langmuir</i> , <b>2007</b> , 23, 4516-22	4	20
55	Metastable States of small-molecule solutions. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 14121-9	3.4	19
54	Fabrication of Ceramic Microscale Structures. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2779-2783	3.3	20

53	The Role of Surface Defects in CO Oxidation, Methanol Oxidation, and Oxygen Reduction on Pt(111). <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, F238	3.9	41
52	Vapor Feed Direct Methanol Fuel Cell with Flowing Electrolyte. <i>ECS Transactions</i> , <b>2007</b> , 11, 1419-1424	1	2
51	Microfluidic hydrogen fuel cell with a liquid electrolyte. <i>Langmuir</i> , <b>2007</b> , 23, 6871-4	4	72
50	Ceramic microreactors for on-site hydrogen production. <i>Journal of Catalysis</i> , <b>2006</b> , 241, 235-242	7.3	68
49	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> , <b>2006</b> , 45, 581-5	16.4	73
48	In Situ Deposition and Patterning of Single-Walled Carbon Nanotubes by Laminar Flow and Controlled Flocculation in Microfluidic Channels. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 595-599	3.6	21
47	Integrated Electrical Sensor Arrays in Microfluidic Networks. <i>ECS Transactions</i> , <b>2006</b> , 3, 427-435	1	1
46	Materials for Micro- and Nanofluidics. <i>MRS Bulletin</i> , <b>2006</b> , 31, 87-94	3.2	18
45	Air-Breathing Laminar Flow-Based Direct Methanol Fuel Cell with Alkaline Electrolyte. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, A252		93
44	Methanol dehydrogenation and oxidation on Pt(111) in alkaline solutions. <i>Langmuir</i> , <b>2006</b> , 22, 10457-64	4	60
43	Ceramic microreactors for on-site hydrogen production from high temperature steam reforming of propane. <i>Lab on A Chip</i> , <b>2006</b> , 6, 1328-37	7.2	38
42	Active control of the depletion boundary layers in microfluidic electrochemical reactors. <i>Lab on A Chip</i> , <b>2006</b> , 6, 1516-24	7.2	105
41	Mechanism of CO oxidation on Pt(111) in alkaline media. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9545-55	3.4	143
40	Direct Growth of Glycine from Neutral Aqueous Solutions by Slow, Evaporation-Driven Crystallization. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1746-1749	3.5	85
39	Cross metathesis on olefin-terminated monolayers on Si(111) using the Grubbs Catalyst. <i>Langmuir</i> , <b>2006</b> , 22, 2146-55	4	31
38	Determination of Critical Supersaturation from Microdroplet Evaporation Experiments. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1175-1180	3.5	40
37	Cell migration and polarity on microfabricated gradients of extracellular matrix proteins. <i>Langmuir</i> , <b>2006</b> , 22, 4250-8	4	107
36	Passive direct formic acid microfabricated fuel cells. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 1058-1064	8.9	61

35	Simple methods for the direct assembly, functionalization, and patterning of acid-terminated monolayers on Si(111). <i>Langmuir</i> , <b>2005</b> , 21, 10537-44	4	63
34	Mild methods to assemble and pattern organic monolayers on hydrogen-terminated Si(111). <i>Chemical Communications</i> , <b>2005</b> , 3198-200	5.8	19
33	Characterization of Limiting Factors in Laminar Flow-Based Membraneless Microfuel Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A348		95
32	Multilevel microfluidics via single-exposure photolithography. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7674-5	16.4	26
31	Air-breathing laminar flow-based microfluidic fuel cell. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 16758-9	16.4	291
30	Regiospecific control of protein expression in cells cultured on two-component counter gradients of extracellular matrix proteins. <i>Langmuir</i> , <b>2005</b> , 21, 3061-8	4	41
29	Laminar flow-based electrochemical microreactor for efficient regeneration of nicotinamide cofactors for biocatalysis. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10466-7	16.4	47
28	Gravity-induced reorientation of the interface between two liquids of different densities flowing lamina-ly through a microchannel. <i>Lab on A Chip</i> , <b>2005</b> , 5, 1259-63	7.2	39
27	Microfabrication and characterization of a silicon-based millimeter scale, PEM fuel cell operating with hydrogen, methanol, or formic acid. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 882-891	8.5	95
26	Characterization and application of electrodeposited Pt, Pt/Pd, and Pd catalyst structures for direct formic acid micro fuel cells. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 4674-4682	6.7	175
25	Membraneless laminar flow-based micro fuel cells operating in alkaline, acidic, and acidic/alkaline media. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 5390-5398	6.7	173
24	Twists and turns in the development and maintenance of the mammalian small intestine epithelium. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , <b>2005</b> , 75, 58-71		22
23	Tailored Macroporous SiCN and SiC Structures for High-Temperature Fuel Reforming. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1336-1342	15.6	121
22	Screening and optimization of protein crystallization conditions through gradual evaporation using a novel crystallization platform. <i>Journal of Applied Crystallography</i> , <b>2005</b> , 38, 988-995	3.8	43
21	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> , <b>2004</b> , 101, 12428-33	11.5	247
20	Electrooxidation of adsorbed CO on Pt(111) and Pt(111)/Ru in alkaline media and comparison with results from acidic media. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 568, 215-224	4.1	143
19	Microfluidic fuel cell based on laminar flow. <i>Journal of Power Sources</i> , <b>2004</b> , 128, 54-60	8.9	413
18	Membraneless Fuel Cell Based on Laminar Flow <b>2003</b> , 261		6

17	Solving Mazes Using Microfluidic Networks. <i>Langmuir</i> , <b>2003</b> , 19, 4714-4722	4	67
16	Fabrication and characterization of microscale sandwich beams. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 597-605	2.5	13
15	Pressure-driven laminar flow in tangential microchannels: an elastomeric microfluidic switch. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4682-7	7.8	90
14	Microfluidic arrays of fluid-fluid diffusional contacts as detection elements and combinatorial tools. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5207-13	7.8	110
13	Patterning electro-osmotic flow with patterned surface charge. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3314-7	7.4	271
12	Experimental and theoretical scaling laws for transverse diffusive broadening in two-phase laminar flows in microchannels. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2376-2378	3.4	436
11	Fabrication of metallic microstructures using exposed, developed silver halide-based photographic film. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 645-51	7.8	24
10	Fabrication inside microchannels using fluid flow. <i>Accounts of Chemical Research</i> , <b>2000</b> , 33, 841-7	24.3	133
9	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> , <b>1999</b> , 96, 5545-8	11.5	455
8	Microfabrication inside capillaries using multiphase laminar flow patterning. <i>Science</i> , <b>1999</b> , 285, 83-5	33.3	580
7	Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties. <i>Chemistry - A European Journal</i> , <b>1998</b> , 4, 1225-1234	4.8	32
6	Scanning Force Microscopy Studies on Molecular Packing and Friction Anisotropy in Thin Films of Tetranitrotetrapropoxycalix[4]arene. <i>Langmuir</i> , <b>1998</b> , 14, 2801-2809	4	13
5	Second-Order Nonlinear Optical Properties of the Four Tetranitrotetrapropoxycalix[4]arene Conformers. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 7875-7883	16.4	56
4	Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties <b>1998</b> , 4, 1225		1
3	Second-Order Nonlinear Optical Active Calix[4]arene Polyimides Suitable for Frequency Doubling in the UV Region. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 596-601	9.6	16
2	Characterization of a [4Fe-4S]-Ferredoxin Model Based on a Concave Tetradentate Thiol Ligand System. <i>Chemische Berichte</i> , <b>1997</b> , 130, 23-34		8
1	Efficient Aqueous Electroreduction of CO <sub>2</sub> to Formate at Low Overpotential on Indium Tin Oxide Nanocrystals. <i>Chemistry of Materials</i> ,	9.6	4