

# Andrew deMello

## List of Publications by Year in Descending Order

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

151  
papers

8,876  
citations

45  
h-index

92  
g-index

159  
ext. papers

10,351  
ext. citations

9.5  
avg. IF

6.75  
L-index

#	Paper	IF	Citations
151	Replicating the <i>Cynandra opis</i> Butterfly's Structural Color for Bioinspired Brigrating Color Filters.. <i>Advanced Materials</i> , <b>2022</b> , e2109161	24	7
150	Biotemplating of Metal-Organic Framework Nanocrystals for Applications in Small-Scale Robotics. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107421	15.6	2
149	A weakly supervised deep learning approach for label-free imaging flow-cytometry-based blood diagnostics.. <i>Cell Reports Methods</i> , <b>2021</b> , 1, 100094		2
148	High-throughput multiparametric imaging flow cytometry: toward diffraction-limited sub-cellular detection and monitoring of sub-cellular processes. <i>Cell Reports</i> , <b>2021</b> , 34, 108824	10.6	9
147	Exploring mechanism of enzyme catalysis by on-chip transient kinetics coupled with global data analysis and molecular modeling. <i>CheM</i> , <b>2021</b> , 7, 1066-1079	16.2	11
146	Optical-Switch-Enabled Microfluidics for Sensitive Multichannel Colorimetric Analysis. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6784-6791	7.8	6
145	Strains Induce Transcriptional and Morphological Changes and Reduce Root Colonization of spp. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 652468	5.7	0
144	3D mechanical characterization of single cells and small organisms using acoustic manipulation and force microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 2583	17.4	17
143	Broad-Band Spectrum, High-Sensitivity Absorbance Spectroscopy in Picoliter Volumes. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7673-7681	7.8	6
142	Flexibility-Patterned Liquid-Repelling Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29092-29100	9.5	1
141	In Situ X-ray Absorption Spectroscopy and Droplet-Based Microfluidics: An Analysis of Calcium Carbonate Precipitation. <i>ACS Measurement Science Au</i> , <b>2021</b> , 1, 27-34		6
140	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31310-31319	9.5	4
139	Stochastic and Age-Dependent Proteostasis Decline Underlies Heterogeneity in Heat-Shock Response Dynamics. <i>Small</i> , <b>2021</b> , 17, e2102145	11	0
138	Microfluidics: Stochastic and Age-Dependent Proteostasis Decline Underlies Heterogeneity in Heat-Shock Response Dynamics (Small 30/2021). <i>Small</i> , <b>2021</b> , 17, 2170157	11	
137	Microfluidic-based imaging of complete <i>Caenorhabditis elegans</i> larval development. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	3
136	Microfluidics for extracellular vesicle separation and mimetic synthesis: Recent advances and future perspectives. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126110	14.7	15
135	Analysis of biomolecular condensates and protein phase separation with microfluidic technology. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2021</b> , 1868, 118823	4.9	16

134	Precision tuning of rare-earth-doped upconversion nanoparticles via droplet-based microfluidic screening. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 925-933	7.1	5
133	In Situ Nucleic Acid Amplification and Ultrasensitive Colorimetric Readout in a Paper-Based Analytical Device Using Silver Nanoplates. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001755	10.1	6
132	An amplification-free ultra-sensitive electrochemical CRISPR/Cas biosensor for drug-resistant bacteria detection. <i>Chemical Science</i> , <b>2021</b> , 12, 12733-12743	9.4	11
131	and characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice. <i>Photoacoustics</i> , <b>2021</b> , 23, 100285	9	9
130	Fluorometric Paper-Based, Loop-Mediated Isothermal Amplification Devices for Quantitative Point-of-Care Detection of Methicillin-Resistant (MRSA). <i>ACS Sensors</i> , <b>2021</b> , 6, 742-751	9.2	13
129	Tuning DNA-nanoparticle conjugate properties allows modulation of nuclease activity. <i>Nanoscale</i> , <b>2021</b> , 13, 4956-4970	7.7	2
128	Microfluidic Synthesis of Luminescent and Plasmonic Nanoparticles: Fast, Efficient, and Data-Rich. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000060	6.8	25
127	Single Droplet Detection: A Counter Propagating Lens-Mirror System for Ultrahigh Throughput Single Droplet Detection (Small 20/2020). <i>Small</i> , <b>2020</b> , 16, 2070112	11	
126	Deformation of leukaemia cell lines in hyperbolic microchannels: investigating the role of shear and extensional components. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2539-2548	7.2	10
125	Automated microfluidic screening of ligand interactions during the synthesis of cesium lead bromide nanocrystals. <i>Molecular Systems Design and Engineering</i> , <b>2020</b> , 5, 1118-1130	4.6	14
124	Integrated hand-powered centrifugation and paper-based diagnosis with blood-in/answer-out capabilities. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 165, 112282	11.8	29
123	Long-armed hexapod nanocrystals of cesium lead bromide. <i>Nanoscale</i> , <b>2020</b> , 12, 14808-14817	7.7	0
122	Open Space Diffusive Filter for Simultaneous Species Retrieval and Separation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11548-11552	7.8	2
121	Pathway selection as a tool for crystal defect engineering: A case study with a functional coordination polymer. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100632	6.6	3
120	Nanomaterials for molecular signal amplification in electrochemical nucleic acid biosensing: recent advances and future prospects for point-of-care diagnostics. <i>Molecular Systems Design and Engineering</i> , <b>2020</b> , 5, 49-66	4.6	31
119	Microfluidic Tools for the Synthesis of Bespoke Quantum Dots <b>2020</b> , 109-148		5
118	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4174-4182	9.5	6
117	Oscillatory Viscoelastic Microfluidics for Efficient Focusing and Separation of Nanoscale Species. <i>ACS Nano</i> , <b>2020</b> , 14, 422-433	16.7	31

116	Recent Advances in Droplet Microfluidics. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 132-149	7.8	91
115	An ultrasensitive non-noble metal colorimetric assay using starch-iodide complexation for Ochratoxin A detection. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1135, 29-37	6.6	9
114	Laminar Flow-Based Fiber Fabrication and Encoding via Two-Photon Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> ,	9.5	4
113	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , <b>2020</b> , 6, eaba9721	14.3	15
112	Microfluidic-Assisted Blade Coating of Compositional Libraries for Combinatorial Applications: The Case of Organic Photovoltaics. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001308	21.8	4
111	Enzyme-Assisted Nucleic Acid Detection for Infectious Disease Diagnostics: Moving toward the Point-of-Care. <i>ACS Sensors</i> , <b>2020</b> , 5, 2701-2723	9.2	27
110	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2001031	10.1	32
109	Microfluidics: Microfluidic Synthesis of Luminescent and Plasmonic Nanoparticles: Fast, Efficient, and Data-Rich (Adv. Mater. Technol. 7/2020). <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2070045	6.8	
108	SERS Barcode Libraries: A Microfluidic Approach. <i>Advanced Science</i> , <b>2020</b> , 7, 1903172	13.6	13
107	A Counter Propagating Lens-Mirror System for Ultrahigh Throughput Single Droplet Detection. <i>Small</i> , <b>2020</b> , 16, e1907534	11	7
106	Growing and Shaping Metal-Organic Framework Single Crystals at the Millimeter Scale. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9372-9381	16.4	21
105	Facile tuning of the mechanical properties of a biocompatible soft material. <i>Scientific Reports</i> , <b>2019</b> , 9, 7125	4.9	1
104	Microcapsules: Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics (Adv. Mater. Technol. 6/2019). <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1970032	6.8	1
103	An Exonuclease I-Assisted Silver-Metallized Electrochemical Aptasensor for Ochratoxin A Detection. <i>ACS Sensors</i> , <b>2019</b> , 4, 1560-1568	9.2	33
102	Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900092	6.8	5
101	Microfluidic Tools for Bottom-Up Synthetic Cellularity. <i>CheM</i> , <b>2019</b> , 5, 1727-1742	16.2	15
100	High-throughput microfluidic imaging flow cytometry. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 55, 36-43	11.4	47
99	Droplet microfluidics: from proof-of-concept to real-world utility?. <i>Chemical Communications</i> , <b>2019</b> , 55, 9895-9903	5.8	58

98	Metal-Organic Frameworks: In-Flow MOF Lithography (Adv. Mater. Technol. 6/2019). <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1970035	6.8	
97	In-Flow MOF Lithography. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800666	6.8	7
96	Bidirectional Propagation of Signals and Nutrients in Fungal Networks via Specialized Hyphae. <i>Current Biology</i> , <b>2019</b> , 29, 217-228.e4	6.3	45
95	Integration of Inverse Supercritical Fluid Extraction and Miniaturized Asymmetrical Flow Field-Flow Fractionation for the Rapid Analysis of Nanoparticles in Sunscreens. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3189-3195	7.8	7
94	Long-term C. elegans immobilization enables high resolution developmental studies in vivo. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1359-1368	7.2	15
93	Biocompatibility characteristics of the metal organic framework ZIF-8 for therapeutical applications. <i>Applied Materials Today</i> , <b>2018</b> , 11, 13-21	6.6	108
92	Unveiling the Shape Evolution and Halide-Ion-Segregation in Blue-Emitting Formamidinium Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>Nano Letters</i> , <b>2018</b> , 18, 1246-1252	11.5	81
91	Hydrodynamics in Cell Studies. <i>Chemical Reviews</i> , <b>2018</b> , 118, 2042-2079	68.1	49
90	Self-assembled materials and supramolecular chemistry within microfluidic environments: from common thermodynamic states to non-equilibrium structures. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 3788-3803	58.5	76
89	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>ACS Nano</i> , <b>2018</b> , 12, 5504-5517	16.7	99
88	Microfluidic formation of proteinosomes. <i>Chemical Communications</i> , <b>2018</b> , 54, 287-290	5.8	33
87	An optofluidic system with integrated microlens arrays for parallel imaging flow cytometry. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3631-3637	7.2	24
86	Acoustic Compressibility of Caenorhabditis elegans. <i>Biophysical Journal</i> , <b>2018</b> , 115, 1817-1825	2.9	11
85	Reinforcement Learning for Dynamic Microfluidic Control. <i>ACS Omega</i> , <b>2018</b> , 3, 10084-10091	3.9	29
84	A sample-in-digital-answer-out system for rapid detection and quantitation of infectious pathogens in bodily fluids. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 7019-7030	4.4	23
83	Pick a Color MARIA: Adaptive Sampling Enables the Rapid Identification of Complex Perovskite Nanocrystal Compositions with Defined Emission Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18869-18878	9.5	54
82	Fluoropolymer-Coated PDMS Microfluidic Devices for Application in Organic Synthesis. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12078-12083	4.8	12
81	A Photothermal Spectrometer for Fast and Background-Free Detection of Individual Nanoparticles in Flow. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1994-1999	7.8	9

80	From single-molecule detection to next-generation sequencing: microfluidic droplets for high-throughput nucleic acid analysis. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 58	2.8	34
79	Small but Perfectly Formed? Successes, Challenges, and Opportunities for Microfluidics in the Chemical and Biological Sciences. <i>CheM</i> , <b>2017</b> , 2, 201-223	16.2	206
78	Microfluidic Technology: Uncovering the Mechanisms of Nanocrystal Nucleation and Growth. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1248-1257	24.3	79
77	Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis. <i>Scientific Reports</i> , <b>2017</b> , 7, 1211	4.9	17
76	Chemical and Biological Dynamics Using Droplet-Based Microfluidics. <i>Annual Review of Analytical Chemistry</i> , <b>2017</b> , 10, 1-24	12.5	60
75	Differential detection photothermal spectroscopy: towards ultra-fast and sensitive label-free detection in picoliter & femtoliter droplets. <i>Lab on A Chip</i> , <b>2017</b> , 17, 3654-3663	7.2	26
74	Elasto-Inertial Focusing of Mammalian Cells and Bacteria Using Low Molecular, Low Viscosity PEO Solutions. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11653-11663	7.8	33
73	Electrospraying of microfluidic encapsulated cells for the fabrication of cell-laden electrospun hybrid tissue constructs. <i>Acta Biomaterialia</i> , <b>2017</b> , 64, 137-147	10.8	25
72	High-Throughput Multi-parametric Imaging Flow Cytometry. <i>CheM</i> , <b>2017</b> , 3, 588-602	16.2	41
71	Microfluidic Reactors Provide Preparative and Mechanistic Insights into the Synthesis of Formamidinium Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8433-8439	9.6	65
70	Microfluidic-based Synthesis of Covalent Organic Frameworks (COFs): A Tool for Continuous Production of COF Fibers and Direct Printing on a Surface. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	3
69	Integrated SERS-Based Microdroplet Platform for the Automated Immunoassay of F1 Antigens in <i>Yersinia pestis</i> . <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8413-8420	7.8	31
68	A High-Sensitivity, Integrated Absorbance and Fluorescence Detection Scheme for Probing Picoliter-Volume Droplets in Segmented Flows. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12880-12887	7.8	24
67	Freezing the Nonclassical Crystal Growth of a Coordination Polymer Using Controlled Dynamic Gradients. <i>Advanced Materials</i> , <b>2016</b> , 28, 8150-8155	24	16
66	Streptavidin-triggered signal amplified fluorescence polarization for analysis of DNA-protein interactions. <i>Analyst, The</i> , <b>2016</b> , 141, 6499-6502	5	8
65	Combinatorial microfluidic droplet engineering for biomimetic material synthesis. <i>Science Advances</i> , <b>2016</b> , 2, e1600567	14.3	44
64	Microfluidic Pneumatic Cages: A Novel Approach for In-chip Crystal Trapping, Manipulation and Controlled Chemical Treatment. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	2
63	Kinetics of nanocrystal synthesis in a microfluidic reactor: theory and experiment. <i>Reaction Chemistry and Engineering</i> , <b>2016</b> , 1, 261-271	4.9	34

62	Droplet-based microfluidics for artificial cell generation: a brief review. <i>Interface Focus</i> , <b>2016</b> , 6, 2016001319	19	93
61	Real-Time PEGDA-Based Microgel Generation and Encapsulation in Microdroplets. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600028	6.8	8
60	A droplet-based microfluidic immunosensor for high efficiency melamine analysis. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 80, 182-186	11.8	18
59	A microfluidic toolbox for cell fusion. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 16-24	3.5	9
58	Synthesis of Cesium Lead Halide Perovskite Nanocrystals in a Droplet-Based Microfluidic Platform: Fast Parametric Space Mapping. <i>Nano Letters</i> , <b>2016</b> , 16, 1869-77	11.5	349
57	Wash-free magnetic immunoassay of the PSA cancer marker using SERS and droplet microfluidics. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1022-9	7.2	110
56	Enhanced versatility of fluid control in centrifugal microfluidic platforms using two degrees of freedom. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1197-205	7.2	9
55	Inverse supercritical fluid extraction as a sample preparation method for the analysis of the nanoparticle content in sunscreen agents. <i>Journal of Chromatography A</i> , <b>2016</b> , 1440, 31-36	4.5	15
54	Controllable generation and encapsulation of alginate fibers using droplet-based microfluidics. <i>Lab on A Chip</i> , <b>2016</b> , 16, 59-64	7.2	20
53	Soil-on-a-Chip: microfluidic platforms for environmental organismal studies. <i>Lab on A Chip</i> , <b>2016</b> , 16, 228-41	7.2	81
52	Microfluidic-Based Droplet and Cell Manipulations Using Artificial Bacterial Flagella. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	34
51	Scalable production of CuInS <sub>2</sub> /ZnS quantum dots in a two-step droplet-based microfluidic platform. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6401-6408	7.1	37
50	In vitro gene expression within membrane-free coacervate protocells. <i>Chemical Communications</i> , <b>2015</b> , 51, 11429-32	5.8	122
49	Fast and sensitive detection of an anthrax biomarker using SERS-based solenoid microfluidic sensor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 230-6	11.8	68
48	Microfluidic generation of PEG-b-PLA polymersomes containing alginate-based core hydrogel. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 024101	3.2	25
47	High-throughput, quantitative enzyme kinetic analysis in microdroplets using stroboscopic epifluorescence imaging. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4965-72	7.8	34
46	Clinical validation of surface-enhanced Raman scattering-based immunoassays in the early diagnosis of rheumatoid arthritis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8353-62	4.4	15
45	3D Droplet Microfluidic Systems for High-Throughput Biological Experimentation. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10770-8	7.8	40

44	Millisecond Kinetics of PbS Quantum Dots Using Droplet-based Microfluidics with On-line Absorption and Fluorescence Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1780, 1		
43	Millisecond-Timescale Monitoring of PbS Nanoparticle Nucleation and Growth Using Droplet-Based Microfluidics. <i>Small</i> , <b>2015</b> , 11, 4009-17	11	53
42	Microfluidic Formation of Membrane-Free Aqueous Coacervate Droplets in Water. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8398-401	16.4	60
41	A Microfluidic Platform for the Rapid Determination of Distribution Coefficients by Gravity-Assisted Droplet-Based Liquid-Liquid Extraction. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6265-70	7.8	18
40	Continuous and low error-rate passive synchronization of pre-formed droplets. <i>RSC Advances</i> , <b>2015</b> , 5, 48399-48405	3.7	4
39	Online detection and automation methods in microfluidic nanomaterial synthesis. <i>Current Opinion in Chemical Engineering</i> , <b>2015</b> , 8, 29-35	5.4	36
38	A droplet-based fluorescence polarization immunoassay (dFPIA) platform for rapid and quantitative analysis of biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 497-502	11.8	21
37	Facile Droplet-based Microfluidic Synthesis of Monodisperse IVVI Semiconductor Nanocrystals with Coupled In-Line NIR Fluorescence Detection. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2975-2982	9.6	82
36	Nanocrystal synthesis in microfluidic reactors: where next?. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3172-80	7.2	117
35	Fast and Reliable Metamodeling of Complex Reaction Spaces Using Universal Kriging. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20026-20033	3.8	36
34	Integration of monolithic porous polymer with droplet-based microfluidics on a chip for nano/picoliter volume sample analysis. <i>Nano Convergence</i> , <b>2014</b> , 1, 3	9.2	7
33	Integrated pneumatic micro-pumps for high-throughput droplet-based microfluidics. <i>RSC Advances</i> , <b>2014</b> , 4, 20341-20345	3.7	14
32	The past, present and potential for microfluidic reactor technology in chemical synthesis. <i>Nature Chemistry</i> , <b>2013</b> , 5, 905-15	17.6	789
31	Droplet-based microfluidic platform for high-throughput, multi-parameter screening of photosensitizer activity. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8866-72	7.8	46
30	A fully unsupervised compartment-on-demand platform for precise nanoliter assays of time-dependent steady-state enzyme kinetics and inhibition. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4761-9	7.8	71
29	A nano LC-MALDI mass spectrometry droplet interface for the analysis of complex protein samples. <i>PLoS ONE</i> , <b>2013</b> , 8, e63087	3.7	32
28	Calcium carbonate polymorph control using droplet-based microfluidics. <i>Biomicrofluidics</i> , <b>2012</b> , 6, 220013-220014	3.2	130
27	High-throughput analysis of protein-protein interactions in picoliter-volume droplets using fluorescence polarization. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3849-54	7.8	77

26	Direct synthesis of dextran-coated superparamagnetic iron oxide nanoparticles in a capillary-based droplet reactor. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4704		95
25	Building droplet-based microfluidic systems for biological analysis. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 615-23	5.1	34
24	Droplet microfluidics: recent developments and future applications. <i>Chemical Communications</i> , <b>2011</b> , 47, 1936-42	5.8	251
23	A microdroplet dilutor for high-throughput screening. <i>Nature Chemistry</i> , <b>2011</b> , 3, 437-42	17.6	155
22	Ultrafast surface enhanced resonance Raman scattering detection in droplet-based microfluidic systems. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3076-81	7.8	93
21	Generation of chemical movies: FT-IR spectroscopic imaging of segmented flows. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3606-9	7.8	45
20	High-efficiency single-molecule detection within trapped aqueous microdroplets. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 15766-72	3.4	30
19	Mapping of fluidic mixing in microdroplets with 1 microsecond time resolution using fluorescence lifetime imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3950-6	7.8	45
18	Rapid cell extraction in aqueous two-phase microdroplet systems. <i>Chemical Science</i> , <b>2010</b> , 1, 447	9.4	62
17	The effect of growth temperature on physical properties of heavily doped ZnO:Al films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 697-703	1.6	26
16	Droplets Generation Method for Water-in-Oil State in the Polydimethylsiloxane Microchannel with Grooves <b>2009</b> ,		1
15	Continuous-flow polymerase chain reaction of single-copy DNA in microfluidic microdroplets. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 302-6	7.8	213
14	Microdroplets: a sea of applications?. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1244-54	7.2	506
13	Pillar-induced droplet merging in microfluidic circuits. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1837-41	7.2	281
12	Efficient flexible polymer light emitting diodes with conducting polymer anodes. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3551		49
11	Quantitative detection of protein expression in single cells using droplet microfluidics. <i>Chemical Communications</i> , <b>2007</b> , 1218-20	5.8	301
10	Intelligent routes to the controlled synthesis of nanoparticles. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1434-41	7.2	217
9	High-throughput DNA droplet assays using picoliter reactor volumes. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 6682-9	7.8	125

8	Control and detection of chemical reactions in microfluidic systems. <i>Nature</i> , <b>2006</b> , 442, 394-402	50.4	1209
7	Influence of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) in polymer LEDs. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	27
6	Role of electron injection in polyfluorene-based light emitting diodes containing PEDOT:PSS. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	52
5	On-line analysis of CdSe nanoparticle formation in a continuous flow chip-based microreactor. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2655		120
4	Microfluidic routes to the controlled production of nanoparticles. <i>Chemical Communications</i> , <b>2002</b> , 1136-78		222
3	Oscillatory Viscoelastic Microfluidics for Efficient Focusing and Separation of Nanoscale Species		1
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