

# Scott T Retterer

## List of Publications by Year in descending order

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171  
papers

6,738  
citations

76326

40  
h-index

74163

75  
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179  
all docs

179  
docs citations

179  
times ranked

9182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hotspots of root-exuded amino acids are created within a rhizosphere-on-a-chip. <i>Lab on A Chip</i> , 2022, 22, 954-963.	6.0	16
2	Modular Approach for the Synthesis of Bottlebrush Diblock Copolymers from Poly(Glycidyl) Ether. <i>Macromolecules</i> , 2021, 54, 488-497.	4.8	1
3	Formation of Complex Spin Textures in Thermally Demagnetized $\text{La}_{0.7}\text{O}_3$ Artificial Spin-Ice Structures. <i>Physical Review Applied</i> , 2022, 17, .	3.1	0
4	High spatial and energy resolution electron energy loss spectroscopy of the magnetic and electric excitations in plasmonic nanorod oligomers. <i>Optics Express</i> , 2021, 29, 4661.	3.4	4
5	In situ electron-beam processing and cathodoluminescence microscopy for quantum nanophotonics. , 2021, .	3.0	1
6	Thermal conductivity of nano- and micro-crystalline diamond films studied by photothermal excitation of cantilever structures. <i>Diamond and Related Materials</i> , 2021, 113, 108279.	3.9	9
7	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. <i>Chemical Engineering Journal</i> , 2021, 410, 128333.	12.7	40
8	cAMP binding to closed pacemaker ion channels is non-cooperative. <i>Nature</i> , 2021, 595, 606-610.	27.8	18
9	Harnessing autocatalytic reactions in polymerization and depolymerization. <i>MRS Communications</i> , 2021, 11, 377-390.	1.8	4
10	Plant-Microbe Interactions: From Genes to Ecosystems Using <i>Populus</i> as a Model System. <i>Phytobiomes Journal</i> , 2021, 5, 29-38.	2.7	31
11	Modeling root system growth around obstacles. <i>Scientific Reports</i> , 2020, 10, 15868.	3.3	10
12	Controlling antiferromagnetic domains in patterned $\text{La}_{0.7}\text{Sr}_{0.3}\text{FeO}_3$ thin films. <i>Journal of Applied Physics</i> , 2020, 127, 203901.	2.5	8
13	In Situ Chemical Monitoring and Imaging of Contents within Microfluidic Devices Having a Porous Membrane Wall Using Liquid Microjunction Surface Sampling Probe Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 832-839.	2.8	7
14	The effects of polydisperse crowders on the compaction of the <i>Escherichia coli</i> nucleoid. <i>Molecular Microbiology</i> , 2020, 113, 1022-1037.	2.5	21
15	Strain-Dependent Chemical Gradient and Polarization in Metal Halide Perovskites. <i>Advanced Electronic Materials</i> , 2020, 6, 1901235.	5.1	19
16	Total internal reflection enabled wide-field coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2020, 45, 3087.	3.3	5
17	Net vector reorientation in ferromagnetic/antiferromagnetic complex oxide nanostructures. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	5
18	Multi-Model Imaging of Local Chemistry and Ferroic Properties of Hybrid Organic-Inorganic Perovskites. <i>Microscopy and Microanalysis</i> , 2019, 25, 2076-2077.	0.4	3

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19	Pore-scale hydrodynamics influence the spatial evolution of bacterial biofilms in a microfluidic porous network. <i>PLoS ONE</i> , 2019, 14, e0218316.	2.5	55
20	Label-free time- and space-resolved exometabolite sampling of growing plant roots through nanoporous interfaces. <i>Scientific Reports</i> , 2019, 9, 10272.	3.3	12
21	Microfluidics and Metabolomics Reveal Symbiotic Bacterial–Fungal Interactions Between <i>Mortierella elongata</i> and <i>Burkholderia</i> Include Metabolite Exchange. <i>Frontiers in Microbiology</i> , 2019, 10, 2163.	3.5	37
22	Microfluidics-based separation of actinium-225 from radium-225 for medical applications. <i>Separation Science and Technology</i> , 2019, 54, 1994-2002.	2.5	0
23	Identification of Critical Surface Parameters Driving Lectin-Mediated Capture of Bacteria from Solution. <i>Biomacromolecules</i> , 2019, 20, 2852-2863.	5.4	12
24	Increasing access to microfluidics for studying fungi and other branched biological structures. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 1.	5.1	17
25	Soil Aggregate Microbial Communities: Towards Understanding Microbiome Interactions at Biologically Relevant Scales. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	233
26	Reply to: On the ferroelectricity of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskites. <i>Nature Materials</i> , 2019, 18, 1051-1053.	27.5	21
27	A novel PEMEC with 3D printed non-conductive bipolar plate for low-cost hydrogen production from water electrolysis. <i>Energy Conversion and Management</i> , 2019, 182, 108-116.	9.2	65
28	A Very Low-Cost, Labor-Efficient, and Simple Method to Block Scattered Ultraviolet Light in PDMS Microfluidic Devices by Inserting Aluminum Foil Strips. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	1.5	1
29	Photonic crystal nanobeam biosensors based on porous silicon. <i>Optics Express</i> , 2019, 27, 9536.	3.4	36
30	Interplay between bulk and edge-bound topological defects in a square micromagnet. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	4
31	Nano-Enabled Approaches to Chemical Imaging in Biosystems. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 351-373.	5.4	1
32	Novel thin/tunable gas diffusion electrodes with ultra-low catalyst loading for hydrogen evolution reactions in proton exchange membrane electrolyzer cells. <i>Nano Energy</i> , 2018, 47, 434-441.	16.0	118
33	Quantifying the Spatiotemporal Dynamics of Plant Root Colonization by Beneficial Bacteria in a Microfluidic Habitat. <i>Advanced Biology</i> , 2018, 2, 1800048.	3.0	31
34	Magnetic domain formation in ultrathin complex oxide ferromagnetic/antiferromagnetic bilayers. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
35	Trace Analysis and Reaction Monitoring by Nanophotonic Ionization Mass Spectrometry from Elevated Bowtie and Silicon Nanopost Arrays. <i>Advanced Functional Materials</i> , 2018, 28, 1801730.	14.9	31
36	Developing titanium micro/nano porous layers on planar thin/tunable LGDLs for high-efficiency hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14618-14628.	7.1	52

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37	Label-free detection of Herceptin® using suspended silicon microring resonators. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 394-401.	7.8	17
38	Polarization- and wavelength-resolved near-field imaging of complex plasmonic modes in Archimedean nanospirals. <i>Optics Letters</i> , 2018, 43, 927.	3.3	13
39	A Microfluidics and Agent-Based Modeling Framework for Investigating Spatial Organization in Bacterial Colonies: The Case of <i>Pseudomonas Aeruginosa</i> and H1-Type VI Secretion Interactions. <i>Frontiers in Microbiology</i> , 2018, 9, 33.	3.5	30
40	Elucidating Duramycin™s Bacterial Selectivity and Mode of Action on the Bacterial Cell Envelope. <i>Frontiers in Microbiology</i> , 2018, 9, 219.	3.5	14
41	Analysis of Factors Limiting Bacterial Growth in PDMS Mother Machine Devices. <i>Frontiers in Microbiology</i> , 2018, 9, 871.	3.5	63
42	Chemical nature of ferroelastic twin domains in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite. <i>Nature Materials</i> , 2018, 17, 1013-1019.	27.5	183
43	Dynamic behavior of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite twin domains. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	27
44	Accessing microfluidics through feature-based design software for 3D printing. <i>PLoS ONE</i> , 2018, 13, e0192752.	2.5	15
45	Chemical copatterning strategies using azlactone-based block copolymers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, .	1.2	7
46	Study on corrosion migrations within catalyst-coated membranes of proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27343-27349.	7.1	24
47	In situ investigation on ultrafast oxygen evolution reactions of water splitting in proton exchange membrane electrolyzer cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18469-18475.	10.3	87
48	Thin film surface modifications of thin/tunable liquid/gas diffusion layers for high-efficiency proton exchange membrane electrolyzer cells. <i>Applied Energy</i> , 2017, 206, 983-990.	10.1	58
49	Synthetic Biology in Aqueous Compartments at the Micro- and Nanoscale. <i>MRS Advances</i> , 2017, 2, 2427-2433.	0.9	5
50	Assembly and Tracking of Microbial Community Development within a Microwell Array Platform. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	15
51	Imaging the Root Hair Morphology of <em>Arabidopsis</em> Seedlings in a Two-layer Microfluidic Platform. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
52	Automated Interpretation and Extraction of Topographic Information from Time of Flight Secondary Ion Mass Spectrometry Data. <i>Scientific Reports</i> , 2017, 7, 17099.	3.3	21
53	Resource Sharing Controls Gene Expression Bursting. <i>ACS Synthetic Biology</i> , 2017, 6, 334-343.	3.8	30
54	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. <i>Energy and Environmental Science</i> , 2017, 10, 166-175.	30.8	154

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55	$\beta$ -(1,3)-Glucan Unmasking in Some <i>Candida albicans</i> Mutants Correlates with Increases in Cell Wall Surface Roughness and Decreases in Cell Wall Elasticity. <i>Infection and Immunity</i> , 2017, 85, .	2.2	44
56	Temperature dependence of ferromagnet-antiferromagnet spin alignment and coercivity in epitaxial micromagnet bilayers. <i>Physical Review Materials</i> , 2017, 1, .	2.4	5
57	Suspending DNA Origami Between Four Gold Nanodots. <i>Small</i> , 2016, 12, 169-173.	10.0	7
58	Development of transparent microwell arrays for optical monitoring and dissection of microbial communities. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	1.2	13
59	<i>In-situ</i> photopolymerization of monodisperse and discoid oxidized methacrylated alginate microgels in a microfluidic channel. <i>Biomicrofluidics</i> , 2016, 10, 011101.	2.4	11
60	Thin liquid/gas diffusion layers for high-efficiency hydrogen production from water splitting. <i>Applied Energy</i> , 2016, 177, 817-822.	10.1	101
61	Hydrodynamic trapping for rapid assembly and in situ electrical characterization of droplet interface bilayer arrays. <i>Lab on A Chip</i> , 2016, 16, 3576-3588.	6.0	39
62	Tailoring Spin Textures in Complex Oxide Micromagnets. <i>ACS Nano</i> , 2016, 10, 8545-8551.	14.6	11
63	While-you-wait proteins? Producing biomolecules at the point of need. <i>Expert Review of Proteomics</i> , 2016, 13, 707-709.	3.0	7
64	Discovery of true electrochemical reactions for ultrahigh catalyst mass activity in water splitting. <i>Science Advances</i> , 2016, 2, e1600690.	10.3	161
65	Flow-Through Porous Silicon Membranes for Real-Time Label-Free Biosensing. <i>Analytical Chemistry</i> , 2016, 88, 10940-10948.	6.5	67
66	Controlling condensation and frost growth with chemical micropatterns. <i>Scientific Reports</i> , 2016, 6, 19131.	3.3	111
67	Toward Microfluidic Reactors for Cell-Free Protein Synthesis at the Point-of-Care. <i>Small</i> , 2016, 12, 810-817.	10.0	60
68	Elevated gold ellipse nanoantenna dimers as sensitive and tunable surface enhanced Raman spectroscopy substrates. <i>Nanoscale</i> , 2016, 8, 5641-5648.	5.6	25
69	Slow light Mach-Zehnder interferometer as label-free biosensor with scalable sensitivity. <i>Optics Letters</i> , 2016, 41, 753.	3.3	52
70	Stochastic Assembly of Bacteria in Microwell Arrays Reveals the Importance of Confinement in Community Development. <i>PLoS ONE</i> , 2016, 11, e0155080.	2.5	42
71	Integration of Nanostructures Within Microfluidic Devices. , 2016, , 1671-1678.		0
72	Biofilms in Microfluidic Devices. , 2016, , 251-257.		0

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73	Controlling the switching field in nanomagnets by means of domain-engineered antiferromagnets. <i>Physical Review B</i> , 2015, 92, .	3.2	8
74	Nanofluidic interfaces in microfluidic networks. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015, 33, 06FM01.	1.2	2
75	Microstencils to generate defined, multi-species patterns of bacteria. <i>Biomicrofluidics</i> , 2015, 9, 064103.	2.4	8
76	Characterization of small microfluidic valves for studies of mechanical properties of bacteria. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015, 33, .	1.2	13
77	Characterization of extended channel bioreactors for continuous-flow protein production. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015, 33, .	1.2	11
78	Sealable Femtoliter Chamber Arrays for Cell-free Biology. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	6
79	Fabrication of nanoporous membranes for tuning microbial interactions and biochemical reactions. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015, 33, 06FM03.	1.2	7
80	Modular microfluidics for point-of-care protein purifications. <i>Lab on A Chip</i> , 2015, 15, 1799-1811.	6.0	58
81	Investigation of titanium felt transport parameters for energy storage and hydrogen/oxygen production. , 2015, , .		8
82	Diffusive dynamics of nanoparticles in ultra-confined media. <i>Soft Matter</i> , 2015, 11, 7515-7524.	2.7	34
83	New surface radiolabeling schemes of super paramagnetic iron oxide nanoparticles (SPIONs) for biodistribution studies. <i>Nanoscale</i> , 2015, 7, 6545-6555.	5.6	22
84	Self-propelled sweeping removal of dropwise condensate. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	95
85	Suspended micro-ring resonator for enhanced biomolecule detection sensitivity. , 2014, , .		5
86	Length Scale Selects Directionality of Droplets on Vibrating Pillar Ratchet. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400337.	3.7	16
87	The influence of ion-milling damage to magnetic properties of Co <sub>80</sub> Pt <sub>20</sub> patterned perpendicular media. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 105001.	2.8	3
88	Transport and Dispersion of Nanoparticles in Periodic Nanopost Arrays. <i>ACS Nano</i> , 2014, 8, 4221-4227.	14.6	35
89	Atomic layer deposition TiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> stack: An improved gate dielectric on Ga-polar GaN metal oxide semiconductor capacitors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014, 32, 060602.	1.2	4
90	Single cell swimming dynamics of <i>Listeria monocytogenes</i> using a nanoporous microfluidic platform. <i>Lab on A Chip</i> , 2014, 14, 938.	6.0	17

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91	Enhancing the Sensitivity of Label-Free Silicon Photonic Biosensors through Increased Probe Molecule Density. ACS Photonics, 2014, 1, 590-597.	6.6	41
92	Asymmetric Wettability of Nanostructures Directs Leidenfrost Droplets. ACS Nano, 2014, 8, 860-867.	14.6	72
93	The effect of retinal pigment epithelial cell patch size on growth factor expression. Biomaterials, 2014, 35, 3999-4004.	11.4	13
94	Length scale of Leidenfrost ratchet switches droplet directionality. Nanoscale, 2014, 6, 9293-9299.	5.6	35
95	Microstructured Block Copolymer Surfaces for Control of Microbe Adhesion and Aggregation. Biosensors, 2014, 4, 63-75.	4.7	9
96	Lectin-Functionalized Poly(glycidyl methacrylate)- <i>block</i> -poly(vinylidimethyl azlactone) Surface Scaffolds for High Avidity Microbial Capture. Biomacromolecules, 2013, 14, 3742-3748.	5.4	28
97	Volume labeling with Alexa Fluor dyes and surface functionalization of highly sensitive fluorescent silica (SiO <sub>2</sub> ) nanoparticles. Nanoscale, 2013, 5, 10369.	5.6	20
98	Developing in vitro models of the sub-retinal microenvironment. , 2013, , .		0
99	Manipulating the lateral diffusion of surface-anchored EGF demonstrates that receptor clustering modulates phosphorylation levels. Integrative Biology (United Kingdom), 2013, 5, 659.	1.3	34
100	Metabolic Differences in Microbial Cell Populations Revealed by Nanophotonic Ionization. Angewandte Chemie - International Edition, 2013, 52, 3650-3653.	13.8	57
101	Layer-by-Layer Templated Assembly of Silica at the Nanoscale. Langmuir, 2013, 29, 2193-2199.	3.5	6
102	Diffusive Dynamics of Nanoparticles in Arrays of Nanoposts. ACS Nano, 2013, 7, 5122-5130.	14.6	89
103	Microscale confinement features can affect biofilm formation. Microfluidics and Nanofluidics, 2013, 14, 895-902.	2.2	42
104	Dynamic development of the protein corona on silica nanoparticles: composition and role in toxicity. Nanoscale, 2013, 5, 6372.	5.6	131
105	Optic imaging of single and two-phase pressure-driven flows in nano-scale channels. Lab on A Chip, 2013, 13, 1165.	6.0	42
106	Aqueous two-phase microdroplets with reversible phase transitions. Lab on A Chip, 2013, 13, 1295.	6.0	23
107	Evaporation-Induced Buckling and Fission of Microscale Droplet Interface Bilayers. Journal of the American Chemical Society, 2013, 135, 5545-5548.	13.7	23
108	Spin-Flop Coupling and Exchange Bias in Embedded Complex Oxide Micromagnets. Physical Review Letters, 2013, 111, 107201.	7.8	28

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109	Quenching of initial ac susceptibility in single-domain Ni nanobars. Physical Review B, 2012, 85, .	3.2	2
110	Analysis of tight junction formation and integrity. , 2012, 2012, 3724-7.		1
111	Adhesion and Formation of Microbial Biofilms in Complex Microfluidic Devices. , 2012, , .		1
112	Monodisperse alginate microgel formation in a three-dimensional microfluidic droplet generator. Biomicrofluidics, 2012, 6, 44108.	2.4	38
113	Crossover from Spin-Flop Coupling to Collinear Spin Alignment in Antiferromagnetic/Ferromagnetic Nanostructures. Nano Letters, 2012, 12, 2386-2390.	9.1	29
114	Enzyme Reactions in Nanoporous, Picoliter Volume Containers. Analytical Chemistry, 2012, 84, 1092-1097.	6.5	12
115	In Vivo Toxicity of Titanium Dioxide and Gold Nanoparticles. , 2012, , 1083-1090.		0
116	Bioadhesives. , 2012, , 194-201.		0
117	Microscale and nanoscale compartments for biotechnology. Current Opinion in Biotechnology, 2012, 23, 522-528.	6.6	13
118	Single- and two-phase flow in microfluidic porous media analogs based on Voronoi tessellation. Lab on A Chip, 2012, 12, 253-261.	6.0	108
119	Bacterial Electrical Conduction. , 2012, , 173-173.		0
120	Insect Flight and Micro Air Vehicles (MAVs). , 2012, , 1096-1109.		0
121	An integrated portable Raman sensor with nanofabricated gold bowtie array substrates for energetics detection. Analyst, The, 2011, 136, 1697.	3.5	25
122	Towards the World Smallest Chemical Reactors: On-Demand Generation and Fusion of Femtoliter Aqueous Droplets. Biophysical Journal, 2011, 100, 607a.	0.5	0
123	Interfacial Tension Controlled Fusion of Individual Femtoliter Droplets and Triggering of Confined Chemical Reactions on Demand. Biophysical Journal, 2011, 100, 522a.	0.5	0
124	Bacterial Immobilization for Imaging by Atomic Force Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	28
125	Effects of nanostructuring and substrate symmetry on antiferromagnetic domain structure in $\text{LaFeO}_3$ thin films. Physical Review B, 2011, 84, .	3.2	24
126	Continuous protein production in nanoporous, picolitre volume containers. Lab on A Chip, 2011, 11, 3523.	6.0	38



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127	Characterization of cell surface and extracellular matrix remodeling of <i>Azospirillum brasilense</i> chemotaxis-like 1 signal transduction pathway mutants by atomic force microscopy. <i>FEMS Microbiology Letters</i> , 2011, 314, 131-139.	1.8	14
128	Model for biological communication in a nanofabricated cell-mimic driven by stochastic resonance. <i>Nano Communication Networks</i> , 2011, 2, 39-49.	2.9	12
129	Electric field induced bacterial flocculation of enteroaggregative <i>Escherichia coli</i> O42. <i>Applied Physics Letters</i> , 2011, 98, 253701.	3.3	9
130	Evaporation Characteristics of Sessile Droplets on Nano-Patterned Hydrophobic Surfaces. <i>Journal of Heat Transfer</i> , 2010, 132, .	2.1	1
131	High-Resolution PFPE-based Molding Techniques for Nanofabrication of High-Pattern Density, Sub-20 nm Features: A Fundamental Materials Approach. <i>Nano Letters</i> , 2010, 10, 1421-1428.	9.1	96
132	Assessment of laser-induced thermal load on silicon nanostructures based on ion desorption yields. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 539-544.	2.3	11
133	Nanostructured silicon membranes for control of molecular transport. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6P48-C6P52.	1.2	7
134	Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 4952-4955.	9.1	480
135	The evaporation and wetting dynamics of sessile water droplets on submicron-scale patterned silicon hydrophobic surfaces. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 055021.	2.6	31
136	Surface Charge- and Space-Dependent Transport of Proteins in Crowded Environments of Nanotailored Posts. <i>ACS Nano</i> , 2010, 4, 3345-3355.	14.6	23
137	Tailored Silicon Nanopost Arrays for Resonant Nanophotonic Ion Production. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4835-4840.	3.1	79
138	Antiferromagnetic Domain Reconfiguration in Embedded $\text{LaFeO}_3$ Thin Film Nanostructures. <i>Nano Letters</i> , 2010, 10, 4578-4583.	9.1	37
139	Interfacial tension controlled fusion of individual femtolitre droplets and triggering of confined chemical reactions on demand. <i>Lab on A Chip</i> , 2010, 10, 3373.	6.0	9
140	On-demand generation of monodisperse femtolitre droplets by shape-induced shear. <i>Lab on A Chip</i> , 2010, 10, 2688.	6.0	29
141	Development and fabrication of nanoporous silicon-based bioreactors within a microfluidic chip. <i>Lab on A Chip</i> , 2010, 10, 1174.	6.0	33
142	Cryogenic Etching of Silicon: An Alternative Method for Fabrication of Vertical Microcantilever Master Molds. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 64-74.	2.5	22
143	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
144	Cell free translation in engineered picoliter volume containers. , 2009, 2009, 1-4.		5

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145	Gratings on porous silicon structures for sensing applications. , 2009, , .		3
146	Photonic crystal slab and waveguide design for biological detection. Proceedings of SPIE, 2009, , .	0.8	0
147	Impacts of Surface Morphology on Ion Desorption and Ionization in Desorption Ionization on Porous Silicon (DIOS) Mass Spectrometry. Journal of Physical Chemistry C, 2009, 113, 3076-3083.	3.1	56
148	Effects of ultramicroelectrode dimensions on the electropolymerization of polypyrrole. Journal of Applied Physics, 2009, 105, 124312.	2.5	8
149	Growth, Patterning, and One-Dimensional Electron -Transport Properties of Self-Assembled Ag-TCNQF4 Organic Nanowires. Chemistry of Materials, 2009, 21, 4275-4281.	6.7	48
150	Characterization and Detection of Uranyl Ion Sorption on Silver Surfaces Using Surface Enhanced Raman Spectroscopy. Analytical Chemistry, 2009, 81, 8061-8067.	6.5	53
151	Controllable Nanofabrication of Aggregate-like Nanoparticle Substrates and Evaluation for Surface-Enhanced Raman Spectroscopy. ACS Nano, 2009, 3, 3845-3853.	14.6	70
152	Porous silicon waveguide with integrated grating coupler for DNA sensing. , 2009, , .		6
153	Nanofabricated periodic arrays of silver elliptical discs as SERS substrates. Journal of Raman Spectroscopy, 2008, 39, 1811-1820.	2.5	57
154	Selective Patterned Growth of Single-Crystal Ag-TCNQ Nanowires for Devices by Vapor-Solid Chemical Reaction. Advanced Functional Materials, 2008, 18, 3043-3048.	14.9	57
155	Positional control of catalyst nanoparticles for the synthesis of high density carbon nanofiber arrays. Carbon, 2008, 46, 1378-1383.	10.3	9
156	Surface characterization and functionalization of carbon nanofibers. Journal of Applied Physics, 2008, 103, .	2.5	141
157	Grating couplers on porous silicon planar waveguides for sensing applications. Journal of Applied Physics, 2008, 104, 123113.	2.5	34
158	Actuatable Membranes Based on Polypyrrole-Coated Vertically Aligned Carbon Nanofibers. ACS Nano, 2008, 2, 247-254.	14.6	26
159	Nanoscale lithography via electron beam induced deposition. Nanotechnology, 2008, 19, 505302.	2.6	32
160	Size-selectivity and anomalous subdiffusion of nanoparticles through carbon nanofiber-based membranes. Nanotechnology, 2008, 19, 415301.	2.6	13
161	Constant pressure fluid infusion into rat neocortex from implantable microfluidic devices. Journal of Neural Engineering, 2008, 5, 385-391.	3.5	24
162	Comparison of the indentation and elasticity of E. coli and its spheroplasts by AFM. Ultramicroscopy, 2007, 107, 934-942.	1.9	33

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163	Molecular transport in a crowded volume created from vertically aligned carbon nanofibres: a fluorescence recovery after photobleaching study. <i>Nanotechnology</i> , 2006, 17, 5659-5668.	2.6	17
164	On-chip micro-biosensor for the detection of human CD4+ cells based on AC impedance and optical analysis. <i>Biosensors and Bioelectronics</i> , 2005, 21, 696-704.	10.1	74
165	Dexamethasone treatment reduces astroglia responses to inserted neuroprosthetic devices in rat neocortex. <i>Experimental Neurology</i> , 2005, 194, 289-300.	4.1	185
166	Model Neural Prostheses With Integrated Microfluidics: A Potential Intervention Strategy for Controlling Reactive Cell and Tissue Responses. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 2063-2073.	4.2	84
167	Direct Casting of Polymer Membranes into Microfluidic Devices. <i>Separation Science and Technology</i> , 2004, 39, 2515-2530.	2.5	16
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