Scott T Retterer

List of Publications by Year
in descending order

171 papers	6,738 citations	76326 40 h-index	74163 75 g-index
179 all docs	179 docs citations	179 times ranked	9182 citing authors

#	Article	IF	Citations
1	Brain responses to micro-machined silicon devices. Brain Research, 2003, 983, 23-35.	2.2	730
2	Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. Nano Letters, 2010, 10, 4952-4955.	9.1	480
3	Soil Aggregate Microbial Communities: Towards Understanding Microbiome Interactions at Biologically Relevant Scales. Applied and Environmental Microbiology, 2019, 85, .	3.1	233
4	Controlling cellular reactive responses around neural prosthetic devices using peripheral and local intervention strategies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 186-188.	4.9	207
5	Dexamethasone treatment reduces astroglia responses to inserted neuroprosthetic devices in rat neocortex. Experimental Neurology, 2005, 194, 289-300.	4.1	185
6	Chemical nature of ferroelastic twin domains in CH3NH3PbI3 perovskite. Nature Materials, 2018, 17, 1013-1019.	27.5	183
7	Discovery of true electrochemical reactions for ultrahigh catalyst mass activity in water splitting. Science Advances, 2016, 2, e1600690.	10.3	161
8	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. Energy and Environmental Science, 2017, 10, 166-175.	30.8	154
9	Surface characterization and functionalization of carbon nanofibers. Journal of Applied Physics, 2008, 103, .	2.5	141
10	Dynamic development of the protein corona on silica nanoparticles: composition and role in toxicity. Nanoscale, 2013, 5, 6372.	5.6	131
11	Novel thin/tunable gas diffusion electrodes with ultra-low catalyst loading for hydrogen evolution reactions in proton exchange membrane electrolyzer cells. Nano Energy, 2018, 47, 434-441.	16.0	118
12	Controlling condensation and frost growth with chemical micropatterns. Scientific Reports, 2016, 6, 19131.	3.3	111
13	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
14	Thin liquid/gas diffusion layers for high-efficiency hydrogen production from water splitting. Applied Energy, 2016, 177, 817-822.	10.1	101
15	High-Resolution PFPE-based Molding Techniques for Nanofabrication of High-Pattern Density, Sub-20 nm Features: A Fundamental Materials Approach. Nano Letters, 2010, 10, 1421-1428.	9.1	96
16	Self-propelled sweeping removal of dropwise condensate. Applied Physics Letters, 2015, 106, .	3.3	95
17	Diffusive Dynamics of Nanoparticles in Arrays of Nanoposts. ACS Nano, 2013, 7, 5122-5130.	14.6	89
18	In situ investigation on ultrafast oxygen evolution reactions of water splitting in proton exchange membrane electrolyzer cells. Journal of Materials Chemistry A, 2017, 5, 18469-18475.	10.3	87

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19	Model Neural Prostheses With Integrated Microfluidics: A Potential Intervention Strategy for Controlling Reactive Cell and Tissue Responses. IEEE Transactions on Biomedical Engineering, 2004, 51, 2063-2073.	4.2	84
20	Tailored Silicon Nanopost Arrays for Resonant Nanophotonic Ion Production. Journal of Physical Chemistry C, 2010, 114, 4835-4840.	3.1	79
21	On-chip micro-biosensor for the detection of human CD4+ cells based on AC impedance and optical analysis. Biosensors and Bioelectronics, 2005, 21, 696-704.	10.1	74
22	Asymmetric Wettability of Nanostructures Directs Leidenfrost Droplets. ACS Nano, 2014, 8, 860-867.	14.6	72
23	Controllable Nanofabrication of Aggregate-like Nanoparticle Substrates and Evaluation for Surface-Enhanced Raman Spectroscopy. ACS Nano, 2009, 3, 3845-3853.	14.6	70
24	Flow-Through Porous Silicon Membranes for Real-Time Label-Free Biosensing. Analytical Chemistry, 2016, 88, 10940-10948.	6.5	67
25	A novel PEMEC with 3D printed non-conductive bipolar plate for low-cost hydrogen production from water electrolysis. Energy Conversion and Management, 2019, 182, 108-116.	9.2	65
26	Analysis of Factors Limiting Bacterial Growth in PDMS Mother Machine Devices. Frontiers in Microbiology, 2018, 9, 871.	3.5	63
27	Toward Microfluidic Reactors for Cellâ€Free Protein Synthesis at the Pointâ€ofâ€Care. Small, 2016, 12, 810-817.	10.0	60
28	Modular microfluidics for point-of-care protein purifications. Lab on A Chip, 2015, 15, 1799-1811.	6.0	58
29	Thin film surface modifications of thin/tunable liquid/gas diffusion layers for high-efficiency proton exchange membrane electrolyzer cells. Applied Energy, 2017, 206, 983-990.	10.1	58
30	Nanofabricated periodic arrays of silver elliptical discs as SERS substrates. Journal of Raman Spectroscopy, 2008, 39, 1811-1820.	2.5	57
31	Selective Patterned Growth of Singleâ€Crystal Agâ€“TCNQ Nanowires for Devices by Vaporâ€“Solid Chemical Reaction. Advanced Functional Materials, 2008, 18, 3043-3048.	14.9	57
32	Metabolic Differences in Microbial Cell Populations Revealed by Nanophotonic Ionization. Angewandte Chemie - International Edition, 2013, 52, 3650-3653.	13.8	57
33	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
34	Pore-scale hydrodynamics influence the spatial evolution of bacterial biofilms in a microfluidic porous network. PLoS ONE, 2019, 14, e0218316.	2.5	55
35	Characterization and Detection of Uranyl Ion Sorption on Silver Surfaces Using Surface Enhanced Raman Spectroscopy. Analytical Chemistry, 2009, 81, 8061-8067.	6.5	53
36	Slow light Machâ€“Zehnder interferometer as label-free biosensor with scalable sensitivity. Optics Letters, 2016, 41, 753.	3.3	52

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37	Developing titanium micro/nano porous layers on planar thin/tunable LGDLs for high-efficiency hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 14618-14628.	7.1	52
38	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
39	Î²-(1,3)-Glucan Unmasking in Some Candida albicans Mutants Correlates with Increases in Cell Wall Surface Roughness and Decreases in Cell Wall Elasticity. Infection and Immunity, 2017, 85, .	2.2	44
40	Microscale confinement features can affect biofilm formation. Microfluidics and Nanofluidics, 2013, 14, 895-902.	2.2	42
41	Optic imaging of single and two-phase pressure-driven flows in nano-scale channels. Lab on A Chip, 2013, 13, 1165.	6.0	42
42	Stochastic Assembly of Bacteria in Microwell Arrays Reveals the Importance of Confinement in Community Development. PLoS ONE, 2016, 11, e0155080.	2.5	42
43	Enhancing the Sensitivity of Label-Free Silicon Photonic Biosensors through Increased Probe Molecule Density. ACS Photonics, 2014, 1, 590-597.	6.6	41
44	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. Chemical Engineering Journal, 2021, 410, 128333.	12.7	40
45	Hydrodynamic trapping for rapid assembly and in situ electrical characterization of droplet interface bilayer arrays. Lab on A Chip, 2016, 16, 3576-3588.	6.0	39
46	Continuous protein production in nanoporous, picolitre volume containers. Lab on A Chip, 2011, 11, 3523.	6.0	38
47	Monodisperse alginate microgel formation in a three-dimensional microfluidic droplet generator. Biomicrofluidics, 2012, 6, 44108.	2.4	38
48	Antiferromagnetic Domain Reconfiguration in Embedded LaFeO₃ Thin Film Nanostructures. Nano Letters, 2010, 10, 4578-4583.	9.1	37
49	Microfluidics and Metabolomics Reveal Symbiotic Bacterialâ€“Fungal Interactions Between Mortierella elongata and Burkholderia Include Metabolite Exchange. Frontiers in Microbiology, 2019, 10, 2163.	3.5	37
50	Photonic crystal nanobeam biosensors based on porous silicon. Optics Express, 2019, 27, 9536.	3.4	36
51	Transport and Dispersion of Nanoparticles in Periodic Nanopost Arrays. ACS Nano, 2014, 8, 4221-4227.	14.6	35
52	Length scale of Leidenfrost ratchet switches droplet directionality. Nanoscale, 2014, 6, 9293-9299.	5.6	35
53	Grating couplers on porous silicon planar waveguides for sensing applications. Journal of Applied Physics, 2008, 104, 123113.	2.5	34
54	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

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55	Diffusive dynamics of nanoparticles in ultra-confined media. Soft Matter, 2015, 11, 7515-7524.	2.7	34
56	Comparison of the indentation and elasticity of E. coli and its spheroplasts by AFM. Ultramicroscopy, 2007, 107, 934-942.	1.9	33
57	Development and fabrication of nanoporous silicon-based bioreactors within a microfluidic chip. Lab on A Chip, 2010, 10, 1174.	6.0	33
58	Nanoscale lithography via electron beam induced deposition. Nanotechnology, 2008, 19, 505302.	2.6	32
59	The evaporation and wetting dynamics of sessile water droplets on submicron-scale patterned silicon hydrophobic surfaces. Journal of Micromechanics and Microengineering, 2010, 20, 055021.	2.6	31
60	Quantifying the Spatiotemporal Dynamics of Plant Root Colonization by Beneficial Bacteria in a Microfluidic Habitat. Advanced Biology, 2018, 2, 1800048.	3.0	31
61	Trace Analysis and Reaction Monitoring by Nanophotonic Ionization Mass Spectrometry from Elevated Bowtie and Silicon Nanopost Arrays. Advanced Functional Materials, 2018, 28, 1801730.	14.9	31
62	Plantâ€“Microbe Interactions: From Genes to Ecosystems Using Populus as a Model System. Phytobiomes Journal, 2021, 5, 29-38.	2.7	31
63	Resource Sharing Controls Gene Expression Bursting. ACS Synthetic Biology, 2017, 6, 334-343.	3.8	30
64	A Microfluidics and Agent-Based Modeling Framework for Investigating Spatial Organization in Bacterial Colonies: The Case of Pseudomonas Aeruginosa and H1-Type VI Secretion Interactions. Frontiers in Microbiology, 2018, 9, 33.	3.5	30
65	On-demand generation of monodisperse femtolitre droplets by shape-induced shear. Lab on A Chip, 2010, 10, 2688.	6.0	29
66	Crossover from Spin-Flop Coupling to Collinear Spin Alignment in Antiferromagnetic/Ferromagnetic Nanostructures. Nano Letters, 2012, 12, 2386-2390.	9.1	29
67	Bacterial Immobilization for Imaging by Atomic Force Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	28
68	Lectin-Functionalized Poly(glycidyl methacrylate)-block-poly(vinyldimethyl azlactone) Surface Scaffolds for High Avidity Microbial Capture. Biomacromolecules, 2013, 14, 3742-3748.	5.4	28
69	Spin-Flop Coupling and Exchange Bias in Embedded Complex Oxide Micromagnets. Physical Review Letters, 2013, 111, 107201.	7.8	28
70	Dynamic behavior of CH3NH3PbI3 perovskite twin domains. Applied Physics Letters, 2018, 113, .	3.3	27
71	Actuatable Membranes Based on Polypyrrole-Coated Vertically Aligned Carbon Nanofibers. ACS Nano, 2008, 2, 247-254.	14.6	26
72	An integrated portable Raman sensor with nanofabricated gold bowtie array substrates for energetics detection. Analyst, The, 2011, 136, 1697.	3.5	25

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73	Elevated gold ellipse nanoantenna dimers as sensitive and tunable surface enhanced Raman spectroscopy substrates. Nanoscale, 2016, 8, 5641-5648.	5.6	25
74	Constant pressure fluid infusion into rat neocortex from implantable microfluidic devices. Journal of Neural Engineering, 2008, 5, 385-391.	3.5	24
75	Effects of nanostructuring and substrate symmetry on antiferromagnetic domain structure in LaFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin films. Physical Review B, 2011, 84, .	3.2	24
76	Study on corrosion migrations within catalyst-coated membranes of proton exchangeÂmembrane electrolyzer cells. International Journal of Hydrogen Energy, 2017, 42, 27343-27349.	7.1	24
77	Surface Charge- and Space-Dependent Transport of Proteins in Crowded Environments of Nanotailored Posts. ACS Nano, 2010, 4, 3345-3355.	14.6	23
78	Aqueous two-phase microdroplets with reversible phase transitions. Lab on A Chip, 2013, 13, 1295.	6.0	23
79	Evaporation-Induced Buckling and Fission of Microscale Droplet Interface Bilayers. Journal of the American Chemical Society, 2013, 135, 5545-5548.	13.7	23
80	Cryogenic Etching of Silicon: An Alternative Method for Fabrication of Vertical Microcantilever Master Molds. Journal of Microelectromechanical Systems, 2010, 19, 64-74.	2.5	22
81	New surface radiolabeling schemes of super paramagnetic iron oxide nanoparticles (SPIONs) for biodistribution studies. Nanoscale, 2015, 7, 6545-6555.	5.6	22
82	Automated Interpretation and Extraction of Topographic Information from Time of Flight Secondary Ion Mass Spectrometry Data. Scientific Reports, 2017, 7, 17099.	3.3	21
83	Reply to: On the ferroelectricity of CH3NH3PbI3 perovskites. Nature Materials, 2019, 18, 1051-1053.	27.5	21
84	The effects of polydisperse crowders on the compaction of the Escherichia coli nucleoid. Molecular Microbiology, 2020, 113, 1022-1037.	2.5	21
85	Volume labeling with Alexa Fluor dyes and surface functionalization of highly sensitive fluorescent silica (SiO2) nanoparticles. Nanoscale, 2013, 5, 10369.	5.6	20
86	Strainâ€“Chemical Gradient and Polarization in Metal Halide Perovskites. Advanced Electronic Materials, 2020, 6, 1901235.	5.1	19
87	cAMP binding to closed pacemaker ion channels is non-cooperative. Nature, 2021, 595, 606-610.	27.8	18
88	Molecular transport in a crowded volume created from vertically aligned carbon nanofibres: a fluorescence recovery after photobleaching study. Nanotechnology, 2006, 17, 5659-5668.	2.6	17
89	Single cell swimming dynamics of Listeria monocytogenes using a nanoporous microfluidic platform. Lab on A Chip, 2014, 14, 938.	6.0	17
90	Label-free detection of HerceptinÂ® using suspended silicon microring resonators. Sensors and Actuators B: Chemical, 2018, 275, 394-401.	7.8	17

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91	Increasing access to microfluidics for studying fungi and other branched biological structures. Fungal Biology and Biotechnology, 2019, 6, 1.	5.1	17
92	Direct Casting of Polymer Membranes into Microfluidic Devices. Separation Science and Technology, 2004, 39, 2515-2530.	2.5	16
93	Length Scale Selects Directionality of Droplets on Vibrating Pillar Ratchet. Advanced Materials Interfaces, 2014, 1, 1400337.	3.7	16
94	Hotspots of root-exuded amino acids are created within a rhizosphere-on-a-chip. Lab on A Chip, 2022, 22, 954-963.	6.0	16
95	Assembly and Tracking of Microbial Community Development within a Microwell Array Platform. Journal of Visualized Experiments, 2017, , .	0.3	15
96	Accessing microfluidics through feature-based design software for 3D printing. PLoS ONE, 2018, 13, e0192752.	2.5	15
97	Characterization of cell surface and extracellular matrix remodeling of Azospirillum brasilense chemotaxis-like 1 signal transduction pathway mutants by atomic force microscopy. FEMS Microbiology Letters, 2011, 314, 131-139.	1.8	14
98	Elucidating Duramycinâ€™s Bacterial Selectivity and Mode of Action on the Bacterial Cell Envelope. Frontiers in Microbiology, 2018, 9, 219.	3.5	14
99	Size-selectivity and anomalous subdiffusion of nanoparticles through carbon nanofiber-based membranes. Nanotechnology, 2008, 19, 415301.	2.6	13
100	Microscale and nanoscale compartments for biotechnology. Current Opinion in Biotechnology, 2012, 23, 522-528.	6.6	13
101	The effect of retinal pigment epithelial cell patch size on growth factor expression. Biomaterials, 2014, 35, 3999-4004.	11.4	13
102	Characterization of small microfluidic valves for studies of mechanical properties of bacteria. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	1.2	13
103	Development of transparent microwell arrays for optical monitoring and dissection of microbial communities. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	13
104	Polarization- and wavelength-resolved near-field imaging of complex plasmonic modes in Archimedean nanospirals. Optics Letters, 2018, 43, 927.	3.3	13
105	Model for biological communication in a nanofabricated cell-mimic driven by stochastic resonance. Nano Communication Networks, 2011, 2, 39-49.	2.9	12
106	Enzyme Reactions in Nanoporous, Picoliter Volume Containers. Analytical Chemistry, 2012, 84, 1092-1097.	6.5	12
107	Label-free time- and space-resolved exometabolite sampling of growing plant roots through nanoporous interfaces. Scientific Reports, 2019, 9, 10272.	3.3	12
108	Identification of Critical Surface Parameters Driving Lectin-Mediated Capture of Bacteria from Solution. Biomacromolecules, 2019, 20, 2852-2863.	5.4	12

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109	Assessment of laser-induced thermal load on silicon nanostructures based on ion desorption yields. Applied Physics A: Materials Science and Processing, 2010, 101, 539-544.	2.3	11
110	Characterization of extended channel bioreactors for continuous-flow protein production. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	1.2	11
111	In-situ photopolymerization of monodisperse and discoid oxidized methacrylated alginate microgels in a microfluidic channel. Biomicrofluidics, 2016, 10, 011101.	2.4	11
112	Tailoring Spin Textures in Complex Oxide Micromagnets. ACS Nano, 2016, 10, 8545-8551.	14.6	11
113	Modeling root system growth around obstacles. Scientific Reports, 2020, 10, 15868.	3.3	10
114	Positional control of catalyst nanoparticles for the synthesis of high density carbon nanofiber arrays. Carbon, 2008, 46, 1378-1383.	10.3	9
115	Interfacial tension controlled fusion of individual femtolitre droplets and triggering of confined chemical reactions on demand. Lab on A Chip, 2010, 10, 3373.	6.0	9
116	Electric field induced bacterial flocculation of enteroaggregativeEscherichia coli042. Applied Physics Letters, 2011, 98, 253701.	3.3	9
117	Microstructured Block Copolymer Surfaces for Control of Microbe Adhesion and Aggregation. Biosensors, 2014, 4, 63-75.	4.7	9
118	Thermal conductivity of nano- and micro-crystalline diamond films studied by photothermal excitation of cantilever structures. Diamond and Related Materials, 2021, 113, 108279.	3.9	9
119	Effects of ultramicroelectrode dimensions on the electropolymerization of polypyrrole. Journal of Applied Physics, 2009, 105, 124312.	2.5	8
120	Controlling the switching field in nanomagnets by means of domain-engineered antiferromagnets. Physical Review B, 2015, 92, .	3.2	8
121	Microstencils to generate defined, multi-species patterns of bacteria. Biomicrofluidics, 2015, 9, 064103.	2.4	8
122	Investigation of titanium felt transport parameters for energy storage and hydrogen/oxygen production. , 2015, , .		8
123	Imaging the Root Hair Morphology of Arabidopsis Seedlings in a Two-layer Microfluidic Platform. Journal of Visualized Experiments, 2017, , .	0.3	8
124	Controlling antiferromagnetic domains in patterned La0.7Sr0.3FeO3 thin films. Journal of Applied Physics, 2020, 127, 203901.	2.5	8
125	Nanostructured silicon membranes for control of molecular transport. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6P48-C6P52.	1.2	7
126	Fabrication of nanoporous membranes for tuning microbial interactions and biochemical reactions. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 06FM03.	1.2	7

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127	Suspending DNA Origami Between Four Gold Nanodots. Small, 2016, 12, 169-173.	10.0	7
128	While-you-wait proteins? Producing biomolecules at the point of need. Expert Review of Proteomics, 2016, 13, 707-709.	3.0	7
129	Chemical copatterning strategies using azlactone-based block copolymers. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, .	1.2	7
130	Magnetic domain formation in ultrathin complex oxide ferromagnetic/antiferromagnetic bilayers. Applied Physics Letters, 2018, 113, .	3.3	7
131	In Situ Chemical Monitoring and Imaging of Contents within Microfluidic Devices Having a Porous Membrane Wall Using Liquid Microjunction Surface Sampling Probe Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 832-839.	2.8	7
132	Porous silicon waveguide with integrated grating coupler for DNA sensing. , 2009, , .		6
133	Layer-by-Layer Templated Assembly of Silica at the Nanoscale. Langmuir, 2013, 29, 2193-2199.	3.5	6
134	Sealable Femtoliter Chamber Arrays for Cell-free Biology. Journal of Visualized Experiments, 2015, , .	0.3	6
135	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
136	Cell free translation in engineered picoliter volume containers. , 2009, 2009, 1-4.		5
137	Suspended micro-ring resonator for enhanced biomolecule detection sensitivity. , 2014, , .		5
138	Synthetic Biology in Aqueous Compartments at the Micro- and Nanoscale. MRS Advances, 2017, 2, 2427-2433.	0.9	5
139	NÃ©el vector reorientation in ferromagnetic/antiferromagnetic complex oxide nanostructures. Applied Physics Letters, 2019, 114, .	3.3	5
140	Temperature dependence of ferromagnet-antiferromagnet spin alignment and coercivity in epitaxial micromagnet bilayers. Physical Review Materials, 2017, 1, .	2.4	5
141	Total internal reflection enabled wide-field coherent anti-Stokes Raman scattering microscopy. Optics Letters, 2020, 45, 3087.	3.3	5
142	Atomic layer deposition TiO2â€“Al2O3 stack: An improved gate dielectric on Ga-polar GaN metal oxide semiconductor capacitors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 060602.	1.2	4
143	Interplay between bulk and edge-bound topological defects in a square micromagnet. Applied Physics Letters, 2018, 112, .	3.3	4
144	High spatial and energy resolution electron energy loss spectroscopy of the magnetic and electric excitations in plasmonic nanorod oligomers. Optics Express, 2021, 29, 4661.	3.4	4

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145	Harnessing autocatalytic reactions in polymerization and depolymerization. MRS Communications, 2021, 11, 377-390.	1.8	4
146	Gratings on porous silicon structures for sensing applications. , 2009, , .		3
147	The influence of ion-milling damage to magnetic properties of Co₈₀Pt₂₀patterned perpendicular media. Journal Physics D: Applied Physics, 2014, 47, 105001.	2.8	3
148	Multi-Model Imaging of Local Chemistry and Ferroic Properties of Hybrid Organic-Inorganic Perovskites. Microscopy and Microanalysis, 2019, 25, 2076-2077.	0.4	3
149	Quenching of initial ac susceptibility in single-domain Ni nanobars. Physical Review B, 2012, 85, .	3.2	2
150	Nanofluidic interfaces in microfluidic networks. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 06FM01.	1.2	2
151	Formation of Complex Spin Textures in Thermally Demagnetized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Artificial Spin-Ice Structures. Physical Review Applied, 2022, 17, .	3.8	2
152	Tele-immersive product evaluation: a review and an implementation framework. Robotics and Computer-Integrated Manufacturing, 2000, 16, 181-190.	9.9	1
153	â€œOn-Chipâ€•NanoFabricated Collagen Membranes Observed by High-Voltage Electron Microscopy. Microscopy and Microanalysis, 2002, 8, 1118-1119.	0.4	1
154	Evaporation Characteristics of Sessile Droplets on Nano-Patterned Hydrophobic Surfaces. Journal of Heat Transfer, 2010, 132, .	2.1	1
155	Analysis of tight junction formation and integrity. , 2012, 2012, 3724-7.		1
156	Adhesion and Formation of Microbial Biofilms in Complex Microfluidic Devices. , 2012, , .		1
157	Nano-Enabled Approaches to Chemical Imaging in Biosystems. Annual Review of Analytical Chemistry, 2018, 11, 351-373.	5.4	1
158	A Very Low-Cost, Labor-Efficient, and Simple Method to Block Scattered Ultraviolet Light in PDMS Microfluidic Devices by Inserting Aluminum Foil Strips. Journal of Thermal Science and Engineering Applications, 2019, 11, .	1.5	1
159	In situ electron-beam processing and cathodoluminescence microscopy for quantum nanophotonics. , 2021, , .		1
160	Modular Approach for the Synthesis of Bottlebrush Diblock Copolymers from Poly(Glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td 488-497.	4.8	1
161	Photonic crystal slab and waveguide design for biological detection. Proceedings of SPIE, 2009, , .	0.8	0
162	Towards the World Smallest Chemical Reactors: On-Demand Generation and Fusion of Femtoliter Aqueous Droplets. Biophysical Journal, 2011, 100, 607a.	0.5	0

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163	Interfacial Tension Controlled Fusion of Individual Femtoliter Droplets and Triggering of Confined Chemical Reactions on Demand. Biophysical Journal, 2011, 100, 522a.	0.5	0
164	In Vivo Toxicity of Titanium Dioxide and Gold Nanoparticles. , 2012, , 1083-1090.		0
165	Bioadhesives. , 2012, , 194-201.		0
166	Bacterial Electrical Conduction. , 2012, , 173-173.		0
167	Insect Flight and Micro Air Vehicles (MAVs). , 2012, , 1096-1109.		0
168	Developing in vitro models of the sub-retinal microenvironment. , 2013, , .		0
169	Microfluidics-based separation of actinium-225 from radium-225 for medical applications. Separation Science and Technology, 2019, 54, 1994-2002.	2.5	0
170	Integration of Nanostructures Within Microfluidic Devices. , 2016, , 1671-1678.		0
171	Biofilms in Microfluidic Devices. , 2016, , 251-257.		0