

Li Zhang

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.

258
papers

14,883
citations

60
h-index

117
g-index

293
ext. papers

18,091
ext. citations

8.9
avg, IF

7.18
L-index

#	Paper	IF	Citations
258	3D printing of functional polymers for miniature machines. <i>Multifunctional Materials</i> , 2022 , 5, 012001	5.2	0
257	In Vitro Biosensing Using Micro-/Nanomachines 2022 , 243-268		1
256	Real-Time Ultrasound Doppler Tracking and Autonomous Navigation of a Miniature Helical Robot for Accelerating Thrombolysis in Dynamic Blood Flow.. <i>ACS Nano</i> , 2022 ,	16.7	6
255	Magnetic helical micro-/nanomachines: Recent progress and perspective. <i>Matter</i> , 2022 , 5, 77-109	12.7	11
254	Magnetic Actuation of a Dynamically Reconfigurable Microswarm for Enhanced Ultrasound Imaging Contrast. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	1
253	Decoupling and Reprogramming the Wiggling Motion of Midge Larvae Using a Soft Robotic Platform.. <i>Advanced Materials</i> , 2022 , e2109126	24	4
252	Mobile Ultrasound Tracking and Magnetic Control for Long-Distance Endovascular Navigation of Untethered Miniature Robots against Pulsatile Flow. <i>Advanced Intelligent Systems</i> , 2022 , 4, 2270012	6	
251	Magnetic Microswarm and Fluoroscopy-Guided Platform for Biofilm Eradication in Biliary Stents.. <i>Advanced Materials</i> , 2022 , e2201888	24	9
250	Magnetically Actuated Medical Robots: An in vivo Perspective. <i>Proceedings of the IEEE</i> , 2022 , 1-10	14.3	3
249	Simultaneous Actuation and Localization of Magnetic Robots Using Mobile Coils and Eye-In-Hand Hall-Effect Sensors 2021 ,		2
248	Collective Behaviors of Magnetic Active Matter: Recent Progress toward Reconfigurable, Adaptive, and Multifunctional Swarming Micro/Nanorobots.. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	6
247	Ultrasound-Guided Catheterization Using a Driller-Tipped Guidewire With Combined Magnetic Navigation and Drilling Motion. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-12	5.5	4
246	Adaptive Pattern and Motion Control of Magnetic Microrobotic Swarms. <i>IEEE Transactions on Robotics</i> , 2021 , 1-19	6.5	2
245	A Survey on Swarm Microrobotics. <i>IEEE Transactions on Robotics</i> , 2021 , 1-21	6.5	5
244	Intelligent Soft Actuators and Flexible Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100173	6	0
243	Independent Pattern Formation of Nanorod and Nanoparticle Swarms under an Oscillating Field. <i>ACS Nano</i> , 2021 , 15, 4429-4439	16.7	12
242	Magnetically Driven Micro and Nanorobots. <i>Chemical Reviews</i> , 2021 , 121, 4999-5041	68.1	104

241	Endoscopy-assisted magnetic navigation of biohybrid soft microrobots with rapid endoluminal delivery and imaging. <i>Science Robotics</i> , 2021 , 6,	18.6	60
240	Propulsion Gait Analysis and Fluidic Trapping of Swinging Flexible Nanomotors. <i>ACS Nano</i> , 2021 , 15, 5118-5128	16	16
239	Accelerating the Fenton Reaction with a Magnetic Microswarm for Enhanced Water Remediation. <i>ChemNanoMat</i> , 2021 , 7, 600-606	3.5	3
238	Magnetic Control of a Steerable Guidewire Under Ultrasound Guidance Using Mobile Electromagnets. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1280-1287	4.2	19
237	Closed-Loop Control of a Helmholtz Coil System for Accurate Actuation of Magnetic Microrobot Swarms. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 827-834	4.2	10
236	Fabrication of Rambutan-like Activated Carbon Sphere/Carbon Nanotubes and Their Application as Supercapacitors. <i>Energy & Fuels</i> , 2021 , 35, 8313-8320	4.1	5
235	Tethered and Untethered 3D Microactuators Fabricated by Two-Photon Polymerization: A Review. <i>Micromachines</i> , 2021 , 12,	3.3	12
234	On-Demand Assembly and Disassembly of a 3D Swimming Magnetic Mini-Propeller With Two Modules. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6008-6015	4.2	1
233	Motion Control in Magnetic Microrobotics: From Individual and Multiple Robots to Swarms. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021 , 4, 509-534	11.8	28
232	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. <i>Advanced Materials</i> , 2021 , 33, e2002047	24	97
231	An optimization approach for fabricating electrospun nanofiber air filters with minimized pressure drop for indoor PM2.5 control. <i>Building and Environment</i> , 2021 , 188, 107449	6.5	13
230	Design and Real-Time Optimization for a Magnetic Actuation System With Enhanced Flexibility. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1524-1535	5.5	11
229	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	9
228	Magnetic Navigation of Collective Cell Microrobots in Blood Under Ultrasound Doppler Imaging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-12	5.5	3
227	Ultrasound Doppler-guided real-time navigation of a magnetic microswarm for active endovascular delivery. <i>Science Advances</i> , 2021 , 7,	14.3	63
226	Magnetic Microswarm Composed of Porous Nanocatalysts for Targeted Elimination of Biofilm Occlusion. <i>ACS Nano</i> , 2021 , 15, 5056-5067	16.7	26
225	Encryption/decryption and microtarget capturing by pH-driven Janus microstructures fabricated by the same femtosecond laser printing parameters. <i>International Journal of Extreme Manufacturing</i> , 2021 , 3, 025001	7.9	5
224	Tribo-charge enhanced hybrid air filter masks for efficient particulate matter capture with greatly extended service life. <i>Nano Energy</i> , 2021 , 85, 106015	17.1	11

223	Soft Untethered Robots and Grippers Based on Humidity-Gated Magnetic-Responsive Film Actuators. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4726-4734	4.3	2
222	A mobile magnetic pad with fast light-switchable adhesion capabilities. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	5
221	Domino Reaction Encoded Heterogeneous Colloidal Microswarm with On-Demand Morphological Adaptability. <i>Advanced Materials</i> , 2021 , 33, e2100070	24	20
220	A magnetically controlled soft miniature robotic fish with a flexible skeleton inspired by zebrafish. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	4
219	Multi-stimuli-response programmable soft actuators with site-specific and anisotropic deformation behavior. <i>Nano Energy</i> , 2021 , 88, 106254	17.1	6
218	Reconfigurable Magnetic Microswarm for Accelerating tPA-Mediated Thrombolysis under Ultrasound Imaging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	6
217	External Power-Driven Microrobotic Swarm: From Fundamental Understanding to Imaging-Guided Delivery. <i>ACS Nano</i> , 2021 , 15, 149-174	16.7	40
216	Micromanipulation Using Reconfigurable Self-Assembled Magnetic Droplets With Needle Guidance. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-13	4.9	3
215	Dynamic changes of region-specific cortical features and scalp-to-cortex distance: implications for transcranial current stimulation modeling. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 2	5.3	3
214	Micro-/Nanorobots in Antimicrobial Applications: Recent Progress, Challenges, and Opportunities.. <i>Advanced Healthcare Materials</i> , 2021 , e2101991	10.1	5
213	Chimeric crRNA improves CRISPR-Cas12a specificity in the N501Y mutation detection of Alpha, Beta, Gamma, and Mu variants of SARS-CoV-2.. <i>PLoS ONE</i> , 2021 , 16, e0261778	3.7	0
212	Real-Time Magnetic Navigation of a Rotating Colloidal Microswarm Under Ultrasound Guidance. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 3403-3412	5	34
211	Light-Driven Hovering of a Magnetic Microswarm in Fluid. <i>ACS Nano</i> , 2020 , 14, 6990-6998	16.7	35
210	Ultrasound Imaging and Tracking of Micro/Nanorobots: From Individual to Collectives. <i>IEEE Open Journal of Nanotechnology</i> , 2020 , 1, 6-17	2.1	21
209	Influence of nanofiber window screens on indoor PM2.5 of outdoor origin and ventilation rate: An experimental and modeling study. <i>Building Simulation</i> , 2020 , 13, 873-886	3.9	6
208	Stimuli-Responsive Actuator Fabricated by Dynamic Asymmetric Femtosecond Bessel Beam for Particle and Cell Manipulation. <i>ACS Nano</i> , 2020 , 14, 5233-5242	16.7	44
207	Magnetic Actuation Systems for Miniature Robots: A Review. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000082	0	60
206	Nanogap Plasmonic Structures Fabricated by Switchable Capillary-Force Driven Self-Assembly for Localized Sensing of Anticancer Medicines with Microfluidic SERS. <i>Advanced Functional Materials</i> , 2020 , 30, 1909467	15.6	53

205	Four-dimensional micro-building blocks. <i>Science Advances</i> , 2020 , 6, eaav8219	14.3	47
204	Electrostatically Fabricated Three-Dimensional Magnetite and MXene Hierarchical Architecture for Advanced Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9226-9235	9.5	20
203	Magnetically Powered Biodegradable Microswimmers. <i>Micromachines</i> , 2020 , 11,	3.3	15
202	3-D Visual Servoing of Magnetic Miniature Swimmers Using Parallel Mobile Coils. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 608-618	3.1	9
201	Light-Triggered Catalytic Performance Enhancement Using Magnetic Nanomotor Ensembles. <i>Research</i> , 2020 , 2020, 6380794	7.8	13
200	Effective removal of particles down to 15 nm using scalable metal-organic framework-based nanofiber filters. <i>Applied Materials Today</i> , 2020 , 20, 100653	6.6	13
199	A general anion exchange strategy to transform metal-organic framework embedded nanofibers into high-performance lithium-ion capacitors. <i>Nano Energy</i> , 2020 , 75, 104935	17.1	9
198	Botanical-Inspired 4D Printing of Hydrogel at the Microscale. <i>Advanced Functional Materials</i> , 2020 , 30, 1907377	15.6	76
197	. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 254-270	6.5	32
196	Influence of fiber diameter, filter thickness, and packing density on PM2.5 removal efficiency of electrospun nanofiber air filters for indoor applications. <i>Building and Environment</i> , 2020 , 170, 106628	6.5	49
195	Disassembly and spreading of magnetic nanoparticle clusters on uneven surfaces. <i>Applied Materials Today</i> , 2020 , 18, 100489	6.6	28
194	A Mobile Paramagnetic Nanoparticle Swarm with Automatic Shape Deformation Control 2020 ,		3
193	Reconfigurable Magnetic Microswarm for Thrombolysis under Ultrasound Imaging 2020 ,		8
192	Large-Workspace and High-Resolution Magnetic Microrobot Navigation Using Global-Local Path Planning and Eye-in-Hand Visual Servoing 2020 ,		2
191	Graphene-Based Helical Micromotors Constructed by "Microscale Liquid Rope-Coil Effect" with Microfluidics. <i>ACS Nano</i> , 2020 ,	16.7	28
190	Eye-in-Hand 3D Visual Servoing of Helical Swimmers Using Parallel Mobile Coils 2020 ,		3
189	Closed-Loop Control of a Helmholtz Coils System for 3-axis Magnetic Field Generation with High Precision 2020 ,		1
188	RoboMag: A Magnetic Actuation System Based on Mobile Electromagnetic Coils With Tunable Working Space 2020 ,		4

187	Intelligent Polymer-Based Bioinspired Actuators: From Monofunction to Multifunction. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000138	6	21
186	Four-dimensional direct laser writing of reconfigurable compound micromachines. <i>Materials Today</i> , 2020 , 32, 19-25	21.8	74
185	Automated Control of Magnetic Spore-Based Microrobot Using Fluorescence Imaging for Targeted Delivery With Cellular Resolution. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 490-501	4.9	30
184	An Automated Microrobotic Platform for Rapid Detection of <i>C. diff</i> Toxins. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1517-1527	5	17
183	Bioinspired Superhydrophobic Surface Constructed from Hydrophilic Building Blocks: A Case Study of Core-Shell Polypyrrole-Coated Copper Nanoneedles. <i>Coatings</i> , 2020 , 10, 347	2.9	1
182	Targeted Single-Cell Therapeutics with Magnetic Tubular Micromotor by One-Step Exposure of Structured Femtosecond Optical Vortices. <i>Advanced Functional Materials</i> , 2019 , 29, 1905745	15.6	29
181	Reconfigurable Colloidal Microrobotic Swarm for Targeted Delivery 2019 ,		1
180	Bubble-Assisted Three-Dimensional Ensemble of Nanomotors for Improved Catalytic Performance. <i>IScience</i> , 2019 , 19, 760-771	6.1	19
179	Micro/Nanomachines: from Functionalization to Sensing and Removal. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800636	6.8	55
178	Mimicking the Structure and Function of Ant Bridges in a Reconfigurable Microswarm for Electronic Applications. <i>ACS Nano</i> , 2019 , 13, 5999-6007	16.7	44
177	Self-assembly of nanoparticles. <i>Materials Today</i> , 2019 , 25, 112-113	21.8	3
176	Dynamic Morphology and Swimming Properties of Rotating Miniature Swimmers With Soft Tails. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 924-934	5.5	57
175	On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. <i>Advanced Science</i> , 2019 , 6, 1802033	13.6	24
174	Hydrophobicity Influence on Swimming Performance of Magnetically Driven Miniature Helical Swimmers. <i>Micromachines</i> , 2019 , 10,	3.3	8
173	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1208-1219	5.5	20
172	Optimization of Organic/Water Hybrid Electrolytes for High-Rate Carbon-Based Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1904136	15.6	56
171	DeltaMag: An Electromagnetic Manipulation System with Parallel Mobile Coils 2019 ,		24
170	Characterizing Nanoparticle Swarms With Tuneable Concentrations for Enhanced Imaging Contrast. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2942-2949	4.2	17

169	Optimal Control of a 3-axis Helmholtz Coils System for Generation of Dynamic Magnetic Field Waveforms with High Accuracy 2019 ,		2
168	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019 , 15, 242-251	6.6	28
167	Magnetic-Needle-Assisted Micromanipulation of Dynamically Self-Assembled Magnetic Droplets for Cargo Transportation 2019 ,		2
166	Active generation and magnetic actuation of microrobotic swarms in bio-fluids. <i>Nature Communications</i> , 2019 , 10, 5631	17.4	103
165	Tunable microfluidic device fabricated by femtosecond structured light for particle and cell manipulation. <i>Lab on A Chip</i> , 2019 , 19, 3988-3996	7.2	8
164	Collective Behavior of Reconfigurable Magnetic Droplets via Dynamic Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1630-1637	9.5	42
163	Real-time tracking of fluorescent magnetic spore-based microrobots for remote detection of toxins. <i>Science Advances</i> , 2019 , 5, eaau9650	14.3	103
162	In-situ encapsulation of pseudocapacitive Li ₂ TiSiO ₅ nanoparticles into fibrous carbon framework for ultrafast and stable lithium storage. <i>Nano Energy</i> , 2019 , 55, 173-181	17.1	39
161	Reversible Swelling and Shrinking of Paramagnetic Nanoparticle Swarms in Biofluids With High Ionic Strength. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 154-163	5.5	15
160	Controllable rotational inversion in nanostructures with dual chirality. <i>Nanoscale</i> , 2018 , 10, 6343-6348	7.7	7
159	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5909-5913	16.4	50
158	Nonlinear Parametric Excitation Effect Induces Stability Transitions in Swimming Direction of Flexible Superparamagnetic Microswimmers. <i>Soft Robotics</i> , 2018 , 5, 389-398	9.2	10
157	Electrospun SF/PVA Nanofiber Filters for Highly Efficient PM $_{2.5}$ Capture. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 934-939	2.6	26
156	Scalable and sustainable synthesis of carbon microspheres via a purification-free strategy for sodium-ion capacitors. <i>Journal of Power Sources</i> , 2018 , 379, 33-40	8.9	32
155	Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia. <i>Advanced Functional Materials</i> , 2018 , 28, 1705701	15.6	73
154	Analysis of micro-fluidic tweezers in the Stokes regime. <i>Physics of Fluids</i> , 2018 , 30, 032006	4.4	3
153	Model-Free Trajectory Tracking Control of Two-Particle Magnetic Microrobot. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 697-700	2.6	32
152	Relationship between pressure drop and face velocity for electrospun nanofiber filters. <i>Energy and Buildings</i> , 2018 , 158, 987-999	7	53

151	Experimental and modeling study of pressure drop across electrospun nanofiber air filters. <i>Building and Environment</i> , 2018 , 142, 244-251	6.5	40
150	Pattern generation and motion control of a vortex-like paramagnetic nanoparticle swarm. <i>International Journal of Robotics Research</i> , 2018 , 37, 912-930	5.7	77
149	Metal-organic framework-based nanofiber filters for effective indoor air quality control. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15807-15814	13	110
148	Ultra-extensible ribbon-like magnetic microswarm. <i>Nature Communications</i> , 2018 , 9, 3260	17.4	183
147	Colloidal Particles: Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia (Adv. Funct. Mater. 25/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870174	15.6	1
146	Graphene-coupled Ti ₃ C ₂ MXenes-derived TiO ₂ mesostructure: promising sodium-ion capacitor anode with fast ion storage and long-term cycling. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1017-1027	13	105
145	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. <i>Science China Materials</i> , 2018 , 61, 285-295	7.1	24
144	Magnetic Navigation of a Rotating Colloidal Swarm Using Ultrasound Images 2018 ,		14
143	A Magnetically-Triggered Soft Capsule for On-Demand Mucus Collection 2018 ,		4
142	Enhanced Removal of Toxic Heavy Metals Using Swarming Biohybrid Adsorbents. <i>Advanced Functional Materials</i> , 2018 , 28, 1806340	15.6	73
141	Automated Control of Multifunctional Magnetic Spores Using Fluorescence Imaging for Microrobotic Cargo Delivery 2018 ,		3
140	Interband cascade laser absorption sensor for real-time monitoring of formaldehyde filtration by a nanofiber membrane. <i>Applied Optics</i> , 2018 , 57, 8005-8010	1.7	5
139	Self-Assembly of 1D Helical Nanostructures into Higher Order Chiral Nanostructures in Supramolecular Systems. <i>ChemNanoMat</i> , 2018 , 4, 720-729	3.5	10
138	Caging Nb O Nanowires in PECVD-Derived Graphene Capsules toward Bendable Sodium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , 2018 , 30, e1800963	24	126
137	Spore-derived color-tunable multi-doped carbon nanodots as sensitive nanosensors and intracellular imaging agents. <i>Sensors and Actuators B: Chemical</i> , 2018 , 271, 128-136	8.5	16
136	Sodium storage in a promising MoS ₂ -carbon anode: elucidating structural and interfacial transitions in the intercalation process and conversion reactions. <i>Nanoscale</i> , 2018 , 10, 11165-11175	7.7	24
135	Magnetically Tuning Tether Mobility of Integrin Ligand Regulates Adhesion, Spreading, and Differentiation of Stem Cells. <i>Nano Letters</i> , 2017 , 17, 1685-1695	11.5	75
134	Sulfated hyaluronic acid hydrogels with retarded degradation and enhanced growth factor retention promote hMSC chondrogenesis and articular cartilage integrity with reduced hypertrophy. <i>Acta Biomaterialia</i> , 2017 , 53, 329-342	10.8	96

133	A method for assessing the performance of nanofiber films coated on window screens in reducing residential exposures to PM of outdoor origin in Beijing. <i>Indoor Air</i> , 2017 , 27, 1190-1200	5.4	32
132	. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 1213-1225	6.5	66
131	Selective surface tension induced patterning on flexible textiles via click chemistry. <i>Nanoscale</i> , 2017 , 9, 4777-4786	7.7	6
130	Edge effect of strained bilayer nanofilms for tunable multistability and actuation. <i>Nanoscale</i> , 2017 , 9, 2958-2962	7.7	11
129	Highly Acid-Resistant, Magnetically Steerable Acoustic Micromotors Prepared by Coating Gold Microrods with Fe ₃ O ₄ Nanoparticles via pH Adjustment. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600277	3.1	19
128	Characterizing dynamic behaviors of three-particle paramagnetic microswimmer near a solid surface. <i>Robotics and Biomimetics</i> , 2017 , 4, 20		3
127	Characterising of mobile vortex-like paramagnetic nanoparticle swarm: From a single vortex to multiple vortices 2017 ,		3
126	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS ₂ -Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32745-32755	9.5	118
125	Mobile paramagnetic nanoparticle-based vortex for targeted cargo delivery in fluid 2017 ,		3
124	Engineering layer structure of MoS ₂ -graphene composites with robust and fast lithium storage for high-performance Li-ion capacitors. <i>Energy Storage Materials</i> , 2017 , 9, 195-205	19.4	127
123	Highly porous carbon with large electrochemical ion absorption capability for high-performance supercapacitors and ion capacitors. <i>Nanotechnology</i> , 2017 , 28, 445406	3.4	13
122	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017 , 2,	18.6	393
121	A Miniature Flexible-Link Magnetic Swimming Robot With Two Vibration Modes: Design, Modeling and Characterization. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 2024-2031	4.2	27
120	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 292-302	13	90
119	Coupling effect between ultra-small Mn ₃ O ₄ nanoparticles and porous carbon microrods for hybrid supercapacitors. <i>Energy Storage Materials</i> , 2017 , 6, 53-60	19.4	54
118	Dumbbell Fluidic Tweezers for Dynamical Trapping and Selective Transport of Microobjects. <i>Advanced Functional Materials</i> , 2017 , 27, 1604571	15.6	42
117	Rotating soft-tail millimeter-scaled swimmers with superhydrophilic or superhydrophobic surfaces 2016 ,		6
116	Fabrication and Manipulation of Ciliary Microrobots with Non-reciprocal Magnetic Actuation. <i>Scientific Reports</i> , 2016 , 6, 30713	4.9	74

115	Transdermal Delivery of siRNA through Microneedle Array. <i>Scientific Reports</i> , 2016 , 6, 21422	4.9	44
114	Massive Fabrication of Polymer Microdiscs by Phase Separation and Freestanding Process. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16296-302	9.5	8
113	Steering micro-robotic swarm by dynamic actuating fields 2016 ,		4
112	Nanostructured nickel-cobalt sulfide grown on nickel foam directly as supercapacitor electrodes with high specific capacitance. <i>Materials Chemistry and Physics</i> , 2016 , 173, 317-324	4.4	37
111	Nano-patterned SU-8 surface using nanosphere-lithography for enhanced neuronal cell growth. <i>Nanotechnology</i> , 2016 , 27, 175303	3.4	12
110	Engineering of highly ordered TiO ₂ nanopore arrays by anodization. <i>Applied Surface Science</i> , 2016 , 377, 335-339	6.7	9
109	Full synergistic contribution of electrodeposited three-dimensional NiCo ₂ O ₄ @MnO ₂ nanosheet networks electrode for asymmetric supercapacitors. <i>Nano Energy</i> , 2016 , 27, 627-637	17.1	194
108	Encapsulation architecture for energy storage. <i>Materials Today</i> , 2015 , 18, 352-353	21.8	6
107	Mechanical properties of normal and binormal double nanohelices. <i>RSC Advances</i> , 2015 , 5, 4069-4076	3.7	3
106	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. <i>Nano Letters</i> , 2015 , 15, 6592-600	11.5	36
105	Residual stress in spin-cast polyurethane thin films. <i>Applied Physics Letters</i> , 2015 , 106, 033102	3.4	4
104	A variable-width harmonic probe for multifrequency atomic force microscopy. <i>Applied Physics Letters</i> , 2015 , 106, 071901	3.4	21
103	Controlled Construction of Hierarchical Nanocomposites Consisting of MnO ₂ and PEDOT for High-Performance Supercapacitor Applications. <i>ChemElectroChem</i> , 2015 , 2, 949-957	4.3	27
102	Magnetic control of AMB-1 magnetotactic bacteria for micromanipulation 2015 ,		1
101	Controlled Construction of Hierarchical Nanocomposites Consisting of MnO ₂ and PEDOT for High-Performance Supercapacitor Applications. <i>ChemElectroChem</i> , 2015 , 2, 913-913	4.3	
100	Nanorobotic Manipulation of Helical Nanostructures. <i>Advanced Micro & Nanosystems</i> , 2015 , 477-503		
99	Self-propelled magnesium based micromotors: synthesis and magnetic steering. <i>MATEC Web of Conferences</i> , 2015 , 32, 04004	0.3	2
98	Design and optimization of a harmonic probe with step cross section in multifrequency atomic force microscopy. <i>Review of Scientific Instruments</i> , 2015 , 86, 125007	1.7	9

97	Morphologies and swimming characteristics of rotating magnetic swimmers with soft tails at low Reynolds numbers 2015 ,		3
96	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015 , 25, 5333-5342	15.6	167
95	Bioinspired Superhydrophobic Fe ₃ O ₄ @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500234	4.6	67
94	Magnetic Actuation Based Motion Control for Microrobots: An Overview. <i>Micromachines</i> , 2015 , 6, 1346-1364	3.64	110
93	Molecular dynamics simulation of deformation accumulation in repeated nanometric cutting on single-crystal copper. <i>RSC Advances</i> , 2015 , 5, 12678-12685	3.7	22
92	Microscale flowers. <i>Materials Today</i> , 2015 , 18, 410-411	21.8	2
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