

Li Zhang

List of Publications by Citations

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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	Erythrocyte membrane-camouflaged polymeric nanoparticles as a biomimetic delivery platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10980-5	11.5	1267
257	Magnetic helical micromachines: fabrication, controlled swimming, and cargo transport. <i>Advanced Materials</i> , 2012 , 24, 811-6	24	777
256	Artificial bacterial flagella: Fabrication and magnetic control. <i>Applied Physics Letters</i> , 2009 , 94, 064107	3.4	728
255	Highly conductive NiCoS ₂ urchin-like nanostructures for high-rate pseudocapacitors. <i>Nanoscale</i> , 2013 , 5, 8879-83	7.7	726
254	Bio-inspired magnetic swimming microrobots for biomedical applications. <i>Nanoscale</i> , 2013 , 5, 1259-72	7.7	494
253	All-solid-state flexible ultrathin micro-supercapacitors based on graphene. <i>Advanced Materials</i> , 2013 , 25, 4035-42	24	449
252	How Should Microrobots Swim?. <i>International Journal of Robotics Research</i> , 2009 , 28, 1434-1447	5.7	442
251	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017 , 2,	18.6	393
250	Characterizing the swimming properties of artificial bacterial flagella. <i>Nano Letters</i> , 2009 , 9, 3663-7	11.5	365
249	Fabrication and characterization of magnetic microrobots for three-dimensional cell culture and targeted transportation. <i>Advanced Materials</i> , 2013 , 25, 5863-8	24	267
248	Magnetic Helical Microswimmers Functionalized with Lipoplexes for Targeted Gene Delivery. <i>Advanced Functional Materials</i> , 2015 , 25, 1666-1671	15.6	228
247	Artificial bacterial flagella for micromanipulation. <i>Lab on A Chip</i> , 2010 , 10, 2203-15	7.2	225
246	Controlled propulsion and cargo transport of rotating nickel nanowires near a patterned solid surface. <i>ACS Nano</i> , 2010 , 4, 6228-34	16.7	216
245	Facilely synthesized porous NiCo ₂ O ₄ flowerlike nanostructure for high-rate supercapacitors. <i>Journal of Power Sources</i> , 2014 , 248, 28-36	8.9	210
244	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
243	Ultra-extensible ribbon-like magnetic microswarm. <i>Nature Communications</i> , 2018 , 9, 3260	17.4	183
242	Facile synthesis of graphite/PEDOT/MnO ₂ composites on commercial supercapacitor separator membranes as flexible and high-performance supercapacitor electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10506-15	9.5	180

241	Magnetic helical micromachines. <i>Chemistry - A European Journal</i> , 2013 , 19, 28-38	4.8	173
240	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015 , 25, 5333-5342	15.6	167
239	Nanorobotic spot welding: controlled metal deposition with attogram precision from copper-filled carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 58-63	11.5	155
238	Artificial bacterial flagella for remote-controlled targeted single-cell drug delivery. <i>Small</i> , 2014 , 10, 1953-1957	11.5	150
237	Anomalous coiling of SiGe/Si and SiGe/Si/Cr helical nanobelts. <i>Nano Letters</i> , 2006 , 6, 1311-7	11.5	141
236	Hierarchical Co ₃ O ₄ @PPy@MnO ₂ core-shell nanowire arrays for enhanced electrochemical energy storage. <i>Nano Energy</i> , 2014 , 7, 42-51	17.1	139
235	Selective trapping and manipulation of microscale objects using mobile microvortices. <i>Nano Letters</i> , 2012 , 12, 156-60	11.5	129
234	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
233	Caging Nb O Nanowires in PECVD-Derived Graphene Capsules toward Bendable Sodium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , 2018 , 30, e1800963	24	126
232	Fabrication and characterization of three-dimensional InGaAs/GaAs nanosprings. <i>Nano Letters</i> , 2006 , 6, 725-9	11.5	124
231	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS-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
230	Controllable fabrication of SiGe/Si and SiGe/Si/Cr helical nanobelts. <i>Nanotechnology</i> , 2005 , 16, 655-663	3.4	113
229	Synthesis and characterization of a nanocomposite of goethite nanorods and reduced graphene oxide for electrochemical capacitors. <i>Journal of Solid State Chemistry</i> , 2012 , 185, 191-197	3.3	111
228	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
227	Magnetic Actuation Based Motion Control for Microrobots: An Overview. <i>Micromachines</i> , 2015 , 6, 1346-1364	13.64	110
226	Facile fabrication and characterization of multi-type carbon-doped TiO ₂ for visible light-activated photocatalytic mineralization of gaseous toluene. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4497	13	110
225	Targeted cargo delivery using a rotating nickel nanowire. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 1074-80	6	105
224	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

223	Magnetically Driven Micro and Nanorobots. <i>Chemical Reviews</i> , 2021 , 121, 4999-5041	68.1	104
222	Active generation and magnetic actuation of microrobotic swarms in bio-fluids. <i>Nature Communications</i> , 2019 , 10, 5631	17.4	103
221	Real-time tracking of fluorescent magnetic spore-based microrobots for remote detection of toxins. <i>Science Advances</i> , 2019 , 5, eaau9650	14.3	103
220	Asymmetric electrochemical capacitors with high energy and power density based on graphene/CoAl-LDH and activated carbon electrodes. <i>RSC Advances</i> , 2013 , 3, 2483	3.7	100
219	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. <i>Advanced Materials</i> , 2021 , 33, e2002047	24	97
218	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
217	Synthesis of multi-branched porous carbon nanofibers and their application in electrochemical double-layer capacitors. <i>Carbon</i> , 2006 , 44, 1425-1428	10.4	92
216	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
215	Artificial bacterial flagella functionalized with temperature-sensitive liposomes for controlled release. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 676-681	8.5	89
214	Transition metal oxide and graphene nanocomposites for high-performance electrochemical capacitors. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16331-7	3.6	89
213	Superparamagnetic microrobots: fabrication by two-photon polymerization and biocompatibility. <i>Biomedical Microdevices</i> , 2013 , 15, 997-1003	3.7	82
212	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
211	Botanical-Inspired 4D Printing of Hydrogel at the Microscale. <i>Advanced Functional Materials</i> , 2020 , 30, 1907377	15.6	76
210	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
209	Fabrication and Manipulation of Ciliary Microrobots with Non-reciprocal Magnetic Actuation. <i>Scientific Reports</i> , 2016 , 6, 30713	4.9	74
208	Four-dimensional direct laser writing of reconfigurable compound micromachines. <i>Materials Today</i> , 2020 , 32, 19-25	21.8	74
207	Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia. <i>Advanced Functional Materials</i> , 2018 , 28, 1705701	15.6	73
206	Enhanced Removal of Toxic Heavy Metals Using Swarming Biohybrid Adsorbents. <i>Advanced Functional Materials</i> , 2018 , 28, 1806340	15.6	73

205	NickelCobalt hydroxide microspheres electrodeposited on nickel cobaltite nanowires grown on Ni foam for high-performance pseudocapacitors. <i>Journal of Power Sources</i> , 2014 , 267, 610-616	8.9	71
204	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
203	. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 1213-1225	6.5	66
202	Assembly, disassembly, and anomalous propulsion of microscopic helices. <i>Nano Letters</i> , 2013 , 13, 4263-811.5	11.5	66
201	Foreign Direct Investment and the Formation of Global City-Regions in China. <i>Regional Studies</i> , 2007 , 41, 979-994	3.4	63
200	Freestanding SiGe/Si/Cr and SiGe/Si/SixNy/Cr microtubes. <i>Applied Physics Letters</i> , 2004 , 84, 3391-3393	3.4	63
199	Ultrasound Doppler-guided real-time navigation of a magnetic microswarm for active endovascular delivery. <i>Science Advances</i> , 2021 , 7,	14.3	63
198	Magnetic Actuation Systems for Miniature Robots: A Review. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000082	0.82	60
197	Endoscopy-assisted magnetic navigation of biohybrid soft microrobots with rapid endoluminal delivery and imaging. <i>Science Robotics</i> , 2021 , 6,	18.6	60
196	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
195	Optimization of Organic/Water Hybrid Electrolytes for High-Rate Carbon-Based Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1904136	15.6	56
194	Micro/Nanomachines: from Functionalization to Sensing and Removal. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800636	6.8	55
193	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
192	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
191	Relationship between pressure drop and face velocity for electrospun nanofiber filters. <i>Energy and Buildings</i> , 2018 , 158, 987-999	7	53
190	Noncytotoxic artificial bacterial flagella fabricated from biocompatible ORMOCOMP and iron coating. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 357-362	7.3	53
189	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
188	Three-dimensional nanosprings for electromechanical sensors. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 54-61	3.9	49

187	Reinterpretation of China's under-urbanization: a systemic perspective. <i>Habitat International</i> , 2003 , 27, 459-483	4.6	49
186	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
185	Four-dimensional micro-building blocks. <i>Science Advances</i> , 2020 , 6, eaav8219	14.3	47
184	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
183	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
182	Transdermal Delivery of siRNA through Microneedle Array. <i>Scientific Reports</i> , 2016 , 6, 21422	4.9	44
181	Localized non-contact manipulation using artificial bacterial flagella. <i>Applied Physics Letters</i> , 2011 , 99, 174101	3.4	44
180	Dumbbell Fluidic Tweezers for Dynamical Trapping and Selective Transport of Microobjects. <i>Advanced Functional Materials</i> , 2017 , 27, 1604571	15.6	42
179	Collective Behavior of Reconfigurable Magnetic Droplets via Dynamic Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1630-1637	9.5	42
178	In situ construction of potato starch based carbon nanofiber/activated carbon hybrid structure for high-performance electrical double layer capacitor. <i>Journal of Power Sources</i> , 2012 , 207, 199-204	8.9	41
177	Experimental and modeling study of pressure drop across electrospun nanofiber air filters. <i>Building and Environment</i> , 2018 , 142, 244-251	6.5	40
176	External Power-Driven Microbotic Swarm: From Fundamental Understanding to Imaging-Guided Delivery. <i>ACS Nano</i> , 2021 , 15, 149-174	16.7	40
175	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
174	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
173	Cooperative manipulation and transport of microobjects using multiple helical microcarriers. <i>RSC Advances</i> , 2014 , 4, 26771-26776	3.7	37
172	Nanotube fluidic junctions: internanotube attogram mass transport through walls. <i>Nano Letters</i> , 2009 , 9, 210-4	11.5	37
171	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
170	Free-standing Si/SiGe micro- and nano-objects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 23, 280-284	3	36

169	Light-Driven Hovering of a Magnetic Microswarm in Fluid. <i>ACS Nano</i> , 2020 , 14, 6990-6998	16.7	35
168	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
167	Non-ideal swimming of artificial bacterial flagella near a surface 2010 ,		33
166	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
165	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
164	Model-Free Trajectory Tracking Control of Two-Particle Magnetic Microrobot. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 697-700	2.6	32
163	. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 254-270	6.5	32
162	Fabrication and characterization of freestanding Si/Cr micro- and nanospirals. <i>Microelectronic Engineering</i> , 2006 , 83, 1237-1240	2.5	30
161	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
160	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
159	Disassembly and spreading of magnetic nanoparticle clusters on uneven surfaces. <i>Applied Materials Today</i> , 2020 , 18, 100489	6.6	28
158	Graphene-Based Helical Micromotors Constructed by "Microscale Liquid Rope-Coil Effect" with Microfluidics. <i>ACS Nano</i> , 2020 ,	16.7	28
157	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019 , 15, 242-251	6.6	28
156	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
155	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
154	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
153	Electrospun SF/PVA Nanofiber Filters for Highly Efficient PM $\leq_{2.5}$ Capture. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 934-939	2.6	26
152	Magnetic Microswarm Composed of Porous Nanocatalysts for Targeted Elimination of Biofilm Occlusion. <i>ACS Nano</i> , 2021 , 15, 5056-5067	16.7	26

151	. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 508-517	2.6	25
150	On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. <i>Advanced Science</i> , 2019 , 6, 1802033	13.6	24
149	DeltaMag: An Electromagnetic Manipulation System with Parallel Mobile Coils 2019 ,		24
148	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
147	Sodium storage in a promising MoS-carbon anode: elucidating structural and interfacial transitions in the intercalation process and conversion reactions. <i>Nanoscale</i> , 2018 , 10, 11165-11175	7.7	24
146	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
145	Ultra flexible SiGe/Si/Cr nanosprings. <i>Microelectronics Journal</i> , 2008 , 39, 478-481	1.8	22
144	A variable-width harmonic probe for multifrequency atomic force microscopy. <i>Applied Physics Letters</i> , 2015 , 106, 071901	3.4	21
143	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
142	Magnetic polymer composite artificial bacterial flagella. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 046014	2.6	21
141	Nanorobotics for creating NEMS from 3D helical nanostructures. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 257-261	0.3	21
140	Intelligent Polymer-Based Bioinspired Actuators: From Monofunction to Multifunction. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000138	6	21
139	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1208-1219	5.5	20
138	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
137	Image-based 3D reconstruction using helical nanobelts for localized rotations. <i>Journal of Microscopy</i> , 2010 , 237, 122-35	1.9	20
136	Dual-Chirality Helical Nanobelts: Linear-to-Rotary Motion Converters for Three-Dimensional Microscopy. <i>Journal of Microelectromechanical Systems</i> , 2009 , 18, 1047-1053	2.5	20
135	Domino Reaction Encoded Heterogeneous Colloidal Microswarm with On-Demand Morphological Adaptability. <i>Advanced Materials</i> , 2021 , 33, e2100070	24	20
134	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

133	Bubble-Assisted Three-Dimensional Ensemble of Nanomotors for Improved Catalytic Performance. <i>IScience</i> , 2019 , 19, 760-771	6.1	19
132	Bending and buckling of rolled-up SiGeBi microtubes using nanorobotic manipulation. <i>Applied Physics Letters</i> , 2008 , 92, 243102	3.4	19
131	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
130	Characterizing Nanoparticle Swarms With Tuneable Concentrations for Enhanced Imaging Contrast. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2942-2949	4.2	17
129	An Automated Microrobotic Platform for Rapid Detection of C. diff Toxins. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1517-1527	5	17
128	Bio-inspired microrobots. <i>Materials Today</i> , 2012 , 15, 463	21.8	16
127	Ring closure of rolled-up SiCr nanoribbons. <i>Applied Physics Letters</i> , 2008 , 92, 143110	3.4	16
126	Propulsion Gait Analysis and Fluidic Trapping of Swinging Flexible Nanomotors. <i>ACS Nano</i> , 2021 , 15, 51186-512816	8.5	16
125	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
124	Magnetically Powered Biodegradable Microswimmers. <i>Micromachines</i> , 2020 , 11,	3.3	15
123	Long-range linear elasticity and mechanical instability of self-scrolling binormal nanohelices under a uniaxial load. <i>Nanoscale</i> , 2011 , 3, 4301-6	7.7	15
122	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
121	Synthesis of Carbon Materials-TiO Hybrid Nanostructures and Their Visible-Light Photo-catalytic Activity. <i>ChemPlusChem</i> , 2014 , 79, 454-461	2.8	14
120	Directed batch assembly of three-dimensional helical nanobelts through angular winding and electroplating. <i>Nanotechnology</i> , 2007 , 18, 055304	3.4	14
119	Magnetic Navigation of a Rotating Colloidal Swarm Using Ultrasound Images 2018 ,		14
118	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
117	Directional scrolling of SiGe/Si/Cr nanoribbon on Si(111) surfaces controlled by two-fold rotational symmetry underetching. <i>Nanoscale</i> , 2013 , 5, 971-6	7.7	13
116	Light-Triggered Catalytic Performance Enhancement Using Magnetic Nanomotor Ensembles. <i>Research</i> , 2020 , 2020, 6380794	7.8	13

115	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
114	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
113	Precise control of the number of walls formed during carbon nanotube growth using chemical vapor deposition. <i>Nanotechnology</i> , 2012 , 23, 065604	3.4	12
112	Independent Pattern Formation of Nanorod and Nanoparticle Swarms under an Oscillating Field. <i>ACS Nano</i> , 2021 , 15, 4429-4439	16.7	12
111	Tethered and Untethered 3D Microactuators Fabricated by Two-Photon Polymerization: A Review. <i>Micromachines</i> , 2021 , 12,	3.3	12
110	Nano-patterned SU-8 surface using nanosphere-lithography for enhanced neuronal cell growth. <i>Nanotechnology</i> , 2016 , 27, 175303	3.4	12
109	Edge effect of strained bilayer nanofilms for tunable multistability and actuation. <i>Nanoscale</i> , 2017 , 9, 2958-2962	7.7	11
108	Movement of artificial bacterial flagella in heterogeneous viscous environments at the microscale 2012 ,		11
107	Templated self-organization of SiGe quantum structures for nanoelectronics. <i>Materials Science and Engineering C</i> , 2007 , 27, 947-953	8.3	11
106	Magnetic helical micro-/nanomachines: Recent progress and perspective. <i>Matter</i> , 2022 , 5, 77-109	12.7	11
105	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
104	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
103	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
102	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
101	Self-Assembly of 1D Helical Nanostructures into Higher Order Chiral Nanostructures in Supramolecular Systems. <i>ChemNanoMat</i> , 2018 , 4, 720-729	3.5	10
100	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
99	Bacteria-Inspired Microrobots 2012 , 165-199		9
98	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

97	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
96	Engineering of highly ordered TiO ₂ nanopore arrays by anodization. <i>Applied Surface Science</i> , 2016 , 377, 335-339	6.7	9
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