

Jianguo Guan

List of Publications by Year in descending order

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218
papers

11,649
citations

19636

61
h-index

34964

98
g-index

222
all docs

222
docs citations

222
times ranked

10868
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractory Plasmonics with Titanium Nitride: Broadband Metamaterial Absorber. <i>Advanced Materials</i> , 2014, 26, 7959-7965.	11.1	603
2	Light-driven micro/nanomotors: from fundamentals to applications. <i>Chemical Society Reviews</i> , 2017, 46, 6905-6926.	18.7	465
3	Micro- μ Nanorobots at Work in Active Drug Delivery. <i>Advanced Functional Materials</i> , 2018, 28, 1706100.	7.8	296
4	Autonomous Motion and Temperature-Controlled Drug Delivery of Mg/Pt-Poly(<i>N</i> -isopropylacrylamide) Janus Micromotors Driven by Simulated Body Fluid and Blood Plasma. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9897-9903.	4.0	253
5	Light-Steered Isotropic Semiconductor Micromotors. <i>Advanced Materials</i> , 2017, 29, 1603374.	11.1	246
6	Low-Cost Carbothermal Reduction Preparation of Monodisperse Fe ₃ O ₄ /C Core-Shell Nanosheets for Improved Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16511-16520.	4.0	231
7	Self-Propelled Micromotors Driven by the Magnesium-Water Reaction and Their Hemolytic Properties. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7208-7212.	7.2	223
8	Synthesis and characterization of nanosized urchin-like γ -Fe ₂ O ₃ and Fe ₃ O ₄ : Microwave electromagnetic and absorbing properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4320-4326.	2.8	190
9	Preparation of hollow spheres with controllable interior structures by heterogeneous contraction. <i>Chemical Communications</i> , 2010, 46, 6605.	2.2	178
10	Rambutan-like Ni/MWCNT heterostructures: Easy synthesis, formation mechanism, and controlled static magnetic and microwave electromagnetic characteristics. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7373.	5.2	177
11	Light-controlled propulsion, aggregation and separation of water-fuelled TiO ₂ /Pt Janus submicromotors and their α -ion-the-fly-photocatalytic activities. <i>Nanoscale</i> , 2016, 8, 4976-4983.	2.8	172
12	Single-Component TiO ₂ Tubular Microengines with Motion Controlled by Light-Induced Bubbles. <i>Small</i> , 2015, 11, 2564-2570.	5.2	154
13	Ion sensitive field effect transducer-based biosensors. <i>Biotechnology Advances</i> , 2003, 21, 527-534.	6.0	150
14	Enhanced electromagnetic characteristics of carbon nanotubes/carbonyl iron powders complex absorbers in 2-18GHz ranges. <i>Journal of Alloys and Compounds</i> , 2011, 509, 451-456.	2.8	145
15	Broadband patterned magnetic microwave absorber. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	144
16	Magnetically Modulated Pot-Like MnFe ₂ O ₄ Micromotors: Nanoparticle Assembly Fabrication and their Capability for Direct Oil Removal. <i>Advanced Functional Materials</i> , 2015, 25, 6173-6181.	7.8	141
17	Magnesium-Based Micromotors: Water-Powered Propulsion, Multifunctionality, and Biomedical and Environmental Applications. <i>Small</i> , 2018, 14, e1704252.	5.2	132
18	Solvent-mediated synthesis of magnetic Fe ₂ O ₃ chestnut-like amorphous-core/ β -phase-shell hierarchical nanostructures with strong As(v) removal capability. <i>Journal of Materials Chemistry</i> , 2011, 21, 5414.	6.7	131

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19	Tunable dielectric properties and excellent microwave absorbing properties of elliptical Fe ₃ O ₄ nanorings. Applied Physics Letters, 2016, 108, .	1.5	131
20	Stericâ€Repulsionâ€Based Magnetically Responsive Photonic Crystals. Advanced Materials, 2014, 26, 1058-1064.	11.1	129
21	Fiberlike Fe ₂ O ₃ Macroporous Nanomaterials Fabricated by Calcinating Regenerate Cellulose Composite Fibers. Chemistry of Materials, 2008, 20, 3623-3628.	3.2	127
22	Flaky carbonyl iron particles with both small grain size and low internal strain for broadband microwave absorption. Journal of Alloys and Compounds, 2015, 637, 106-111.	2.8	126
23	Optically Transparent Broadband Microwave Absorption Metamaterial By Standingâ€Up Closedâ€Ring Resonators. Advanced Optical Materials, 2017, 5, 1700109.	3.6	124
24	Polymorphous ZnO complex architectures: selective synthesis, mechanism, surface area and Zn-polar plane-codetermining antibacterial activity. Journal of Materials Chemistry B, 2013, 1, 454-463.	2.9	123
25	Broadening the absorption bandwidth of metamaterial absorbers by transverse magnetic harmonics of 210 mode. Scientific Reports, 2016, 6, 21431.	1.6	120
26	Fast and highly-sensitive hydrogen sensing of Nb ₂ O ₅ nanowires at room temperature. International Journal of Hydrogen Energy, 2012, 37, 4526-4532.	3.8	118
27	Intelligent Micro/nanomotors with Taxils. Accounts of Chemical Research, 2018, 51, 3006-3014.	7.6	118
28	Synthesis, growth mechanism and optical properties of (K,Na)NbO ₃ nanostructures. CrystEngComm, 2010, 12, 3157.	1.3	117
29	Liquid acid-catalysed fabrication of nanoporous 1,3,5-triazine frameworks with efficient and selective CO ₂ uptake. Polymer Chemistry, 2014, 5, 3424.	1.9	112
30	Magnetic Iron Oxide Chestnutlike Hierarchical Nanostructures: Preparation and Their Excellent Arsenic Removal Capabilities. ACS Applied Materials & Interfaces, 2012, 4, 3987-3993.	4.0	109
31	Transient Micromotors That Disappear When No Longer Needed. ACS Nano, 2016, 10, 10389-10396.	7.3	109
32	Facile Preparation of Dibenzoheterocycle-Functional Nanoporous Polymeric Networks with High Gas Uptake Capacities. Macromolecules, 2014, 47, 2875-2882.	2.2	108
33	Fuel-Free Light-Powered TiO ₂ /Pt Janus Micromotors for Enhanced Nitroaromatic Explosives Degradation. ACS Applied Materials & Interfaces, 2018, 10, 22427-22434.	4.0	108
34	Phototactic Flocking of Photochemical Micromotors. IScience, 2019, 19, 415-424.	1.9	108
35	One-pot low temperature solution synthesis, magnetic and microwave electromagnetic properties of single-crystal iron submicron cubes. Journal of Materials Chemistry, 2010, 20, 1676.	6.7	102
36	Swarming and collective migration of micromotors under near infrared light. Applied Materials Today, 2018, 13, 45-53.	2.3	100

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37	Chemotactic Guidance of Synthetic Organic/Inorganic Payloads Functionalized Sperm Micromotors. <i>Advanced Biology</i> , 2018, 2, 1700160.	3.0	98
38	Facile preparation, formation mechanism and microwave absorption properties of porous carbonyl iron flakes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3769-3776.	2.7	92
39	Responsive Hydrogel-based Photonic Nanochains for Microenvironment Sensing and Imaging in Real Time and High Resolution. <i>Nano Letters</i> , 2020, 20, 803-811.	4.5	92
40	Oriented Contraction: A Facile Nonequilibrium Heat-Treatment Approach for Fabrication of Maghemite Fiber-in-Tube and Tube-in-Tube Nanostructures. <i>Langmuir</i> , 2010, 26, 15580-15585.	1.6	90
41	Facile Carbonization of Microporous Organic Polymers into Hierarchically Porous Carbons Targeted for Effective CO ₂ Uptake at Low Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18383-18392.	4.0	90
42	Integrating non-planar metamaterials with magnetic absorbing materials to yield ultra-broadband microwave hybrid absorbers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	88
43	Ferrite-based metamaterial microwave absorber with absorption frequency magnetically tunable in a wide range. <i>Materials and Design</i> , 2016, 110, 27-34.	3.3	86
44	Facile Synthesis and Growth Mechanism of Flowerlike Ni~Fe Alloy Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13565-13570.	1.5	84
45	Active Micromotor Systems Built from Passive Particles with Biomimetic Predator~Prey Interactions. <i>ACS Nano</i> , 2020, 14, 406-414.	7.3	84
46	Micromotor-Assisted Human Serum Glucose Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 5660-5666.	3.2	83
47	Facile preparation of magnetic ³ Fe ₂ O ₃ /TiO ₂ Janus hollow bowls with efficient visible-light photocatalytic activities by asymmetric shrinkage. <i>Nanoscale</i> , 2012, 4, 4650.	2.8	78
48	Ultra-wideband microwave absorber by connecting multiple absorption bands of two different-sized hyperbolic metamaterial waveguide arrays. <i>Scientific Reports</i> , 2015, 5, 15367.	1.6	77
49	Photocatalytic Micromotors Activated by UV to Visible Light for Environmental Remediation, Micropumps, Reversible Assembly, Transportation, and Biomimicry. <i>Small</i> , 2020, 16, e1903179.	5.2	77
50	Micro- and nanorobots based sensing and biosensing. <i>Current Opinion in Electrochemistry</i> , 2018, 10, 174-182.	2.5	76
51	In situ generated dense shell-engaged Ostwald ripening: A facile controlled-preparation for BaFe ₁₂ O ₁₉ hierarchical hollow fiber arrays. <i>Journal of Solid State Chemistry</i> , 2010, 183, 736-743.	1.4	74
52	Control of porosity of novel carbazole-modified polytriazine frameworks for highly selective separation of CO ₂ ~N ₂ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 7795-7801.	5.2	72
53	Light-controlled bubble propulsion of amorphous TiO ₂ /Au Janus micromotors. <i>RSC Advances</i> , 2016, 6, 10697-10703.	1.7	72
54	Nickel flower-like nanostructures composed of nanoplates: one-pot synthesis, stepwise growth mechanism and enhanced ferromagnetic properties. <i>CrystEngComm</i> , 2011, 13, 2636.	1.3	71

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55	In Situ Generated H ₂ Bubble-Engaged Assembly: A One-Step Approach for Shape-Controlled Growth of Fe Nanostructures. <i>Chemistry of Materials</i> , 2008, 20, 3535-3539.	3.2	70
56	Free-standing, flexible thermochromic films based on one-dimensional magnetic photonic crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2848-2855.	2.7	70
57	Hierarchical Microswarms with Leader-Follower-Like Structures: Electrohydrodynamic Self-Organization and Multimode Collective Photoresponses. <i>Advanced Functional Materials</i> , 2020, 30, 1908602.	7.8	68
58	Chemical/Light-Powered Hybrid Micromotors with On-Chip Fly-Optical Brakes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8110-8114.	7.2	67
59	Morphology evolution, magnetic and microwave absorption properties of nano/submicrometre iron particles obtained at different reduced temperatures. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 075006.	1.3	66
60	Facile preparation and size-dependent photocatalytic activity of Cu ₂ O nanocrystals modified titania for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 816-822.	3.8	66
61	Hierarchical nanostructures of fluorinated and naked Ta ₂ O ₅ single crystalline nanorods: hydrothermal preparation, formation mechanism and photocatalytic activity for H ₂ production. <i>Chemical Communications</i> , 2012, 48, 7301.	2.2	63
62	A near-perfect invisibility cloak constructed with homogeneous materials. <i>Optics Express</i> , 2009, 17, 23410.	1.7	60
63	Goethite hierarchical nanostructures: Glucose-assisted synthesis, chemical conversion into hematite with excellent photocatalytic properties. <i>Materials Chemistry and Physics</i> , 2011, 127, 371-378.	2.0	60
64	Rotating 1-D magnetic photonic crystal balls with a tunable lattice constant. <i>Nanoscale</i> , 2017, 9, 9548-9555.	2.8	59
65	Structure and magnetic properties of regenerated cellulose/Fe ₃ O ₄ nanocomposite films. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2477-2484.	1.3	58
66	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. <i>Nature Communications</i> , 2021, 12, 6425.	5.8	58
67	In situ generated gas bubble-assisted modulation of the morphologies, photocatalytic, and magnetic properties of ferric oxide nanostructures synthesized by thermal decomposition of iron nitrate. <i>Journal of Nanoparticle Research</i> , 2010, 12, 3025-3037.	0.8	57
68	Preparation of crystallized mesoporous CdS/Ta ₂ O ₅ composite assisted by silica reinforcement for visible light photocatalytic hydrogen evolution. <i>Catalysis Communications</i> , 2012, 25, 54-58.	1.6	57
69	Dynamic Colloidal Molecules Maneuvered by Light-Controlled Janus Micromotors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22704-22712.	4.0	57
70	ZnO-based micromotors fueled by CO ₂ : the first example of self-reorientation-induced biomimetic chemotaxis. <i>National Science Review</i> , 2021, 8, nwab066.	4.6	57
71	In Situ Generated Gas Bubble-Directed Self-Assembly: Synthesis, and Peculiar Magnetic and Electrochemical Properties of Vertically Aligned Arrays of High-Density Co ₃ O ₄ Nanotubes. <i>Advanced Functional Materials</i> , 2013, 23, 2406-2414.	7.8	56
72	Coupling of light from an optical fiber taper into silver nanowires. <i>Applied Physics Letters</i> , 2009, 95, 221109.	1.5	54

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73	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 241-245.	7.2	54
74	Generalized green synthesis and formation mechanism of sponge-like ferrite micro-polyhedra with tunable structure and composition. <i>Nanoscale</i> , 2014, 6, 778-787.	2.8	52
75	Synchronous etching-epitaxial growth fabrication of facet-coupling NaTaO ₃ /Ta ₂ O ₅ heterostructured nanofibers for enhanced photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 309-319.	10.8	52
76	Stretchable Transparent Conductors: from Micro/Macromechanics to Applications. <i>Advanced Materials</i> , 2019, 31, e1900756.	11.1	52
77	Influence of heat treatment conditions on the structure and magnetic properties of barium ferrite BaFe ₁₂ O ₁₉ hollow microspheres of low density. <i>Materials Chemistry and Physics</i> , 2006, 98, 90-94.	2.0	51
78	Polymorphous Fe/FexOy composites: One-step oxidation preparation, composition control, and static magnetic and electromagnetic characteristics. <i>Materials Chemistry and Physics</i> , 2011, 129, 1189-1194.	2.0	51
79	Morphology dependence of static magnetic and microwave electromagnetic characteristics of polymorphic Fe ₃ O ₄ nanomaterials. <i>Journal of Materials Research</i> , 2011, 26, 1639-1645.	1.2	51
80	Low-temperature Synthesis, Magnetic and Microwave Electromagnetic Properties of Substoichiometric Spinel Cobalt Ferrite Octahedra. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 419-426.	1.0	49
81	Microwave dielectric properties of Li ₂ TiO ₃ ceramics sintered at low temperatures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 99-102.	1.7	49
82	Preparation of heterostructured mesoporous In ₂ O ₃ /Ta ₂ O ₅ nanocomposites with enhanced photocatalytic activity for hydrogen evolution. <i>Catalysis Communications</i> , 2011, 12, 548-552.	1.6	48
83	Flaky core-shell particles of iron@iron oxides for broadband microwave absorbers in S and C bands. <i>Journal of Alloys and Compounds</i> , 2017, 709, 735-741.	2.8	47
84	Enhanced Propulsion of Urease-Powered Micromotors by Multilayered Assembly of Ureases on Janus Magnetic Microparticles. <i>Langmuir</i> , 2020, 36, .	1.6	47
85	Enhanced Interfacial Charge Transfer and Visible Photocatalytic Activity for Hydrogen Evolution from a Ta ₂ O ₅ -based Mesoporous Composite by the Incorporation of Quantum-Sized CdS. <i>ChemCatChem</i> , 2012, 4, 1353-1359.	1.8	46
86	Tubular Micro/Nanomotors: Propulsion Mechanisms, Fabrication Techniques and Applications. <i>Micromachines</i> , 2018, 9, 78.	1.4	45
87	Synthesis and Alignment of Iron Oxide Nanoparticles in a Regenerated Cellulose Film. <i>Macromolecular Rapid Communications</i> , 2006, 27, 2084-2089.	2.0	44
88	Prussian blue modified amperometric FIA biosensor: one-step immunoassay for α -fetoprotein. <i>Biosensors and Bioelectronics</i> , 2004, 19, 789-794.	5.3	43
89	Simple-Structured Micromotors Based on Inherent Asymmetry in Crystalline Phases: Design, Large-Scale Preparation, and Environmental Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16639-16646.	4.0	42
90	A dual responsive photonic liquid for independent modulation of color brightness and hue. <i>Materials Horizons</i> , 2021, 8, 2032-2040.	6.4	42

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91	Well-dispersed mesoporous Ta ₂ O ₅ submicrospheres: Enhanced photocatalytic activity by tuning heating rate at calcination. <i>Chemical Engineering Journal</i> , 2013, 229, 371-377.	6.6	41
92	Self-Propelled Autonomous Mg/Pt Janus Micromotor Interaction with Human Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1754-1758.	2.0	41
93	Artificial nanomotors: Fabrication, locomotion characterization, motion manipulation, and biomedical applications. , 2022, 1, 256-280.		41
94	Oppositely charged twin-head electrospray: a general strategy for building Janus particles with controlled structures. <i>Nanoscale</i> , 2013, 5, 2055.	2.8	40
95	Multifunctional magnetic oleic acid-coated MnFe ₂ O ₄ /polystyrene Janus particles for water treatment. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11768-11774.	5.2	40
96	Self-Propelled 3D-Printed "Aircraft Carrier" of Light-Powered Smart Micromachines for Large-Volume Nitroaromatic Explosives Removal. <i>Advanced Functional Materials</i> , 2019, 29, 1903872.	7.8	40
97	Light-Controlled Swarming and Assembly of Colloidal Particles. <i>Micromachines</i> , 2018, 9, 88.	1.4	39
98	Broadband radar cross section reduction by in-plane integration of scattering metasurfaces and magnetic absorbing materials. <i>Results in Physics</i> , 2019, 12, 1964-1970.	2.0	37
99	Self-adaptive enzyme-powered micromotors with switchable propulsion mechanism and motion directionality. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	37
100	Interface modulation of chiral PPy/Fe ₃ O ₄ planar microhelices to achieve electric/magnetic-coupling and wide-band microwave absorption. <i>Chemical Engineering Journal</i> , 2022, 430, 132747.	6.6	37
101	Heterostructured mesoporous In ₂ O ₃ /Ta ₂ O ₅ composite photocatalysts for hydrogen evolution: Impacts of In ₂ O ₃ content and calcination temperature. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 160-168.	5.0	36
102	Complex-Mediated Synthesis of Tantalum Oxyfluoride Hierarchical Nanostructures for Highly Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9395-9404.	4.0	35
103	Chemical/Light-Powered Hybrid Micromotors with "On-the-Fly" Optical Brakes. <i>Angewandte Chemie</i> , 2018, 130, 8242-8246.	1.6	34
104	Flower-like porous hematite nanoarchitectures achieved by complexation-mediated oxidation-hydrolysis reaction. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 36-45.	5.0	33
105	Internal strain dependence of complex permeability of ball milled carbonyl iron powders in 2-18 GHz. <i>Journal of Applied Physics</i> , 2012, 111, 093924.	1.1	33
106	Refractory Metamaterial Microwave Absorber with Strong Absorption Insensitive to Temperature. <i>Advanced Optical Materials</i> , 2018, 6, 1800691.	3.6	32
107	Glucose-Sensing Photonic Nanochain Probes with Color Change in Seconds. <i>Advanced Science</i> , 2022, 9, e2105239.	5.6	32
108	Microfiber SMPU film affords quicker shape recovery than the bulk one. <i>Materials Letters</i> , 2011, 65, 3639-3642.	1.3	31

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109	Facile preparation of graphite particles fully coated with thin Ag shell layers for high performance conducting and electromagnetic shielding composite materials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2566-2578.	2.7	31
110	One-Step Synthesis of Cobalt ²⁺ Phthalocyanine/Iron Nanocomposite Particles with High Magnetic Susceptibility. <i>Langmuir</i> , 2002, 18, 4198-4204.	1.6	29
111	Mg-Based Micromotors with Motion Responsive to Dual Stimuli. <i>Research</i> , 2020, 2020, 6213981.	2.8	29
112	Study on electrorheological properties of semiconducting polyaniline-based suspensions. <i>Angewandte Makromolekulare Chemie</i> , 1996, 235, 21-34.	0.3	28
113	Single-crystal star-like arrayed particles of hematite: Synthesis, formation mechanism and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2009, 485, 753-758.	2.8	28
114	Visible light-response NaTa1-xCuxO3 photocatalysts for hydrogen production from methanol aqueous solution. <i>Journal of Molecular Catalysis A</i> , 2012, 360, 42-47.	4.8	28
115	Photonic nanorods with magnetic responsiveness regulated by lattice defects. <i>Nanoscale</i> , 2017, 9, 3105-3113.	2.8	28
116	Self-Adaptive Magnetic Photonic Nanochain Cilia Arrays. <i>Advanced Functional Materials</i> , 2020, 30, 2005243.	7.8	28
117	Enhancement of low-frequency magnetic permeability and absorption by texturing flaky carbonyl iron particles. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153827.	2.8	28
118	In situ gas bubble-assisted one-step synthesis of polymorphic Co3O4 nanostructures with improved electrochemical performance for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 601, 167-174.	2.8	27
119	Easy gas-flow-induced CVD synthesis and tunable electromagnetic characteristics of centipede-shaped iron/cementite/multiwalled carbon nanotube (Fe/Fe3C/MWCNT) heterostructures. <i>Surface and Coatings Technology</i> , 2015, 283, 286-297.	2.2	27
120	Preparation and electrochemical properties of urchin-like γ -Fe2O3 nanomaterials. <i>Science China Technological Sciences</i> , 2010, 53, 1897-1903.	2.0	25
121	Lipophilic Magnetic Photonic Nanochains for Practical Anticounterfeiting. <i>Small</i> , 2022, 18, e2200662.	5.2	25
122	Bi ₄ Ta ₈ Cl flower-like hierarchical structures: controlled preparation, formation mechanism and visible photocatalytic hydrogen production. <i>RSC Advances</i> , 2017, 7, 121-127.	1.7	23
123	Ultralow content silver densely-coated glass microsphere for high performance conducting polymer-matrix composites. <i>Composites Science and Technology</i> , 2017, 140, 89-98.	3.8	23
124	Design, synthesis and in vitro anti-mycobacterial activities of homonuclear and heteronuclear bis-isatin derivatives. <i>FA-toterap</i> , 2018, 127, 383-386.	1.1	23
125	Solution synthesis and novel magnetic properties of ball-chain iron nanofibers. <i>Journal of Materials Research</i> , 2011, 26, 2590-2598.	1.2	22
126	Hydrophobic Janus Foam Motors: Self-Propulsion and On-The-Fly Oil Absorption. <i>Micromachines</i> , 2018, 9, 23.	1.4	22

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127	Flexible Guidance of Microengines by Dynamic Topographical Pathways in Ferrofluids. ACS Nano, 2018, 12, 6668-6676.	7.3	22
128	Cooperative transport by flocking phototactic micromotors. Nanoscale Advances, 2021, 3, 6157-6163.	2.2	22
129	Titania-Based Micro/Nanomotors: Design Principles, Biomimetic Collective Behavior, and Applications. Trends in Chemistry, 2021, 3, 387-401.	4.4	22
130	Probing of Antibody-Antigen Reactions at Electropolymerized Polyaniline Immunosensors Using Impedance Spectroscopy. Analytical Letters, 2004, 37, 1053-1062.	1.0	21
131	Design, Synthesis and In Vitro Anti-microbial Evaluation of Ethylene/Propylene-1H-1,2,3-Triazole-4-Methylene-tethered Isatin-coumarin Hybrids. Current Topics in Medicinal Chemistry, 2018, 17, 3213-3218.	1.0	20
132	Light-Programmable Assemblies of Isotropic Micromotors. Research, 2022, 2022, .	2.8	20
133	Synthesis and electrorheological effect of PANi-BaTiO ₃ nanocomposite. Journal of Materials Science, 2004, 39, 3457-3460.	1.7	19
134	Controllable preparation and formation mechanism of monodispersed silica particles with binary sizes. Journal of Colloid and Interface Science, 2012, 388, 40-46.	5.0	19
135	Annealing temperature effect on microstructure, magnetic and microwave properties of Fe-based amorphous alloy powders. Journal of Magnetism and Magnetic Materials, 2012, 324, 2902-2906.	1.0	19
136	Secondary growth of hierarchical nanostructures composed only of Nb ₃ O ₇ F single-crystalline nanorods as a new photocatalyst for hydrogen production. Journal of Materials Chemistry A, 2015, 3, 14686-14695.	5.2	19
137	Surface Charge-Reversible Tubular Micromotors for Extraction of Nucleic Acids in Microsystems. Chemistry - an Asian Journal, 2019, 14, 2503-2511.	1.7	19
138	Homogeneous-materials-constructed electromagnetic field concentrators with adjustable concentrating ratio. Journal Physics D: Applied Physics, 2011, 44, 125401.	1.3	17
139	Surface Thiolation of Al Microspheres to Deposit Thin and Compact Ag Shells for High Conductivity. Langmuir, 2015, 31, 13441-13451.	1.6	17
140	Wideband frequency tunable metamaterial absorber by splicing multiple tuning ranges. Results in Physics, 2021, 20, 103753.	2.0	17
141	A fringing-capacitance model for deep-submicron MOSFET with high-k gate dielectric. Microelectronics Reliability, 2008, 48, 693-697.	0.9	16
142	Raman scattering, electronic, and ferroelectric properties of Nd modified Bi ₄ Ti ₃ O ₁₂ nanotube arrays. Journal of Applied Physics, 2010, 107, 094105.	1.1	16
143	Highly active Ta ₂ O ₅ microcubic single crystals: facet energy calculation, facile fabrication and enhanced photocatalytic activity of hydrogen production. Journal of Materials Chemistry A, 2016, 4, 16562-16568.	5.2	16
144	Microstructure and magnetic properties of non-stoichiometric M-type hexaferrite with barium surplus. Journal of Magnetism and Magnetic Materials, 2005, 295, 21-27.	1.0	15

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145	Chromium doped barium titanyl oxalate nano-sandwich particles: A facile synthesis and structure enhanced electrorheological properties. <i>Materials Chemistry and Physics</i> , 2010, 122, 73-78.	2.0	14
146	Enhanced microwave absorption properties of Fe nanotubes fabricated by a facile gas bubble-engaged assembly technique. <i>Micro and Nano Letters</i> , 2011, 6, 722.	0.6	14
147	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie</i> , 2018, 130, 247-251.	1.6	14
148	Effect of solvents and reaction parameters on the morphology of Ta ₂ O ₅ and photocatalytic activity. <i>Journal of Molecular Liquids</i> , 2018, 269, 211-216.	2.3	14
149	Magnesium Particles Coated with Mesoporous Nanoshells as Sustainable Therapeutic Hydrogen Suppliers to Scavenge Continuously Generated Hydroxyl Radicals in Long Term. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800424.	1.2	14
150	Realizing significant dielectric dispersion of composites based on highly conducting silver-coated glass microspheres for wide-band non-magnetic microwave absorbers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 528-542.	2.7	14
151	Synthesis and formation mechanism of hematite hollow microspheres by a one-pot templateless surfactant-free hydrothermal process. <i>Materials Chemistry and Physics</i> , 2009, 118, 496-500.	2.0	13
152	Isatin-(thio)semicarbazide/oxime-1,2,3-triazole-coumarin Hybrids: Design, Synthesis, and <i>in vitro</i> Anti-mycobacterial Evaluation. <i>Journal of Heterocyclic Chemistry</i> , 2018, 55, 1069-1073.	1.4	13
153	Tetraethylene Glycol Tethered Heteronuclear Bis-isatin Derivatives: Design, Synthesis, and <i>In Vitro</i> Anti-mycobacterial Activities. <i>Journal of Heterocyclic Chemistry</i> , 2018, 55, 2172-2177.	1.4	13
154	Direct synthesis of electrorheological suspension containing salt of poly(methacrylic acid) and its electrorheological effect. <i>Journal of Applied Polymer Science</i> , 1995, 58, 951-956.	1.3	12
155	Novel method for preparation of quaternary ammonium ionomer from epoxidized styrene-butadiene-styrene triblock copolymer and its use as compatibilizer for blending of styrene-butadiene-styrene and chlorosulfonated polyethylene. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1975-1980.	1.3	12
156	Facile method to synthesize silver nanoparticles on the surface of hollow glass microspheres and their microwave shielding properties. <i>RSC Advances</i> , 2014, 4, 18645-18651.	1.7	12
157	Phototactic micromotor assemblies in dynamic line formations for wide-range micromanipulations. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5079-5087.	2.7	12
158	Influence of sidewall spacer on threshold voltage of MOSFET with high-k gate dielectric. <i>Microelectronics Reliability</i> , 2008, 48, 181-186.	0.9	11
159	Mechanical properties and curing kinetics of epoxy resins cured by various amino-terminated polyethers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010, 28, 961-969.	2.0	11
160	Eccentric 1-D magnetic core-shell photonic crystal balls: ingenious fabrication and distinctive optical properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4531-4540.	2.7	11
161	NIR light-steered magnetic liquid marbles with switchable positive/negative phototaxis. <i>Applied Materials Today</i> , 2020, 19, 100595.	2.3	11
162	Photochemical micromotor of eccentric core in isotropic hollow shell exhibiting multimodal motion behavior. <i>Applied Materials Today</i> , 2022, 26, 101371.	2.3	11

#	ARTICLE	IF	CITATIONS
163	Electrical properties of HfTiON gate-dielectric metal-oxide-semiconductor capacitors with different Si-surface nitridations. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	10
164	Improved electrical properties of Ge metal-oxide-semiconductor capacitor with HfTa-based gate dielectric by using TaOxNy interlayer. <i>Applied Physics Letters</i> , 2008, 92, 262902.	1.5	10
165	A general cloak to shift the scattering of different objects. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 245102.	1.3	10
166	Photocatalytic Activity for Hydrogen Evolution over Well-Dispersed Heterostructured In ₂ O ₃ /Ta ₂ O ₅ Composites. <i>Chinese Journal of Catalysis</i> , 2012, 33, 1101-1108.	6.9	10
167	External field-assisted solution synthesis and selectively catalytic properties of amorphous iron nanoplatelets. <i>Journal of Materials Chemistry</i> , 2012, 22, 3909.	6.7	10
168	Single crystalline tantalum oxychloride microcubes: controllable synthesis, formation mechanism and enhanced photocatalytic hydrogen production activity. <i>Chemical Communications</i> , 2015, 51, 12455-12458.	2.2	10
169	Preparation of Nanometer Cobalt Particles by Polyol Reduction Process and Mechanism Research. <i>Materials Transactions</i> , 2005, 46, 1865-1867.	0.4	9
170	Improved electrical properties of metal-oxide-semiconductor capacitor with HfTiON gate dielectric by using HfSiON interlayer. <i>Applied Physics Letters</i> , 2007, 91, 152905.	1.5	9
171	Investigation of exchange bias in 0.1MFe ₂ O ₄ /0.9BiFeO ₃ (M=Co, Cu, Ni) nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1095-1099.	1.0	9
172	Facile morphology-controlled synthesis of nickel-coated graphite core-shell particles for excellent conducting performance of polymer-matrix composites and enhanced catalytic reduction of 4-nitrophenol. <i>Nanotechnology</i> , 2018, 29, 145602.	1.3	9
173	Smart Microdevices Laying "Breadcrumbs" to Find the Way Home: Chemotactic Homing TiO ₂ /Pt Janus Microrobots. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2456-2459.	1.7	9
174	Broadband RCS Reduction by a Quaternionic Metasurface. <i>Materials</i> , 2021, 14, 2787.	1.3	9
175	Study on conductivity of two kinds of cross-linked polyether solid electrolytes and electrorheological properties of anhydrous suspensions based on them. <i>Polymer</i> , 1998, 39, 5307-5314.	1.8	8
176	Synthesis and properties of ionic conducting crosslinked polymer and copolymer based on dimethacryloyl poly(ethylene glycol). <i>European Polymer Journal</i> , 2001, 37, 1997-2003.	2.6	8
177	THE CONDUCTIVITY AND TEMPERATURE DEPENDENCE OF BATIO ₃ COATED- PAN BASED ELECTORRHEOLOGICAL FLUIDS. <i>International Journal of Modern Physics B</i> , 2005, 19, 1423-1429.	1.0	8
178	Fabrication of highly conducting nickel-coated graphite composite particles with low Ni content for excellent electromagnetic properties. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155142.	2.8	8
179	Long-range hydrodynamic communication among synthetic self-propelled micromotors. <i>Cell Reports Physical Science</i> , 2022, 3, 100739.	2.8	8
180	Adaptive camouflage achieved by an artificial chameleon robot. <i>Matter</i> , 2022, 5, 2397-2399.	5.0	8

#	ARTICLE	IF	CITATIONS
181	CHARACTERIZATION AND PROPERTIES OF METAL PHTHALOCYANINE-Fe ₃ O ₄ NANOCOMPOSITES FOR ELECTROMAGNETORHEOLOGICAL FLUIDS. <i>International Journal of Modern Physics B</i> , 2001, 15, 599-609.	1.0	7
182	Influence of the Co ₂ -W coating prepared by mechanical alloying on the electromagnetism parameter of Fe _{0.7} Ni _{0.3} . <i>Journal of Alloys and Compounds</i> , 2006, 413, 155-158.	2.8	7
183	Shifting cloaks constructed with homogeneous materials. <i>Computational Materials Science</i> , 2010, 50, 607-611.	1.4	7
184	General boundary mapping method and its application in designing an arbitrarily shaped perfect electric conductor reshaper. <i>Optics Express</i> , 2011, 19, 19740.	1.7	7
185	An efficient way to prepare silver nanorods in high concentration by polyol method without adding other metal or salt. <i>Materials Chemistry and Physics</i> , 2012, 134, 686-694.	2.0	7
186	Nanotube Arrays: In Situ Generated Gas Bubble-Directed Self-Assembly: Synthesis, and Peculiar Magnetic and Electrochemical Properties of Vertically Aligned Arrays of High-Density Co ₃ O ₄ Nanotubes (Adv. Funct. Mater. 19/2013). <i>Advanced Functional Materials</i> , 2013, 23, 2405-2405.	7.8	7
187	Design, Synthesis, and <i>In Vitro</i> Anti-Mycobacterial Activities of Propylene-ethered Gatifloxacin-satin Hybrids. <i>Journal of Heterocyclic Chemistry</i> , 2018, 55, 1991-1996.	1.4	7
188	Design strategies and structure simplification methods of self-propelled micro-/nanomotors. <i>Chinese Science Bulletin</i> , 2017, 62, 107-121.	0.4	7
189	Enhanced magnetic permeability and electromagnetic noise suppression by sieved and oriented large flaky sendust particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 543, 168650.	1.0	7
190	Self-Adaptive Flask-like Nanomotors Based on Fe ₃ O ₄ Nanoparticles to a Physiological pH. <i>Nanomaterials</i> , 2022, 12, 2049.	1.9	7
191	Study on synthesis of polyurethane-epoxy composite emulsion. <i>Journal of Applied Polymer Science</i> , 2010, 115, 451-459.	1.3	6
192	A facile in situ fabrication and visible-light-response photocatalytic properties of porous carbon sphere/InOOH nanocomposites. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	6
193	<i>In situ</i> epitaxial growth of Ag ₃ PO ₄ quantum dots on hematite nanotubes for high photocatalytic activities. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2747-2755.	3.0	6
194	Inhomogeneous substrate metamaterial absorbers with broadband absorption spanning low and high frequency bands. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 105003.	1.3	6
195	Heterogeneous acid catalytic esterification by porous polyoxometalate-tantalum pentoxide nanocomposites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 580-585.	0.4	5
196	Semiconductors: Light-Steered Isotropic Semiconductor Micromotors (Adv. Mater. 3/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	5
197	Behavior of ionomers of sulfonated styrene-butadiene-styrene triblock copolymer in polymer blends with crystalline polyolefins and as compatibilizer. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1887-1894.	1.3	4
198	Engineering highly efficient photocatalysts for hydrogen production by simply regulating the solubility of insoluble compound cocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11486-11493.	3.8	4

#	ARTICLE	IF	CITATIONS
199	Coordination Complex Transformation-Assisted Fabrication for Hollow Chestnut-Like Hierarchical ZnS with Enhanced Photocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2019, 9, 273.	1.9	4
200	THE MICRO-FABRICATING PROCESS AND ELECTRO-MAGNETIC PROPERTIES OF TWO KINDS OF Fe POWDERS WITH DIFFERENT GRAIN SIZES AND INTERNAL STRAINS. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010, 46, 967-972.	0.3	4
201	Transforming complex space: a general strategy to compensate loss of transformation optical media. <i>Journal of Electromagnetic Waves and Applications</i> , 2013, 27, 834-845.	1.0	3
202	Heterogeneous Thermochromic Hydrogel Film Based on Photonic Nanochains. <i>Nanomaterials</i> , 2022, 12, 1867.	1.9	3
203	Deformation-Thermal Co-Induced Ferromagnetism of Austenite Nanocrystalline FeCoCr Powders for Strong Microwave Absorption. <i>Nanomaterials</i> , 2022, 12, 2263.	1.9	3
204	SOME FACTORS AFFECTING ELECTORRHEOLOGICAL PROPERTIES OF ANHYDROUS SUSPENSIONS CONTAINING POLYANILINE PARTICLES. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 263-273.	0.4	2
205	Co-Ni-W-P Magnetic Films Electrolessly Deposited on Nitinol and the Application in Magnetically Targeted Therapy. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2433-2435.	1.2	2
206	A 2D threshold-voltage model for small MOSFET with quantum-mechanical effects. <i>Microelectronics Reliability</i> , 2008, 48, 23-28.	0.9	2
207	Preparation and Properties of Poly(fluorated-acrylate)/Montmorillonite Composite Emulsion. <i>Integrated Ferroelectrics</i> , 2012, 136, 156-168.	0.3	2
208	EFFECT OF PEG SEGMENTS ON THE MICROSTRUCTURE AND PROPERTIES OF POLY(ETHYLENE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.0	2
209	SELF-ASSEMBLY MORPHOLOGIES AND ELECTORRHEOLOGICAL PROPERTIES OF POLYANILINE-POLY(ETHYLENE) Tj ETQq1 1 0.784314 4961-4966.	1.0	1
210	Facile synthesis of uniform hollow hematite sub-micro spheres with controllable shell thickness. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 32-38.	0.4	1
211	PRECURSORS-DECOMPOSITED SYNTHESIS AND VISIBLE-LIGHT-RESPONSE PHOTOCATALYSTIC PROPERTIES OF UNIFORM POROUS Bi_2O_3 NANOSPHERES. <i>Nano</i> , 2014, 09, 1450067.	0.5	1
212	Characterization and Electrorheological Effect of H₂SO₄-modified TiO₂ Particles. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009, 24, 1121-1124.	0.6	1
213	BaTiO ₃ -coated polyaniline core-shell nanocomposite particles for electrorheological fluids. , 2002, , .		0
214	Factors Influencing Electrorheological Properties and Stability of Suspensions Obtained Directly from Inverse Emulsion Polymerization. <i>Journal of Macromolecular Science - Physics</i> , 2004, 43, 405-419.	0.4	0
215	Effects of heat treatment temperature and time on structure and static magnetic property of W-type ferrite hollow microspheres. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007, 22, 168-170.	0.4	0
216	Selected Papers from the 2017 International Conference on Micro/Nanomachines. <i>Micromachines</i> , 2018, 9, 284.	1.4	0

#	ARTICLE	IF	CITATIONS
217	Controlled Drug Release: Magnesium Particles Coated with Mesoporous Nanoshells as Sustainable Therapeutic-Hydrogen Suppliers to Scavenge Continuously Generated Hydroxyl Radicals in Long Term (Part. Part. Syst. Charact. 2/2019). Particle and Particle Systems Characterization, 2019, 36, 1970006.	1.2	0
218	Influence of Low-temperature Heat-treatment on the Structure and Properties of Fe@Ag Composite Particles. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2010, 25, 1180-1184.	0.6	0