

Fangzhi Mou

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.

51
papers

3,132
citations

30
h-index

54
g-index

54
ext. papers

3,610
ext. citations

10.5
avg, IF

5.36
L-index

#	Paper	IF	Citations
51	Light-driven micro/nanomotors: from fundamentals to applications. <i>Chemical Society Reviews</i> , 2017 , 46, 6905-6926	58.5	322
50	Autonomous motion and temperature-controlled drug delivery of Mg/Pt-poly(N-isopropylacrylamide) Janus micromotors driven by simulated body fluid and blood plasma. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9897-903	9.5	221
49	Light-Steered Isotropic Semiconductor Micromotors. <i>Advanced Materials</i> , 2017 , 29, 1603374	24	191
48	Self-propelled micromotors driven by the magnesium-water reaction and their hemolytic properties. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7208-12	16.4	188
47	Preparation of hollow spheres with controllable interior structures by heterogeneous contraction. <i>Chemical Communications</i> , 2010 , 46, 6605-7	5.8	162
46	Light-controlled propulsion, aggregation and separation of water-fuelled TiO ₂ /Pt Janus submicromotors and their "on-the-fly" photocatalytic activities. <i>Nanoscale</i> , 2016 , 8, 4976-83	7.7	136
45	Single-Component TiO ₂ Tubular Microengines with Motion Controlled by Light-Induced Bubbles. <i>Small</i> , 2015 , 11, 2564-70	11	131
44	Solvent-mediated synthesis of magnetic Fe ₂ O ₃ chestnut-like amorphous-core/epitaxial-shell hierarchical nanostructures with strong As(V) removal capability. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5414		121
43	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	15.6	116
42	Magnetic iron oxide chestnutlike hierarchical nanostructures: preparation and their excellent arsenic removal capabilities. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3987-93	9.5	96
41	One-pot low temperature solution synthesis, magnetic and microwave electromagnetic properties of single-crystal iron submicron cubes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1676		91
40	Steric-repulsion-based magnetically responsive photonic crystals. <i>Advanced Materials</i> , 2014 , 26, 1058-64	24	90
39	Transient Micromotors That Disappear When No Longer Needed. <i>ACS Nano</i> , 2016 , 10, 10389-10396	16.7	87
38	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, 15580-5	4	81
37	Facile preparation of magnetic Fe ₃ O ₄ /TiO ₂ Janus hollow bowls with efficient visible-light photocatalytic activities by asymmetric shrinkage. <i>Nanoscale</i> , 2012 , 4, 4650-7	7.7	72
36	Intelligent Micro/nanomotors with Taxis. <i>Accounts of Chemical Research</i> , 2018 , 51, 3006-3014	24.3	72
35	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	3.3	70

34	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	9.6	67
33	Swarming and collective migration of micromotors under near infrared light. <i>Applied Materials Today</i> , 2018 , 13, 45-53	6.6	64
32	Light-controlled bubble propulsion of amorphous TiO ₂ /Au Janus micromotors. <i>RSC Advances</i> , 2016 , 6, 10697-10703	3.7	61
31	Phototactic Flocking of Photochemical Micromotors. <i>iScience</i> , 2019 , 19, 415-424	6.1	59
30	Free-standing, flexible thermochromic films based on one-dimensional magnetic photonic crystals. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2848-2855	7.1	54
29	Chemical/Light-Powered Hybrid Micromotors with "On-the-Fly" Optical Brakes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8110-8114	16.4	45
28	Dynamic Colloidal Molecules Maneuvered by Light-Controlled Janus Micromotors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22704-22712	9.5	44
27	Self-Propelled Micromotors Driven by the Magnesium-Water Reaction and Their Hemolytic Properties. <i>Angewandte Chemie</i> , 2013 , 125, 7349-7353	3.6	44
26	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	2.3	42
25	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 241-245	16.4	39
24	Hierarchical Microswarms with Leader-Follower-Like Structures: Electrohydrodynamic Self-Organization and Multimode Collective Photoresponses. <i>Advanced Functional Materials</i> , 2020 , 30, 1908602	15.6	36
23	Active Micromotor Systems Built from Passive Particles with Biomimetic Predator-Prey Interactions. <i>ACS Nano</i> , 2020 , 14, 406-414	16.7	35
22	Oppositely charged twin-head electrospray: a general strategy for building Janus particles with controlled structures. <i>Nanoscale</i> , 2013 , 5, 2055-64	7.7	32
21	Flower-like porous hematite nanoarchitectures achieved by complexation-mediated oxidation-hydrolysis reaction. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 36-45	9.3	30
20	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	13	30
19	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	9.5	29
18	Light-Controlled Swarming and Assembly of Colloidal Particles. <i>Micromachines</i> , 2018 , 9,	3.3	29
17	Flexible Guidance of Microengines by Dynamic Topographical Pathways in Ferrofluids. <i>ACS Nano</i> , 2018 , 12, 6668-6676	16.7	17

16	FBi4TaO8Cl flower-like hierarchical structures: controlled preparation, formation mechanism and visible photocatalytic hydrogen production. <i>RSC Advances</i> , 2017 , 7, 121-127	3.7	15
15	ZnO-based micromotors fueled by CO: the first example of self-reorientation-induced biomimetic chemotaxis. <i>National Science Review</i> , 2021 , 8, nwab066	10.8	15
14	Self-Adaptive Magnetic Photonic Nanochain Cilia Arrays. <i>Advanced Functional Materials</i> , 2020 , 30, 2005243	4.6	14
13	Hydrophobic Janus Foam Motors: Self-Propulsion and On-The-Fly Oil Absorption. <i>Micromachines</i> , 2018 , 9,	3.3	13
12	Highly active Ta2O5 microcubic single crystals: facet energy calculation, facile fabrication and enhanced photocatalytic activity of hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16562-16568	13.13	13
11	Surface Charge-Reversible Tubular Micromotors for Extraction of Nucleic Acids in Microsystems. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2503-2511	4.5	10
10	Mg-Based Micromotors with Motion Responsive to Dual Stimuli. <i>Research</i> , 2020 , 2020, 6213981	7.8	10
9	Single crystalline tantalum oxychloride microcubes: controllable synthesis, formation mechanism and enhanced photocatalytic hydrogen production activity. <i>Chemical Communications</i> , 2015 , 51, 12455-8	5.8	8
8	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	3.1	8
7	NIR light-steered magnetic liquid marbles with switchable positive/negative phototaxis. <i>Applied Materials Today</i> , 2020 , 19, 100595	6.6	7
6	Effect of solvents and reaction parameters on the morphology of Ta2O5 and photocatalytic activity. <i>Journal of Molecular Liquids</i> , 2018 , 269, 211-216	6	6
5	Cooperative transport by flocking phototactic micromotors. <i>Nanoscale Advances</i> ,	5.1	3
4	Semiconductors: Light-Steered Isotropic Semiconductor Micromotors (Adv. Mater. 3/2017). <i>Advanced Materials</i> , 2017 , 29,	24	2
3	Phototactic micromotor assemblies in dynamic line formations for wide-range micromanipulations. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5079-5087	7.1	2
2	Photochemical micromotor of eccentric core in isotropic hollow shell exhibiting multimodal motion behavior. <i>Applied Materials Today</i> , 2022 , 26, 101371	6.6	1
1	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). <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1970006	3.1	