

Chuanrui Chen

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,358
citations

201385

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276539

41
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42
all docs

42
docs citations

42
times ranked

2837
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromotor-enabled active drug delivery for in vivo treatment of stomach infection. <i>Nature Communications</i> , 2017, 8, 272.	5.8	424
2	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
3	Light-Steered Isotropic Semiconductor Micromotors. <i>Advanced Materials</i> , 2017, 29, 1603374.	11.1	246
4	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
5	Sweat-based wearable energy harvesting-storage hybrid textile devices. <i>Energy and Environmental Science</i> , 2018, 11, 3431-3442.	15.6	196
6	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, 4976-4983.	2.8	172
7	Single-Component TiO ₂ Tubular Microengines with Motion Controlled by Light-Induced Bubbles. <i>Small</i> , 2015, 11, 2564-2570.	5.2	154
8	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
9	Biomimetic Platelet-Camouflaged Nanorobots for Binding and Isolation of Biological Threats. <i>Advanced Materials</i> , 2018, 30, 1704800.	11.1	139
10	Magnesium-Based Micromotors: Water-Powered Propulsion, Multifunctionality, and Biomedical and Environmental Applications. <i>Small</i> , 2018, 14, e1704252.	5.2	132
11	Intelligent Micro/nanomotors with Taxis. <i>Accounts of Chemical Research</i> , 2018, 51, 3006-3014.	7.6	118
12	Transient Micromotors That Disappear When No Longer Needed. <i>ACS Nano</i> , 2016, 10, 10389-10396.	7.3	109
13	Chemotactic Guidance of Synthetic Organic/Inorganic Payloads Functionalized Sperm Micromotors. <i>Advanced Biology</i> , 2018, 2, 1700160.	3.0	98
14	Structure-Dependent Optical Modulation of Propulsion and Collective Behavior of Acoustic/Light-Driven Hybrid Microbowls. <i>Advanced Functional Materials</i> , 2019, 29, 1809003.	7.8	79
15	Hybrid Nanovehicles: One Machine, Two Engines. <i>Advanced Functional Materials</i> , 2019, 29, 1806290.	7.8	77
16	Light-controlled bubble propulsion of amorphous TiO ₂ /Au Janus micromotors. <i>RSC Advances</i> , 2016, 6, 10697-10703.	1.7	72
17	Chemical/Light-Powered Hybrid Micromotors with On-the-Fly Optical Brakes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8110-8114.	7.2	67
18	Nanoconfined Atomic Layer Deposition of TiO ₂ /Pt Nanotubes: Toward Ultrasmall Highly Efficient Catalytic Nanorockets. <i>Advanced Functional Materials</i> , 2017, 27, 1700598.	7.8	54

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19	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 241-245.	7.2	54
20	Fiber-shaped organic electrochemical transistors for biochemical detections with high sensitivity and stability. <i>Science China Chemistry</i> , 2020, 63, 1281-1288.	4.2	51
21	Oppositely charged twin-head electrospray: a general strategy for building Janus particles with controlled structures. <i>Nanoscale</i> , 2013, 5, 2055.	2.8	40
22	A fiber-shaped neural probe with alterable elastic moduli for direct implantation and stable electronic-brain interfaces. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4387-4394.	2.9	39
23	Motile Micropump Based on Synthetic Micromotors for Dynamic Micropatterning. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28507-28514.	4.0	37
24	Rotibot: Use of Rotifers as Self-Propelling Biohybrid Microcleaners. <i>Advanced Functional Materials</i> , 2019, 29, 1900658.	7.8	37
25	Parallel Label-Free Isolation of Cancer Cells Using Arrays of Acoustic Microstreaming Traps. <i>Advanced Materials Technologies</i> , 2019, 4, 1800374.	3.0	35
26	Chemical/Light-Powered Hybrid Micromotors with On-the-Fly Optical Brakes. <i>Angewandte Chemie</i> , 2018, 130, 8242-8246.	1.6	34
27	Implantable Fiber Biosensors Based on Carbon Nanotubes. <i>Accounts of Materials Research</i> , 2021, 2, 138-146.	5.9	31
28	A perovskite solar cell textile that works at ~40 to 160 °C. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5476-5483.	5.2	25
29	Utilizing Iron's Attractive Chemical and Magnetic Properties in Microrocket Design, Extended Motion, and Unique Performance. <i>Small</i> , 2017, 13, 1700035.	5.2	24
30	Hydrophobic Janus Foam Motors: Self-Propulsion and On-The-Fly Oil Absorption. <i>Micromachines</i> , 2018, 9, 23.	1.4	22
31	Injectable Fiber Electronics for Tumor Treatment. <i>Advanced Fiber Materials</i> , 2022, 4, 246-255.	7.9	21
32	Flexible dopamine-sensing fiber based on potentiometric method for long-term detection in vivo. <i>Science China Chemistry</i> , 2021, 64, 1763-1769.	4.2	18
33	A fiber-shaped light-emitting pressure sensor for visualized dynamic monitoring. <i>Journal of Materials Chemistry C</i> , 2020, 8, 935-942.	2.7	16
34	Recent advances of tissue-interfaced chemical biosensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3371-3381.	2.9	15
35	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie</i> , 2018, 130, 247-251.	1.6	14
36	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

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37	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
38	An Anti-Biofouling Flexible Fiber Biofuel Cell Working in the Brain. <i>Small Methods</i> , 2022, 6, e2200142.	4.6	11
39	Semiconductors: Light-Steered Isotropic Semiconductor Micromotors (<i>Adv. Mater.</i> 3/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	5
40	The Rise of Soft Neural Electronics. <i>Giant</i> , 2021, 8, 100075.	2.5	5
41	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.	1.2	0