

Xiaohui Yan

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,946
citations

430874

18
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

2312
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017, 2, .	17.6	594
2	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 5333-5342.	14.9	210
3	Magnetic Actuation Based Motion Control for Microrobots: An Overview. <i>Micromachines</i> , 2015, 6, 1346-1364.	2.9	170
4	Photoacoustic Imaging-Trackable Magnetic Microswimmers for Pathogenic Bacterial Infection Treatment. <i>ACS Nano</i> , 2020, 14, 2880-2893.	14.6	155
5	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.	8.3	136
6	Enzyme-Powered Liquid Metal Nanobots Endowed with Multiple Biomedical Functions. <i>ACS Nano</i> , 2021, 15, 11543-11554.	14.6	91
7	Genetically engineered magnetic nanocages for cancer magneto-catalytic theranostics. <i>Nature Communications</i> , 2020, 11, 5421.	12.8	84
8	Citric Acid/Cysteine-Modified Cellulose-Based Materials: Green Preparation and Their Applications in Anticounterfeiting, Chemical Sensing, and UV Shielding. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11387-11394.	6.7	55
9	Transdermal Delivery of siRNA through Microneedle Array. <i>Scientific Reports</i> , 2016, 6, 21422.	3.3	54
10	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	4.3	52
11	Cost-Effective, High-Yield Production of Biotemplated Catalytic Tubular Micromotors as Self-Propelled Microcleaners for Water Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31226-31235.	8.0	37
12	Active magnetic Fe ³⁺ -doped BiOBr micromotors as efficient solar photo-fenton catalyst. <i>Journal of Cleaner Production</i> , 2020, 252, 119573.	9.3	36
13	Microstructure and mechanical properties of a novel refractory AlNbTiZr high-entropy alloy. <i>Materials Science and Technology</i> , 2018, 34, 1309-1315.	1.6	34
14	Three-Dimensional Hierarchical HRP-MIL-100(Fe) ₂ @Fe ₃ O ₄ Janus Magnetic Micromotor as a Smart Active Platform for Detection and Degradation of Hydroquinone. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6484-6498.	8.0	34
15	3-D Autonomous Manipulation System of Helical Microswimmers With Online Compensation Update. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1380-1391.	5.2	26
16	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.	2.3	25
17	Noninvasive magnetic resonance/photoacoustic imaging for photothermal therapy response monitoring. <i>Nanoscale</i> , 2018, 10, 5864-5868.	5.6	25
18	Bioinspired 3D hierarchical BSA-NiCo ₂ O ₄ @MnO ₂ /C multifunctional micromotors for simultaneous spectrophotometric determination of enzyme activity and pollutant removal. <i>Journal of Cleaner Production</i> , 2021, 309, 127294.	9.3	21

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19	Swimming Characteristics of Bioinspired Helical Microswimmers Based on Soft Lotus-Root Fibers. <i>Micromachines</i> , 2017, 8, 349.	2.9	18
20	Spirulina-templated porous hollow carbon@magnetite core-shell microswimmers. <i>Applied Materials Today</i> , 2021, 22, 100962.	4.3	17
21	Molecular Transport of a Magnetic Nanoparticle Swarm Towards Thrombolytic Therapy. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5605-5612.	5.1	17
22	Construction of unconventional fluorescent poly(amino ester) polyols as sensing platform for label-free detection of Fe ³⁺ ions and l-cysteine. <i>Journal of Materials Science</i> , 2018, 53, 15717-15725.	3.7	15
23	Citrate-based fluorophores in polymeric matrix by easy and green in situ synthesis for full-band UV shielding and emissive transparent display. <i>Journal of Materials Science</i> , 2019, 54, 1236-1247.	3.7	13
24	Endocytosis-Enabled Construction of Silica Nanochannels Crossing Living Cell Membrane for Transmembrane Drug Transport. <i>Advanced Functional Materials</i> , 2020, 30, 2002761.	14.9	11
25	One-step synthesis and assembly of spindle-shaped akaganite nanoparticles via sonochemistry. <i>CrystEngComm</i> , 2018, 20, 2989-2995.	2.6	6
26	Importance of Robust and Reliable Nanochannel Sealing for Enhancing Drug Delivery Efficacy of Hollow Mesoporous Nanocontainer. <i>ACS Applied Bio Materials</i> , 2020, 3, 1434-1443.	4.6	6
27	Multiple deformation mechanisms in the stone of a sea urchin tooth. <i>CrystEngComm</i> , 2016, 18, 5718-5723.	2.6	2
28	Effect of Rare Earth Metals on the Properties of Zn-20Sn High-Temperature Lead-Free Solder. <i>Journal of Electronic Materials</i> , 2019, 48, 2685-2690.	2.2	2
29	Study on microstructure and properties of Zn-20Sn-0.2Ni-xRE solders. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 824-831.	2.2	0