

Ben Wang

List of Publications by Year in descending order

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43
papers

4,079
citations

218677

26
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

4238
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Swarm Microrobotics. IEEE Transactions on Robotics, 2022, 38, 1531-1551.	10.3	45
2	Solution-processable, soft, self-adhesive, and conductive polymer composites for soft electronics. Nature Communications, 2022, 13, 358.	12.8	160
3	Analysis of High-Speed Milling Surface Topography and Prediction of Wear Resistance. Materials, 2022, 15, 1707.	2.9	3
4	Liquid metal droplets enabled soft robots. Applied Materials Today, 2022, 27, 101423.	4.3	31
5	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. Advanced Materials, 2021, 33, e2002047.	21.0	256
6	Recyclable, weldable, mechanically durable, and programmable liquid metal-elastomer composites. Journal of Materials Chemistry A, 2021, 9, 10953-10965.	10.3	42
7	Endoscopy-assisted magnetic navigation of biohybrid soft microrobots with rapid endoluminal delivery and imaging. Science Robotics, 2021, 6, .	17.6	164
8	The Wear Resistance Characteristics Analysis of the Ball-End Milling Topography Surface. Integrated Ferroelectrics, 2021, 218, 129-138.	0.7	1
9	Analysis of Wear Resistance Based on Milling Topography. Integrated Ferroelectrics, 2021, 218, 119-128.	0.7	4
10	Fabrication of bioinspired edible liquid marble with phase transition and tunable water barrier property. Bio-Design and Manufacturing, 2021, 4, 889-901.	7.7	10
11	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. Nano Today, 2021, 40, 101283.	11.9	61
12	Liquid Metal-Based Soft Microfluidics. Small, 2020, 16, e1903841.	10.0	146
13	Study on Fatigue Characteristics of Bionic Functional Surface of Hardened Steel. Materials, 2020, 13, 4130.	2.9	1
14	Bioinspired Tough Organohydrogel Dynamic Interfaces Enabled Subzero Temperature Antifrosting, Deicing, and Antiadhesion. ACS Applied Materials & Interfaces, 2020, 12, 55501-55509.	8.0	16
15	Analysis and Prediction of Wear Performance of Different Topography Surface. Materials, 2020, 13, 5056.	2.9	7
16	Light-Driven Hovering of a Magnetic Microswarm in Fluid. ACS Nano, 2020, 14, 6990-6998.	14.6	69
17	Bioinspired Superhydrophobic Surface Constructed from Hydrophilic Building Blocks: A Case Study of Core-Shell Polypyrrole-Coated Copper Nanoneedles. Coatings, 2020, 10, 347.	2.6	5
18	Light-Triggered Catalytic Performance Enhancement Using Magnetic Nanomotor Ensembles. Research, 2020, 2020, 6380794.	5.7	24

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19	Bubble-Assisted Three-Dimensional Ensemble of Nanomotors for Improved Catalytic Performance. <i>IScience</i> , 2019, 19, 760-771.	4.1	33
20	Miniature Bioreactors: On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications (<i>Adv. Sci.</i> 10/2019). <i>Advanced Science</i> , 2019, 6, 1970061.	11.2	0
21	Dynamic Morphology and Swimming Properties of Rotating Miniature Swimmers With Soft Tails. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 924-934.	5.8	79
22	On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. <i>Advanced Science</i> , 2019, 6, 1802033.	11.2	39
23	Hydrophobicity Influence on Swimming Performance of Magnetically Driven Miniature Helical Swimmers. <i>Micromachines</i> , 2019, 10, 175.	2.9	15
24	Collective Behavior of Reconfigurable Magnetic Droplets via Dynamic Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1630-1637.	8.0	66
25	Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia. <i>Advanced Functional Materials</i> , 2018, 28, 1705701.	14.9	112
26	Recent progress on micro- and nano-robots: towards in vivo tracking and localization. <i>Quantitative Imaging in Medicine and Surgery</i> , 2018, 8, 461-479.	2.0	64
27	Ultra-extensible ribbon-like magnetic microswarm. <i>Nature Communications</i> , 2018, 9, 3260.	12.8	298
28	Colloidal Particles: Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia (<i>Adv. Funct. Mater.</i> 25/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870174.	14.9	1
29	Selective surface tension induced patterning on flexible textiles via click chemistry. <i>Nanoscale</i> , 2017, 9, 4777-4786.	5.6	11
30	Rotating soft-tail millimeter-scaled swimmers with superhydrophilic or superhydrophobic surfaces. , 2016, , .		7
31	Nanoparticles: Bioinspired Superhydrophobic Fe ₃ O ₄ @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill (<i>Adv. Mater. Interfaces</i> 13/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	3.7	2
32	Bioinspired Superhydrophobic Fe ₃ O ₄ @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500234.	3.7	76
33	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. <i>Nano Letters</i> , 2015, 15, 6592-6600.	9.1	43
34	Biomimetic super-lyophobic and super-lyophilic materials applied for oil/water separation: a new strategy beyond nature. <i>Chemical Society Reviews</i> , 2015, 44, 336-361.	38.1	1,359
35	A simple route to transform normal hydrophilic cloth into a superhydrophobic-superhydrophilic hybrid surface. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7845-7852.	10.3	63
36	pH-responsive smart fabrics with controllable wettability in different surroundings. <i>RSC Advances</i> , 2014, 4, 14684.	3.6	45

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37	Transparent and Superhydrophobic Co ₃ O ₄ Microfiber Films. Chemistry Letters, 2014, 43, 100-101.	1.3	16
38	Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. Applied Physics Letters, 2013, 103, .	3.3	80
39	pH-responsive bidirectional oil/water separation material. Chemical Communications, 2013, 49, 9416.	4.1	170
40	Methodology for Robust Superhydrophobic Fabrics and Sponges from In Situ Growth of Transition Metal/Metal Oxide Nanocrystals with Thiol Modification and Their Applications in Oil/Water Separation. ACS Applied Materials & Interfaces, 2013, 5, 1827-1839.	8.0	251
41	Conductive and transparent superhydrophobic films on various substrates by <i>in situ</i> deposition. Applied Physics Letters, 2013, 102, .	3.3	26
42	A Cooperative Downlink Power Setting Scheme for CA-Based Femtocells. , 2012, , .		1
43	Advances in the theory of superhydrophobic surfaces. Journal of Materials Chemistry, 2012, 22, 20112.	6.7	177