

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	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
2	Ultra-extensible ribbon-like magnetic microswarm. <i>Nature Communications</i> , 2018, 9, 3260.	12.8	298
3	Trends in Micro/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. <i>Advanced Materials</i> , 2021, 33, e2002047.	21.0	256
4	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. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1827-1839.	8.0	251
5	Advances in the theory of superhydrophobic surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 20112.	6.7	177
6	pH-responsive bidirectional oil/water separation material. <i>Chemical Communications</i> , 2013, 49, 9416.	4.1	170
7	Endoscopy-assisted magnetic navigation of biohybrid soft microrobots with rapid endoluminal delivery and imaging. <i>Science Robotics</i> , 2021, 6, .	17.6	164
8	Solution-processable, soft, self-adhesive, and conductive polymer composites for soft electronics. <i>Nature Communications</i> , 2022, 13, 358.	12.8	160
9	Liquid Metal-Based Soft Microfluidics. <i>Small</i> , 2020, 16, e1903841.	10.0	146
10	Reconfigurable Swarms of Ferromagnetic Colloids for Enhanced Local Hyperthermia. <i>Advanced Functional Materials</i> , 2018, 28, 1705701.	14.9	112
11	Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	80
12	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
13	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
14	Light-Driven Hovering of a Magnetic Microswarm in Fluid. <i>ACS Nano</i> , 2020, 14, 6990-6998.	14.6	69
15	Collective Behavior of Reconfigurable Magnetic Droplets via Dynamic Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1630-1637.	8.0	66
16	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
17	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
18	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. <i>Nano Today</i> , 2021, 40, 101283.	11.9	61

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19	pH-responsive smart fabrics with controllable wettability in different surroundings. RSC Advances, 2014, 4, 14684.	3.6	45
20	A Survey on Swarm Microrobotics. IEEE Transactions on Robotics, 2022, 38, 1531-1551.	10.3	45
21	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. Nano Letters, 2015, 15, 6592-6600.	9.1	43
22	Recyclable, weldable, mechanically durable, and programmable liquid metal-elastomer composites. Journal of Materials Chemistry A, 2021, 9, 10953-10965.	10.3	42
23	On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. Advanced Science, 2019, 6, 1802033.	11.2	39
24	Bubble-Assisted Three-Dimensional Ensemble of Nanomotors for Improved Catalytic Performance. IScience, 2019, 19, 760-771.	4.1	33
25	Liquid metal droplets enabled soft robots. Applied Materials Today, 2022, 27, 101423.	4.3	31
26	Conductive and transparent superhydrophobic films on various substrates by <i>in situ</i> deposition. Applied Physics Letters, 2013, 102, .	3.3	26
27	Light-Triggered Catalytic Performance Enhancement Using Magnetic Nanomotor Ensembles. Research, 2020, 2020, 6380794.	5.7	24
28	Transparent and Superhydrophobic Co ₃ O ₄ Microfiber Films. Chemistry Letters, 2014, 43, 100-101.	1.3	16
29	Bioinspired Tough Organohydrogel Dynamic Interfaces Enabled Subzero Temperature Antifrosting, Deicing, and Antiadhesion. ACS Applied Materials & Interfaces, 2020, 12, 55501-55509.	8.0	16
30	Hydrophobicity Influence on Swimming Performance of Magnetically Driven Miniature Helical Swimmers. Micromachines, 2019, 10, 175.	2.9	15
31	Selective surface tension induced patterning on flexible textiles via click chemistry. Nanoscale, 2017, 9, 4777-4786.	5.6	11
32	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
33	Rotating soft-tail millimeter-scaled swimmers with superhydrophilic or superhydrophobic surfaces. , 2016, , .		7
34	Analysis and Prediction of Wear Performance of Different Topography Surface. Materials, 2020, 13, 5056.	2.9	7
35	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
36	Analysis of Wear Resistance Based on Milling Topography. Integrated Ferroelectrics, 2021, 218, 119-128.	0.7	4

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37	Analysis of High-Speed Milling Surface Topography and Prediction of Wear Resistance. <i>Materials</i> , 2022, 15, 1707.	2.9	3
38	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
39	A Cooperative Downlink Power Setting Scheme for CA-Based Femtocells. , 2012, , .		1
40	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
41	Study on Fatigue Characteristics of Bionic Functional Surface of Hardened Steel. <i>Materials</i> , 2020, 13, 4130.	2.9	1
42	The Wear Resistance Characteristics Analysis of the Ball-End Milling Topography Surface. <i>Integrated Ferroelectrics</i> , 2021, 218, 129-138.	0.7	1
43	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