

Shuai Huang

List of Publications by Year in descending order

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44
papers

1,551
citations

361413

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302126

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docs citations

44
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Driven One-Step Oil Removal from Oil Spill on Water via Selective-Wettability Steel Mesh. ACS Applied Materials & Interfaces, 2014, 6, 19858-19865.	8.0	226
2	Creating robust superamphiphobic coatings for both hard and soft materials. Journal of Materials Chemistry A, 2015, 3, 20999-21008.	10.3	123
3	Barrel-Shaped Oil Skimmer Designed for Collection of Oil from Spills. Advanced Materials Interfaces, 2015, 2, 1500350.	3.7	112
4	Atmospheric Pressure Plasma Functionalized Polymer Mesh: An Environmentally Friendly and Efficient Tool for Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2016, 4, 6828-6837.	6.7	91
5	Controllable Water Adhesion and Anisotropic Sliding on Patterned Superhydrophobic Surface for Droplet Manipulation. Journal of Physical Chemistry C, 2016, 120, 7233-7240.	3.1	89
6	Fabrication of superoleophobic surfaces on Al substrates. Journal of Materials Chemistry A, 2013, 1, 14783.	10.3	79
7	A simple immersion approach for fabricating superhydrophobic Mg alloy surfaces. Applied Surface Science, 2013, 266, 445-450.	6.1	78
8	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949.	8.0	72
9	Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643.	10.3	71
10	Stability of plasma treated superhydrophobic surfaces under different ambient conditions. Journal of Colloid and Interface Science, 2016, 470, 221-228.	9.4	67
11	An atomic-scale and high efficiency finishing method of zirconia ceramics by using magnetorheological finishing. Applied Surface Science, 2018, 444, 569-577.	6.1	39
12	Magnetically Responsive Superhydrophobic Surface with Switchable Adhesivity Based on Electrostatic Air Spray Deposition. ACS Applied Materials & Interfaces, 2021, 13, 20885-20896.	8.0	38
13	Surface modification of tube inner wall by transferred atmospheric pressure plasma. Applied Surface Science, 2016, 389, 967-976.	6.1	37
14	Fabrication of slippery Zn surface with improved water-impellent, condensation and anti-icing properties. Applied Surface Science, 2019, 470, 1139-1147.	6.1	36
15	Characteristic and Application Study of Cold Atmospheric-Pressure Nitrogen Plasma Jet. IEEE Transactions on Plasma Science, 2015, 43, 1959-1968.	1.3	35
16	Hydrophilic patterning of superhydrophobic surfaces by atmospheric-pressure plasma jet. Micro and Nano Letters, 2015, 10, 105-108.	1.3	35
17	Novel cavitation fluid jet polishing process based on negative pressure effects. Ultrasonics Sonochemistry, 2018, 42, 339-346.	8.2	32
18	Fabrication of durable superhydrophobic Mg alloy surface with water-repellent, temperature-resistant, and self-cleaning properties. Vacuum, 2020, 173, 109172.	3.5	32

#	ARTICLE	IF	CITATIONS
19	Nanoscale SiO ₂ -coated superhydrophobic meshes via electro-spray deposition for oil-water separation. <i>Powder Technology</i> , 2020, 373, 82-92.	4.2	24
20	Automated vision positioning system for dicing semiconductor chips using improved template matching method. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 2669-2678.	3.0	22
21	New technology for cutting ferrous metal with diamond tools. <i>Diamond and Related Materials</i> , 2018, 88, 32-42.	3.9	21
22	Diamond wear properties in cold plasma jet. <i>Diamond and Related Materials</i> , 2014, 48, 96-103.	3.9	18
23	Fabrication of Long-Term Underwater Superoleophobic Al Surfaces and Application on Underwater Lossless Manipulation of Non-Polar Organic Liquids. <i>Scientific Reports</i> , 2016, 6, 31818.	3.3	18
24	Patterning of water traps using close-loop hydrophilic micro grooves. <i>Applied Surface Science</i> , 2016, 389, 447-454.	6.1	16
25	Power-free water pump based on a superhydrophobic surface: generation of a mushroom-like jet and anti-gravity long-distance transport. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13771-13777.	10.3	16
26	Adjusting the stability of plasma treated superhydrophobic surfaces by different modifications or microstructures. <i>RSC Advances</i> , 2016, 6, 79437-79447.	3.6	14
27	Plasma Hydrophilization of Superhydrophobic Surface and Its Aging Behavior: The Effect of Micro/nanostructured Surface. <i>Surface and Interface Analysis</i> , 2016, 48, 368-372.	1.8	13
28	Directional transport of water droplets on superhydrophobic aluminium alloy surface. <i>Micro and Nano Letters</i> , 2015, 10, 343-346.	1.3	12
29	Wettability-gradient surface fabricated by combining electrochemical etching and lithography. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 979-984.	2.4	12
30	Simultaneous and long-lasting hydrophilization of inner and outer wall surfaces of polytetrafluoroethylene tubes by transferring atmospheric pressure plasmas. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 365202.	2.8	11
31	Study of superhydrophobic surface in self-cleaning of magnetorheological fluid. <i>Journal of Materials Science</i> , 2018, 53, 1769-1780.	3.7	11
32	Vein-like directional transport platform of water on open aluminium substrate. <i>Micro and Nano Letters</i> , 2016, 11, 269-272.	1.3	10
33	Development of a postprocessor for head tilting-head rotation type five-axis machine tool with double limit rotation axis. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3523-3534.	3.0	7
34	Flexible cold plasma jet with controllable length and temperature for hydrophilic modification. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
35	Bamboo-joint-like platforms for fast, long-distance, directional, and spontaneous transport of fluids. <i>Biomicrofluidics</i> , 2020, 14, 034105.	2.4	7
36	Superhydrophobic micro-tube fabricated via one-step plasma polymerization for lossless droplet transfer. <i>Surface and Coatings Technology</i> , 2021, 421, 127272.	4.8	6

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37	Study on distribution characteristics of diamond particles under high-voltage electrostatic field. International Journal of Advanced Manufacturing Technology, 2018, 96, 1393-1401.	3.0	5
38	Tool Wear Properties of Diamond-Cutting Ferrous Metal. Advanced Materials Research, 0, 1027, 36-39.	0.3	3
39	Oil Spills: Barrel-Shaped Oil Skimmer Designed for Collection of Oil from Spills (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.7	2
40	One-step modification method to fabricate wettability patterns on aluminium substrate. Micro and Nano Letters, 2016, 11, 697-701.	1.3	2
41	Fabrication of extreme wettability patterns with water-film protection for organic liquids. Journal of Dispersion Science and Technology, 2017, 38, 566-569.	2.4	2
42	Design and Simulation of the Cleaning Parts of Comb-Type Cotton Picker. Advanced Materials Research, 0, 201-203, 286-289.	0.3	0
43	Experiment Study of Pulse Electrochemical Finishing of GCr15 Bearing Steel. Advanced Materials Research, 0, 705, 203-208.	0.3	0
44	Friction and Wear Properties of S136/WC-Co Friction Pair in Cold Atmospheric Pressure Plasma Jet. Advanced Materials Research, 2014, 1027, 298-301.	0.3	0