

Shuai Huang

List of Publications by Year in descending order

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44
papers

1,551
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times ranked

1603
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Magnetically Responsive Superhydrophobic Surface with Switchable Adhesivity Based on Electrostatic Air Spray Deposition. ACS Applied Materials & Interfaces, 2021, 13, 20885-20896. | 8.0 | 38 |
| 2 | Superhydrophobic micro-tube fabricated via one-step plasma polymerization for lossless droplet transfer. Surface and Coatings Technology, 2021, 421, 127272. | 4.8 | 6 |
| 3 | Bamboo-joint-like platforms for fast, long-distance, directional, and spontaneous transport of fluids. Biomicrofluidics, 2020, 14, 034105. | 2.4 | 7 |
| 4 | Nanoscale SiO ₂ -coated superhydrophobic meshes via electro-spray deposition for oil-water separation. Powder Technology, 2020, 373, 82-92. | 4.2 | 24 |
| 5 | Fabrication of durable superhydrophobic Mg alloy surface with water-repellent, temperature-resistant, and self-cleaning properties. Vacuum, 2020, 173, 109172. | 3.5 | 32 |
| 6 | Automated vision positioning system for dicing semiconductor chips using improved template matching method. International Journal of Advanced Manufacturing Technology, 2019, 100, 2669-2678. | 3.0 | 22 |
| 7 | Fabrication of slippery Zn surface with improved water-impellent, condensation and anti-icing properties. Applied Surface Science, 2019, 470, 1139-1147. | 6.1 | 36 |
| 8 | Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643. | 10.3 | 71 |
| 9 | 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 |
| 10 | 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 |
| 11 | Study of superhydrophobic surface in self-cleaning of magnetorheological fluid. Journal of Materials Science, 2018, 53, 1769-1780. | 3.7 | 11 |
| 12 | Novel cavitation fluid jet polishing process based on negative pressure effects. Ultrasonics Sonochemistry, 2018, 42, 339-346. | 8.2 | 32 |
| 13 | Development of a postprocessor for head tilting-head rotation type five-axis machine tool with double limit rotation axis. International Journal of Advanced Manufacturing Technology, 2018, 97, 3523-3534. | 3.0 | 7 |
| 14 | New technology for cutting ferrous metal with diamond tools. Diamond and Related Materials, 2018, 88, 32-42. | 3.9 | 21 |
| 15 | Flexible cold plasma jet with controllable length and temperature for hydrophilic modification. Physics of Plasmas, 2018, 25, . | 1.9 | 7 |
| 16 | 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 |
| 17 | Wettability-gradient surface fabricated by combining electrochemical etching and lithography. Journal of Dispersion Science and Technology, 2017, 38, 979-984. | 2.4 | 12 |
| 18 | One-step modification method to fabricate wettability patterns on aluminium substrate. Micro and Nano Letters, 2016, 11, 697-701. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Atmospheric Pressure Plasma Functionalized Polymer Mesh: An Environmentally Friendly and Efficient Tool for Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6828-6837. | 6.7 | 91 |
| 20 | Patterning of water traps using close-loop hydrophilic micro grooves. <i>Applied Surface Science</i> , 2016, 389, 447-454. | 6.1 | 16 |
| 21 | Surface modification of tube inner wall by transferred atmospheric pressure plasma. <i>Applied Surface Science</i> , 2016, 389, 967-976. | 6.1 | 37 |
| 22 | Adjusting the stability of plasma treated superhydrophobic surfaces by different modifications or microstructures. <i>RSC Advances</i> , 2016, 6, 79437-79447. | 3.6 | 14 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Vein-like directional transport platform of water on open aluminium substrate. <i>Micro and Nano Letters</i> , 2016, 11, 269-272. | 1.3 | 10 |
| 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 | Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2942-2949. | 8.0 | 72 |
| 29 | Controllable Water Adhesion and Anisotropic Sliding on Patterned Superhydrophobic Surface for Droplet Manipulation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7233-7240. | 3.1 | 89 |
| 30 | Stability of plasma treated superhydrophobic surfaces under different ambient conditions. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 221-228. | 9.4 | 67 |
| 31 | Oil Spills: Barrel-Shaped Oil Skimmer Designed for Collection of Oil from Spills (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgrBT /Overlock 10 T | 3.7 | 102 |
| 32 | Barrel-Shaped Oil Skimmer Designed for Collection of Oil from Spills. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500350. | 3.7 | 112 |
| 33 | Characteristic and Application Study of Cold Atmospheric-Pressure Nitrogen Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 1959-1968. | 1.3 | 35 |
| 34 | Hydrophilic patterning of superhydrophobic surfaces by atmospheric-pressure plasma jet. <i>Micro and Nano Letters</i> , 2015, 10, 105-108. | 1.3 | 35 |
| 35 | Creating robust superamphiphobic coatings for both hard and soft materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20999-21008. | 10.3 | 123 |
| 36 | Directional transport of water droplets on superhydrophobic aluminium alloy surface. <i>Micro and Nano Letters</i> , 2015, 10, 343-346. | 1.3 | 12 |

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|----|--|------|-----------|
| 37 | Friction and Wear Properties of S136/WC-Co Friction Pair in Cold Atmospheric Pressure Plasma Jet. <i>Advanced Materials Research</i> , 2014, 1027, 298-301. | 0.3 | 0 |
| 38 | Self-Driven One-Step Oil Removal from Oil Spill on Water via Selective-Wettability Steel Mesh. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19858-19865. | 8.0 | 226 |
| 39 | Diamond wear properties in cold plasma jet. <i>Diamond and Related Materials</i> , 2014, 48, 96-103. | 3.9 | 18 |
| 40 | A simple immersion approach for fabricating superhydrophobic Mg alloy surfaces. <i>Applied Surface Science</i> , 2013, 266, 445-450. | 6.1 | 78 |
| 41 | Fabrication of superoleophobic surfaces on Al substrates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14783. | 10.3 | 79 |
| 42 | Design and Simulation of the Cleaning Parts of Comb-Type Cotton Picker. <i>Advanced Materials Research</i> , 0, 201-203, 286-289. | 0.3 | 0 |
| 43 | Experiment Study of Pulse Electrochemical Finishing of GCr15 Bearing Steel. <i>Advanced Materials Research</i> , 0, 705, 203-208. | 0.3 | 0 |
| 44 | Tool Wear Properties of Diamond-Cutting Ferrous Metal. <i>Advanced Materials Research</i> , 0, 1027, 36-39. | 0.3 | 3 |