Jiyu Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8766898/publications.pdf

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38	603	687363	642732
papers	citations	13 h-index	23 g-index

38	38	38	685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Stability of plasma treated superhydrophobic surfaces under different ambient conditions. Journal of Colloid and Interface Science, 2016, 470, 221-228.	9.4	67
3	Maskless Hydrophilic Patterning of the Superhydrophobic Aluminum Surface by an Atmospheric Pressure Microplasma Jet for Water Adhesion Controlling. ACS Applied Materials & Interfaces, 2018, 10, 7497-7503.	8.0	46
4	Superhydrophilicâ€“superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508.	3.7	46
5	Superaerophilic Wedge-Shaped Channels with Precovered Air Film for Efficient Subaqueous Bubbles/Jet Transportation and Continuous Oxygen Supplementation. ACS Applied Materials & Interfaces, 2019, 11, 23808-23814.	8.0	32
6	Unpowered oil absorption by a wettability sponge based oil skimmer. RSC Advances, 2016, 6, 88001-88009.	3.6	22
7	A universal method to create surface patterns with extreme wettability on metal substrates. Journal of Colloid and Interface Science, 2019, 535, 100-110.	9.4	21
8	Soft elastic superhydrophobic cotton: A new material for contact time reduction in droplet bouncing. Surface and Coatings Technology, 2018, 347, 420-426.	4.8	20
9	Through-mask electrochemical micromachining of micro pillar arrays on aluminum. Surface and Coatings Technology, 2020, 401, 126277.	4.8	19
10	A green, maskless, and universal preparation method for patterned surfaces on various metal substrates. Applied Surface Science, 2020, 514, 145838.	6.1	19
11	Water strider-inspired design of a water walking robot using superhydrophobic Al surface. Journal of Dispersion Science and Technology, 2018, 39, 1840-1847.	2.4	18
12	PDMS mesh with reversible super-wettability for oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128462.	4.7	16
13	Adjusting the stability of plasma treated superhydrophobic surfaces by different modifications or microstructures. RSC Advances, 2016, 6, 79437-79447.	3.6	14
14	Maintenance of superhydrophobic concrete for high compressive strength. Journal of Materials Science, 2021, 56, 4588-4598.	3.7	14
15	Plasma Hydrophilization of Superhydrophobic Surface and Its Aging Behavior: The Effect of Micro/nanostructured Surface. Surface and Interface Analysis, 2016, 48, 368-372.	1.8	13
16	Droplet Mechanical Hand Based on Anisotropic Water Adhesion of Hydrophobicâ€“Superhydrophobic Patterned Surfaces. Langmuir, 2019, 35, 935-942.	3.5	13
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	An environmentally-friendly method to fabricate extreme wettability patterns on metal substrates with good time stability. Applied Surface Science, 2019, 494, 880-885.	6.1	11

#	Article	IF	Citations
19	Improving surface wettability and adhesion property of polytetrafluoroethylene by atmospheric-pressure ammonia water-mixed plasma treatment. Vacuum, 2022, 196, 110763.	3.5	11
20	Veinâ€like directional transport platform of water on open aluminiuml substrate. Micro and Nano Letters, 2016, 11, 269-272.	1.3	10
21	Atmospheric pressure cold plasma jetâ€“assisted micro-milling TC4 titanium alloy. International Journal of Advanced Manufacturing Technology, 2021, 112, 2201-2209.	3.0	10
22	Pouringâ€type gravityâ€driven oilâ€“water separation without water bridge. Micro and Nano Letters, 2017, 12, 744-748.	1.3	8
23	Atmospheric pressure plasma jet assisted micro-milling of Inconel 718. International Journal of Advanced Manufacturing Technology, 2019, 103, 4681-4687.	3.0	8
24	Comparative study of surface modification of polyethylene by parallel-field and cross-field atmospheric pressure plasma jets. Journal of Applied Physics, 2019, 125, .	2.5	8
25	3D FEM simulation of chip breakage in turning AISI1045 with complicate-grooved insert. International Journal of Advanced Manufacturing Technology, 2020, 108, 1331-1341.	3.0	8
26	Controllable wettability of laser treated aluminum mesh for on-demand oil/water separation. Journal of Dispersion Science and Technology, 2019, 40, 1627-1636.	2.4	6
27	Electrolytic colouring method for preparing robust coloured superhydrophobic surfaces with good corrosion resistance. Micro and Nano Letters, 2019, 14, 5-10.	1.3	6
28	Development of superhydrophilic Al foil with micropore arrays via mask electrochemical machining and chemical immersion for efficient oil/water separation. Journal of Dispersion Science and Technology, 2020, 41, 1335-1345.	2.4	6
29	An environmentally friendly and cost-effective method to fabricate superhydrophobic PU sponge for oil/water separation. Journal of Dispersion Science and Technology, 2020, 41, 1136-1144.	2.4	5
30	Investigation on time stability of laser-textured patterned surfaces under different temperatures. Surface and Coatings Technology, 2020, 400, 126225.	4.8	5
31	Atmospheric pressure plasma-assisted precision turning of pure iron material. International Journal of Advanced Manufacturing Technology, 2020, 106, 5187-5197.	3.0	5
32	Longâ€lasting oil wettability patterns fabrication on superoleophobic surfaces by atmospheric pressure DBD plasma jet. Micro and Nano Letters, 2017, 12, 1000-1005.	1.3	3
33	Atmospheric pressure plasma jet and minimum quantity lubrication assisted micro-grinding of quenched GCr15. International Journal of Advanced Manufacturing Technology, 2020, 106, 191-199.	3.0	3
34	Oneâ€step modification method to fabricate wettability patterns on aluminium substrate. Micro and Nano Letters, 2016, 11, 697-701.	1.3	2
35	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
36	Reversible lossless manipulation of water droplets with largeâ€range volume. Micro and Nano Letters, 2018, 13, 896-901.	1.3	2

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37	Fabrication of superoleophobic surfaces on Zn substrates by electrochemical etching and perfluorooctanoic acid modification. Micro and Nano Letters, 2016, 11, 109-113.	1.3	1
38	Fabrication and application of superhydrophobic-superoleophilic porous Cu sponge. , 2017, , .		0