

Faze Chen

List of Publications by Year in descending order

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77
papers

6,454
citations

109321

35
h-index

76900

74
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77
all docs

77
docs citations

77
times ranked

7142
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of superhydrophobic glass surface with high adhesion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 633, 127861.	4.7	14
2	Magnet-assisted selective oil removal from water in non-open channel and continuous oil spills clean-up. <i>Separation and Purification Technology</i> , 2022, 282, 120119.	7.9	18
3	Improving surface wettability and adhesion property of polytetrafluoroethylene by atmospheric-pressure ammonia water-mixed plasma treatment. <i>Vacuum</i> , 2022, 196, 110763.	3.5	11
4	The investigation of droplet directional self-transport ability on the slippery liquid-infused surface with anisotropic structure. <i>Progress in Organic Coatings</i> , 2022, 168, 106857.	3.9	6
5	Anti-corrosion property of superhydrophobic copper mesh with one-step self-assembled perfluorothiolate monolayers. <i>Surface and Interface Analysis</i> , 2022, 54, 1087-1097.	1.8	4
6	Programmable droplet transport on multi-bioinspired slippery surface with tridirectionally anisotropic wettability. <i>Chemical Engineering Journal</i> , 2022, 449, 137831.	12.7	35
7	Fabrication of superamphiphobic surfaces with controllable oil adhesion in air. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125708.	4.7	13
8	Dodecyl Mercaptan Functionalized Copper Mesh for Water Repellence and Oil-water Separation. <i>Journal of Bionic Engineering</i> , 2021, 18, 887-899.	5.0	7
9	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
10	An environmentally friendly and cost-effective method to fabricate superhydrophobic PU sponge for oil/water separation. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1136-1144.	2.4	5
11	Superhydrophilic-superhydrophobic patterned surfaces on glass substrate for water harvesting. <i>Journal of Materials Science</i> , 2020, 55, 498-508.	3.7	46
12	Functionalized CFRP surface with water-repellence, self-cleaning and anti-icing properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124278.	4.7	29
13	Fabrication of micro-reentrant structures by liquid/gas interface shape-regulated electrochemical deposition. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 159, 103637.	13.4	29
14	An environmentally-friendly method to fabricate extreme wettability patterns on metal substrates with good time stability. <i>Applied Surface Science</i> , 2019, 494, 880-885.	6.1	11
15	Fabrication of robust superhydrophobic surfaces <i>via</i> aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17604-17612.	10.3	91
16	Robust Superhydrophobic Conical Pillars from Syringe Needle Shape to Straight Conical Pillar Shape for Droplet Pancake Bouncing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45345-45353.	8.0	56
17	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. <i>Scientific Reports</i> , 2019, 9, 7549.	3.3	41
18	Reactive silica nanoparticles turn epoxy coating from hydrophilic to super-robust superhydrophobic. <i>RSC Advances</i> , 2019, 9, 12547-12554.	3.6	28

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19	Comparative study of surface modification of polyethylene by parallel-field and cross-field atmospheric pressure plasma jets. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	8
20	Controllable wettability of laser treated aluminum mesh for on-demand oil/water separation. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 1627-1636.	2.4	6
21	Robust platform for water harvesting and directional transport. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5635-5643.	10.3	71
22	A Dendritic Nickel Cobalt Sulfide Nanostructure for Alkaline Battery Electrodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705937.	14.9	138
23	Maskless Hydrophilic Patterning of the Superhydrophobic Aluminum Surface by an Atmospheric Pressure Microplasma Jet for Water Adhesion Controlling. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7497-7503.	8.0	46
24	A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. <i>Nanoscale</i> , 2018, 10, 1920-1929.	5.6	81
25	Super-durable, non-fluorinated superhydrophobic free-standing items. <i>Journal of Materials Chemistry A</i> , 2018, 6, 357-362.	10.3	75
26	Synthesis of superhydrophobic surfaces with Wenzel and Cassieâ€ˆBaxter state: experimental evidence and theoretical insight. <i>Nanotechnology</i> , 2018, 29, 485601.	2.6	17
27	Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oilâ€ˆWater Separation Properties. <i>Langmuir</i> , 2018, 34, 13305-13311.	3.5	25
28	Electrospun Composites of Polycaprolactone and Porous Silicon Nanoparticles for the Tunable Delivery of Small Therapeutic Molecules. <i>Nanomaterials</i> , 2018, 8, 205.	4.1	13
29	Reflective Silver Thin Film Electrodes from Commercial Silver(I) Triflate via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 3724-3732.	5.0	6
30	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17633-17641.	10.3	99
31	Fabrication of extreme wettability patterns with water-film protection for organic liquids. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 566-569.	2.4	2
32	Superoleophobic surfaces on stainless steel substrates obtained by chemical bath deposition. <i>Micro and Nano Letters</i> , 2017, 12, 76-81.	1.3	19
33	Large-scale fabrication of translucent and repairable superhydrophobic spray coatings with remarkable mechanical, chemical durability and UV resistance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10622-10631.	10.3	164
34	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Liâ€ˆIon Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1604903.	14.9	22
35	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. <i>ACS Nano</i> , 2017, 11, 9259-9267.	14.6	118
36	Table Salt as a Template to Prepare Reusable Porous PVDFâ€ˆMWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. <i>Advanced Functional Materials</i> , 2017, 27, 1702926.	14.9	160

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37	Transparent conducting n-type ZnO:Sc " synthesis, optoelectronic properties and theoretical insight. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7585-7597.	5.5	46
38	Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125.	18.0	52
39	Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. <i>RSC Advances</i> , 2017, 7, 29275-29283.	3.6	52
40	Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42327-42335.	8.0	85
41	S, Ni-Co-Doped Graphene-Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. <i>Advanced Science</i> , 2017, 4, 1600214.	11.2	204
42	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
43	Long-lasting oil wettability patterns fabrication on superoleophobic surfaces by atmospheric pressure DBD plasma jet. <i>Micro and Nano Letters</i> , 2017, 12, 1000-1005.	1.3	3
44	{Ni ₄ O ₄ } Cluster Complex to Enhance the Reductive Photocurrent Response on Silicon Nanowire Photocathodes. <i>Nanomaterials</i> , 2017, 7, 33.	4.1	2
45	One-step modification method to fabricate wettability patterns on aluminium substrate. <i>Micro and Nano Letters</i> , 2016, 11, 697-701.	1.3	2
46	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
47	Patterning of water traps using close-loop hydrophilic micro grooves. <i>Applied Surface Science</i> , 2016, 389, 447-454.	6.1	16
48	Surface modification of tube inner wall by transferred atmospheric pressure plasma. <i>Applied Surface Science</i> , 2016, 389, 967-976.	6.1	37
49	Adjusting the stability of plasma treated superhydrophobic surfaces by different modifications or microstructures. <i>RSC Advances</i> , 2016, 6, 79437-79447.	3.6	14
50	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
51	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
52	Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. <i>RSC Advances</i> , 2016, 6, 106491-106499.	3.6	17
53	Vein-like directional transport platform of water on open aluminium substrate. <i>Micro and Nano Letters</i> , 2016, 11, 269-272.	1.3	10
54	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

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55	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
56	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
57	Diamond-cutting ferrous metals assisted by cold plasma and ultrasonic elliptical vibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 673-681.	3.0	36
58	Barrel-shaped Oil Skimmer Designed for Collection of Oil from Spills. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500350.	3.7	112
59	Research on the cold plasma jet assisted cutting of Ti6Al4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 2125-2133.	3.0	8
60	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
61	Hydrophilic patterning of superhydrophobic surfaces by atmospheric-pressure plasma jet. <i>Micro and Nano Letters</i> , 2015, 10, 105-108.	1.3	35
62	Robust self-cleaning surfaces that function when exposed to either air or oil. <i>Science</i> , 2015, 347, 1132-1135.	12.6	1,494
63	Creating robust superamphiphobic coatings for both hard and soft materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20999-21008.	10.3	123
64	Investigation on anti-friction performances of atmospheric flexible cold plasma jet. , 2015, , 2297-2300.		0
65	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
66	Water droplets bouncing on superhydrophobic soft porous materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12177-12184.	10.3	45
67	Creating superhydrophobic mild steel surfaces for water proofing and oil-water separation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11628-11634.	10.3	153
68	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
69	Diamond wear properties in cold plasma jet. <i>Diamond and Related Materials</i> , 2014, 48, 96-103.	3.9	18
70	Aerosol assisted chemical vapour deposition of hydrophobic TiO ₂ -SnO ₂ composite film with novel microstructure and enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6271.	10.3	55
71	Superhydrophobic polymer-coated copper-mesh; membranes for highly efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5943.	10.3	306
72	Superhydrophobic Photocatalytic Surfaces through Direct Incorporation of Titania Nanoparticles into a Polymer Matrix by Aerosol Assisted Chemical Vapor Deposition. <i>Advanced Materials</i> , 2012, 24, 3505-3508.	21.0	167

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73	Water droplet bouncing – a definition for superhydrophobic surfaces. Chemical Communications, 2011, 47, 12059.	4.1	125
74	Preparation and Characterisation of Superhydrophobic Surfaces. Chemistry - A European Journal, 2010, 16, 3568-3588.	3.3	267
75	A single step route to superhydrophobic surfaces through aerosol assisted deposition of rough polymer surfaces: duplicating the lotus effect. Journal of Materials Chemistry, 2009, 19, 1074-1076.	6.7	49
76	Self-cleaning coatings. Journal of Materials Chemistry, 2005, 15, 1689.	6.7	855
77	Tool Wear Properties of Diamond-Cutting Ferrous Metal. Advanced Materials Research, 0, 1027, 36-39.	0.3	3