# Faze Chen

List of Publications by Year
in descending order

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| 77 | 6,454 | 109321 | 76900 |
|---|---|---|---|
| papers | citations | 35 h-index | 74 g-index |

| 77 | 77 | 77 | 7142 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Robust self-cleaning surfaces that function when exposed to either air or oil. Science, 2015, 347, 1132-1135. | 12.6 | 1,494 |
| 2 | Self-cleaning coatings. Journal of Materials Chemistry, 2005, 15, 1689. | 6.7 | 855 |
| 3 | Superhydrophobic polymer-coated copper-mesh; membranes for highly efficient oilâ€“water separation. Journal of Materials Chemistry A, 2013, 1, 5943. | 10.3 | 306 |
| 4 | Preparation and Characterisation of Superâ€Hydrophobic Surfaces. Chemistry - A European Journal, 2010, 16, 3568-3588. | 3.3 | 267 |
| 5 | 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 |
| 6 | S, Nâ€Coâ€Doped Grapheneâ€Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. Advanced Science, 2017, 4, 1600214. | 11.2 | 204 |
| 7 | Superhydrophobic Photocatalytic Surfaces through Direct Incorporation of Titania Nanoparticles into a Polymer Matrix by Aerosol Assisted Chemical Vapor Deposition. Advanced Materials, 2012, 24, 3505-3508. | 21.0 | 167 |
| 8 | Large-scale fabrication of translucent and repairable superhydrophobic spray coatings with remarkable mechanical, chemical durability and UV resistance. Journal of Materials Chemistry A, 2017, 5, 10622-10631. | 10.3 | 164 |
| 9 | Table Salt as a Template to Prepare Reusable Porous PVDFâ€“MWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. Advanced Functional Materials, 2017, 27, 1702926. | 14.9 | 160 |
| 10 | Creating superhydrophobic mild steel surfaces for water proofing and oilâ€“water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634. | 10.3 | 153 |
| 11 | A Dendritic Nickel Cobalt Sulfide Nanostructure for Alkaline Battery Electrodes. Advanced Functional Materials, 2018, 28, 1705937. | 14.9 | 138 |
| 12 | Water droplet bouncingâ€”a definition for superhydrophobic surfaces. Chemical Communications, 2011, 47, 12059. | 4.1 | 125 |
| 13 | Creating robust superamphiphobic coatings for both hard and soft materials. Journal of Materials Chemistry A, 2015, 3, 20999-21008. | 10.3 | 123 |
| 14 | Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. ACS Nano, 2017, 11, 9259-9267. | 14.6 | 118 |
| 15 | Barrelâ€Shaped Oil Skimmer Designed for Collection of Oil from Spills. Advanced Materials Interfaces, 2015, 2, 1500350. | 3.7 | 112 |
| 16 | Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. Journal of Materials Chemistry A, 2018, 6, 17633-17641. | 10.3 | 99 |
| 17 | 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 |
| 18 | Fabrication of robust superhydrophobic surfaces via aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. Journal of Materials Chemistry A, 2019, 7, 17604-17612. | 10.3 | 91 |

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|---|---|---|---|
| 19 | Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 42327-42335. | 8.0 | 85 |
| 20 | A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. Nanoscale, 2018, 10, 1920-1929. | 5.6 | 81 |
| 21 | Super-durable, non-fluorinated superhydrophobic free-standing items. Journal of Materials Chemistry A, 2018, 6, 357-362. | 10.3 | 75 |
| 22 | Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949. | 8.0 | 72 |
| 23 | Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643. | 10.3 | 71 |
| 24 | Stability of plasma treated superhydrophobic surfaces under different ambient conditions. Journal of Colloid and Interface Science, 2016, 470, 221-228. | 9.4 | 67 |
| 25 | Robust Superhydrophobic Conical Pillars from Syringe Needle Shape to Straight Conical Pillar Shape for Droplet Pancake Bouncing. ACS Applied Materials & Interfaces, 2019, 11, 45345-45353. | 8.0 | 56 |
| 26 | Aerosol assisted chemical vapour deposition of hydrophobic TiO2â€“SnO2 composite film with novel microstructure and enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 6271. | 10.3 | 55 |
| 27 | Self-standing electrodes with core-shell structures for high-performance supercapacitors. Energy Storage Materials, 2017, 9, 119-125. | 18.0 | 52 |
| 28 | Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. RSC Advances, 2017, 7, 29275-29283. | 3.6 | 52 |
| 29 | 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 |
| 30 | Transparent conducting n-type ZnO:Sc â€“ synthesis, optoelectronic properties and theoretical insight. Journal of Materials Chemistry C, 2017, 5, 7585-7597. | 5.5 | 46 |
| 31 | 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 |
| 32 | Superhydrophilicâ€“superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508. | 3.7 | 46 |
| 33 | Water droplets bouncing on superhydrophobic soft porous materials. Journal of Materials Chemistry A, 2014, 2, 12177-12184. | 10.3 | 45 |
| 34 | Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. Scientific Reports, 2019, 9, 7549. | 3.3 | 41 |
| 35 | Surface modification of tube inner wall by transferred atmospheric pressure plasma. Applied Surface Science, 2016, 389, 967-976. | 6.1 | 37 |
| 36 | Diamond-cutting ferrous metals assisted by cold plasma and ultrasonic elliptical vibration. International Journal of Advanced Manufacturing Technology, 2016, 85, 673-681. | 3.0 | 36 |

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|---|---|---|---|
| 37 | Characteristic and Application Study of Cold Atmospheric-Pressure Nitrogen Plasma Jet. IEEE Transactions on Plasma Science, 2015, 43, 1959-1968. | 1.3 | 35 |
| 38 | Hydrophilic patterning of superhydrophobic surfaces by atmosphericâ€pressure plasma jet. Micro and Nano Letters, 2015, 10, 105-108. | 1.3 | 35 |
| 39 | Programmable droplet transport on multi-bioinspired slippery surface with tridirectionally anisotropic wettability. Chemical Engineering Journal, 2022, 449, 137831. | 12.7 | 35 |
| 40 | Functionalized CFRP surface with water-repellence, self-cleaning and anti-icing properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124278. | 4.7 | 29 |
| 41 | Fabrication of micro-reentrant structures by liquid/gas interface shape-regulated electrochemical deposition. International Journal of Machine Tools and Manufacture, 2020, 159, 103637. | 13.4 | 29 |
| 42 | Reactive silica nanoparticles turn epoxy coating from hydrophilic to super-robust superhydrophobic. RSC Advances, 2019, 9, 12547-12554. | 3.6 | 28 |
| 43 | Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oilâ€“Water Separation Properties. Langmuir, 2018, 34, 13305-13311. | 3.5 | 25 |
| 44 | A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Liâ€ion Batteries. Advanced Functional Materials, 2017, 27, 1604903. | 14.9 | 22 |
| 45 | Superoleophobic surfaces on stainless steel substrates obtained by chemical bath deposition. Micro and Nano Letters, 2017, 12, 76-81. | 1.3 | 19 |
| 46 | Diamond wear properties in cold plasma jet. Diamond and Related Materials, 2014, 48, 96-103. | 3.9 | 18 |
| 47 | Magnet-assisted selective oil removal from water in non-open channel and continuous oil spills clean-up. Separation and Purification Technology, 2022, 282, 120119. | 7.9 | 18 |
| 48 | Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. RSC Advances, 2016, 6, 106491-106499. | 3.6 | 17 |
| 49 | Synthesis of superhydrophobic surfaces with Wenzel and Cassieâ€“Baxter state: experimental evidence and theoretical insight. Nanotechnology, 2018, 29, 485601. | 2.6 | 17 |
| 50 | Patterning of water traps using close-loop hydrophilic micro grooves. Applied Surface Science, 2016, 389, 447-454. | 6.1 | 16 |
| 51 | Power-free water pump based on a superhydrophobic surface: generation of a mushroom-like jet and anti-gravity long-distance transport. Journal of Materials Chemistry A, 2016, 4, 13771-13777. | 10.3 | 16 |
| 52 | Adjusting the stability of plasma treated superhydrophobic surfaces by different modifications or microstructures. RSC Advances, 2016, 6, 79437-79447. | 3.6 | 14 |
| 53 | Preparation of superhydrophobic glass surface with high adhesion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 633, 127861. | 4.7 | 14 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Electrospun Composites of Polycaprolactone and Porous Silicon Nanoparticles for the Tunable Delivery of Small Therapeutic Molecules. Nanomaterials, 2018, 8, 205. | 4.1 | 13 |
| 56 | Fabrication of superamphiphobic surfaces with controllable oil adhesion in air. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125708. | 4.7 | 13 |
| 57 | Wettability-gradient surface fabricated by combining electrochemical etching and lithography. Journal of Dispersion Science and Technology, 2017, 38, 979-984. | 2.4 | 12 |
| 58 | Simultaneous and long-lasting hydrophilization of inner and outer wall surfaces of polytetrafluoroethylene tubes by transferring atmospheric pressure plasmas. Journal Physics D: Applied Physics, 2016, 49, 365202. | 2.8 | 11 |
| 59 | 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 |
| 60 | Improving surface wettability and adhesion property of polytetrafluoroethylene by atmospheric-pressure ammonia water-mixed plasma treatment. Vacuum, 2022, 196, 110763. | 3.5 | 11 |
| 61 | Veinâ€like directional transport platform of water on open aluminiuml substrate. Micro and Nano Letters, 2016, 11, 269-272. | 1.3 | 10 |
| 62 | Research on the cold plasma jet assisted cutting of Ti6Al4V. International Journal of Advanced Manufacturing Technology, 2015, 77, 2125-2133. | 3.0 | 8 |
| 63 | 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 |
| 64 | Dodecyl Mercaptan Functionalized Copper Mesh for Water Repellence and Oil-water Separation. Journal of Bionic Engineering, 2021, 18, 887-899. | 5.0 | 7 |
| 65 | Reflective Silver Thin Film Electrodes from Commercial Silver(I) Triflate via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Nano Materials, 2018, 1, 3724-3732. | 5.0 | 6 |
| 66 | 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 |
| 67 | Superhydrophobic micro-tube fabricated via one-step plasma polymerization for lossless droplet transfer. Surface and Coatings Technology, 2021, 421, 127272. | 4.8 | 6 |
| 68 | The investigation of droplet directional self-transport ability on the slippery liquid-infused surface with anisotropic structure. Progress in Organic Coatings, 2022, 168, 106857. | 3.9 | 6 |
| 69 | 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 |
| 70 | Antiâ€corrosion property of superhydrophobic copper mesh with oneâ€step selfâ€assembled perfluorothiolate monolayers. Surface and Interface Analysis, 2022, 54, 1087-1097. | 1.8 | 4 |
| 71 | Tool Wear Properties of Diamond-Cutting Ferrous Metal. Advanced Materials Research, 0, 1027, 36-39. | 0.3 | 3 |
| 72 | 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 |

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|---|---|---|---|
| 73 | Oneâ€step modification method to fabricate wettability patterns on aluminium substrate. Micro and Nano Letters, 2016, 11, 697-701. | 1.3 | 2 |
| 74 | 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 |
| 75 | {Ni4O4} Cluster Complex to Enhance the Reductive Photocurrent Response on Silicon Nanowire Photocathodes. Nanomaterials, 2017, 7, 33. | 4.1 | 2 |
| 76 | 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 |
| 77 | Investigation on anti-friction performances of atmospheric flexible cold plasma jet. , 2015, , 2297-2300. | | 0 |