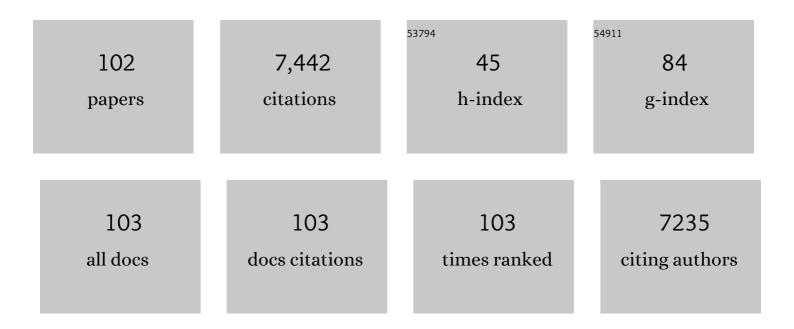


List of Publications by Year in descending order

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| # | 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 | Rapid Fabrication of Large-Area, Corrosion-Resistant Superhydrophobic Mg Alloy Surfaces. ACS Applied Materials & Interfaces, 2011, 3, 4404-4414. | 8.0 | 343 |
| 3 | Structure, Synthesis, and Applications of TiO ₂ Nanobelts. Advanced Materials, 2015, 27, 2557-2582. | 21.0 | 287 |
| 4 | 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 |
| 5 | S, N oâ€Đoped Grapheneâ€Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. Advanced Science, 2017, 4, 1600214. | 11.2 | 204 |
| 6 | Super-robust superhydrophobic concrete. Journal of Materials Chemistry A, 2017, 5, 14542-14550. | 10.3 | 170 |
| 7 | Inexpensive and non-fluorinated superhydrophobic concrete coating for anti-icing and anti-corrosion. Journal of Colloid and Interface Science, 2019, 541, 86-92. | 9.4 | 170 |
| 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 PVDF–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 oil–water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634. | 10.3 | 153 |
| 11 | Buoyancy increase and drag-reduction through a simple superhydrophobic coating. Nanoscale, 2017, 9, 7588-7594. | 5.6 | 141 |
| 12 | Creating robust superamphiphobic coatings for both hard and soft materials. Journal of Materials Chemistry A, 2015, 3, 20999-21008. | 10.3 | 123 |
| 13 | Tungsten Doped TiO2 with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. Scientific Reports, 2015, 5, 10952. | 3.3 | 122 |
| 14 | Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. ACS Nano, 2017, 11, 9259-9267. | 14.6 | 118 |
| 15 | Preparation of Superoleophobic and Superhydrophobic Titanium Surfaces via an Environmentally Friendly Electrochemical Etching Method. ACS Sustainable Chemistry and Engineering, 2013, 1, 102-109. | 6.7 | 113 |
| 16 | Barrel‣haped Oil Skimmer Designed for Collection of Oil from Spills. Advanced Materials Interfaces, 2015, 2, 1500350. | 3.7 | 112 |
| 17 | Ultrafast fabrication of rough structures required by superhydrophobic surfaces on Al substrates using an immersion method. Chemical Engineering Journal, 2012, 211-212, 143-152. | 12.7 | 107 |
| 18 | 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 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Designing durable and flexible superhydrophobic coatings and its application in oil purification. Journal of Materials Chemistry A, 2016, 4, 4107-4116. | 10.3 | 94 |
| 20 | Creation of Topological Ultraslippery Surfaces for Droplet Motion Control. ACS Nano, 2021, 15, 2589-2599. | 14.6 | 93 |
| 21 | High-efficiency bubble transportation in an aqueous environment on a serial wedge-shaped wettability pattern. Journal of Materials Chemistry A, 2019, 7, 13567-13576. | 10.3 | 90 |
| 22 | 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 |
| 23 | 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 |
| 24 | Design and Fabrication of the Lyophobic Slippery Surface and Its Application in Anti-Icing. Journal of Physical Chemistry C, 2016, 120, 11054-11059. | 3.1 | 84 |
| 25 | 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 |
| 26 | The challenges, achievements and applications of submersible superhydrophobic materials. Chemical Society Reviews, 2021, 50, 6569-6612. | 38.1 | 81 |
| 27 | Fabrication of superoleophobic surfaces on Al substrates. Journal of Materials Chemistry A, 2013, 1, 14783. | 10.3 | 79 |
| 28 | A simple immersion approach for fabricating superhydrophobic Mg alloy surfaces. Applied Surface Science, 2013, 266, 445-450. | 6.1 | 78 |
| 29 | Super-durable, non-fluorinated superhydrophobic free-standing items. Journal of Materials Chemistry A, 2018, 6, 357-362. | 10.3 | 75 |
| 30 | One-step electrochemical machining of superhydrophobic surfaces on aluminum substrates. Journal of Materials Science, 2012, 47, 162-168. | 3.7 | 72 |
| 31 | Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949. | 8.0 | 72 |
| 32 | Superhydrophobic Nickel-Electroplated Carbon Fibers for Versatile Oil/Water Separation with Excellent Reusability and High Environmental Stability. ACS Applied Materials & Interfaces, 2020, 12, 24390-24402. | 8.0 | 72 |
| 33 | Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643. | 10.3 | 71 |
| 34 | Microâ€∤Nanostructured Interface for Liquid Manipulation and Its Applications. Small, 2020, 16, e1903849. | 10.0 | 70 |
| 35 | Preparation of superhydrophobic titanium surfaces via electrochemical etching and fluorosilane modification. Applied Surface Science, 2012, 263, 297-301. | 6.1 | 66 |
| 36 | Macroscale Superlubricity Enabled by Graphene oated Surfaces, Advanced Science, 2020, 7, 1903239, | 11.2 | 64 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Robust Micro-Nanostructured Superhydrophobic Surfaces for Long-Term Dropwise Condensation. Nano Letters, 2021, 21, 9824-9833. | 9.1 | 64 |
| 38 | Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. Nano Letters, 2019, 19, 6569-6576. | 9.1 | 62 |
| 39 | TiO ₂ Nanorod Array Constructed Nanotopography for Regulation of Mesenchymal Stem Cells Fate and the Realization of Locationâ€Committed Stem Cell Differentiation. Small, 2016, 12, 1770-1778. | 10.0 | 57 |
| 40 | 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 |
| 41 | Tailoring Local Electrolyte Solvation Structure via a Mesoporous Molecular Sieve for Dendriteâ€Free Zinc Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 56 |
| 42 | Ultrahigh Recovery of Fracture Strength on Mismatched Fractured Amorphous Surfaces of Silicon Carbide. ACS Nano, 2019, 13, 7483-7492. | 14.6 | 54 |
| 43 | Controlling the Adhesion of Superhydrophobic Surfaces Using Electrolyte Jet Machining Techniques. Scientific Reports, 2016, 6, 23985. | 3.3 | 52 |
| 44 | Self-standing electrodes with core-shell structures for high-performance supercapacitors. Energy Storage Materials, 2017, 9, 119-125. | 18.0 | 52 |
| 45 | Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. RSC Advances, 2017, 7, 29275-29283. | 3.6 | 52 |
| 46 | Superhydrophilic–superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508. | 3.7 | 46 |
| 47 | Water droplets bouncing on superhydrophobic soft porous materials. Journal of Materials Chemistry A, 2014, 2, 12177-12184. | 10.3 | 45 |
| 48 | Electrochemical fabrication of superhydrophobic Zn surfaces. Applied Surface Science, 2014, 315, 346-352. | 6.1 | 42 |
| 49 | Low-Cost One-Step Fabrication of Highly Conductive ZnO:Cl Transparent Thin Films with Tunable Photocatalytic Properties via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Electronic Materials, 2019, 1, 1408-1417. | 4.3 | 41 |
| 50 | Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. Journal of Colloid and Interface Science, 2021, 582, 301-311. | 9.4 | 39 |
| 51 | Thermally-induced all-damage-healable superhydrophobic surface with photocatalytic performance from hierarchical BiOCl. Chemical Engineering Journal, 2019, 366, 439-448. | 12.7 | 37 |
| 52 | Nanocrack-based strain sensors. Journal of Materials Chemistry C, 2021, 9, 754-772. | 5.5 | 37 |
| 53 | Characteristic and Application Study of Cold Atmospheric-Pressure Nitrogen Plasma Jet. IEEE Transactions on Plasma Science, 2015, 43, 1959-1968. | 1.3 | 35 |
| 54 | Hydrophilic patterning of superhydrophobic surfaces by atmosphericâ€pressure plasma jet. Micro and Nano Letters, 2015, 10, 105-108. | 1.3 | 35 |

| # | Article | IF | CITATIONS |
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| 55 | Comparison Study of Self-Cleaning, Anti-Icing, and Durable Corrosion Resistance of Superhydrophobic and Lubricant-Infused Ultraslippery Surfaces. Langmuir, 2021, 37, 11061-11071. | 3.5 | 35 |
| 56 | Electrochemical machining of super-hydrophobic Al surfaces and effect of processing parameters on wettability. Applied Physics A: Materials Science and Processing, 2012, 108, 559-568. | 2.3 | 34 |
| 57 | Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films <i>via</i> aerosol-assisted chemical vapour deposition. Journal of Materials Chemistry A, 2018, 6, 12682-12692. | 10.3 | 34 |
| 58 | Unprecedented enhancement of wear resistance for epoxy-resin graphene composites. Nanoscale, 2021, 13, 2855-2867. | 5.6 | 34 |
| 59 | Fabrication of superhydrophobic Cu surfaces on Al substrates via a facile chemical deposition process. Materials Letters, 2012, 87, 43-46. | 2.6 | 33 |
| 60 | TiO2 nanotube arrays decorated with Au and Bi2S3 nanoparticles for efficient Fe3+ ions detection and dye photocatalytic degradation. Journal of Materials Science and Technology, 2020, 39, 28-38. | 10.7 | 32 |
| 61 | Electrochemical machining of superhydrophobic surfaces on mold steel substrates. Surface and Coatings Technology, 2018, 344, 499-506. | 4.8 | 30 |
| 62 | Heterojunction αâ€Fe ₂ O ₃ /ZnO Films with Enhanced Photocatalytic Properties Grown by Aerosolâ€Assisted Chemical Vapour Deposition. Chemistry - A European Journal, 2019, 25, 11337-11345. | 3.3 | 28 |
| 63 | Facile one-step fabrication of PHC/PDMS anti-icing coatings with mechanical properties and good durability. Progress in Organic Coatings, 2019, 135, 263-269. | 3.9 | 28 |
| 64 | Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oil–Water Separation Properties. Langmuir, 2018, 34, 13305-13311. | 3.5 | 25 |
| 65 | A simple, inexpensive and environmental-friendly electrochemical etching method to fabricate superhydrophobic GH4169 surfaces. Surface and Coatings Technology, 2020, 399, 126180. | 4.8 | 25 |
| 66 | Fabrication of Superhydrophobic Micro Post Array on Aluminum Substrates Using Mask Electrochemical Machining. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, . | 3.7 | 24 |
| 67 | Nanoscale SiO2-coated superhydrophobic meshes via electro-spray deposition for oil-water separation. Powder Technology, 2020, 373, 82-92. | 4.2 | 24 |
| 68 | Design robust, degradable and recyclable superhydrophobic materials. Chemical Engineering Journal, 2021, 420, 129806. | 12.7 | 24 |
| 69 | A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Liâ€lon Batteries. Advanced Functional Materials, 2017, 27, 1604903. | 14.9 | 22 |
| 70 | A coating-free superhydrophobic sensing material for full-range human motion and microliter droplet impact detection. Chemical Engineering Journal, 2021, 410, 128418. | 12.7 | 22 |
| 71 | Rapid fabrication of superhydrophobic surfaces on copper substrates by electrochemical machining. Applied Surface Science, 2011, 257, 10910-10916. | 6.1 | 21 |
| 72 | Anisotropic sliding of multipleâ€level biomimetic riceâ€leaf surfaces on aluminium substrates. Micro and Nano Letters, 2013, 8, 801-804. | 1.3 | 21 |

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| 73 | 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 |
| 74 | Loading capacity of a self-assembled superhydrophobic boat array fabricated via electrochemical method. Micro and Nano Letters, 2012, 7, 786. | 1.3 | 20 |
| 75 | Superoleophobic surfaces on stainless steel substrates obtained by chemical bath deposition. Micro and Nano Letters, 2017, 12, 76-81. | 1.3 | 19 |
| 76 | Computational Intelligenceâ€Assisted Understanding of Natureâ€Inspired Superhydrophobic Behavior. Advanced Science, 2018, 5, 1700520. | 11.2 | 19 |
| 77 | Study on the oil/water separation performance of a super-hydrophobic copper mesh under downhole conditions. Journal of Industrial and Engineering Chemistry, 2019, 72, 310-318. | 5.8 | 19 |
| 78 | Rational Design of Durable Anti-fouling Coatings with High Transparency, Hardness, and Flexibility. ACS Applied Materials & Interfaces, 2022, 14, 29156-29166. | 8.0 | 19 |
| 79 | Fabrication of superhydrophobic surfaces on Mg alloy substrates via primary cell corrosion and fluoroalkylsilane modification. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 979-987. | 1.5 | 18 |
| 80 | Fabrication of Long-Term Underwater Superoleophobic Al Surfaces and Application on Underwater Lossless Manipulation of Non-Polar Organic Liquids. Scientific Reports, 2016, 6, 31818. | 3.3 | 18 |
| 81 | Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. RSC Advances, 2016, 6, 106491-106499. | 3.6 | 17 |
| 82 | Photolithography-assisted precise patterning of nanocracks for ultrasensitive strain sensors. Journal of Materials Chemistry A, 2021, 9, 4262-4272. | 10.3 | 17 |
| 83 | Functionalised gold and titania nanoparticles and surfaces for use as antimicrobial coatings. Faraday Discussions, 2014, 175, 273-287. | 3.2 | 16 |
| 84 | 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 |
| 85 | A rapid two-step electroless deposition process to fabricate superhydrophobic coatings on steel substrates. Journal of Coatings Technology Research, 2012, 9, 643-650. | 2.5 | 14 |
| 86 | Architecture-Driven Fast Droplet Transport without Mass Loss. Langmuir, 2021, 37, 12519-12528. | 3.5 | 14 |
| 87 | Fabrication of superhydrophobic surfaces with hierarchical rough structures on Mg alloy substrates via chemical corrosion method. Micro and Nano Letters, 2012, 7, 204. | 1.3 | 13 |
| 88 | Sacrificial layer-assisted nanoscale transfer printing. Microsystems and Nanoengineering, 2020, 6, 80. | 7.0 | 13 |
| 89 | Single Step Solution Processed GaAs Thin Films from GaMe3andtBuAsH2under Ambient Pressure. Journal of Physical Chemistry C, 2016, 120, 7013-7019. | 3.1 | 12 |
| 90 | Highly Photocatalytically Active Iron(III) Titanium Oxide Thin films via Aerosolâ€Assisted CVD. Chemical Vapor Deposition, 2015, 21, 21-25. | 1.3 | 8 |

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|-----|--|-----|-----------|
| 91 | Liquid-like transparent and flexible coatings for anti-graffiti applications. Progress in Organic Coatings, 2021, 161, 106476. | 3.9 | 8 |
| 92 | Fabrication Technology of Low-Adhesive Superhydrophobic and Superamphiphobic Surfaces Based on Electrochemical Machining Method. Journal of Micro and Nano-Manufacturing, 2013, 1, . | 0.7 | 7 |
| 93 | Bamboo-joint-like platforms for fast, long-distance, directional, and spontaneous transport of fluids. Biomicrofluidics, 2020, 14, 034105. | 2.4 | 7 |
| 94 | Saturated Surface Charging on Micro/Nanoporous Polytetrafluoroethylene for Droplet Manipulation. ACS Applied Nano Materials, 2022, 5, 3342-3351. | 5.0 | 7 |
| 95 | Fabrication of superhydrophobic surfaces with high adhesive forces towards water on steel substrates. Micro and Nano Letters, 2012, 7, 456. | 1.3 | 6 |
| 96 | Oneâ€step synthesis of Ag@PS nanospheres via flash nanoprecipitation. Applied Organometallic Chemistry, 2019, 33, e4713. | 3.5 | 6 |
| 97 | Fabrication of Low-Adhesive Superhydrophobic Al Surfaces via Self-Assembled Primary Cell Assisted Etching. Journal of Dispersion Science and Technology, 2013, 34, 908-913. | 2.4 | 5 |
| 98 | Energy conversion based on superhydrophobic surfaces. Physical Chemistry Chemical Physics, 2020, 22, 25430-25444. | 2.8 | 5 |
| 99 | Synthesis of superhydrophobic polymer/tungsten (VI) oxide nanocomposite thin films. European Journal of Chemistry, 2016, 7, 139-145. | 0.6 | 5 |
| 100 | Fabrication of Superhydrophobic Surfaces on Aluminum Substrates via Electrochemical Etching and Re-Deposition. Applied Mechanics and Materials, 2012, 197, 351-355. | 0.2 | 4 |
| 101 | Controlling and modelling the wetting properties of III-V semiconductor surfaces using re-entrant nanostructures. Scientific Reports, 2018, 8, 3544. | 3.3 | 4 |
| 102 | Self-healing on mismatched fractured composite surfaces of SiC with a diameter of 180 nm. Nanoscale, 2020, 12, 19617-19627. | 5.6 | 3 |