Bioinspired self-repairing slippery surfaces with pressu

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 3 | The polymorphism linked to the human insulin gene: its lack of association with either IDDM or NIDDM in Japanese. European Journal of Endocrinology, 1986, 113, 268-271. | 3.7 | 13 |
| 5 | Slippery pre-suffused surfaces. Europhysics Letters, 2011, 96, 56001. | 2.0 | 417 |
| 6 | Slippery when wetted. Nature, 2011, 477, 412-413. | 27.8 | 175 |
| 7 | Technology Vision. Surface Engineering, 2012, 28, 1-4. | 2.2 | 3 |
| 8 | Direct observation of stick-slip movements of water nanodroplets induced by an electron beam. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7187-7190. | 7.1 | 97 |
| 9 | Imbibition of a textured surface decorated by short pillars with rounded edges. Physical Review E, 2012, 86, 020601. | 2.1 | 23 |
| 10 | Liquid-infused structured surfaces with exceptional anti-biofouling performance. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13182-13187. | 7.1 | 783 |
| 11 | An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. Nature Nanotechnology, 2012, 7, 825-832. | 31.5 | 1,270 |
| 12 | Self-Healing Surface Hydrophobicity by Consecutive Release of Hydrophobic Molecules from Mesoporous Silica. Langmuir, 2012, 28, 5845-5849. | 3.5 | 100 |
| 14 | Incorporation of Penicillinâ€Producing Fungi into Living Materials to Provide Chemically Active and Antibioticâ€Releasing Surfaces. Angewandte Chemie - International Edition, 2012, 51, 11293-11296. | 13.8 | 34 |
| 15 | Screening Conditions for Rationally Engineered Electrodeposition of Nanostructures (SCREEN): Electrodeposition and Applications of Polypyrrole Nanofibers using Microfluidic Gradients. Small, 2012, 8, 3502-3509. | 10.0 | 8 |
| 16 | Smooth, transparent and nonperfluorinated surfaces exhibiting unusual contact angle behavior toward organic liquids. RSC Advances, 2012, 2, 9805. | 3.6 | 50 |
| 17 | How To Reduce Resistance to Movement of Alkane Liquid Drops Across Tilted Surfaces Without Relying on Surface Roughening and Perfluorination. Langmuir, 2012, 28, 17681-17689. | 3.5 | 50 |
| 18 | Superhydrophobic and Adhesive Properties of Surfaces: Testing the Quality by an Elaborated Scanning Electron Microscopy Method. Langmuir, 2012, 28, 14338-14346. | 3.5 | 14 |
| 19 | Tunable Water Adhesion on Titanium Oxide Surfaces with Different Surface Structures. ACS Applied Materials & Samp; Interfaces, 2012, 4, 5737-5741. | 8.0 | 30 |
| 20 | Polymer/nucleotide droplets as bio-inspired functional micro-compartments. Soft Matter, 2012, 8, 6004. | 2.7 | 89 |
| 21 | Why Superhydrophobic Surfaces Are Not Always Icephobic. ACS Nano, 2012, 6, 8488-8491. | 14.6 | 339 |
| 22 | Stabilization of Leidenfrost vapour layer by textured superhydrophobic surfaces. Nature, 2012, 489, 274-277. | 27.8 | 467 |

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 23 | Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. Journal of Materials Chemistry, 2012, 22, 9774. | 6.7 | 231 |
| 24 | Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis. Advanced Materials, 2012, 24, 5838-5843. | 21.0 | 288 |
| 25 | Calcium Carbonate Nanotablets: Bridging Artificial to Natural Nacre. Advanced Materials, 2012, 24, 6277-6282. | 21.0 | 68 |
| 26 | Extreme wettability and tunable adhesion: biomimicking beyond nature?. Soft Matter, 2012, 8, 2070-2086. | 2.7 | 217 |
| 27 | Superoleophobic Surfaces. ACS Symposium Series, 2012, , 171-185. | 0.5 | 14 |
| 28 | Condensation mode determines the freezing of condensed water on solid surfaces. Soft Matter, 2012, 8, 8285. | 2.7 | 64 |
| 29 | Enhanced Condensation on Lubricant-Impregnated Nanotextured Surfaces. ACS Nano, 2012, 6, 10122-10129. | 14.6 | 531 |
| 30 | Direct Imaging of Complex Nano- to Microscale Interfaces Involving Solid, Liquid, and Gas Phases. ACS Nano, 2012, 6, 9326-9334. | 14.6 | 88 |
| 31 | Ice-Phobic Surfaces That Are Wet. ACS Nano, 2012, 6, 6536-6540. | 14.6 | 163 |
| 33 | PDMS network blends of amphiphilic acrylic copolymers with poly(ethylene glycol)â€fluoroalkyl side chains for foulingâ€release coatings. I. Chemistry and stability of the film surface. Journal of Polymer Science Part A, 2012, 50, 2677-2686. | 2.3 | 45 |
| 34 | Recent developments in polymeric superoleophobic surfaces. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1209-1224. | 2.1 | 219 |
| 35 | Bio-Inspired Self-Cleaning Surfaces. Annual Review of Materials Research, 2012, 42, 231-263. | 9.3 | 427 |
| 36 | Wetting Transitions in Two-, Three-, and Four-Phase Systems. Langmuir, 2012, 28, 2173-2180. | 3 . 5 | 83 |
| 37 | Bioinspired Oil Strider Floating at the Oil/Water Interface Supported by Huge Superoleophobic Force. ACS Nano, 2012, 6, 5614-5620. | 14.6 | 91 |
| 38 | Clam's Shell Inspired Highâ€Energy Inorganic Coatings with Underwater Low Adhesive Superoleophobicity. Advanced Materials, 2012, 24, 3401-3405. | 21.0 | 277 |
| 39 | Towards Highâ€Performance Bioinspired Composites. Advanced Materials, 2012, 24, 5024-5044. | 21.0 | 332 |
| 42 | A Statically Oleophilic but Dynamically Oleophobic Smooth Nonperfluorinated Surface. Angewandte Chemie - International Edition, 2012, 51, 2956-2959. | 13.8 | 200 |
| 43 | Surface Wetting in Liquid–Liquid–Solid Triphase Systems: Solidâ€Phaseâ€Independent Transition at the Liquid–Liquid Interface by Lewis Acid–Base Interactions. Angewandte Chemie - International Edition, 2012, 51, 8348-8351. | 13.8 | 41 |

| # | Article | IF | Citations |
|----|--|--------------|-----------|
| 44 | Liquid-Infused Nanostructured Surfaces with Extreme Anti-Ice and Anti-Frost Performance. ACS Nano, 2012, 6, 6569-6577. | 14.6 | 1,118 |
| 45 | Neuronal cells loaded with PEI-coated Fe3O4 nanoparticles for magnetically guided nerve regeneration. Journal of Materials Chemistry B, 2013, 1, 3607. | 5 . 8 | 38 |
| 46 | Transparency and damage tolerance of patternable omniphobic lubricated surfaces based on inverse colloidal monolayers. Nature Communications, 2013, 4, 2167. | 12.8 | 339 |
| 47 | Perfluoropolyether-infused nano-texture: a versatile approach to omniphobic coatings with low hysteresis and high transparency. Chemical Communications, 2013, 49, 597-599. | 4.1 | 99 |
| 48 | Construction of â€~smart' surfaces with polymer functionalized silica nanoparticles. Polymer Chemistry, 2013, 4, 1038-1047. | 3.9 | 25 |
| 49 | Transparent and Hard Zirconia-Based Hybrid Coatings with Excellent Dynamic/Thermoresponsive Oleophobicity, Thermal Durability, and Hydrolytic Stability. ACS Applied Materials & Samp; Interfaces, 2013, 5, 7899-7905. | 8.0 | 29 |
| 50 | Robust technique allowing manufacturing superoleophobic surfaces. Applied Surface Science, 2013, 270, 98-103. | 6.1 | 53 |
| 51 | Fluid drag reduction and efficient self-cleaning with rice leaf and butterfly wing bioinspired surfaces. Nanoscale, 2013, 5, 7685. | 5 . 6 | 212 |
| 52 | Self-Assembled Carbon Nanotube Honeycomb Networks Using a Butterfly Wing Template as a Multifunctional Nanobiohybrid. ACS Nano, 2013, 7, 8736-8742. | 14.6 | 40 |
| 53 | Omniphobic Slippery Coatings Based on Lubricant-Infused Porous Polyelectrolyte Multilayers. ACS Macro Letters, 2013, 2, 826-829. | 4.8 | 108 |
| 54 | Inhibition of ice nucleation by slippery liquid-infused porous surfaces (SLIPS). Physical Chemistry Chemical Physics, 2013, 15, 581-585. | 2.8 | 284 |
| 55 | Optimal Design of Permeable Fiber Network Structures for Fog Harvesting. Langmuir, 2013, 29, 13269-13277. | 3.5 | 330 |
| 56 | Surface Nanoarchitecture for Bioâ€Applications: Selfâ€Regulating Intelligent Interfaces. Advanced Functional Materials, 2013, 23, 4483-4506. | 14.9 | 79 |
| 57 | Micropatterning Hydrophobic Liquid on a Porous Polymer Surface for Longâ€√erm Selective Cellâ€Repellency. Advanced Healthcare Materials, 2013, 2, 1425-1429. | 7.6 | 52 |
| 58 | Understanding wetting of immiscible liquids near a solid surface using molecular simulation. Journal of Chemical Physics, 2013, 139, 064110. | 3.0 | 14 |
| 59 | Lubricant-infused micro/nano-structured surfaces with tunable dynamic omniphobicity at high temperatures. Applied Physics Letters, 2013, 102, . | 3.3 | 127 |
| 61 | A Rapid and Efficient Selfâ€Healing Thermoâ€Reversible Elastomer Crosslinked with Graphene Oxide. Advanced Materials, 2013, 25, 5785-5790. | 21.0 | 221 |
| 62 | Morphological features of petals of <i>Nerium oleander </i> L Plant Biosystems, 2013, 147, 638-644. | 1.6 | 6 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 63 | Bioinspired in Situ Growth of Conversion Films with Underwater Superoleophobicity and Excellent Self-Cleaning Performance. ACS Applied Materials & Self-Cleaning Performance. ACS Applied Materials & Self-Cleaning Performance. | 8.0 | 32 |
| 64 | Hydrophobic Liquid-Infused Porous Polymer Surfaces for Antibacterial Applications. ACS Applied Materials & Samp; Interfaces, 2013, 5, 6704-6711. | 8.0 | 187 |
| 65 | Unusual Dynamic Dewetting Behavior of Smooth Perfluorinated Hybrid Films: Potential Advantages over Conventional Textured and Liquid-Infused Perfluorinated Surfaces. Langmuir, 2013, 29, 12472-12482. | 3.5 | 50 |
| 66 | Change in drag, apparent slip and optimum air layer thickness for laminar flow over an idealised superhydrophobic surface. Journal of Fluid Mechanics, 2013, 727, 488-508. | 3.4 | 85 |
| 67 | Self-healing chemistry enables the stable operation of silicon microparticle anodes for high-energy lithium-ion batteries. Nature Chemistry, 2013, 5, 1042-1048. | 13.6 | 1,031 |
| 68 | In situ polymerized superhydrophobic and superoleophilic nanofibrous membranes for gravity driven oil–water separation. Nanoscale, 2013, 5, 11657. | 5.6 | 227 |
| 69 | Smooth Perfluorinated Surfaces with Different Chemical and Physical Natures: Their Unusual Dynamic Dewetting Behavior toward Polar and Nonpolar Liquids. Langmuir, 2013, 29, 11322-11329. | 3.5 | 82 |
| 70 | A Superamphiphobic Macroporous Silicone Monolith with Marshmallowâ€ike Flexibility. Angewandte Chemie - International Edition, 2013, 52, 10788-10791. | 13.8 | 122 |
| 71 | Robust, Superamphiphobic Fabric with Multiple Self-Healing Ability against Both Physical and Chemical Damages. ACS Applied Materials & Samp; Interfaces, 2013, 5, 10221-10226. | 8.0 | 177 |
| 72 | Reversible pressure-induced switching of droplet mobility after impingement on porous surface media. Applied Physics Letters, 2013, 103, . | 3.3 | 20 |
| 73 | Nanoparticles assembly-induced special wettability for bio-inspired materials. Particuology, $2013, 11, 361-370.$ | 3.6 | 22 |
| 74 | 25th Anniversary Article: Dynamic Interfaces for Responsive Encapsulation Systems. Advanced Materials, 2013, 25, 5029-5043. | 21.0 | 82 |
| 75 | Patterned photonic crystals fabricated by inkjet printing. Journal of Materials Chemistry C, 2013, 1, 6048. | 5.5 | 97 |
| 76 | Gravity driven separation of emulsified oil–water mixtures utilizing in situ polymerized superhydrophobic and superoleophilic nanofibrous membranes. Journal of Materials Chemistry A, 2013, 1, 14071. | 10.3 | 165 |
| 77 | Nepenthesin from Monkey Cups for Hydrogen/Deuterium Exchange Mass Spectrometry. Molecular and Cellular Proteomics, 2013, 12, 464-472. | 3.8 | 54 |
| 78 | An Ionâ€Induced Lowâ€Oilâ€Adhesion Organic/Inorganic Hybrid Film for Stable Superoleophobicity in Seawater. Advanced Materials, 2013, 25, 606-611. | 21.0 | 123 |
| 79 | Super liquid-repellent gas membranes for carbon dioxide capture and heart–lung machines. Nature Communications, 2013, 4, 2512. | 12.8 | 98 |
| 80 | Bio-inspired superoleophobic and smart materials: Design, fabrication, and application. Progress in Materials Science, 2013, 58, 503-564. | 32.8 | 513 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 81 | Biomechanics of plant–insect interactions. Current Opinion in Plant Biology, 2013, 16, 105-111. | 7.1 | 48 |
| 82 | Long perfluoroalkyl chains are not required for dynamically oleophobic surfaces. Green Chemistry, 2013, 15, 100-104. | 9.0 | 42 |
| 83 | Bioinspired self-cleaning surfaces with superhydrophobicity, superoleophobicity, and superhydrophilicity. RSC Advances, 2013, 3, 671-690. | 3.6 | 702 |
| 84 | A thermally stable, durable and temperature-dependent oleophobic surface of a polymethylsilsesquioxane film. Chemical Communications, 2013, 49, 3318. | 4.1 | 32 |
| 85 | Droplet mobility on lubricant-impregnated surfaces. Soft Matter, 2013, 9, 1772-1780. | 2.7 | 810 |
| 86 | In Situ Surfaceâ€Modificationâ€Induced Superhydrophobic Patterns with Reversible Wettability and Adhesion. Advanced Materials, 2013, 25, 1682-1686. | 21.0 | 249 |
| 87 | Bioinspired micro/nanostructured surfaces for oil drag reduction in closed channel flow. Soft Matter, 2013, 9, 1620-1635. | 2.7 | 61 |
| 88 | Hierarchical or Not? Effect of the Length Scale and Hierarchy of the Surface Roughness on Omniphobicity of Lubricant-Infused Substrates. Nano Letters, 2013, 13, 1793-1799. | 9.1 | 426 |
| 89 | Lyophilic Nonwettable Surface Based on an Oil/Water/Air/Solid Fourâ€Phase System. Small, 2013, 9, 2515-2519. | 10.0 | 26 |
| 90 | Measuring of the hardly measurable: adhesion properties of anti-adhesive surfaces. Applied Physics A: Materials Science and Processing, 2013, 111, 183-189. | 2.3 | 26 |
| 91 | Self-assembly of nanostructures towards transparent, superhydrophobic surfaces. Journal of Materials Chemistry A, 2013, 1, 2955-2969. | 10.3 | 246 |
| 92 | Long-lived superhydrophobic surfaces. Journal of Materials Chemistry A, 2013, 1, 4146. | 10.3 | 288 |
| 93 | Fusion of nacre, mussel, and lotus leaf: bio-inspired graphene composite paper with multifunctional integration. Nanoscale, 2013, 5, 5758. | 5.6 | 59 |
| 94 | A View Through Novel Process Windows. Australian Journal of Chemistry, 2013, 66, 121. | 0.9 | 39 |
| 95 | Adaptive fluid-infused porous films with tunable transparency and wettability. Nature Materials, 2013, 12, 529-534. | 27.5 | 481 |
| 96 | Bio-mimetic mechanisms of natural hierarchical materials: A review. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 19, 3-33. | 3.1 | 155 |
| 97 | Mechanism of Frost Formation on Lubricant-Impregnated Surfaces. Langmuir, 2013, 29, 5230-5238. | 3.5 | 322 |
| 98 | Mechanics of Capillary Forming of Aligned Carbon Nanotube Assemblies. Langmuir, 2013, 29, 5190-5198. | 3.5 | 39 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 99 | Novel Transparent Zirconium-Based Hybrid Material With Multilayered Nanostructures: Studies of Surface Dewettability Toward Alkane Liquids. ACS Applied Materials & Samp; Interfaces, 2013, 5, 154-163. | 8.0 | 14 |
| 100 | lce-phobic Coatings Based on Silicon-Oil-Infused Polydimethylsiloxane. ACS Applied Materials & Samp; Interfaces, 2013, 5, 4053-4062. | 8.0 | 215 |
| 101 | Robust Prototypical Anti-icing Coatings with a Self-lubricating Liquid Water Layer between Ice and Substrate. ACS Applied Materials & Substrate. ACS Applied | 8.0 | 269 |
| 102 | A Multiâ€stopband Photonicâ€Crystal Microchip for Highâ€Performance Metalâ€Ion Recognition Based on Fluorescent Detection. Angewandte Chemie - International Edition, 2013, 52, 7296-7299. | 13.8 | 146 |
| 103 | Organogelâ€based Thin Films for Selfâ€Cleaning on Various Surfaces. Advanced Materials, 2013, 25, 4477-4481. | 21.0 | 183 |
| 105 | Photoinduced Underwater Superoleophobicity of TiO ₂ Thin Films. Langmuir, 2013, 29, 6784-6789. | 3.5 | 85 |
| 106 | Fabrication of superhydrophobic, antibacterial, and ultraviolet-blocking cotton fabric. Journal of the Textile Institute, 2013, 104, 861-869. | 1.9 | 44 |
| 107 | Bioinspired multiscale surfaces with special wettability. MRS Bulletin, 2013, 38, 375-382. | 3.5 | 71 |
| 108 | Interfacial materials with special wettability. MRS Bulletin, 2013, 38, 366-371. | 3.5 | 137 |
| 109 | Nacre-Inspired Design of Mechanical Stable Coating with Underwater Superoleophobicity. ACS Nano, 2013, 7, 5077-5083. | 14.6 | 172 |
| 110 | Surface modification of cardiovascular materials and implants. Surface and Coatings Technology, 2013, 233, 80-90. | 4.8 | 108 |
| 111 | Reversible addition–fragmentation chain transfer (RAFT) copolymerization of fluoroalkyl polyhedral oligomeric silsesquioxane (F-POSS) macromers. Polymer Chemistry, 2013, 4, 2230. | 3.9 | 40 |
| 112 | Nanowireâ€Haired Inorganic Membranes with Superhydrophilicity and Underwater Ultralow Adhesive Superoleophobicity for Highâ€Efficiency Oil/Water Separation. Advanced Materials, 2013, 25, 4192-4198. | 21.0 | 784 |
| 113 | Contact angle hysteresis in multiphase systems. Colloid and Polymer Science, 2013, 291, 329-338. | 2.1 | 39 |
| 114 | Wetting behavior of superhydrophobic surface in the liquid influenced by the existing of air layer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 430, 46-50. | 4.7 | 13 |
| 115 | Dynamic Electrowetting-on-Dielectric (DEWOD) on Unstretched and Stretched Teflon. Langmuir, 2013, 29, 7758-7767. | 3.5 | 37 |
| 116 | Selfâ€Oscillating Polymer Brushes. Angewandte Chemie - International Edition, 2013, 52, 7468-7471. | 13.8 | 61 |
| 117 | lce Adhesion on Lubricant-Impregnated Textured Surfaces. Langmuir, 2013, 29, 13414-13418. | 3.5 | 298 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 118 | Drop deposition on under-liquid low energy surfaces. Soft Matter, 2013, 9, 7437. | 2.7 | 19 |
| 119 | Facile and versatile replication of high-performance superlyophobic surfaces on curable substrates using elastomer molds., 2013,,. | | 1 |
| 120 | Slippery Liquid-Infused Porous Surfaces Showing Marine Antibiofouling Properties. ACS Applied Materials & Samp; Interfaces, 2013, 5, 10074-10080. | 8.0 | 251 |
| 121 | Simple Coating with pH-Responsive Polymer-Functionalized Silica Nanoparticles of Mixed Sizes for Controlled Surface Properties. ACS Applied Materials & Samp; Interfaces, 2013, 5, 10004-10010. | 8.0 | 16 |
| 122 | Wetting states on structured immiscible liquid coated surfaces. Applied Physics Letters, 2013, 103, . | 3.3 | 17 |
| 123 | Fog-Harvesting Potential of Lubricant-Impregnated Electrospun Nanomats. Langmuir, 2013, 29, 13081-13088. | 3.5 | 104 |
| 124 | Bioâ€Inspired Superoleophobic Fluorinated Wax Crystalline Surfaces. Advanced Functional Materials, 2013, 23, 4572-4576. | 14.9 | 39 |
| 125 | Controllable Adhesive Superhydrophobic Surfaces Based on PDMS Microwell Arrays. Langmuir, 2013, 29, 3274-3279. | 3.5 | 117 |
| 126 | Bioinspired uniform illumination by vibrated sessile droplet pinned by a hydrophilic/superhydrophobic heterogeneous surface. Optics Letters, 2013, 38, 2720. | 3.3 | 2 |
| 127 | Facile Fabrication of a Hierarchical Superhydrophobic Coating with Aluminate Coupling Agent Modified Kaolin. Journal of Nanomaterials, 2013, 2013, 1-5. | 2.7 | 6 |
| 128 | Condensation heat transfer on superhydrophobic surfaces. MRS Bulletin, 2013, 38, 397-406. | 3.5 | 329 |
| 129 | Immersion Condensation on Oil-Infused Heterogeneous Surfaces for Enhanced Heat Transfer. Scientific Reports, 2013, 3, 1988. | 3.3 | 222 |
| 131 | Superoleophobic surfaces: design criteria and recent studies. Surface Innovations, 2013, 1, 71-83. | 2.3 | 69 |
| 132 | Coupling Function and Mechanism of the Bionic Coupling Functional Surface (BCFS) Caused by the Dual Factors of Form and Flexible Material. Applied Mechanics and Materials, 0, 461, 681-689. | 0.2 | 2 |
| 133 | "Liquidâ€Liquidâ€Solidâ€â€Type Superoleophobic Surfaces to Pattern Polymeric Semiconductors towards Highâ€Quality Organic Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 6526-6533. | 21.0 | 35 |
| 134 | Patterning droplets with durotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12541-12544. | 7.1 | 172 |
| 135 | A Light Incident Angle Switchable ZnO Nanorod Memristor: Reversible Switching Behavior Between Two Nonâ€Volatile Memory Devices. Advanced Materials, 2013, 25, 6423-6429. | 21.0 | 134 |
| 136 | Surface microstructures of daisy florets (Asteraceae) and characterization of their anisotropic wetting. Bioinspiration and Biomimetics, 2013, 8, 036005. | 2.9 | 31 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 137 | Short and long time drop dynamics on lubricated substrates. Europhysics Letters, 2013, 104, 34008. | 2.0 | 80 |
| 138 | Fluid Drag Reduction with Sharkâ€Skin Riblet Inspired Microstructured Surfaces. Advanced Functional Materials, 2013, 23, 4507-4528. | 14.9 | 261 |
| 139 | Superomniphobic surfaces: Design and durability. MRS Bulletin, 2013, 38, 383-390. | 3.5 | 152 |
| 140 | Formation of polypyrrole/metal hybrid interfacial layer with self-regulation functions via ultrasonication. Bioinspired, Biomimetic and Nanobiomaterials, 2013, 2, 123-129. | 0.9 | 7 |
| 141 | Chapter 6: Superhydrophobicity, superhydrophilicity, and the rose petal effect., 2013,, 116-128. | | 0 |
| 142 | Development and regeneration ability of the wax coverage in Nepenthes alata pitchers: a cryo-SEM approach. Scientific Reports, 2013, 3, 3078. | 3.3 | 26 |
| 143 | Nature-inspired Super Hydrophilic and Antifouling Surfaces. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2013, 64, 15-20. | 0.2 | 3 |
| 144 | Directional Oil Sliding Surfaces with Hierarchical Anisotropic Groove Microstructures. Advanced Materials, 2013, 25, 5756-5761. | 21.0 | 87 |
| 146 | Nature-inspired Low Adhesive Antifouling Surfaces. Kobunshi Ronbunshu, 2013, 70, 301-308. | 0.2 | 1 |
| 147 | Preparation and Friction Force Microscopy Measurements of Immiscible, Opposing Polymer Brushes. Journal of Visualized Experiments, 2014, , . | 0.3 | 2 |
| 148 | Surface Structure and Wetting Characteristics of Collembola Cuticles. PLoS ONE, 2014, 9, e86783. | 2.5 | 34 |
| 149 | Capillary Rise on Legs of a Small Animal and on Artificially Textured Surfaces Mimicking Them. PLoS ONE, 2014, 9, e96813. | 2.5 | 18 |
| 152 | Slippery lubricant-infused textured aluminum surfaces. Journal of Adhesion Science and Technology, 2014, 28, 1949-1957. | 2.6 | 25 |
| 153 | Influence of Water on the Interfacial Behavior of Gallium Liquid Metal Alloys. ACS Applied Materials & Interfaces, 2014, 6, 22467-22473. | 8.0 | 168 |
| 154 | Solvent-induced immiscibility of polymer brushes eliminates dissipation channels. Nature Communications, 2014, 5, 3781. | 12.8 | 80 |
| 155 | Stretching Velocityâ€Dependent Dynamic Adhesion of the Water/Oil Interfaces for High Quality Lithographic Printing. Advanced Materials Interfaces, 2014, 1, 1400080. | 3.7 | 3 |
| 156 | A bio-inspired approach for $\langle i \rangle$ in situ $\langle i \rangle$ synthesis of tunable adhesive. Bioinspiration and Biomimetics, 2014, 9, 016005. | 2.9 | 15 |
| 157 | Control of Polymicrobial Biofilms: Recent Trends. Springer Series on Biofilms, 2014, , 327-358. | 0.1 | 0 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 158 | Polymeric Slippery Coatings: Nature and Applications. Polymers, 2014, 6, 1266-1311. | 4.5 | 42 |
| 159 | Dynamic spreading on pillar-arrayed surfaces: Viscous resistance versus molecular friction. Physics of Fluids, 2014, 26, . | 4.0 | 60 |
| 160 | Investigating and biomimicking the surface wetting behaviors of ginkgo leaf. Soft Matter, 2014, 10, 8800-8803. | 2.7 | 22 |
| 161 | UVâ€Triggered Dopamine Polymerization: Control of Polymerization, Surface Coating, and Photopatterning. Advanced Materials, 2014, 26, 8029-8033. | 21.0 | 307 |
| 162 | Superhydrophobic Surface with Hierarchical Architecture and Bimetallic Composition for Enhanced Antibacterial Activity. ACS Applied Materials & Samp; Interfaces, 2014, 6, 22108-22115. | 8.0 | 89 |
| 163 | Grooved Organogel Surfaces towards Anisotropic Sliding of Water Droplets. Advanced Materials, 2014, 26, 3131-3135. | 21.0 | 113 |
| 164 | Biomimicking lubrication superior to fish skin using responsive hydrogels. NPG Asia Materials, 2014, 6, e136-e136. | 7.9 | 60 |
| 165 | Durable superoleophobic fabric surfaces with counterintuitive superwettability for polar solvents. AICHE Journal, 2014, 60, 2752-2756. | 3.6 | 64 |
| 166 | Perfluorinated lubricant/ polypyrrole composite material: Preparation and corrosion inhibition application. Journal of Applied Polymer Science, 2014, 131, . | 2.6 | 7 |
| 167 | Time dependent wettability of graphite upon ambient exposure: The role of water adsorption. Journal of Chemical Physics, 2014, 141, 084709. | 3.0 | 55 |
| 168 | Electro-osmotic flow along superhydrophobic surfaces with embedded electrodes. Physical Review E, 2014, 89, 063005. | 2.1 | 8 |
| 169 | Reproducing Superhydrophobic Leaves as Coatings by Micromolding Surfaceâ€Initiated Polymerization. Macromolecular Rapid Communications, 2014, 35, 1937-1942. | 3.9 | 12 |
| 170 | Temperatureâ€Driven Switching of Water Adhesion on Organogel Surface. Advanced Materials, 2014, 26, 1895-1900. | 21.0 | 165 |
| 171 | Turning a surface superrepellent even to completely wetting liquids. Science, 2014, 346, 1096-1100. | 12.6 | 901 |
| 172 | Evaporation-Induced Transition from <i>Nepenthes</i> Pitcher-Inspired Slippery Surfaces to Lotus Leaf-Inspired Superoleophobic Surfaces. Langmuir, 2014, 30, 14292-14299. | 3.5 | 82 |
| 173 | Magnetic nanoparticles for magnetically guided therapies against neural diseases. MRS Bulletin, 2014, 39, 965-969. | 3.5 | 5 |
| 174 | Lubricantâ€Infused Nanoparticulate Coatings Assembled by Layerâ€byâ€Layer Deposition. Advanced Functional Materials, 2014, 24, 6658-6667. | 14.9 | 206 |
| 175 | Perspectives on surface nanobubbles. Biomicrofluidics, 2014, 8, 041301. | 2.4 | 48 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 176 | Clear Antismudge Unimolecular Coatings of Diblock Copolymers on Glass Plates. ACS Applied Materials & Samp; Interfaces, 2014, 6, 21435-21445. | 8.0 | 35 |
| 177 | Fluorinated Pickering Emulsions Impede Interfacial Transport and Form Rigid Interface for the Growth of Anchorage-Dependent Cells. ACS Applied Materials & Samp; Interfaces, 2014, 6, 21446-21453. | 8.0 | 74 |
| 178 | Physically and chemically stable ionic liquid-infused textured surfaces showing excellent dynamic omniphobicity. APL Materials, 2014, 2, 056108. | 5.1 | 55 |
| 179 | Designing Lubricantâ€Impregnated Textured Surfaces to Resist Scale Formation. Advanced Materials Interfaces, 2014, 1, 1300068. | 3.7 | 85 |
| 180 | Static and dynamic hydrophobicity of alumina-based porous ceramics impregnated with fluorinated oil. Journal of Materials Research, 2014, 29, 1546-1555. | 2.6 | 14 |
| 181 | Wettability of graphene-laminated micropillar structures. Journal of Applied Physics, 2014, 116, . | 2.5 | 7 |
| 182 | BIOINSPIRED SELF-HEALING COATINGS. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 391-417. | 0.1 | 2 |
| 183 | Filefishâ€Inspired Surface Design for Anisotropic Underwater Oleophobicity. Advanced Functional Materials, 2014, 24, 809-816. | 14.9 | 220 |
| 184 | Micro-and nanostructured silicon-based superomniphobic surfaces. Journal of Colloid and Interface Science, 2014, 416, 280-288. | 9.4 | 30 |
| 185 | Anti-fouling properties of microstructured surfaces bio-inspired by rice leaves and butterfly wings. Journal of Colloid and Interface Science, 2014, 419, 114-133. | 9.4 | 198 |
| 186 | Peanut Leaf Inspired Multifunctional Surfaces. Small, 2014, 10, 294-299. | 10.0 | 107 |
| 187 | Optically Transparent Antibacterial Films Capable of Healing Multiple Scratches. Advanced Functional Materials, 2014, 24, 403-411. | 14.9 | 123 |
| 188 | Selfâ€healing polymeric materials towards nonâ€structural recovery of functional properties. Polymer International, 2014, 63, 1741-1749. | 3.1 | 49 |
| 189 | Inkjet Printing Patterned Photonic Crystal Domes for Wide Viewingâ€Angle Displays by Controlling the Sliding Three Phase Contact Line. Advanced Optical Materials, 2014, 2, 34-38. | 7.3 | 221 |
| 190 | Transparent and Superamphiphobic Surfaces from Oneâ€6tep Spray Coating of Stringed Silica Nanoparticle/Sol Solutions. Particle and Particle Systems Characterization, 2014, 31, 763-770. | 2.3 | 130 |
| 191 | Fluorinated Raspberry-like Polymer Particles for Superamphiphobic Coatings. ACS Applied Materials & Lamp; Interfaces, 2014, 6, 2629-2638. | 8.0 | 99 |
| 192 | Materials and surface engineering to control bacterial adhesion and biofilm formation: A review of recent advances. Frontiers of Chemical Science and Engineering, 2014, 8, 20-33. | 4.4 | 59 |
| 193 | Simple Fabrication of Robust Waterâ€Repellent Surfaces with Low Contactâ€Angle Hysteresis Based on Impregnation. Advanced Materials Interfaces, 2014, 1, 1300138. | 3.7 | 101 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-------------|-----------|
| 194 | Robust Technique Allowing the Manufacture of Superoleophobic (Omniphobic) Metallic Surfaces. Advanced Engineering Materials, 2014, 16, 1127-1132. | 3. 5 | 26 |
| 195 | Water-Based Superhydrophobic Coatings for Nonwoven and Cellulosic Substrates. Industrial & Engineering Chemistry Research, 2014, 53, 222-227. | 3.7 | 50 |
| 196 | Omniphobic "R ^F Paper―Produced by Silanization of Paper with Fluoroalkyltrichlorosilanes. Advanced Functional Materials, 2014, 24, 60-70. | 14.9 | 169 |
| 197 | Superhydrophobic Coatings on Celluloseâ€Based Materials: Fabrication, Properties, and Applications. Advanced Materials Interfaces, 2014, 1, 1300026. | 3.7 | 221 |
| 198 | Selfâ€Replenishing Dual Structured Superhydrophobic Coatings Prepared by Dropâ€Casting of an Allâ€Inâ€One Dispersion. Advanced Functional Materials, 2014, 24, 986-992. | 14.9 | 108 |
| 199 | A Mechanically and Electrically Selfâ€Healing Supercapacitor. Advanced Materials, 2014, 26, 3638-3643. | 21.0 | 351 |
| 200 | Trapping of drops by wetting defects. Nature Communications, 2014, 5, 3559. | 12.8 | 84 |
| 201 | Fluorogel Elastomers with Tunable Transparency, Elasticity, Shapeâ€Memory, and Antifouling Properties. Angewandte Chemie - International Edition, 2014, 53, 4418-4422. | 13.8 | 161 |
| 202 | Fabrication of slippery liquid-infused porous surface based on carbon fiber with enhanced corrosion inhibition property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 453, 132-141. | 4.7 | 74 |
| 203 | Antibiofilm Agents. Springer Series on Biofilms, 2014, , . | 0.1 | 10 |
| 204 | Superhydrophobic coating deposited directly on aluminum. Applied Surface Science, 2014, 305, 774-782. | 6.1 | 60 |
| 205 | Bio-Inspired Strategies for Anti-Icing. ACS Nano, 2014, 8, 3152-3169. | 14.6 | 760 |
| 206 | 25th Anniversary Article: Scalable Multiscale Patterned Structures Inspired by Nature: the Role of Hierarchy. Advanced Materials, 2014, 26, 675-700. | 21.0 | 212 |
| 207 | Nanofur for Biomimetic Applications. Advanced Materials Interfaces, 2014, 1, 1300083. | 3.7 | 35 |
| 208 | Recent progress in antireflection and self-cleaning technology – From surface engineering to functional surfaces. Progress in Materials Science, 2014, 61, 94-143. | 32.8 | 350 |
| 209 | Superamphiphobic surfaces. Chemical Society Reviews, 2014, 43, 2784-2798. | 38.1 | 525 |
| 210 | General Frost Growth Mechanism on Solid Substrates with Different Stiffness. Langmuir, 2014, 30, 1160-1168. | 3.5 | 59 |
| 211 | Fabrics coated with lubricated nanostructures display robust omniphobicity. Nanotechnology, 2014, 25, 014019. | 2.6 | 86 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 212 | Optimization of superamphiphobic layers based on candle soot. Pure and Applied Chemistry, 2014, 86, 87-96. | 1.9 | 23 |
| 213 | One-step fabrication of robust and optically transparent slippery coatings. RSC Advances, 2014, 4, 55263-55270. | 3.6 | 18 |
| 214 | Substrateâ€Independent Underwater Superoleophobic Surfaces Inspired by Fishâ€Skin and Musselâ€Adhesives. Advanced Materials Interfaces, 2014, 1, 1300092. | 3.7 | 44 |
| 215 | Influence of the enclosed fluid on the flow over a microstructured surface in the Cassie state. Journal of Fluid Mechanics, 2014, 740, 168-195. | 3.4 | 100 |
| 216 | Multiscale Effect of Hierarchical Self-Assembled Nanostructures on Superhydrophobic Surface. Langmuir, 2014, 30, 13581-13587. | 3.5 | 25 |
| 217 | A high-throughput method for testing biofouling and cleaning of polymer hydrogel materials used in medical devices. Analytical Methods, 2014, 6, 4521. | 2.7 | 9 |
| 218 | Direct three-dimensional imaging of polymer–water interfaces by nanoscale hard X-ray phase tomography. Soft Matter, 2014, 10, 2982-2990. | 2.7 | 10 |
| 219 | Wicking Nanopillar Arrays with Dual Roughness for Selective Transport and Fluorescence Measurements. ACS Applied Materials & Samp; Interfaces, 2014, 6, 17894-17901. | 8.0 | 18 |
| 220 | Hydrophilization of liquid surfaces by plasma treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 461, 225-230. | 4.7 | 31 |
| 221 | A bioinspired omniphobic surface coating on medical devices prevents thrombosis and biofouling. Nature Biotechnology, 2014, 32, 1134-1140. | 17.5 | 575 |
| 222 | Superwetting hierarchical porous silica nanofibrous membranes for oil/water microemulsion separation. Nanoscale, 2014, 6, 12445-12449. | 5.6 | 95 |
| 223 | Superhydrophobic surface enhanced Raman scattering sensing using Janus particle arrays realized by site-specific electrochemical growth. Journal of Materials Chemistry C, 2014, 2, 542-547. | 5.5 | 41 |
| 224 | Observing wetting behaviors of UV-curable liquid on nanostructured surfaces with sub-20 nm resolution. RSC Advances, 2014, 4, 22155-22161. | 3.6 | 2 |
| 225 | <i>Nepenthes</i> Pitcher Inspired Antiâ€Wetting Silicone Nanofilaments Coatings: Preparation, Unique Antiâ€Wetting and Selfâ€Cleaning Behaviors. Advanced Functional Materials, 2014, 24, 1074-1080. | 14.9 | 156 |
| 226 | Supramolecular Polymers as Surface Coatings: Rapid Fabrication of Healable Superhydrophobic and Slippery Surfaces. Advanced Materials, 2014, 26, 7358-7364. | 21.0 | 126 |
| 227 | Skin-friction drag reduction in the turbulent regime using random-textured hydrophobic surfaces. Physics of Fluids, 2014, 26, . | 4.0 | 95 |
| 228 | Multifunctional Superamphiphobic TiO $<$ sub $>$ 2 $<$ /sub $>$ Nanostructure Surfaces with Facile Wettability and Adhesion Engineering. Small, 2014, 10, 4865-4873. | 10.0 | 113 |
| 229 | Increasing heat transfer during condensation on surfaces via lubricant impregnation. , 2014, , . | | 0 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 230 | Rational nanostructuring of surfaces for extraordinary icephobicity. Nanoscale, 2014, 6, 4874-4881. | 5.6 | 203 |
| 231 | Bioinspired underwater superoleophobic surface with ultralow oil-adhesion achieved by femtosecond laser microfabrication. Journal of Materials Chemistry A, 2014, 2, 8790-8795. | 10.3 | 160 |
| 232 | Bioinspired Ultrahigh Water Pinning Nanostructures. Langmuir, 2014, 30, 325-331. | 3.5 | 60 |
| 233 | Air-stable droplet interface bilayers on oil-infused surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7588-7593. | 7.1 | 125 |
| 234 | Self-healing polymer systems: properties, synthesis and applications. , 2014, , 271-298. | | 18 |
| 235 | The design and applications of superomniphobic surfaces. NPG Asia Materials, 2014, 6, e109-e109. | 7.9 | 314 |
| 236 | Drop Impact Dynamics on Oil-Infused Nanostructured Surfaces. Langmuir, 2014, 30, 8400-8407. | 3.5 | 81 |
| 237 | Droplet and Fluid Gating by Biomimetic Janus Membranes. Advanced Functional Materials, 2014, 24, 6023-6028. | 14.9 | 261 |
| 238 | Superhydrophilic Polyelectrolyte Brush Layers with Imparted Anti-Icing Properties: Effect of Counter ions. ACS Applied Materials & Samp; Interfaces, 2014, 6, 6487-6496. | 8.0 | 115 |
| 239 | High-Transparency, Self-Standable Gel-SLIPS Fabricated by a Facile Nanoscale Phase Separation. ACS Applied Materials & Description (2014), 6, 1502-1508. | 8.0 | 88 |
| 240 | Fabrication of superhydrophobic surface on aluminum by continuous chemical etching and its anti-icing property. Applied Surface Science, 2014, 317, 701-709. | 6.1 | 201 |
| 241 | Product and technology innovation: What can biomimicry inspire?. Biotechnology Advances, 2014, 32, 1494-1505. | 11.7 | 119 |
| 242 | High-resolution liquid patterns via three-dimensional droplet shape control. Nature Communications, 2014, 5, 4975. | 12.8 | 85 |
| 243 | Low voltage reversible electrowetting exploiting lubricated polymer honeycomb substrates. Applied Physics Letters, 2014, 104, . | 3.3 | 34 |
| 244 | Wetting behavior and remarkable durability of amphiphobic aluminum alloys surfaces in a wide range of environmental conditions. Chemical Engineering Journal, 2014, 258, 101-109. | 12.7 | 34 |
| 245 | Surface micro/nanotopography, wetting properties and the potential for biomimetic icephobicity of skunk cabbage <i>Symplocarpus foetidus</i> Soft Matter, 2014, 10, 7797-7803. | 2.7 | 53 |
| 246 | Transparent Slippery Surfaces Made with Sustainable Porous Cellulose Lauroyl Ester Films. ACS Applied Materials & Diterfaces, 2014, 6, 6969-6976. | 8.0 | 64 |
| 247 | Active surfaces: Ferrofluid-impregnated surfaces for active manipulation of droplets. Applied Physics Letters, 2014, 105, . | 3.3 | 103 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 248 | Dropwise Condensation on Micro- and Nanostructured Surfaces. Nanoscale and Microscale Thermophysical Engineering, 2014, 18, 223-250. | 2.6 | 235 |
| 249 | Interfacial Material System Exhibiting Superwettability. Advanced Materials, 2014, 26, 6872-6897. | 21.0 | 448 |
| 250 | Antiâ€ice Coating Inspired by Ice Skating. Small, 2014, 10, 4693-4699. | 10.0 | 157 |
| 251 | A free energy model and availability analysis for onset of condensation on rigid and liquid surfaces in moist air. International Journal of Heat and Mass Transfer, 2014, 78, 460-467. | 4.8 | 19 |
| 252 | Optical Phenomena and Antifrosting Property on Biomimetics Slippery Fluid-Infused Antireflective Films via Layer-by-Layer Comparison with Superhydrophobic and Antireflective Films. ACS Applied Materials & Samp; Interfaces, 2014, 6, 13985-13993. | 8.0 | 126 |
| 254 | Bioinspired Materials: from Low to High Dimensional Structure. Advanced Materials, 2014, 26, 6994-7017. | 21.0 | 198 |
| 255 | Bio-Inspired Titanium Dioxide Materials with Special Wettability and Their Applications. Chemical Reviews, 2014, 114, 10044-10094. | 47.7 | 489 |
| 256 | Omniphobic Membrane for Robust Membrane Distillation. Environmental Science and Technology Letters, 2014, 1, 443-447. | 8.7 | 288 |
| 257 | Photoresponsive superhydrophobic surfaces for effective wetting control. Soft Matter, 2014, 10, 9187-9192. | 2.7 | 57 |
| 258 | Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. Journal of Materials Chemistry A, 2014, 2, 18531-18538. | 10.3 | 84 |
| 259 | Fabrication of a Micro-omnifluidic Device by Omniphilic/Omniphobic Patterning on Nanostructured Surfaces. ACS Nano, 2014, 8, 9016-9024. | 14.6 | 78 |
| 260 | Self-Replenishing Vascularized Fouling-Release Surfaces. ACS Applied Materials & Samp; Interfaces, 2014, 6, 13299-13307. | 8.0 | 208 |
| 261 | Why Can Organic Liquids Move Easily on Smooth Alkyl-Terminated Surfaces?. Langmuir, 2014, 30, 4049-4055. | 3.5 | 56 |
| 262 | Mobile Interfaces: Liquids as a Perfect Structural Material for Multifunctional, Antifouling Surfaces. Chemistry of Materials, 2014, 26, 698-708. | 6.7 | 121 |
| 263 | Underwater oil wettability on nanostructured superamphiphobic surface tuned by trapped air layer continuity. Chemical Research in Chinese Universities, 2014, 30, 518-520. | 2.6 | 2 |
| 264 | Effective medium theory for drag-reducing micro-patterned surfaces in turbulent flows. European Physical Journal E, 2014, 37, 19. | 1.6 | 12 |
| 265 | Humidity-triggered self-healing films with excellent oxygen barrier performance. Chemical Communications, 2014, 50, 7136. | 4.1 | 55 |
| 266 | Drag Reduction using Lubricant-Impregnated Surfaces in Viscous Laminar Flow. Langmuir, 2014, 30, 10970-10976. | 3.5 | 242 |

| # | Article | IF | Citations |
|-----|--|------|-----------|
| 268 | A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solventâ€Proof Superhydrophobicity for Selfâ€Healing and Selfâ€Cleaning Coatings. Advanced Functional Materials, 2014, 24, 6751-6761. | 14.9 | 129 |
| 269 | Rice- and butterfly-wing effect inspired self-cleaning and low drag micro/nanopatterned surfaces in water, oil, and air flow. Nanoscale, 2014, 6, 76-96. | 5.6 | 198 |
| 270 | Multifunctional Superhydrophobic Surfaces Templated From Innately Microstructured Hydrogel Matrix. Nano Letters, 2014, 14, 4803-4809. | 9.1 | 183 |
| 271 | Regulating Water Adhesion on Superhydrophobic TiO ₂ Nanotube Arrays. Advanced Functional Materials, 2014, 24, 6381-6388. | 14.9 | 70 |
| 272 | A simple way to achieve superhydrophobicity, controllable water adhesion, anisotropic sliding, and anisotropic wetting based on femtosecond-laser-induced line-patterned surfaces. Journal of Materials Chemistry A, 2014, 2, 5499-5507. | 10.3 | 172 |
| 273 | Attenuation of encrustation by self-assembled inorganic fullerene-like nanoparticles. Nanoscale, 2014, 6, 5251. | 5.6 | 16 |
| 274 | Anti-icing Coating with an Aqueous Lubricating Layer. ACS Applied Materials & Samp; Interfaces, 2014, 6, 6998-7003. | 8.0 | 292 |
| 275 | Emerging Technologies Inspired by Plants. , 2014, , 111-132. | | 4 |
| 276 | Preparation and investigation of nano-AlN lubricant with high performance. Materials Chemistry and Physics, 2014, 147, 28-34. | 4.0 | 6 |
| 277 | The Present Situation of Self-healing Materials Research and Expectation for New Approaches. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2014, 65, 464-469. | 0.2 | 0 |
| 279 | Selfâ€Replenishable Antiâ€Waxing Organogel Materials. Angewandte Chemie - International Edition, 2015, 54, 8975-8979. | 13.8 | 71 |
| 280 | Functional polyelectrolyte multilayer assemblies for surfaces with controlled wetting behavior. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 16 |
| 283 | Surface nanobubbles and nanodroplets. Reviews of Modern Physics, 2015, 87, 981-1035. | 45.6 | 602 |
| 285 | Towards combinatorial mixing devices without any pumps by open-capillary channels: fundamentals and applications. Scientific Reports, 2015, 5, 10263. | 3.3 | 33 |
| 286 | Effective directional self-gathering of drops on spine of cactus with splayed capillary arrays. Scientific Reports, 2015, 5, 17757. | 3.3 | 51 |
| 287 | A Drosera-bioinspired hydrogel for catching and killing cancer cells. Scientific Reports, 2015, 5, 14297. | 3.3 | 24 |
| 288 | Water-Repellent Slippery Surfaces for HVAC&R Systems. , 2015, , . | | 0 |
| 289 | Implications for directionality of nanoscale forces in bacterial attachment. Biophysics Reports, 2015, 1, 120-126. | 0.8 | 4 |

| # | Article | IF | CITATIONS |
|-----|---|------------|--------------|
| 290 | Salt‶olerant Superoleophobicity on Alginate Gel Surfaces Inspired by Seaweed (<i>Saccharina) Tj ETQq0 0 0 r</i> | gBT /Overl | ock 10 Tf 50 |
| 291 | lonicâ€Liquidâ€Gel Surfaces Showing Easyâ€Sliding and Ultradurable Features. Advanced Materials Interfaces, 2015, 2, 1500177. | 3.7 | 38 |
| 293 | The fluid control mechanism of bionic structural heterogeneous composite materials and its potential application in enhancing pump efficiency. Advances in Mechanical Engineering, 2015, 7, 168781401561955. | 1.6 | 3 |
| 294 | Onâ€Demand Liquid Transportation Using Bioinspired Omniphobic Lubricated Surfaces Based on Selfâ€Organized Honeycomb and Pincushion Films. Advanced Functional Materials, 2015, 25, 4195-4201. | 14.9 | 87 |
| 295 | Integration of Selfâ€Lubrication and Nearâ€Infrared Photothermogenesis for Excellent Antiâ€Icing/Deicing Performance. Advanced Functional Materials, 2015, 25, 4237-4245. | 14.9 | 184 |
| 296 | Nanoporous Substrateâ€Infiltrated Hydrogels: a Bioinspired Regenerable Surface for High Load Bearing and Tunable Friction. Advanced Functional Materials, 2015, 25, 7366-7374. | 14.9 | 87 |
| 297 | Robust Flowerâ€Like TiO ₂ @Cotton Fabrics with Special Wettability for Effective Selfâ€Cleaning and Versatile Oil/Water Separation. Advanced Materials Interfaces, 2015, 2, 1500220. | 3.7 | 175 |
| 300 | Robustly Bloodâ€Inert and Shapeâ€Reproducible Electrospun Polymeric Mats. Advanced Materials Interfaces, 2015, 2, 1500065. | 3.7 | 28 |
| 301 | Superamphiphobic Coatings with High Transmittance: Structure, Fabrication, and Perspective. Advanced Materials Interfaces, 2015, 2, 1500196. | 3.7 | 16 |
| 302 | Metallized Gratings Enable Color Effects and Floating Screen Films by Firstâ€Order Diffraction. Advanced Optical Materials, 2015, 3, 1793-1799. | 7.3 | 22 |
| 303 | New Developments in Omniphobic Surfaces Inspired by Nature. Journal of the Adhesion Society of Japan, 2015, 51, 370-374. | 0.0 | 0 |
| 304 | Bioâ€Inspired Microstructure Design to Improve Thermal Ablation and Oxidation Resistance: Experiment on SiC. Journal of the American Ceramic Society, 2015, 98, 4010-4015. | 3.8 | 12 |
| 305 | Bioinspired, Stimuliâ€Responsive, Multifunctional Superhydrophobic Surface with Directional Wetting, Adhesion, and Transport of Water. Advanced Functional Materials, 2015, 25, 5047-5056. | 14.9 | 117 |
| 306 | Integrating Ultraâ€Thermalâ€Sensitive Fluids into Elastomers for Multifunctional Flexible Sensors. Advanced Electronic Materials, 2015, 1, 1500029. | 5.1 | 66 |
| 307 | Fluorineâ€Free Antiâ€Smudge Polyurethane Coatings. Angewandte Chemie - International Edition, 2015, 54, 12722-12727. | 13.8 | 148 |
| 308 | A Facile, Multifunctional, Transparent, and Superhydrophobic Coating Based on a Nanoscale Porous Structure Spontaneously Assembled from Branched Silica Nanoparticles. Advanced Materials Interfaces, 2015, 2, 1500201. | 3.7 | 40 |
| 309 | Facile Fabrication of Robust Iceâ€Phobic Polyurethane Sponges. Advanced Materials Interfaces, 2015, 2, 1500219. | 3.7 | 28 |
| 311 | The Quest for Nonthrombotic Surface Modifications to Achieve Hemocompatibility of Implantable Devices. ASAIO Journal, 2015, 61, 623-634. | 1.6 | 11 |

| # | Article | IF | CITATIONS |
|-----|--|--------------|-----------|
| 313 | Revisiting the Challenges in Fabricating Uniform Coatings with Polyfunctional Molecules on High Surface Energy Materials. Coatings, 2015, 5, 1002-1018. | 2.6 | 18 |
| 314 | Development of a Self-Slippery Liquid-Infused Porous Surface (SLIPS) Coating Using Carbon Nanotube Composite for Repelling Food Debris and Microbial Biofilms. Transactions of the ASABE, 2015, , 861-867. | 1.1 | 5 |
| 315 | Hydrophobicity — A Green Technique for Enhancing Corrosion Resistance of Alloys. , 0, , . | | 3 |
| 316 | Perspectives on the Emerging Applications of Multifaceted Biomedical Polymeric Nanomaterials. Journal of Nanomaterials, 2015, 2015, 1-22. | 2.7 | 2 |
| 318 | Liquid marbles: topical context within soft matter and recent progress. Soft Matter, 2015, 11, 2530-2546. | 2.7 | 204 |
| 319 | Superomniphobic and Easily Repairable Coatings on Copper Substrates Based on Simple Immersion or Spray Processes. Langmuir, 2015, 31, 3465-3472. | 3 . 5 | 45 |
| 320 | Gating mechanism under pressure. Nature, 2015, 519, 41-42. | 27.8 | 10 |
| 321 | Visible-Light-Induced Self-Cleaning Property of Bi ₂ Ti ₂ Arrays. Langmuir, 2015, 31, 5962-5969. | 3.5 | 40 |
| 322 | Robust liquid-infused surfaces through patterned wettability. Soft Matter, 2015, 11, 5023-5029. | 2.7 | 77 |
| 323 | Reversible and dynamic transitions between sticky and slippery states on porous surfaces with ultra-low backpressure. RSC Advances, 2015, 5, 33666-33673. | 3. 6 | 20 |
| 324 | Progress in low voltage reversible electrowetting with lubricated polymer honeycomb substrates. RSC Advances, 2015, 5, 32491-32496. | 3.6 | 23 |
| 325 | Superhydrophilic and underwater superoleophobic mesh coating for efficient oil–water separation. RSC Advances, 2015, 5, 51537-51541. | 3.6 | 38 |
| 326 | Effect of Boundary Slippage on Foul Release. , 2015, , 151-175. | | 0 |
| 327 | Superamphiphobic Surfaces., 2015,, 57-69. | | 4 |
| 328 | Composite materiomics. , 2015, , 903-944. | | 2 |
| 329 | lon adsorption-induced wetting transition in oil-water-mineral systems. Scientific Reports, 2015, 5, 10519. | 3.3 | 119 |
| 330 | Metallic Superhydrophobic Surfaces. , 2015, , 87-111. | | 0 |
| 331 | Design of bioinspired, smart, multiscale interfacial materials with superwettability. MRS Bulletin, 2015, 40, 155-165. | 3.5 | 19 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 332 | Self-lubricating organogels (SLUGs) with exceptional syneresis-induced anti-sticking properties against viscous emulsions and ices. Journal of Materials Chemistry A, 2015, 3, 12626-12630. | 10.3 | 236 |
| 333 | Recent Advances in Controlling the Depositing Morphologies of Inkjet Droplets. ACS Applied Materials & Lamp; Interfaces, 2015, 7, 28086-28099. | 8.0 | 210 |
| 334 | In Situ Control of Underwater-Pinning of Organic Droplets on a Surfactant-Doped Conjugated Polymer Surface. ACS Applied Materials & Samp; Interfaces, 2015, 7, 25608-25617. | 8.0 | 16 |
| 335 | A Self-Cleaning TiO2 Nanosisal-like Coating toward Disposing Nanobiochips of Cancer Detection. ACS Nano, 2015, 9, 9284-9291. | 14.6 | 76 |
| 336 | Controlled electro-coalescence/non-coalescence on lubricating fluid infused slippery surfaces. RSC Advances, 2015, 5, 105524-105530. | 3.6 | 10 |
| 337 | A methodology for the generation of biomimetic design concepts. Architectural Science Review, 2015, 58, 120-133. | 2.2 | 95 |
| 338 | Slippery liquid-infused porous surface based on perfluorinated lubricant/iron tetradecanoate: Preparation and corrosion protection application. Applied Surface Science, 2015, 328, 491-500. | 6.1 | 64 |
| 339 | Robust superhydrophobic TiO ₂ @fabrics for UV shielding, self-cleaning and oil–water separation. Journal of Materials Chemistry A, 2015, 3, 2825-2832. | 10.3 | 474 |
| 340 | Fabrication of superhydrophobic and oleophobic surface on zinc substrate by a simple method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 469, 271-278. | 4.7 | 30 |
| 341 | Durability of self-assembled monolayers on aluminum oxide surface for determining surface wettability. Applied Surface Science, 2015, 330, 445-448. | 6.1 | 20 |
| 342 | Micro-/nano-structured superhydrophobic surfaces in the biomedical field: part I: basic concepts and biomimetic approaches. Nanomedicine, 2015, 10, 103-119. | 3.3 | 63 |
| 343 | Electrochemically etched porous stainless steel for enhanced oil retention. Surface and Coatings Technology, 2015, 264, 127-131. | 4.8 | 31 |
| 344 | A review of the recent advances in superhydrophobic surfaces and the emerging energy-related applications. Energy, 2015, 82, 1068-1087. | 8.8 | 340 |
| 345 | Spatial resolution comparison of AC-SECM with SECM and their characterization of self-healing performance of hexamethylene diisocyanate trimer microcapsule coatings. Journal of Materials Chemistry A, 2015, 3, 5599-5607. | 10.3 | 32 |
| 346 | Slippery liquid-infused porous surfaces fabricated on aluminum as a barrier to corrosion induced by sulfate reducing bacteria. Corrosion Science, 2015, 93, 159-166. | 6.6 | 121 |
| 347 | A glimpse of superb tribological designs in nature. Biotribology, 2015, 1-2, 11-23. | 1.9 | 31 |
| 348 | Printing Patterned Fine 3D Structures by Manipulating the Three Phase Contact Line. Advanced Functional Materials, 2015, 25, 2237-2242. | 14.9 | 157 |
| 349 | Dielectrophoresis-Driven Spreading of Immersed Liquid Droplets. Langmuir, 2015, 31, 1011-1016. | 3.5 | 29 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 350 | Biocompatible Slippery Fluid-Infused Films Composed of Chitosan and Alginate via Layer-by-Layer Self-Assembly and Their Antithrombogenicity. ACS Applied Materials & Self-Assembly and Their Antithrombogenicity. ACS Applied Materials & Self-Assembly and Their Antithrombogenicity. ACS Applied Materials & Self-Assembly and Their Antithrombogenicity. | 8.0 | 109 |
| 351 | "Insensitive―to Touch: Fabric-Supported Lubricant-Swollen Polymeric Films for Omniphobic Personal Protective Gear. ACS Applied Materials & Interfaces, 2015, 7, 4224-4232. | 8.0 | 30 |
| 352 | Stability of Surface-Immobilized Lubricant Interfaces under Flow. Chemistry of Materials, 2015, 27, 1792-1800. | 6.7 | 181 |
| 353 | Functionalization of Metallic Glasses through Hierarchical Patterning. Nano Letters, 2015, 15, 963-968. | 9.1 | 98 |
| 354 | Superwettability Controlled Overflow. Advanced Materials, 2015, 27, 1745-1750. | 21.0 | 49 |
| 355 | A simple and versatile approach to self-healing polymers and electrically conductive composites. RSC Advances, 2015, 5, 13261-13269. | 3.6 | 17 |
| 356 | Interface Manipulation for Printing Threeâ€Dimensional Microstructures Under Magnetic Guiding. Small, 2015, 11, 1900-1904. | 10.0 | 32 |
| 357 | Electrowetting on liquid-infused film (EWOLF): Complete reversibility and controlled droplet oscillation suppression for fast optical imaging. Scientific Reports, 2014, 4, 6846. | 3.3 | 116 |
| 358 | Fabrication and anti-icing property of coral-like superhydrophobic aluminum surface. Applied Surface Science, 2015, 331, 132-139. | 6.1 | 92 |
| 359 | Rice and Butterfly Wing Effect Inspired Low Drag and Antifouling Surfaces: A Review. Critical Reviews in Solid State and Materials Sciences, 2015, 40, 1-37. | 12.3 | 96 |
| 360 | Liquid infused porous surfaces for mineral fouling mitigation. Journal of Colloid and Interface Science, 2015, 444, 81-86. | 9.4 | 62 |
| 361 | Bioinspired Superâ€Wettability from Fundamental Research to Practical Applications. Angewandte Chemie - International Edition, 2015, 54, 3387-3399. | 13.8 | 611 |
| 362 | Dynamically reconfigurable complex emulsions via tunable interfacial tensions. Nature, 2015, 518, 520-524. | 27.8 | 325 |
| 363 | Single-protein spin resonance spectroscopy under ambient conditions. Science, 2015, 347, 1135-1138. | 12.6 | 283 |
| 364 | Superhydrophobic Polymers., 2015,, 67-85. | | 0 |
| 365 | Temperature-controlled morphology evolution of porphyrin nanostructures at an oilâ \in "aqueous interface. Journal of Materials Chemistry C, 2015, 3, 2445-2449. | 5.5 | 13 |
| 366 | Liquid-based gating mechanism with tunable multiphase selectivity and antifouling behaviour. Nature, 2015, 519, 70-73. | 27.8 | 394 |
| 367 | Superamphiphobic Polymeric Surfaces Sustaining Ultrahigh Impact Pressures of Aqueous High―and Lowâ€Surfaceâ€Tension Mixtures, Tested with Laserâ€Induced Forward Transfer of Drops. Advanced Materials, 2015, 27, 2231-2235. | 21.0 | 78 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 368 | Assessment of drag reduction at slippery, topographically structured surfaces. Microfluidics and Nanofluidics, 2015, 19, 199-207. | 2.2 | 23 |
| 369 | Fluid physico-chemical properties influence capture and diet in Nepenthes pitcher plants. Annals of Botany, 2015, 115, 705-716. | 2.9 | 30 |
| 370 | Wetting Hierarchy in Oleophobic 3D Electrospun Nanofiber Networks. ACS Applied Materials & Samp; Interfaces, 2015, 7, 16645-16652. | 8.0 | 49 |
| 371 | Transparent self-cleaning lubricant-infused surfaces made with large-area breath figure patterns. Applied Surface Science, 2015, 355, 1083-1090. | 6.1 | 62 |
| 372 | Bacterially Antiadhesive, Optically Transparent Surfaces Inspired from Rice Leaves. ACS Applied Materials & Samp; Interfaces, 2015, 7, 19274-19281. | 8.0 | 53 |
| 373 | Bioinspired Surfaces with Superwettability: New Insight on Theory, Design, and Applications. Chemical Reviews, 2015, 115, 8230-8293. | 47.7 | 1,292 |
| 374 | Molecular aggregation states and wetting behavior of a poly{2-(perfluorooctyl)ethyl acrylate} brush-immobilized nano-imprinted surface. Polymer, 2015, 69, 10-16. | 3.8 | 17 |
| 375 | Fabrication of super slippery sheet-layered and porous anodic aluminium oxide surfaces and its anticorrosion property. Applied Surface Science, 2015, 355, 495-501. | 6.1 | 72 |
| 376 | Bidirectional Control of Flow in Thin Polymer Films by Photochemically Manipulating Surface Tension. Chemistry of Materials, 2015, 27, 4538-4545. | 6.7 | 18 |
| 377 | Anatomy of Nanoscale Propulsion. Annual Review of Biophysics, 2015, 44, 77-100. | 10.0 | 57 |
| 378 | Wetting transition of the ordered nanoporous matrix layer under impact and static pressure. Applied Surface Science, 2015, 353, 636-642. | 6.1 | 3 |
| 379 | Centrifugation-assisted Assembly of Colloidal Silica into Crack-Free and Transferrable Films with Tunable Crystalline Structures. Scientific Reports, 2015, 5, 12100. | 3.3 | 21 |
| 380 | Superhydrophobic materials and coatings: a review. Reports on Progress in Physics, 2015, 78, 086501. | 20.1 | 415 |
| 381 | Dynamic polymer systems with self-regulated secretion for the control of surface properties andÂmaterial healing. Nature Materials, 2015, 14, 790-795. | 27.5 | 237 |
| 382 | Stratified thin-film flow in a rheometer. Physics of Fluids, 2015, 27, . | 4.0 | 6 |
| 383 | Injection-molded plastic plate with hydrophobic surface by nanoperiodic structure applied in uniaxial direction. Journal of Adhesion Science and Technology, 2015, 29, 24-35. | 2.6 | 6 |
| 384 | Shear-Driven Failure of Liquid-Infused Surfaces. Physical Review Letters, 2015, 114, 168301. | 7.8 | 240 |
| 385 | Control of Membrane Permeability in Air-Stable Droplet Interface Bilayers. Langmuir, 2015, 31, 4224-4231. | 3.5 | 8 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 386 | Graft opolymerâ€Based Approach to Clear, Durable, and Anti‧mudge Polyurethane Coatings. Angewandte Chemie - International Edition, 2015, 54, 6516-6520. | 13.8 | 136 |
| 387 | Durability of a lubricant-infused Electrospray Silicon Rubber surface as an anti-icing coating. Applied Surface Science, 2015, 346, 68-76. | 6.1 | 191 |
| 388 | Antimicrobial coatings for metallic biomaterials. , 2015, , 379-391. | | 6 |
| 389 | The Graetz–Nusselt problem extended to continuum flows with finite slip. Journal of Fluid Mechanics, 2015, 764, . | 3.4 | 16 |
| 390 | Hierarchical Structure and Multifunctional Surface Properties of Carnivorous Pitcher Plants Nepenthes. Jom, 2015, 67, 744-753. | 1.9 | 20 |
| 391 | Direct Insight into the Threeâ€Dimensional Internal Morphology of Solid–Liquid–Vapor Interfaces at Microscale. Angewandte Chemie - International Edition, 2015, 54, 4792-4795. | 13.8 | 25 |
| 392 | High-efficiency self-healing conductive composites from HPAMAM and CNTs. Journal of Materials Chemistry A, 2015, 3, 12154-12158. | 10.3 | 21 |
| 393 | Facile One-Step Photolithographic Method for Engineering Hierarchically Nano/Microstructured Transparent Superamphiphobic Surfaces. ACS Applied Materials & Samp; Interfaces, 2015, 7, 10988-10992. | 8.0 | 47 |
| 394 | Soft network composite materials with deterministic and bio-inspired designs. Nature Communications, 2015, 6, 6566. | 12.8 | 392 |
| 395 | Inverted Leidenfrost-like Effect during Condensation. Langmuir, 2015, 31, 5353-5363. | 3.5 | 11 |
| 396 | Bioinspired Stimuliâ€Responsive and Antifreezeâ€Secreting Antiâ€Icing Coatings. Advanced Materials Interfaces, 2015, 2, 1400479. | 3.7 | 119 |
| 397 | Hydrogen-Bonding-Supported Self-Healing Antifogging Thin Films. Scientific Reports, 2015, 5, 9227. | 3.3 | 80 |
| 398 | Mechanically Induced Self-Healing Superhydrophobicity. Journal of Physical Chemistry C, 2015, 119, 7109-7114. | 3.1 | 63 |
| 399 | Graphene for flexible lithium-ion batteries: Applications and prospects. Chinese Science Bulletin, 2015, 60, 630-644. | 0.7 | 4 |
| 400 | Sensitive Humidityâ€Driven Reversible and Bidirectional Bending of Nanocellulose Thin Films as Bioâ€Inspired Actuation. Advanced Materials Interfaces, 2015, 2, 1500080. | 3.7 | 104 |
| 401 | Robust self-cleaning surfaces that function when exposed to either air or oil. Science, 2015, 347, 1132-1135. | 12.6 | 1,494 |
| 402 | Nanodrop on a smooth solid surface with hidden roughness. Density functional theory considerations. Nanoscale, 2015, 7, 7873-7884. | 5.6 | 6 |
| 403 | Fabrication of Liquidâ€Infused Surfaces Using Reactive Polymer Multilayers: Principles for Manipulating the Behaviors and Mobilities of Aqueous Fluids on Slippery Liquid Interfaces. Advanced Materials, 2015, 27, 3007-3012. | 21.0 | 143 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 404 | Superelastic and Superhydrophobic Nanofiber-Assembled Cellular Aerogels for Effective Separation of Oil/Water Emulsions. ACS Nano, 2015, 9, 3791-3799. | 14.6 | 612 |
| 405 | Ultrathin Zwitterionic Coatings for Roughnessâ€Independent Underwater Superoleophobicity and Gravityâ€Driven Oil–Water Separation. Advanced Materials Interfaces, 2015, 2, 1400489. | 3.7 | 68 |
| 406 | Droplet coalescence on water repellant surfaces. Soft Matter, 2015, 11, 154-160. | 2.7 | 57 |
| 407 | Textiles: Fabrics of life. Nature, 2015, 519, S10-S11. | 27.8 | 9 |
| 409 | Scaling Up Nature: Large Area Flexible Biomimetic Surfaces. ACS Applied Materials & Samp; Interfaces, 2015, 7, 23439-23444. | 8.0 | 34 |
| 410 | Pneumatically-actuated artificial cilia array for biomimetic fluid propulsion. Lab on A Chip, 2015, 15, 4348-4355. | 6.0 | 46 |
| 411 | Improved Icephobic Properties on Surfaces with a Hydrophilic Lubricating Liquid. ACS Applied Materials & Samp; Interfaces, 2015, 7, 22067-22077. | 8.0 | 134 |
| 412 | Self-Propelled Nanomotors Autonomously Seek and Repair Cracks. Nano Letters, 2015, 15, 7077-7085. | 9.1 | 123 |
| 413 | Highly Transparent, Nanofiller-Reinforced Scratch-Resistant Polymeric Composite Films Capable of Healing Scratches. ACS Nano, 2015, 9, 10055-10065. | 14.6 | 45 |
| 414 | Formation, characterization and stability of oil nanodroplets on immersed substrates. Advances in Colloid and Interface Science, 2015, 224, 17-32. | 14.7 | 7 |
| 415 | Multiple sheet-layered super slippery surfaces based on anodic aluminium oxide and its anticorrosion property. RSC Advances, 2015, 5, 70080-70085. | 3.6 | 35 |
| 416 | Cleanliness is next to godliness: mechanisms for staying clean. Journal of Experimental Biology, 2015, 218, 3164-3174. | 1.7 | 29 |
| 417 | Biomimetic Submicroarrayed Cross-Linked Liquid Crystal Polymer Films with Different Wettability via Colloidal Lithography. ACS Applied Materials & Samp; Interfaces, 2015, 7, 25522-25528. | 8.0 | 34 |
| 418 | Transparent and Superamphiphobic Surfaces from Mushroom-Like Micropillar Arrays. ACS Applied Materials & Company (1988) Materials | 8.0 | 73 |
| 419 | Extremely durable biofouling-resistant metallic surfaces based on electrodeposited nanoporous tungstite films on steel. Nature Communications, 2015, 6, 8649. | 12.8 | 326 |
| 420 | Evaporation of Sessile Droplets on Slippery Liquid-Infused Porous Surfaces (SLIPS). Langmuir, 2015, 31, 11781-11789. | 3.5 | 97 |
| 421 | Recent Developments in Altered Wettability for Enhancing Condensation., 2015,, 85-131. | | 6 |
| 423 | Preparation and hydrophobicity of solid–liquid bulk composite using porous glass and fluorinated oil. Journal of Materials Science, 2015, 50, 7760-7769. | 3.7 | 5 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 424 | Hydrophobic sol–gel coatings based on polydimethylsiloxane for self-cleaning applications. Materials and Design, 2015, 86, 855-862. | 7.0 | 75 |
| 425 | Slippery Wenzel State. ACS Nano, 2015, 9, 9260-9267. | 14.6 | 207 |
| 426 | Organogel as durable anti-icing coatings. Science China Materials, 2015, 58, 559-565. | 6.3 | 116 |
| 427 | Superhydrophobic-like tunable droplet bouncing on slippery liquid interfaces. Nature Communications, 2015, 6, 7986. | 12.8 | 229 |
| 428 | Overflow cascades in liquid-infused substrates. Physics of Fluids, 2015, 27, . | 4.0 | 39 |
| 429 | Direct observation of drops on slippery lubricant-infused surfaces. Soft Matter, 2015, 11, 7617-7626. | 2.7 | 323 |
| 430 | Facile Fabrication of Lubricant-Infused Wrinkling Surface for Preventing Thrombus Formation and Infection. ACS Applied Materials & Samp; Interfaces, 2015, 7, 19466-19473. | 8.0 | 85 |
| 431 | Design of submicron structures with superhydrophobic and oleophobic properties on zinc substrate. Materials and Design, 2015, 85, 653-660. | 7.0 | 26 |
| 432 | Slippery liquid-infused porous surface bio-inspired by pitcher plant for marine anti-biofouling application. Colloids and Surfaces B: Biointerfaces, 2015, 136, 240-247. | 5.0 | 88 |
| 433 | A nanodrop on the surface of a lubricating liquid covering a rough solid surface. Nanoscale, 2015, 7, 15701-15710. | 5.6 | 2 |
| 434 | Rapid Movement of Water Droplets on the Hydrophobic Surface of ZnO Nanorod Array Impregnated by Lubricant. Nano, 2015, 10, 1550051. | 1.0 | 3 |
| 435 | Towards outperforming conventional sensor arrays with fabricated individual photonic vapour sensors inspired by Morpho butterflies. Nature Communications, 2015, 6, 7959. | 12.8 | 171 |
| 436 | Highly transparent, stable, and superhydrophobic coatings based on gradient structure design and fast regeneration from physical damage. Applied Surface Science, 2015, 359, 826-833. | 6.1 | 21 |
| 437 | Tailored Porphyrin Assembly at the Oil–Aqueous Interface Based on the Receding of Threeâ€Phase Contact Line of Droplet Template. Advanced Materials Interfaces, 2015, 2, 1400365. | 3.7 | 17 |
| 438 | How droplets nucleate and grow on liquids and liquid impregnated surfaces. Soft Matter, 2015, 11, 69-80. | 2.7 | 127 |
| 439 | Reversible Underwater Lossless Oil Droplet Transportation. Advanced Materials Interfaces, 2015, 2, 1400388. | 3.7 | 60 |
| 440 | Reactive Superhydrophobic Surface and Its Photoinduced Disulfide-ene and Thiol-ene (Bio)functionalization. Nano Letters, 2015, 15, 675-681. | 9.1 | 86 |
| 441 | Liquid-Infused Silicone As a Biofouling-Free Medical Material. ACS Biomaterials Science and Engineering, 2015, 1, 43-51. | 5.2 | 235 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 442 | Hazard assessment of fluorinated alternatives to long-chain perfluoroalkyl acids (PFAAs) and their precursors: Status quo, ongoing challenges and possible solutions. Environment International, 2015, 75, 172-179. | 10.0 | 420 |
| 443 | Antifouling Surfaces and Materials. , 2015, , . | | 19 |
| 444 | Dropwise Condensation of Low Surface Tension Fluids on Omniphobic Surfaces. Scientific Reports, 2014, 4, 4158. | 3.3 | 173 |
| 445 | Hierarchical micro and nano structured, hydrophilic, superhydrophobic and superoleophobic surfaces incorporated in microfluidics, microarrays and lab on chip microsystems. Microelectronic Engineering, 2015, 132, 135-155. | 2.4 | 187 |
| 446 | Biotechnologies and Biomimetics for Civil Engineering., 2015, , . | | 21 |
| 447 | One-Step Modification of Fabrics with Bioinspired Polydopamine@Octadecylamine Nanocapsules for Robust and Healable Self-Cleaning Performance. Small, 2015, 11, 426-431. | 10.0 | 117 |
| 448 | Bioinspired Engineering of Thermal Materials. Advanced Materials, 2015, 27, 428-463. | 21.0 | 225 |
| 450 | Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. Chemical Communications, 2015, 51, 1775-1794. | 4.1 | 209 |
| 452 | Nature-Inspired Polymers. , 2016, , 59-74. | | 0 |
| 453 | Motion of Adsorbed Nano-Particles on Azobenzene Containing Polymer Films. Molecules, 2016, 21, 1663. | 3.8 | 10 |
| 454 | Surface roughness rather than surface chemistry essentially affects insect adhesion. Beilstein Journal of Nanotechnology, 2016, 7, 1471-1479. | 2.8 | 58 |
| 455 | Wettability and morphology of the leaf surface in cashew tree from the Amazon, Northern Brazil. Acta Scientiarum - Biological Sciences, 2016, 38, 215. | 0.3 | 8 |
| 456 | Bio-Inspired Extreme Wetting Surfaces for Biomedical Applications. Materials, 2016, 9, 116. | 2.9 | 110 |
| 457 | Vibrations and Spatial Patterns Change Effective Wetting Properties of Superhydrophobic and Regular Membranes. Biomimetics, 2016, 1, 4. | 3.3 | 5 |
| 458 | Anti-Icing Superhydrophobic Surfaces: Controlling Entropic Molecular Interactions to Design Novel Icephobic Concrete. Entropy, 2016, 18, 132. | 2.2 | 79 |
| 459 | Fabrication of Bendable Circuits on a Polydimethylsiloxane (PDMS) Surface by Inkjet Printing Semi-Wrapped Structures. Materials, 2016, 9, 253. | 2.9 | 32 |
| 460 | Novel Materials of Construction in the Food Industry. , 2016, , 395-444. | | 5 |
| 462 | Smart Gating Multiâ€Scale Pore/Channelâ€Based Membranes. Advanced Materials, 2016, 28, 7049-7064. | 21.0 | 242 |

| # | Article | IF | Citations |
|-----|--|------|-----------|
| 463 | Waterâ€Triggered Selfâ€Healing Coatings of Hydrogenâ€Bonded Complexes for High Binding Affinity and Antioxidative Property. Advanced Materials Interfaces, 2016, 3, 1600167. | 3.7 | 48 |
| 464 | Carbon Nanotubes and Graphene for Flexible Electrochemical Energy Storage: from Materials to Devices. Advanced Materials, 2016, 28, 4306-4337. | 21.0 | 595 |
| 465 | A Robust Polyionized Hydrogel with an Unprecedented Underwater Antiâ€Crudeâ€Oilâ€Adhesion Property. Advanced Materials, 2016, 28, 5307-5314. | 21.0 | 346 |
| 466 | Recent Development of Durable and Self-Healing Surfaces with Special Wettability. Macromolecular Rapid Communications, 2016, 37, 463-485. | 3.9 | 102 |
| 467 | Bioinspired Interfacial Materials with Enhanced Drop Mobility: From Fundamentals to Multifunctional Applications. Small, 2016, 12, 1825-1839. | 10.0 | 193 |
| 468 | Oxygenâ€Rich Enzyme Biosensor Based on Superhydrophobic Electrode. Advanced Materials, 2016, 28, 1477-1481. | 21.0 | 134 |
| 469 | Thermal Processing of Silicones for Green, Scalable, and Healable Superhydrophobic Coatings. Advanced Materials, 2016, 28, 3677-3682. | 21.0 | 165 |
| 470 | Siliconbýrsten: omniphobe OberflÃ e hen mit niedrigen Gleitwinkeln. Angewandte Chemie, 2016, 128, 6934-6937. | 2.0 | 1 |
| 471 | Stable slippery liquid-infused anti-wetting surface at high temperatures. Journal of Materials Chemistry A, 2016, 4, 12212-12220. | 10.3 | 60 |
| 472 | On the Gating Mechanism of Slippery Liquid Infused Porous Membranes. Advanced Materials Interfaces, 2016, 3, 1600025. | 3.7 | 31 |
| 473 | Silicone Oil-Infused Slippery Surfaces Based on Sol–Gel Process-Induced Nanocomposite Coatings: A Facile Approach to Highly Stable Bioinspired Surface for Biofouling Resistance. ACS Applied Materials & Amp; Interfaces, 2016, 8, 34810-34819. | 8.0 | 147 |
| 474 | A Green Route for Substrate-Independent Oil-Repellent Coatings. Scientific Reports, 2016, 6, 38016. | 3.3 | 6 |
| 475 | Self-cleaning and antibiofouling enamel surface by slippery liquid-infused technique. Scientific Reports, 2016, 6, 25924. | 3.3 | 52 |
| 476 | Turbulent drag reduction over air- and liquid- impregnated surfaces. Physics of Fluids, 2016, 28, . | 4.0 | 125 |
| 477 | Superhydrophobic drag reduction in laminar flows: a critical review. Experiments in Fluids, 2016, 57, 1. | 2.4 | 229 |
| 478 | Surface hydrophobicity of slippery zones in the pitchers of two Nepenthes species and a hybrid. Scientific Reports, 2016, 6, 19907. | 3.3 | 21 |
| 479 | Enhanced slippery behavior and stability of lubricating fluid infused nanostructured surfaces. EPJ Applied Physics, 2016, 75, 11301. | 0.7 | 11 |
| 480 | Breath figure patterns prepared by spraying ultrasonic atomized water droplets. , 2016, , . | | 0 |

| # | Article | IF | Citations |
|-----|---|--------------|-----------|
| 481 | Polymers with autonomous life-cycle control. Nature, 2016, 540, 363-370. | 27.8 | 322 |
| 482 | Electrically induced drop detachment and ejection. Physics of Fluids, 2016, 28, . | 4.0 | 44 |
| 483 | Electrowetting-on-dielectric actuation of a vertical translation and angular manipulation stage. Applied Physics Letters, 2016, 109, . | 3.3 | 18 |
| 484 | Lubrication of Stainless Steel Surfaces for Marine Antifouling Applications. Bulletin of the Korean Chemical Society, 2016, 37, 2087-2090. | 1.9 | 1 |
| 485 | Improvement of lubricant-infused surfaces for anti-icing applications. Surface Innovations, 2016, 4, 214-217. | 2.3 | 44 |
| 486 | Underwater Superhydrophobicity: Stability, Design and Regulation, and Applications. Applied Mechanics Reviews, 2016, 68, . | 10.1 | 77 |
| 487 | On the shedding of impaled droplets: The role of transient intervening layers. Scientific Reports, 2016, 6, 18875. | 3.3 | 14 |
| 488 | Stability of Two-Immiscible-Fluid Systems: A Review of Canonical Plane Parallel Flows. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, . | 1.5 | 7 |
| 489 | Laminar and turbulent flows over hydrophobic surfaces with shear-dependent slip length. Physics of Fluids, 2016, 28, . | 4.0 | 22 |
| 490 | Resisting and pinning of a nanodrop by trenches on a hysteresis-free surface. Journal of Chemical Physics, 2016, 145, 164702. | 3.0 | 12 |
| 491 | Rebound of continuous droplet streams from an immiscible liquid pool. Physics of Fluids, 2016, 28, 057104. | 4.0 | 4 |
| 492 | Reply to "Comment on â€~Surface energy of Parylene C' ― Materials Letters, 2016, 166, 325-326. | 2.6 | 4 |
| 493 | Superhydrophobic, superoleophobic coatings for the protection of silk textiles. Progress in Organic Coatings, 2016, 97, 44-52. | 3.9 | 77 |
| 494 | Continuous directional water transport on the peristome surface of Nepenthes alata. Nature, 2016, 532, 85-89. | 27.8 | 834 |
| 495 | Sliding three-phase contact line of printed droplets for single-crystal arrays. Nanotechnology, 2016, 27, 184002. | 2.6 | 16 |
| 496 | Covalently Attached Liquids: Instant Omniphobic Surfaces with Unprecedented Repellency. Angewandte Chemie - International Edition, 2016, 55, 244-248. | 13.8 | 299 |
| 497 | Mechanically Tunable Slippery Behavior on Soft Poly(dimethylsiloxane)-Based Anisotropic Wrinkles Infused with Lubricating Fluid. Langmuir, 2016, 32, 5738-5743. | 3 . 5 | 31 |
| 498 | Passive Anti-Icing and Active Deicing Films. ACS Applied Materials & Interfaces, 2016, 8, 14169-14173. | 8.0 | 143 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 499 | Fast Responsive and Controllable Liquid Transport on a Magnetic Fluid/Nanoarray Composite Interface. ACS Nano, 2016, 10, 6220-6226. | 14.6 | 144 |
| 501 | A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. Journal of the Mechanics and Physics of Solids, 2016, 90, 179-202. | 4.8 | 220 |
| 502 | Bioinspired Omniphobic Coatings with a Thermal Self-Repair Function on Industrial Materials. ACS Applied Materials & Samp; Interfaces, 2016, 8, 8265-8271. | 8.0 | 83 |
| 503 | Superhydrophobic surface fabricated on iron substrate by black chromium electrodeposition and its corrosion resistance property. Applied Surface Science, 2016, 378, 388-396. | 6.1 | 22 |
| 504 | Immobilized liquid layers: A new approach to anti-adhesion surfaces for medical applications. Experimental Biology and Medicine, 2016, 241, 909-918. | 2.4 | 81 |
| 505 | Opportunities and challenges for the development of polymer-based biomaterials and medical devices. International Journal of Energy Production and Management, 2016, 3, 129-135. | 3.7 | 41 |
| 506 | Superoleophobic Surfaces Obtained via Hierarchical Metallic Meshes. Langmuir, 2016, 32, 4134-4140. | 3.5 | 31 |
| 507 | Temperature-Dependent Deicing Properties of Electrostatically Anchored Branched Brush Layers of Poly(ethylene oxide). Langmuir, 2016, 32, 4194-4202. | 3.5 | 15 |
| 508 | In Situ Fabrication of Bi2Ti2O7/TiO2 Heterostructure Submicron Fibers for Enhanced Photocatalytic Activity. Nanoscale Research Letters, 2016, 11, 193. | 5.7 | 16 |
| 509 | Engineering Immunomodulatory Biomaterials To Tune the Inflammatory Response. Trends in Biotechnology, 2016, 34, 470-482. | 9.3 | 387 |
| 510 | Delayed lubricant depletion on liquid-infused randomly rough surfaces. Experiments in Fluids, 2016, 57, 1. | 2.4 | 49 |
| 511 | A biologically inspired attachable, self-standing nanofibrous membrane for versatile use in oil–water separation. Nanoscale, 2016, 8, 10922-10927. | 5.6 | 41 |
| 512 | Semitransparent, durable superhydrophobic polydimethylsiloxane/SiO ₂ nanocomposite coatings on varnished wood. Holzforschung, 2016, 70, 1039-1045. | 1.9 | 28 |
| 513 | Fabrication of a micro-nano structure on steel surface and surface wetting. RSC Advances, 2016, 6, 47588-47594. | 3.6 | 10 |
| 514 | A mechanically and electrically self-healing graphite composite dough for stencil-printable stretchable conductors. Journal of Materials Chemistry C, 2016, 4, 4150-4154. | 5.5 | 47 |
| 515 | Anti-icing and anticontamination properties of coatings induced by surface structure. Journal of Coatings Technology Research, 2016, 13, 589-596. | 2.5 | 7 |
| 516 | Experimental investigation of the Faraday instability on a patterned surface. Experiments in Fluids, 2016, 57, 1. | 2.4 | 7 |
| 517 | lce nucleation on nanotextured surfaces: the influence of surface fraction, pillar height and wetting states. Physical Chemistry Chemical Physics, 2016, 18, 26796-26806. | 2.8 | 37 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 518 | Multiscale Modeling of Thin Liquid Films. Springer Series in Materials Science, 2016, , 507-536. | 0.6 | 3 |
| 519 | Nanoporous polystyrene prepared via the selective removal of the low Mw component in polystyrene blends. Polymer Journal, 2016, 48, 983-990. | 2.7 | 1 |
| 520 | Electrostatic interaction between water droplets coated by cold plasma treated silicone oil. Quantification of cold plasmas charging of liquids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 509, 224-228. | 4.7 | 4 |
| 521 | Controllable Broadband Optical Transparency and Wettability Switching of Temperature-Activated Solid/Liquid-Infused Nanofibrous Membranes. ACS Nano, 2016, 10, 9387-9396. | 14.6 | 121 |
| 522 | Biomimetic Surfaces for Enhanced Dropwise Condensation Heat Transfer: Mimic Nature and Transcend Nature., 2016,, 185-228. | | 1 |
| 523 | Surfaces with Sustainable Superhydrophobicity upon Mechanical Abrasion. ACS Applied Materials & Lamp; Interfaces, 2016, 8, 28171-28179. | 8.0 | 74 |
| 524 | A facile cost-effective method for preparing robust self-cleaning transparent superhydrophobic coating. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 2.3 | 11 |
| 525 | Transparent antifouling material for improved operative field visibility in endoscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11676-11681. | 7.1 | 106 |
| 526 | Unusual Dual Superlyophobic Surfaces in Oil–Water Systems: The Design Principles. Advanced Materials, 2016, 28, 10652-10658. | 21.0 | 154 |
| 527 | Stiffer but More Healable Exponential Layered Assemblies with Boron Nitride Nanoplatelets. ACS Nano, 2016, 10, 9434-9445. | 14.6 | 33 |
| 528 | A superrepellent coating with dynamic fluorine chains for frosting suppression: effects of polarity, coalescence and ice nucleation free energy barrier. RSC Advances, 2016, 6, 92197-92205. | 3.6 | 16 |
| 529 | Fluorocarbon Oil Reinforced Triple Emulsion Drops. Advanced Materials, 2016, 28, 8425-8430. | 21.0 | 37 |
| 530 | Controlling the Localization of Liquid Droplets in Polymer Matrices by Evaporative Lithography. Angewandte Chemie, 2016, 128, 10839-10843. | 2.0 | 5 |
| 531 | Liquid-Infused Poly(styrene- <i>b</i> -isobutylene- <i>b</i> -styrene) Microfiber Coating Prevents Bacterial Attachment and Thrombosis. ACS Applied Materials & Samp; Interfaces, 2016, 8, 21214-21220. | 8.0 | 67 |
| 532 | Facile fabrication of highly omniphobic and self-cleaning surfaces based on water mediated fluorinated nanosilica aggregation. RSC Advances, 2016, 6, 74340-74348. | 3.6 | 30 |
| 534 | The Influence of Surface Topography and Surface Chemistry on the Anti-Adhesive Performance of Nanoporous Monoliths. ACS Applied Materials & Interfaces, 2016, 8, 22593-22604. | 8.0 | 9 |
| 536 | SiO2-g-PS/fluoroalkylsilane composites for superhydrophobic and highly oleophobic coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 26-35. | 4.7 | 13 |
| 537 | Water Touch-and-Bounce from a Soft Viscoelastic Substrate: Wetting, Dewetting, and Rebound on Bitumen. Langmuir, 2016, 32, 8245-8254. | 3.5 | 13 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 538 | Superhydrophobic paper with superior stability against deformations and humidity. Applied Surface Science, 2016, 389, 354-360. | 6.1 | 38 |
| 539 | Role of wide tip of mushroom-like micropillar arrays to make the Cassie state on superrepellent surfaces. RSC Advances, 2016, 6, 74670-74674. | 3.6 | 16 |
| 540 | Gelâ€Infused Slippery Surface with Enhanced Longevity and Thermally Controllable Sliding Properties. Advanced Materials Interfaces, 2016, 3, 1600515. | 3.7 | 21 |
| 541 | Multiscale Materials Modeling for Nanomechanics. Springer Series in Materials Science, 2016, , . | 0.6 | 20 |
| 542 | Liquidâ€Infused Smooth Coating with Transparency, Superâ€Durability, and Extraordinary Hydrophobicity. Advanced Functional Materials, 2016, 26, 6693-6702. | 14.9 | 90 |
| 543 | Anti-adhesion effects of liquid-infused textured surfaces on high-temperature stainless steel for soft tissue. Applied Surface Science, 2016, 385, 249-256. | 6.1 | 47 |
| 544 | Transferable thin films with sponge-like porous structure via improved phase separation. Polymer, 2016, 101, 184-191. | 3.8 | 21 |
| 545 | Advances in Bio-inspired Tribology for Engineering Applications. Journal of Bio- and Tribo-Corrosion, 2016, 2, 1. | 2.6 | 18 |
| 546 | Biomimetics studies of <i>Salvinia molesta</i> for fabrication. Micro and Nano Letters, 2016, 11, 291-294. | 1.3 | 2 |
| 547 | Synthesis of Multiwalled Carbon Nanotube-Reinforced Polyborosiloxane Nanocomposites with Mechanically Adaptive and Self-Healing Capabilities for Flexible Conductors. ACS Applied Materials & London & Samp; Interfaces, 2016, 8, 24071-24078. | 8.0 | 92 |
| 548 | High velocity dry spinning of nanofibrillated cellulose (CNF) filaments on an adhesion controlled surface with low friction. Cellulose, 2016, 23, 3393-3398. | 4.9 | 40 |
| 549 | 3D Imaging of Water-Drop Condensation on Hydrophobic and Hydrophilic Lubricant-Impregnated Surfaces. Scientific Reports, 2016, 6, 23687. | 3.3 | 48 |
| 550 | Surfactant- and Aqueous-Foam-Driven Oil Extraction from Micropatterned Surfaces. Langmuir, 2016, 32, 13149-13158. | 3.5 | 2 |
| 551 | The well-designed hierarchical structure of Musa basjoo for supercapacitors. Scientific Reports, 2016, 6, 20306. | 3.3 | 8 |
| 552 | Fluorine-free superwetting systems: construction of environmentally friendly superhydrophilic, superhydrophobic, and slippery surfaces on various substrates. Polymer Chemistry, 2016, 7, 7446-7454. | 3.9 | 36 |
| 553 | Soiling and corrosion behaviors on fluorinated anodized TiO2 surface infused by perfluoropolyether. Surface and Coatings Technology, 2016, 307, 332-344. | 4.8 | 18 |
| 554 | Droplet Impact Dynamics on Lubricant-Infused Superhydrophobic Surfaces: The Role of Viscosity Ratio. Langmuir, 2016, 32, 10166-10176. | 3.5 | 57 |
| 555 | Tunable Structural Color Surfaces with Visually Selfâ€Reporting Wettability. Advanced Functional Materials, 2016, 26, 7937-7942. | 14.9 | 109 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 556 | Slippery Surface of Nepenthes alata Pitcher: The Role of Lunate Cell and Wax Crystal in Restricting Attachment Ability of Ant Camponotus japonicus Mayr. Journal of Bionic Engineering, 2016, 13, 373-387. | 5.0 | 16 |
| 557 | Biomimetic self-cleaning surfaces: synthesis, mechanism and applications. Journal of the Royal Society Interface, 2016, 13, 20160300. | 3.4 | 86 |
| 558 | Superwettability integration: concepts, design and applications. Surface Innovations, 2016, 4, 180-194. | 2.3 | 50 |
| 559 | Rapid and scalable lubrication and replenishment of liquid-infused materials. Surface Innovations, 2016, 4, 102-108. | 2.3 | 17 |
| 560 | Flexible and mechanically robust superhydrophobic silicone surfaces with stable Cassie–Baxter state. Journal of Materials Chemistry A, 2016, 4, 14180-14186. | 10.3 | 71 |
| 561 | Transparent, self-cleaning and waterproof surfaces with tunable micro/nano dual-scale structures. Nanotechnology, 2016, 27, 355701. | 2.6 | 21 |
| 562 | Controlling the Localization of Liquid Droplets in Polymer Matrices by Evaporative Lithography. Angewandte Chemie - International Edition, 2016, 55, 10681-10685. | 13.8 | 33 |
| 563 | Ternary free-energy lattice Boltzmann model with tunable surface tensions and contact angles. Physical Review E, 2016, 93, 033305. | 2.1 | 66 |
| 564 | Strategies for anti-icing: low surface energy or liquid-infused?. RSC Advances, 2016, 6, 70251-70260. | 3.6 | 118 |
| 565 | Superamphiphobic overhang structured coating on a biobased material. Applied Surface Science, 2016, 389, 135-143. | 6.1 | 38 |
| 566 | Advanced Materials for Thermoelectric Applications. , 2016, , 238-282. | | 0 |
| 567 | Influence of cold radiofrequency air and nitrogen plasmas treatment on wetting of polypropylene by the liquid epoxy resin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 445-449. | 4.7 | 7 |
| 568 | Hydrophobic Properties of Biofilmâ€Enriched Hybrid Mortar. Advanced Materials, 2016, 28, 8138-8143. | 21.0 | 38 |
| 569 | Fabrication of superhydrophobic and lyophobic slippery surface on steel substrate. Applied Surface Science, 2016, 387, 1219-1224. | 6.1 | 17 |
| 570 | Engineering polydimethylsiloxane with two-dimensional graphene oxide for an extremely durable superhydrophobic fabric coating. RSC Advances, 2016, 6, 66834-66840. | 3.6 | 16 |
| 571 | Femtosecond laser ablated durable superhydrophobic PTFE films with micro-through-holes for oil/water separation: Separating oil from water and corrosive solutions. Applied Surface Science, 2016, 389, 1148-1155. | 6.1 | 160 |
| 572 | Tunable surface topography in fluoropolymers using photo-embossing. RSC Advances, 2016, 6, 69117-69123. | 3.6 | 5 |
| 573 | A hyperaccumulation pathway to three-dimensional hierarchical porous nanocomposites for highly robust high-power electrodes. Nature Communications, 2016, 7, 13432. | 12.8 | 68 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 574 | Durable gels with ultra-low adhesion to ice. Journal of Materials Chemistry A, 2016, 4, 18253-18258. | 10.3 | 158 |
| 575 | Electrospun nanofiber SLIPS exhibiting high total transparency and scattering. RSC Advances, 2016, 6, 38018-38023. | 3.6 | 19 |
| 576 | Magnetic slippery extreme icephobic surfaces. Nature Communications, 2016, 7, 13395. | 12.8 | 223 |
| 577 | Cylindrical chains of water drops condensing on microstructured lubricant-infused surfaces. Soft Matter, 2016, 12, 9377-9382. | 2.7 | 12 |
| 578 | Functional surfaces for tribological applications: inspiration and design. Surface Topography: Metrology and Properties, 2016, 4, 043001. | 1.6 | 44 |
| 579 | Uniting Superhydrophobic, Superoleophobic and Lubricant Infused Slippery Behavior on Copper Oxide Nano-structured Substrates. Scientific Reports, 2016, 6, 35524. | 3.3 | 37 |
| 580 | Warum der Tropfen nicht hÃĦ. Nachrichten Aus Der Chemie, 2016, 64, 945-951. | 0.0 | 0 |
| 581 | Bio-inspired photonic crystals with superwettability. Chemical Society Reviews, 2016, 45, 6833-6854. | 38.1 | 160 |
| 582 | The effects of surface wettability on the fog and dew moisture harvesting performance on tubular surfaces. Scientific Reports, 2016, 6, 24276. | 3.3 | 155 |
| 583 | Infused polymers for cell sheet release. Scientific Reports, 2016, 6, 26109. | 3.3 | 28 |
| 584 | Bio-inspired dewetted surfaces based on SiC/Si interlocked structures for enhanced-underwater stability and regenerative-drag reduction capability. Scientific Reports, 2016, 6, 24653. | 3.3 | 28 |
| 585 | Fluidized Bed Reactors. , 2016, , 955-1058. | | 0 |
| 586 | A moving contact line as a rheometer for nanometric interfacial layers. Nature Communications, 2016, 7, 12545. | 12.8 | 29 |
| 587 | Fabrication of self-healing and hydrophilic coatings from liquid-like graphene@SiO2 hybrids. Composites Science and Technology, 2016, 136, 133-144. | 7.8 | 24 |
| 588 | Design of anti-icing surfaces: smooth, textured or slippery?. Nature Reviews Materials, 2016, 1, . | 48.7 | 1,048 |
| 589 | Addressing proteolytic efficiency in enzymatic degradation therapy for celiac disease. Scientific Reports, 2016, 6, 30980. | 3.3 | 54 |
| 590 | Cell micropatterns based on silicone-oil-modified slippery surfaces. Nanoscale, 2016, 8, 18612-18615. | 5.6 | 33 |
| 591 | Chapter 1 Multifunctional Coatings for Solar Energy Applications. , 2016, , 1-88. | | 0 |

| # | Article | IF | CITATIONS |
|-----|--|-------------|-----------|
| 592 | A Study of Drop-Microstructured Surface Interactions during Dropwise Condensation with Quartz Crystal Microbalance. Scientific Reports, 2016, 6, 35132. | 3.3 | 21 |
| 593 | Gas/liquid interfacial manipulation by electrostatic inducing for nano-resolution printed circuits. Journal of Materials Chemistry C, 2016, 4, 10847-10851. | 5. 5 | 5 |
| 594 | Oil-Infused Superhydrophobic Silicone Material for Low Ice Adhesion with Long-Term Infusion Stability. ACS Applied Materials & Stability. ACS Applied Materi | 8.0 | 134 |
| 595 | Chitin Nanofibers Extracted from Crab Shells in Broadband Visible Antireflection Coatings with Controlling Layer-by-Layer Deposition and the Application for Durable Antifog Surfaces. ACS Applied Materials & Durable & Company (1988) amp; Interfaces, 2016, 8, 31951-31958. | 8.0 | 46 |
| 596 | Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. RSC Advances, 2016, 6, 106491-106499. | 3.6 | 17 |
| 597 | Designing durable icephobic surfaces. Science Advances, 2016, 2, e1501496. | 10.3 | 488 |
| 598 | Development of Novel Flat and Transparent Coatings Showing Excellent Dynamic Hydrophobicity and Oleophobiciy. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 485-487. | 0.2 | 0 |
| 599 | Current Research Trends in Liquid-Repellent Treatments Focused on the Improvement of Sliding Properties. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 452-460. | 0.2 | 1 |
| 600 | Biomimetic Slippery Surfaces with Omniphobicity. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 461-466. | 0.2 | 0 |
| 601 | Conference info., 2016,,. | | 0 |
| 602 | Tuning and Freezing Disorder in Photonic Crystals using Percolation Lithography. Scientific Reports, 2016, 6, 19542. | 3.3 | 10 |
| 603 | Modeling and Experiments on Liquid-Infused, Mechanically Activated Porous Materials. , 2016, , . | | 0 |
| 604 | New advances in biomimetic surface. Science China Technological Sciences, 2016, 59, 1619-1620. | 4.0 | 0 |
| 605 | Facile design of plant-oil-infused fine surface asperity for transparent blood-repelling endoscope lens. RSC Advances, 2016, 6, 47579-47587. | 3.6 | 26 |
| 606 | Continuously Tunable Wettability by Using Surface Patterned Shape Memory Polymers with Giant Deformability. Small, 2016, 12, 3327-3333. | 10.0 | 49 |
| 607 | A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. Advanced Healthcare Materials, 2016, 5, 1141-1146. | 7.6 | 27 |
| 608 | Silicone Brushes: Omniphobic Surfaces with Low Sliding Angles. Angewandte Chemie - International Edition, 2016, 55, 6822-6824. | 13.8 | 120 |
| 609 | Slippery Liquidâ€Infused Porous Surfaces that Prevent Microbial Surface Fouling and Kill Nonâ€Adherent Pathogens in Surrounding Media: A Controlled Release Approach. Advanced Functional Materials, 2016, 26, 3599-3611. | 14.9 | 132 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 610 | Singleâ€Step Fabrication of Highâ€Density Microdroplet Arrays of Lowâ€Surfaceâ€Tension Liquids. Advanced Materials, 2016, 28, 3202-3208. | 21.0 | 93 |
| 611 | Anisotropic Slippery Surfaces: Electricâ€Driven Smart Control of a Drop's Slide. Advanced Materials, 2016, 28, 6999-7007. | 21.0 | 115 |
| 612 | Vibrations and spatial patterns in biomimetic surfaces: using the shark-skin effect to control blood clotting. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160133. | 3.4 | 17 |
| 613 | Superhydrophobic hierarchically structured surfaces in biology: evolution, structural principles and biomimetic applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160191. | 3.4 | 135 |
| 614 | Contact Angle Hysteresis on Graphene Surfaces and Hysteresis-free Behavior on Oil-infused Graphite Surfaces. Applied Surface Science, 2016, 385, 153-161. | 6.1 | 31 |
| 615 | Bioinspired Structure Materials to Control Water-collecting Properties. Materials Today: Proceedings, 2016, 3, 696-702. | 1.8 | 22 |
| 616 | 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 |
| 617 | Slippery Liquid-Infused Porous Surfaces that Prevent Bacterial Surface Fouling and Inhibit Virulence Phenotypes in Surrounding Planktonic Cells. ACS Infectious Diseases, 2016, 2, 509-517. | 3.8 | 83 |
| 618 | Selective separation of oil and water with mesh membranes by capillarity. Advances in Colloid and Interface Science, 2016, 235, 46-55. | 14.7 | 64 |
| 619 | Self-Healing Superhydrophobic Fluoropolymer Brushes as Highly Protein-Repellent Coatings. Langmuir, 2016, 32, 6310-6318. | 3.5 | 67 |
| 620 | Bubble Meets Droplet: Particleâ€Assisted Reconfiguration of Wetting Morphologies in Colloidal Multiphase Systems. Small, 2016, 12, 3309-3319. | 10.0 | 23 |
| 621 | Inkjet printing of patterned ultra-slippery surfaces for planar droplet manipulation. Sensors and Actuators B: Chemical, 2016, 235, 732-738. | 7.8 | 17 |
| 622 | Nano/Microâ€Manufacturing of Bioinspired Materials: a Review of Methods to Mimic Natural Structures. Advanced Materials, 2016, 28, 6292-6321. | 21.0 | 332 |
| 623 | Clear and Durable Epoxy Coatings that Exhibit Dynamic Omniphobicity. Advanced Materials Interfaces, 2016, 3, 1600001. | 3.7 | 55 |
| 624 | Analyses of drag on viscoelastic liquid infused bio-inspired patterned surfaces. Journal of Non-Newtonian Fluid Mechanics, 2016, 228, 17-30. | 2.4 | 8 |
| 625 | Slippery liquid-infused substrates: a versatile preparation, unique anti-wetting and drag-reduction effect on water. Journal of Materials Chemistry A, 2016, 4, 2524-2529. | 10.3 | 84 |
| 626 | A new approach to understand the Cassie state of liquids on superamphiphobic materials. Nanoscale, 2016, 8, 3031-3039. | 5.6 | 57 |
| 627 | Anti-fouling behavior of polymer brush immobilized surfaces. Polymer Journal, 2016, 48, 325-331. | 2.7 | 133 |

| # | Article | IF | Citations |
|-----|---|--------------|-----------|
| 628 | Bio-inspired antifouling approaches: the quest towards non-toxic and non-biocidal materials. Current Opinion in Biotechnology, 2016, 39, 48-55. | 6.6 | 116 |
| 629 | Numerical simulation of cavitating flow around a slender body with slip boundary condition. Science China: Physics, Mechanics and Astronomy, $2016, 59, 1$. | 5.1 | 1 |
| 630 | Slipperiness and stability of hydrophilic surfaces coated with a lubricating fluid. RSC Advances, 2016, 6, 15002-15007. | 3.6 | 21 |
| 631 | Stalagmite-like self-cleaning surfaces prepared by silanization of plasma-assisted metal-oxide nanostructures. Journal of Materials Chemistry A, 2016, 4, 3406-3414. | 10.3 | 21 |
| 632 | Bioinspired Interfaces with Superwettability: From Materials to Chemistry. Journal of the American Chemical Society, 2016, 138, 1727-1748. | 13.7 | 933 |
| 633 | Fabrication of Slippery Lubricant-Infused Porous Surface for Inhibition of Microbially Influenced Corrosion. ACS Applied Materials & Samp; Interfaces, 2016, 8, 1120-1127. | 8.0 | 133 |
| 634 | Liquid–Infused Surfaces with Trapped Air (LISTA) for Drag Force Reduction. Langmuir, 2016, 32, 2955-2962. | 3.5 | 35 |
| 635 | Anti-smudge behavior of facilely fabricated liquid-infused surfaces with extremely low contact angle hysteresis property. RSC Advances, 2016, 6, 19214-19222. | 3 . 6 | 21 |
| 636 | Bumps lead the way. Nature Materials, 2016, 15, 378-379. | 27.5 | 2 |
| 637 | Osmocapillary phase separation. Extreme Mechanics Letters, 2016, 7, 27-33. | 4.1 | 17 |
| 638 | Superamphiphobic Silicon-Nanowire-Embedded Microsystem and In-Contact Flow Performance of Gas and Liquid Streams. ACS Nano, 2016, 10, 1156-1162. | 14.6 | 23 |
| 639 | Bioinspired synthesis of CVD graphene flakes and graphene-supported molybdenum sulfide catalysts for hydrogen evolution reaction. Nano Research, 2016, 9, 249-259. | 10.4 | 24 |
| 640 | Recent advances in oil-repellent surfaces. International Materials Reviews, 2016, 61, 101-126. | 19.3 | 52 |
| 641 | Bio-inspired highly hydrophobic surface with ecdysis behavior using an organic monolithic resin and titanium dioxide photocatalyst. Journal of Sol-Gel Science and Technology, 2016, 77, 257-265. | 2.4 | 3 |
| 642 | Bioinspired materials for regenerative medicine: going beyond the human archetypes. Journal of Materials Chemistry B, 2016, 4, 2396-2406. | 5.8 | 33 |
| 643 | Plant leaves as templates for soft lithography. RSC Advances, 2016, 6, 22469-22475. | 3.6 | 42 |
| 644 | Control of the Redox Activity of Quantum Dots through Introduction of Fluoroalkanethiolates into | 10.7 | 36 |
| | Their Ligand Shells. Journal of the American Chemical Society, 2016, 138, 2319-2326. | 13.7 | 00 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 646 | Understanding the separations of oil/water mixtures from immiscible to emulsions on super-wettable surfaces. Journal of Bionic Engineering, 2016, 13, 1-29. | 5.0 | 88 |
| 647 | Environmental Applications of Interfacial Materials with Special Wettability. Environmental Science & | 10.0 | 273 |
| 648 | Self-healing fluoropolymer brushes as highly polymer-repellent coatings. Journal of Materials Chemistry A, 2016, 4, 2408-2412. | 10.3 | 39 |
| 649 | Smart, stretchable and wearable supercapacitors: prospects and challenges. CrystEngComm, 2016, 18, 4218-4235. | 2.6 | 75 |
| 650 | Condensation on slippery asymmetric bumps. Nature, 2016, 531, 78-82. | 27.8 | 656 |
| 651 | Palygorskite@Fe ₃ O ₄ @polyperfluoroalkylsilane nanocomposites for superoleophobic coatings and magnetic liquid marbles. Journal of Materials Chemistry A, 2016, 4, 5859-5868. | 10.3 | 38 |
| 652 | Substrate-Independent, Transparent Oil-Repellent Coatings with Self-Healing and Persistent Easy-Sliding Oil Repellency. ACS Nano, 2016, 10, 1076-1085. | 14.6 | 102 |
| 653 | Fabrication of robust, damage-tolerant superhydrophobic coatings on naturally micro-grooved wood surfaces. RSC Advances, 2016, 6, 701-707. | 3.6 | 59 |
| 654 | Ultrasensitive surface-enhanced Raman scattering detection in common fluids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 268-273. | 7.1 | 591 |
| 655 | Urinary catheter capable of repeated on-demand removal of infectious biofilms via active deformation. Biomaterials, 2016, 77, 77-86. | 11.4 | 28 |
| 656 | Asymmetric Superhydrophobic/Superhydrophilic Cotton Fabrics Designed by Spraying Polymer and Nanoparticles. ACS Applied Materials & Samp; Interfaces, 2016, 8, 651-659. | 8.0 | 171 |
| 657 | Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. Soft Matter, 2016, 12, 1938-1963. | 2.7 | 272 |
| 658 | A colloidoscope of colloid-based porous materials and their uses. Chemical Society Reviews, 2016, 45, 281-322. | 38.1 | 256 |
| 659 | Condensation behaviors and resulting heat transfer performance of nano-engineered copper surfaces. International Journal of Heat and Mass Transfer, 2016, 93, 286-292. | 4.8 | 45 |
| 660 | Fabrication of CuO hierarchical flower-like structures with biomimetic superamphiphobic, self-cleaning and corrosion resistance properties. Chemical Engineering Journal, 2016, 283, 1443-1454. | 12.7 | 123 |
| 661 | Water-Repellent Properties of Superhydrophobic and Lubricant-Infused "Slippery―Surfaces: A Brief Study on the Functions and Applications. ACS Applied Materials & Samp; Interfaces, 2016, 8, 3615-3623. | 8.0 | 212 |
| 662 | The springtail cuticle as a blueprint for omniphobic surfaces. Chemical Society Reviews, 2016, 45, 323-341. | 38.1 | 191 |
| 663 | Designing Bioinspired Antiâ€Biofouling Surfaces based on a Superwettability Strategy. Small, 2017, 13, 1503334. | 10.0 | 165 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 664 | Apparent contact angle and contact angle hysteresis on liquid infused surfaces. Soft Matter, 2017, 13, 101-110. | 2.7 | 134 |
| 665 | Development of omniphobic behavior in molecular selfâ€assembled monolayerâ€coated nanowire forests. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 204-210. | 3.4 | 3 |
| 666 | Special oleophobic and hydrophilic surfaces: approaches, mechanisms, and applications. Journal of Materials Chemistry A, 2017, 5, 3759-3773. | 10.3 | 223 |
| 667 | Stretchable superlyophobic surfaces for nearly- lossless droplet transfer. Sensors and Actuators B: Chemical, 2017, 244, 649-654. | 7.8 | 52 |
| 668 | Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. Angewandte Chemie - International Edition, 2017, 56, 1794-1798. | 13.8 | 54 |
| 669 | Infusing Lubricant onto Erasable Microstructured Surfaces toward Guided Sliding of Liquid Droplets. ACS Applied Materials & Samp; Interfaces, 2017, 9, 1959-1967. | 8.0 | 25 |
| 670 | High Quality Bioreplication of Intricate Nanostructures from a Fragile Gecko Skin Surface with Bactericidal Properties. Scientific Reports, 2017, 7, 41023. | 3.3 | 60 |
| 671 | An Experimental Study on the Dynamics of Water Droplets Impingement onto a Goose Feather. , 2017, , . | | 5 |
| 672 | Interdroplet freezing wave propagation of condensation frosting on micropillar patterned superhydrophobic surfaces of varying pitches. International Journal of Heat and Mass Transfer, 2017, 108, 1048-1056. | 4.8 | 51 |
| 673 | Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485. | 14.6 | 186 |
| 674 | Fabrication techniques for bioinspired, mechanically-durable, superliquiphobic surfaces for water, oil, and surfactant repellency. Advances in Colloid and Interface Science, 2017, 241, 1-23. | 14.7 | 56 |
| 675 | Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. Materials and Design, 2017, 120, 204-211. | 7.0 | 25 |
| 676 | Room Temperature Characteristics of Polymer-Based Low Ice Adhesion Surfaces. Scientific Reports, 2017, 7, 42181. | 3.3 | 71 |
| 677 | Development of Laser-Structured Liquid-Infused Titanium with Strong Biofilm-Repellent Properties. ACS Applied Materials & Development of Laser-Structured Liquid-Infused Titanium with Strong Biofilm-Repellent Properties. | 8.0 | 70 |
| 678 | Fluorine-free, liquid-repellent surfaces made from ionic liquid-infused nanostructured silicon. Monatshefte FA-4r Chemie, 2017, 148, 167-177. | 1.8 | 16 |
| 679 | Development of "Liquid-like―Copolymer Nanocoatings for Reactive Oil-Repellent Surface. ACS Nano, 2017, 11, 2248-2256. | 14.6 | 130 |
| 681 | Versatile anti-fouling surface design through nature-inspired approaches. Green Materials, 2017, 5, 14-21. | 2.1 | 2 |
| 682 | Robust Slippery Coating with Superior Corrosion Resistance and Anti-Icing Performance for AZ31B Mg Alloy Protection. ACS Applied Materials & Samp; Interfaces, 2017, 9, 11247-11257. | 8.0 | 225 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 683 | Exceptional Anti-Icing Performance of Self-Impregnating Slippery Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 10233-10242. | 8.0 | 66 |
| 684 | Amine-Reactive Azlactone-Containing Nanofibers for the Immobilization and Patterning of New Functionality on Nanofiber-Based Scaffolds. ACS Applied Materials & Samp; Interfaces, 2017, 9, 10243-10253. | 8.0 | 8 |
| 685 | Electrowetting-on-dielectric actuation of a spatial and angular manipulation MEMS stage., 2017,,. | | 2 |
| 686 | Contactless Transport and Mixing of Liquids on Self-Sustained Sublimating Coatings. Langmuir, 2017, 33, 1799-1809. | 3.5 | 7 |
| 687 | Oilâ€Impregnated Nanoporous Oxide Layer for Corrosion Protection with Selfâ€Healing. Advanced Functional Materials, 2017, 27, 1606040. | 14.9 | 100 |
| 688 | Conformal reversal imprint lithography for polymer nanostructuring over large curved geometries. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, 021602. | 1.2 | 5 |
| 689 | Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. ACS Applied Materials & Description of Environmental Pollutants. A | 8.0 | 84 |
| 690 | Silicone-Infused Antismudge Nanocoatings. ACS Applied Materials & Samp; Interfaces, 2017, 9, 9029-9037. | 8.0 | 58 |
| 691 | Ultra Water Repellent Polypropylene Surfaces with Tunable Water Adhesion. ACS Applied Materials & Lamp; Interfaces, 2017, 9, 10224-10232. | 8.0 | 29 |
| 692 | Slippery Liquid-Infused Porous Surfaces and Droplet Transportation by Surface Acoustic Waves. Physical Review Applied, 2017, 7, . | 3.8 | 62 |
| 693 | Frosting characteristics on hydrophobic and superhydrophobic surfaces: A review. Energy Conversion and Management, 2017, 138, 1-11. | 9.2 | 120 |
| 694 | Condensate droplet size distribution on lubricant-infused surfaces. International Journal of Heat and Mass Transfer, 2017, 109, 187-199. | 4.8 | 123 |
| 695 | Smooth Water-Based Antismudge Coatings for Various Substrates. ACS Sustainable Chemistry and Engineering, 2017, 5, 2605-2613. | 6.7 | 50 |
| 696 | Preprogramming Complex Hydrogel Responses using Enzymatic Reaction Networks. Angewandte Chemie, 2017, 129, 1820-1824. | 2.0 | 13 |
| 697 | Adhesion of Microdroplets on Water-Repellent Surfaces toward the Prevention of Surface Fouling and Pathogen Spreading by Respiratory Droplets. ACS Applied Materials & Diterfaces, 2017, 9, 6599-6608. | 8.0 | 45 |
| 698 | Lubricantâ€Infused Anisotropic Porous Surface Design of Reduced Graphene Oxide Toward Electrically Driven Smart Control of Conductive Droplets' Motion. Advanced Functional Materials, 2017, 27, 1606199. | 14.9 | 71 |
| 699 | Unidirectional Wetting Properties on Multiâ€Bioinspired Magnetocontrollable Slippery Microcilia. Advanced Materials, 2017, 29, 1606869. | 21.0 | 183 |
| 700 | Drop transport and positioning on lubricant-impregnated surfaces. Soft Matter, 2017, 13, 3404-3410. | 2.7 | 48 |

| # | Article | IF | Citations |
|-----|--|------|-----------|
| 701 | In Situ Observation of Dynamic Wetting Transition in Re-Entrant Microstructures. Langmuir, 2017, 33, 3949-3953. | 3.5 | 11 |
| 702 | Facile Design and Fabrication of Superwetting Surfaces with Excellent Wear-Resistance. ACS Applied Materials & Samp; Interfaces, 2017, 9, 15776-15784. | 8.0 | 71 |
| 703 | Droplet Motion on a Shape Gradient Surface. Langmuir, 2017, 33, 4172-4177. | 3.5 | 100 |
| 704 | Slippery Liquid-Immobilized Coating Films Using in Situ Oxidation–Reduction Reactions of Metal Ions in Polyelectrolyte Films. ACS Applied Materials & Samp; Interfaces, 2017, 9, 15122-15129. | 8.0 | 22 |
| 705 | Achieving a slippery, liquid-infused porous surface with anti-icing properties by direct deposition of flame synthesized aerosol nanoparticles on a thermally fragile substrate. Applied Physics Letters, 2017, 110, . | 3.3 | 57 |
| 706 | Superoleophobic surfaces. Chemical Society Reviews, 2017, 46, 4168-4217. | 38.1 | 613 |
| 707 | Surface topology affects wetting behavior of Bacillus subtilis biofilms. Npj Biofilms and Microbiomes, 2017, 3, 11. | 6.4 | 55 |
| 708 | Shape of a sessile drop on a flat surface covered with a liquid film. Soft Matter, 2017, 13, 3760-3767. | 2.7 | 40 |
| 709 | Bioinspired Solid Organogel Materials with a Regenerable Sacrificial Alkane Surface Layer. Advanced Materials, 2017, 29, 1700865. | 21.0 | 109 |
| 710 | A Photocatalytically Active Lubricantâ€Impregnated Surface. Angewandte Chemie, 2017, 129, 5047-5051. | 2.0 | 9 |
| 711 | Spontaneous occurrence of liquid-solid contact electrification in nature: Toward a robust triboelectric nanogenerator inspired by the natural lotus leaf. Nano Energy, 2017, 36, 250-259. | 16.0 | 159 |
| 712 | New anticoagulant coatings and hemostasis assessment tools to avoid complications with pediatric left ventricular assist devices. Journal of Thoracic and Cardiovascular Surgery, 2017, 154, 1364-1366. | 0.8 | 5 |
| 713 | Superhydrophilic and underwater superoleophobic nanofibrous membrane with hierarchical structured skin for effective oil-in-water emulsion separation. Journal of Materials Chemistry A, 2017, 5, 497-502. | 10.3 | 332 |
| 714 | Fabrication of Slippery Lubricant-Infused Porous Surface with High Underwater Transparency for the Control of Marine Biofouling. ACS Applied Materials & Interfaces, 2017, 9, 972-982. | 8.0 | 147 |
| 715 | Passive flux recovery in protein-fouled liquid-gated membranes. Journal of Membrane Science, 2017, 539, 257-262. | 8.2 | 19 |
| 716 | Anti-scaling properties of a SLIPS material prepared by silicon oil infusion in porous polyaniline obtained by electropolymerization. Surface and Coatings Technology, 2017, 325, 58-64. | 4.8 | 25 |
| 717 | Fouling-resistant behavior of liquid-infused porous slippery surfaces. Chinese Journal of Polymer Science (English Edition), 2017, 35, 887-896. | 3.8 | 23 |
| 718 | Modeling nanoscale ice adhesion. Acta Mechanica Solida Sinica, 2017, 30, 224-226. | 1.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 719 | Physics-based hybrid method for multiscale transport in porous media. Journal of Computational Physics, 2017, 344, 320-338. | 3.8 | 31 |
| 720 | Attractive Encounter of a Nanodrop toward a Nanoprotrusion. Journal of Physical Chemistry C, 2017, 121, 7923-7930. | 3.1 | 7 |
| 721 | Remote Droplet Manipulation on Selfâ€Healing Thermally Activated Magnetic Slippery Surfaces. Advanced Materials Interfaces, 2017, 4, 1700009. | 3.7 | 43 |
| 722 | Emerging Trends in Micro- and Nanoscale Technologies in Medicine: From Basic Discoveries to Translation. ACS Nano, 2017, 11, 5195-5214. | 14.6 | 104 |
| 723 | Drop mobility on chemically heterogeneous and lubricant-impregnated surfaces. Advances in Physics: X, 2017, 2, 591-607. | 4.1 | 27 |
| 724 | Factors Influencing Biofouling and Use of Polymeric Materials to Mitigate It., 2017,, 185-206. | | 3 |
| 725 | Amphiphilic Antifogging/Anti-Icing Coatings Containing POSS-PDMAEMA- <i>b</i> -PSBMA. ACS Applied Materials & Containing POSS-PDMAEMA- <i>-VID ACS Applied Materials & Containing POSS-PDMAEMA-</i> | 8.0 | 113 |
| 726 | Breathing walls: The design of porous materials for heat exchange and decentralized ventilation. Energy and Buildings, 2017, 149, 246-259. | 6.7 | 47 |
| 727 | Condensation on hybrid-patterned copper tubes (I): Characterization of condensation heat transfer. International Journal of Heat and Mass Transfer, 2017, 112, 991-1004. | 4.8 | 94 |
| 728 | Sessile droplets for chemical and biological assays. Lab on A Chip, 2017, 17, 2150-2166. | 6.0 | 108 |
| 729 | Self-Propulsion and Shape Restoration of Aqueous Drops on Sulfobetaine Silane Surfaces. Langmuir, 2017, 33, 6182-6191. | 3.5 | 18 |
| 730 | Surface morphology and wettability control of polymer Substrates: A comparison of water-miscible and water-immiscible mixture solvents. European Polymer Journal, 2017, 93, 158-166. | 5.4 | 4 |
| 731 | A review on the mechanical and thermodynamic robustness of superhydrophobic surfaces. Advances in Colloid and Interface Science, 2017, 246, 133-152. | 14.7 | 101 |
| 732 | Manipulating Bubbles in Aqueous Environment via a Lubricantâ€Infused Slippery Surface. Advanced Functional Materials, 2017, 27, 1701605. | 14.9 | 114 |
| 733 | Fabrication of rough colloids by heteroaggregation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 116-124. | 4.7 | 38 |
| 734 | Mussel-Inspired Polyglycerol Coatings with Controlled Wettability: From Superhydrophilic to Superhydrophobic Surface Coatings. Langmuir, 2017, 33, 9508-9520. | 3.5 | 28 |
| 735 | A novel dissolution and resolidification method for preparing robust superhydrophobic polystyrene/silica composite. Chemical Engineering Journal, 2017, 326, 1066-1073. | 12.7 | 52 |
| 736 | Biomimetic building skins: An adaptive approach. Renewable and Sustainable Energy Reviews, 2017, 79, 1472-1491. | 16.4 | 72 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 737 | Role of impregnated lubricant in enhancing thermosyphon performance. International Journal of Heat and Mass Transfer, 2017, 109, 1229-1238. | 4.8 | 29 |
| 738 | Effective slip for Stokes flow between two grooved walls with an arbitrary phase shift. Fluid Dynamics Research, 2017, 49, 025516. | 1.3 | 1 |
| 739 | Mechano-regulated surface for manipulating liquid droplets. Nature Communications, 2017, 8, 14831. | 12.8 | 88 |
| 740 | Assembly of Heterogeneous Materials for Biology and Electronics: From Bio-Inspiration to Bio-Integration. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, . | 1.8 | 12 |
| 742 | A Photocatalytically Active Lubricantâ€Impregnated Surface. Angewandte Chemie - International Edition, 2017, 56, 4965-4969. | 13.8 | 72 |
| 743 | Novel highly-flexible, acid-resistant and self-healing host-guest transparent multilayer films. Applied Surface Science, 2017, 411, 303-314. | 6.1 | 31 |
| 744 | Novel carbon channels from loofah sponge for construction of metal sulfide/carbon composites with robust electrochemical energy storage. Journal of Materials Chemistry A, 2017, 5, 7578-7585. | 10.3 | 90 |
| 745 | Electric field induced reversible spreading of droplets into films on lubricant impregnated surfaces. Applied Physics Letters, 2017, 110, . | 3.3 | 42 |
| 746 | Paradoxical coffee-stain effect driven by the Marangoni flow observed on oil-infused surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 355-360. | 4.7 | 10 |
| 747 | Biomimicry thinking: methodological improvements and practical implementation. Bioinspired, Biomimetic and Nanobiomaterials, 2017, 6, 87-101. | 0.9 | 8 |
| 748 | Nanoengineered materials for liquid–vapour phase-change heat transfer. Nature Reviews Materials, 2017, 2, . | 48.7 | 431 |
| 749 | Bacterial Interactions with Immobilized Liquid Layers. Advanced Healthcare Materials, 2017, 6, 1600948. | 7.6 | 42 |
| 750 | A Transparent, Selfâ€Healing, Highly Stretchable Ionic Conductor. Advanced Materials, 2017, 29, 1605099. | 21.0 | 447 |
| 751 | Reliability modeling for dependent competing failure processes of damage self-healing systems. Computers and Industrial Engineering, 2017, 105, 55-62. | 6.3 | 50 |
| 752 | Robust superhydrophobic coating and the anti-icing properties of its lubricants-infused-composite surface under condensing condition. New Journal of Chemistry, 2017, 41, 1846-1853. | 2.8 | 57 |
| 753 | Liquid-impregnated porous polypropylene surfaces for liquid repellency. Journal of Colloid and Interface Science, 2017, 487, 437-443. | 9.4 | 28 |
| 754 | Environmental stimuli-responsive self-repairing waterbased superhydrophobic coatings. RSC Advances, 2017, 7, 543-550. | 3.6 | 40 |
| 755 | Inorganic Adhesives for Robust Superwetting Surfaces. ACS Nano, 2017, 11, 1113-1119. | 14.6 | 204 |

| # | Article | IF | CITATIONS |
|-------------|--|-------------|-----------|
| 756 | Facile Selective and Diverse Fabrication of Superhydrophobic, Superoleophobic-Superhydrophilic and Superamphiphobic Materials from Kaolin. ACS Applied Materials & Diverse, 2017, 9, 1011-1020. | 8.0 | 98 |
| 757 | Superamphiphobic surfaces constructed by cross-linked hollow SiO 2 spheres. Applied Surface Science, 2017, 400, 162-171. | 6.1 | 17 |
| 758 | A waterproofing textile with robust superhydrophobicity in either air or oil surroundings. Journal of the Taiwan Institute of Chemical Engineers, 2017, 71, 421-425. | 5. 3 | 54 |
| 7 59 | A Switchable Crossâ€Species Liquid Repellent Surface. Advanced Materials, 2017, 29, 1604641. | 21.0 | 186 |
| 760 | A facile and mild route for fabricating slippery liquid-infused porous surface (SLIPS) on CuZn with corrosion resistance and self-healing properties. Surface and Coatings Technology, 2017, 330, 102-112. | 4.8 | 54 |
| 761 | Durable superhydrophobic and superamphiphobic polymeric surfaces and their applications: A review. Advances in Colloid and Interface Science, 2017, 250, 132-157. | 14.7 | 203 |
| 762 | Molecular dimensions and surface diffusion assisted mechanically robust slippery perfluoropolyether impregnated mesoporous alumina interfaces. Nanotechnology, 2017, 28, 505605. | 2.6 | 12 |
| 763 | Distinct ice patterns on solid surfaces with various wettabilities. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11285-11290. | 7.1 | 132 |
| 764 | Mechanically robust, thermally stable, highly transparent superhydrophobic coating with low-temperature sol–gel process. RSC Advances, 2017, 7, 47357-47365. | 3.6 | 48 |
| 765 | Superlyophilic Interfaces and Their Applications. Advanced Materials, 2017, 29, 1703120. | 21.0 | 64 |
| 766 | Thermoresponsive Mobile Interfaces with Switchable Wettability, Optical Properties, and Penetrability. ACS Applied Materials & https://www.acs.com/acs | 8.0 | 33 |
| 767 | Lubricant-Infused Surfaces for Low-Surface-Tension Fluids: Promise versus Reality. ACS Applied Materials & Samp; Interfaces, 2017, 9, 36400-36408. | 8.0 | 171 |
| 768 | Superamphiphobic Coatings from Combination of a Biomimetic Catecholâ€Bearing Fluoropolymer and Halloysite Nanotubes. Advanced Materials Interfaces, 2017, 4, 1700907. | 3.7 | 22 |
| 769 | Large-scale fabrication of translucent, stretchable and durable superhydrophobic composite films. Journal of Materials Chemistry A, 2017, 5, 23489-23496. | 10.3 | 91 |
| 770 | Antiadhesion Organogel Materials: From Liquid to Solid. Advanced Materials, 2017, 29, 1703032. | 21.0 | 70 |
| 771 | Liquid-Infused Smooth Surface for Improved Condensation Heat Transfer. Langmuir, 2017, 33, 8950-8960. | 3.5 | 55 |
| 772 | Self-Healing Superhydrophobic Materials Showing Quick Damage Recovery and Long-Term Durability. Langmuir, 2017, 33, 9972-9978. | 3.5 | 53 |
| 773 | Multiscale crack initiator promoted super-low ice adhesion surfaces. Soft Matter, 2017, 13, 6562-6568. | 2.7 | 150 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 774 | The Wyss institute: A new model for medical technology innovation and translation across the academicâ€industrial interface. Bioengineering and Translational Medicine, 2017, 2, 247-257. | 7.1 | 15 |
| 775 | Frosting Behavior of Superhydrophobic Nanoarrays under Ultralow Temperature. Langmuir, 2017, 33, 8891-8898. | 3.5 | 34 |
| 776 | Nanofriction of Graphene/Ionic Liquid-Infused Block Copolymer Homoporous Membranes. Langmuir, 2017, 33, 11590-11602. | 3.5 | 8 |
| 777 | Polymerâ€Based Surfaces Designed to Reduce Biofilm Formation: From Antimicrobial Polymers to Strategies for Longâ€Term Applications. Macromolecular Rapid Communications, 2017, 38, 1700216. | 3.9 | 68 |
| 778 | Argonâ€Plasma Reinforced Superamphiphobic Fabrics. Small, 2017, 13, 1701891. | 10.0 | 51 |
| 779 | Infused-liquid-switchable porous nanofibrous membranes for multiphase liquid separation. Nature Communications, 2017, 8, 575. | 12.8 | 143 |
| 780 | An omniphobic lubricant-infused coating produced by chemical vapor deposition of hydrophobic organosilanes attenuates clotting on catheter surfaces. Scientific Reports, 2017, 7, 11639. | 3.3 | 86 |
| 781 | Peristomeâ€Mimetic Curved Surface for Spontaneous and Directional Separation of Micro Waterâ€inâ€Oil Drops. Angewandte Chemie, 2017, 129, 13811-13816. | 2.0 | 19 |
| 782 | Drop friction on liquid-infused materials. Soft Matter, 2017, 13, 6981-6987. | 2.7 | 110 |
| 783 | Transparent smart surface with pH-induced wettability transition between superhydrophobicity and underwater superoleophobicity. Materials and Design, 2017, 135, 69-76. | 7.0 | 27 |
| 784 | Silicone Oil Swelling Slippery Surfaces Based on Mussel-Inspired Magnetic Nanoparticles with Multiple Self-Healing Mechanisms. Langmuir, 2017, 33, 10340-10350. | 3.5 | 62 |
| 785 | Advanced Biotechnologies Toward Engineering a Cell Home for Stem Cell Accommodation. Advanced Materials Technologies, 2017, 2, 1700022. | 5.8 | 9 |
| 786 | The Fabrication of Multifunctional SLIPS Films by Electrospinning. ChemNanoMat, 2017, 3, 869-873. | 2.8 | 5 |
| 787 | Substrate-Versatile Approach to Robust Antireflective and Superhydrophobic Coatings with Excellent Self-Cleaning Property in Varied Environments. ACS Applied Materials & Samp; Interfaces, 2017, 9, 34367-34376. | 8.0 | 91 |
| 788 | Water-repellent and corrosion-resistance properties of superhydrophobic and lubricant-infused super slippery surfaces. RSC Advances, 2017, 7, 44239-44246. | 3.6 | 56 |
| 790 | Building Materials from Colloidal Nanocrystal Assemblies: Molecular Control of Solid/Solid Interfaces in Nanostructured Tetragonal ZrO2. Chemistry of Materials, 2017, 29, 7888-7900. | 6.7 | 12 |
| 791 | Substantial drag reduction in turbulent flow using liquid-infused surfaces. Journal of Fluid Mechanics, 2017, 827, 448-456. | 3.4 | 78 |
| 792 | Peristomeâ€Mimetic Curved Surface for Spontaneous and Directional Separation of Micro Waterâ€inâ€Oil Drops. Angewandte Chemie - International Edition, 2017, 56, 13623-13628. | 13.8 | 84 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 793 | Drop Impact onto Dry Surfaces with Complex Morphology. , 0, , 155-252. | | 1 |
| 794 | Atmospheric Water Harvesting: Role of Surface Wettability and Edge Effect. Global Challenges, 2017, 1, 1700019. | 3.6 | 38 |
| 795 | Constructing Soft Substrate-less Platforms Using Particle-Assembled Fluid–Fluid Interfaces and Their Prospects in Multiphasic Applications. Chemistry of Materials, 2017, 29, 6563-6577. | 6.7 | 11 |
| 796 | Bioinspired silica-based superhydrophobic materials. Applied Surface Science, 2017, 426, 1-18. | 6.1 | 40 |
| 797 | From fractal polymer dispersions to mechanically resistant waterborne superhydrophobic coatings. Polymer, 2017, 124, 12-19. | 3.8 | 17 |
| 798 | From molecules to macrostructures: recent development of bioinspired hard tissue repair. Biomaterials Science, 2017, 5, 1435-1449. | 5.4 | 40 |
| 799 | Line tension effects on the wetting of nanostructures: an energy method. Nanotechnology, 2017, 28, 384001. | 2.6 | 8 |
| 800 | Antifouling Biomimetic Liquid-Infused Stainless Steel: Application to Dairy Industrial Processing. ACS Applied Materials & Dairy Interfaces, 2017, 9, 26565-26573. | 8.0 | 68 |
| 801 | Dropwise Condensation on Advanced Functional Surfaces – Theory and Experimental Setup. Chemical Engineering and Technology, 2017, 40, 1966-1974. | 1.5 | 18 |
| 802 | Desert Beetleâ€Inspired Superwettable Patterned Surfaces for Water Harvesting. Small, 2017, 13, 1701403. | 10.0 | 173 |
| 803 | Bioinspired Design of Three-Dimensional Ordered Tribrachia-Post Arrays with Re-entrant Geometry for Omniphobic and Slippery Surfaces. ACS Nano, 2017, 11, 8265-8272. | 14.6 | 67 |
| 804 | Roughness Versus Chemistry: Effect of Different Surface Properties on Insect Adhesion. Biologically-inspired Systems, 2017, , 33-46. | 0.2 | 0 |
| 805 | Electrochemical Approach for Effective Antifouling and Antimicrobial Surfaces. ACS Applied Materials & Samp; Interfaces, 2017, 9, 26503-26509. | 8.0 | 33 |
| 806 | Mechanically durable liquid-impregnated honeycomb surfaces. Scientific Reports, 2017, 7, 6083. | 3.3 | 13 |
| 807 | Superhydrophobic and White Light-Activated Bactericidal Surface through a Simple Coating. ACS Applied Materials & Samp; Interfaces, 2017, 9, 29002-29009. | 8.0 | 34 |
| 808 | Heat transfer performance of a lubricant-infused thermosyphon at various filling ratios. International Journal of Heat and Mass Transfer, 2017, 115, 725-736. | 4.8 | 28 |
| 809 | Surfaces Inspired by the <i>Nepenthes</i> Peristome for Unidirectional Liquid Transport. Advanced Materials, 2017, 29, 1702995. | 21.0 | 93 |
| 810 | <i>Nepenthes</i> Inspired Design of Selfâ€Repairing Omniphobic Slippery Liquid Infused Porous Surface (SLIPS) by Femtosecond Laser Direct Writing. Advanced Materials Interfaces, 2017, 4, 1700552. | 3.7 | 120 |

| # | Article | IF | CITATIONS |
|-----|---|-----------|-------------|
| 811 | Linear stability of two-layer Couette flows. Journal of Fluid Mechanics, 2017, 826, 128-157. | 3.4 | 10 |
| 812 | Modification of lubricant infused porous surface for low-voltage reversible electrowetting. Journal of Materials Chemistry A, 2017, 5, 19159-19167. | 10.3 | 38 |
| 813 | Preventing mussel adhesion using lubricant-infused materials. Science, 2017, 357, 668-673. | 12.6 | 375 |
| 814 | Slippery surface based on lubricant infused hierarchical silicon nanowire film. RSC Advances, 2017, 7, 55812-55818. | 3.6 | 9 |
| 815 | Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. Nature Communications, 2017, 8, 1798. | 12.8 | 77 |
| 816 | Plant Surfaces: Structures and Functions for Biomimetic Applications. Springer Handbooks, 2017, , 1265-1305. | 0.6 | 10 |
| 817 | Design of Lubricant Infused Surfaces. ACS Applied Materials & Samp; Interfaces, 2017, 9, 42383-42392. | 8.0 | 131 |
| 818 | Synthesis and dynamic de-wetting properties of poly(arylene ether sulfone)-graft-poly(dimethyl) Tj ETQq1 1 0.784 | ·314 rgBT | 19gerlock 1 |
| 819 | Liquid-infused nitric oxide-releasing (LINORel) silicone for decreased fouling, thrombosis, and infection of medical devices. Scientific Reports, 2017, 7, 13623. | 3.3 | 93 |
| 820 | Pressure loss in channel flow resulting from a sudden change in boundary condition from no-slip to partial-slip. Physics of Fluids, 2017, 29, 103603. | 4.0 | 8 |
| 821 | Ultra-antireflective synthetic brochosomes. Nature Communications, 2017, 8, 1285. | 12.8 | 101 |
| 822 | Colorful self-healing polyelectrolyte nano-film based on Schiff base linkage capable of sensing. European Polymer Journal, 2017, 93, 521-529. | 5.4 | 16 |
| 823 | Oleoplaning droplets on lubricated surfaces. Nature Physics, 2017, 13, 1020-1025. | 16.7 | 238 |
| 824 | Liquid-infused surfaces as a passive method of turbulent drag reduction. Journal of Fluid Mechanics, 2017, 824, 688-700. | 3.4 | 68 |
| 825 | UV-Curable Antismudge Coatings. ACS Applied Materials & Interfaces, 2017, 9, 25623-25630. | 8.0 | 75 |
| 826 | Stiffness-guided motion of a droplet on a solid substrate. Journal of Chemical Physics, 2017, 146, 244705. | 3.0 | 23 |
| 827 | Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. Nature Communications, 2017, 8, 16070. | 12.8 | 78 |
| 828 | Bioinspired Hand-Operated Smart-Wetting Systems Using Smooth Liquid Coatings. Langmuir, 2017, 33, 14445-14450. | 3.5 | 5 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 829 | Plant Surfaces: Structures and Functions for Biomimetic Innovations. Nano-Micro Letters, 2017, 9, 23. | 27.0 | 304 |
| 830 | Corrosion protection application of slippery liquid-infused porous surface based on aluminum foil. Applied Surface Science, 2017, 423, 365-374. | 6.1 | 91 |
| 831 | Nature-inspired superwettability systems. Nature Reviews Materials, 2017, 2, . | 48.7 | 1,212 |
| 832 | Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. Journal of Materials Chemistry B, 2017, 5, 6728-6733. | 5.8 | 58 |
| 833 | Energy Invariance in Capillary Systems. Physical Review Letters, 2017, 118, 218003. | 7.8 | 18 |
| 834 | Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting on Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting On Scalable Superhydrophobic Surfaces. ACS Applied Materials & Dynamic Defrosting On Scalable Superhydrophobic Surfaces. | 8.0 | 42 |
| 835 | Durable superamphiphobic coatings repelling both cool and hot liquids based on carbon nanotubes. Journal of Colloid and Interface Science, 2017, 505, 622-630. | 9.4 | 34 |
| 836 | Electrowetting on dielectrics on lubricating fluid-infused smooth/rough surfaces with negligible hysteresis. Journal of Adhesion Science and Technology, 2017, 31, 159-170. | 2.6 | 15 |
| 837 | Reduced Blood Cell Adhesion on Polypropylene Substrates through a Simple Surface Zwitterionization. Langmuir, 2017, 33, 611-621. | 3.5 | 48 |
| 838 | Bioâ€Inspired Superhydrophobic and Omniphobic Wood Surfaces. Advanced Materials Interfaces, 2017, 4, 1600289. | 3.7 | 51 |
| 839 | A Modular Flow Cell System for Studying Biomimetic and BioinspiredAnti-Adhesive and Antimicrobial Surfaces. Heat Transfer Engineering, 2017, 38, 805-817. | 1.9 | 1 |
| 840 | Effective slip for flow through a channel bounded by lubricant-impregnated grooved surfaces. Theoretical and Computational Fluid Dynamics, 2017, 31, 189-209. | 2.2 | 12 |
| 841 | Surface modification with hierarchical CuO arrays toward a flexible, durable superhydrophobic and self-cleaning material. Chemical Engineering Journal, 2017, 313, 1328-1334. | 12.7 | 93 |
| 842 | Dissolvable tattoo sensors: from science fiction to a viable technology. Physica Scripta, 2017, 92, 013001. | 2.5 | 20 |
| 843 | Wettability of stearic acid modified chrome oxide layer on copper substrate. Micro and Nano Letters, 2017, 12, 157-160. | 1.3 | 1 |
| 844 | Droplet viscosity effects on dynamic hydrophobicity of a solid–liquid bulk composite prepared from porous glass. Journal of Materials Science, 2017, 52, 595-604. | 3.7 | 8 |
| 845 | An immobilized liquid interface prevents device associated bacterial infection inÂvivo. Biomaterials, 2017, 113, 80-92. | 11.4 | 97 |
| 846 | Patterned SLIPS for the Formation of Arrays of Biofilm Microclusters with Defined Geometries. Advanced Healthcare Materials, 2017, 6, 1601082. | 7.6 | 49 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 847 | Insect Abatement on Lubricious, Low Adhesion Polymer Coatings Measured with an Insect Impact Testing System. Advances in Polymer Science, 2017, , 315-331. | 0.8 | 2 |
| 848 | Use of Liquid Ad(ab)sorbing Surfaces for Anti-icing Applications. Advances in Polymer Science, 2017, , 53-98. | 0.8 | 5 |
| 849 | Passive Snow Repulsion: A State-of-the-art Review Illuminating Research Gaps and Possibilities. Energy Procedia, 2017, 132, 423-428. | 1.8 | 13 |
| 850 | Liquid Repellantcoatings Inspired by the Secretion Function of Slug's Skin. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 132-137. | 0.2 | 0 |
| 851 | Fabrication of high aspect ratio silicon micro-/nano-pore arrays and surface modification aiming at long lifetime liquid-infused-type self-cleaning function. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0013-JAMDSM0013. | 0.7 | 6 |
| 852 | Recent Progress in Bionic Condensate Microdrop Selfâ€Propelling Surfaces. Advanced Materials, 2017, 29, 1703002. | 21.0 | 98 |
| 853 | Fabricating multifunctional silver nanoparticles-coated cotton fabric. Arabian Journal of Chemistry, 2017, 10, S2355-S2362. | 4.9 | 77 |
| 857 | $11.\mathrm{Superhydrophobicity}$ and superoleophobicity: the Wenzel and Cassie wetting regimes. , 2017, , 177-200. | | 0 |
| 858 | 3.9 Hydrophobicity and Surface Finish. , 2017, , 137-148. | | 9 |
| 859 | Molecular Surface Arrangement to Control Dynamic Dewettability. , 2017, , 89-114. | | 1 |
| 860 | Multifunctional biomaterials and their bioinspired systems for bioactive molecules delivery., 2017, , $119-137$. | | 1 |
| 861 | Anti-fouling strategies for central venous catheters. Cardiovascular Diagnosis and Therapy, 2017, 7, S246-S257. | 1.7 | 26 |
| 862 | Application of polydopamine in biomedical microfluidic devices. Microfluidics and Nanofluidics, 2018, 22, 1. | 2.2 | 18 |
| 863 | Bioinspired Wood Nanotechnology for Functional Materials. Advanced Materials, 2018, 30, e1704285. | 21.0 | 341 |
| 864 | Rationally Designed, Multifunctional Self-Assembled Nanoparticles for Covalently Networked, Flexible and Self-Healable Superhydrophobic Composite Films. ACS Applied Materials & Samp; Interfaces, 2018, 10, 9823-9831. | 8.0 | 28 |
| 865 | Dynamic air/liquid pockets for guiding microscale flow. Nature Communications, 2018, 9, 733. | 12.8 | 51 |
| 866 | Flexible, Durable, and Unconditioned Superoleophobic/Superhydrophilic Surfaces for Controllable Transport and Oil–Water Separation. Advanced Functional Materials, 2018, 28, 1706867. | 14.9 | 203 |
| 867 | Fabrication of highly transparent slippery surfaces with omniphobicity by an improved process using non-solvent-induced phase separation. Colloid and Polymer Science, 2018, 296, 319-326. | 2.1 | 8 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 868 | Climateâ€Dependent Heatâ€Triggered Opening Mechanism of <i>Banksia</i> Seed Pods. Advanced Science, 2018, 5, 1700572. | 11.2 | 29 |
| 869 | Behavior of an evaporating water droplet on lubricant-impregnated nano-structured surface. Experimental Thermal and Fluid Science, 2018, 96, 216-223. | 2.7 | 9 |
| 870 | Perfluoropolyether-Impregnated Mesoporous Alumina Composites Overcome the Dewetting–Tribological Properties Trade-Off. ACS Applied Materials & Dewetting†Interfaces, 2018, 10, 10560-10570. | 8.0 | 20 |
| 871 | Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643. | 10.3 | 71 |
| 872 | Visible-light induced anti-bacterial and self-cleaning waterborne polyacrylic coating modified with TiO2/polypyrrole nanocomposite; preparation and characterization. Journal of Molecular Structure, 2018, 1163, 174-184. | 3.6 | 19 |
| 873 | Chinese Knot Inspired Ag Nanowire Membrane for Robust Separation in Water Remediation. Advanced Materials Interfaces, 2018, 5, 1800183. | 3.7 | 14 |
| 874 | Comparative study of the dynamic hydrophobicity of fluoroalkylsilane coatings tilted at acute and obtuse angles. Journal of Coatings Technology Research, 2018, 15, 891-898. | 2.5 | 3 |
| 875 | Manta ray gill inspired radially distributed nanofibrous membrane for efficient and continuous oil–water separation. Environmental Science: Nano, 2018, 5, 1466-1472. | 4.3 | 32 |
| 876 | A stretchable and super-robust graphene superhydrophobic composite for electromechanical sensor application. Journal of Materials Chemistry A, 2018, 6, 10404-10410. | 10.3 | 74 |
| 877 | Superstretchable, Selfâ€Healing Polymeric Elastomers with Tunable Properties. Advanced Functional Materials, 2018, 28, 1800741. | 14.9 | 162 |
| 878 | In Situ Formation of Slippery-Liquid-Infused Nanofibrous Surface for a Transparent Antifouling Endoscope Lens. ACS Biomaterials Science and Engineering, 2018, 4, 1871-1879. | 5.2 | 19 |
| 879 | Facile Preparation of Polydimethylsiloxane Elastomer with Selfâ€Healing Property and Remoldability Based on Diels–Alder Chemistry. Macromolecular Materials and Engineering, 2018, 303, 1800089. | 3.6 | 36 |
| 880 | Fabrication of a Waterborne Durable Superhydrophobic Material Functioning in Air and under Oil. Advanced Materials Interfaces, 2018, 5, 1701523. | 3.7 | 20 |
| 881 | Detachment of Rough Colloids from Liquid–Liquid Interfaces. Langmuir, 2018, 34, 4861-4873. | 3.5 | 25 |
| 882 | Contact Line Instability Caused by Air Rim Formation under Nonsplashing Droplets. Langmuir, 2018, 34, 4962-4969. | 3.5 | 15 |
| 883 | Droplet Microarrays: From Surface Patterning to Highâ€Throughput Applications. Advanced Materials, 2018, 30, e1706111. | 21.0 | 170 |
| 884 | Selfâ∈Healing Biomaterials: From Molecular Concepts to Clinical Applications. Advanced Materials Interfaces, 2018, 5, 1800118. | 3.7 | 73 |
| 885 | An experimental study on soft PDMS materials for aircraft icing mitigation. Applied Surface Science, 2018, 447, 599-609. | 6.1 | 69 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 886 | Self-Assembly of Electrostatic Cocrystals from Supercharged Fusion Peptides and Protein Cages. ACS Macro Letters, 2018, 7, 318-323. | 4.8 | 47 |
| 887 | Anti-icing agent releasing diatomaceous earth/SBS composites. New Journal of Chemistry, 2018, 42, 8544-8552. | 2.8 | 5 |
| 888 | Metal-Embedded Porous Graphitic Carbon Fibers Fabricated from Bamboo Sticks as a Novel Cathode for Lithium–Sulfur Batteries. ACS Applied Materials & 1, 10, 13598-13605. | 8.0 | 57 |
| 889 | Antiadhesion Function between a Biological Surface and a Metallic Device Interface at High Temperature by Wettability Control. ACS Biomaterials Science and Engineering, 2018, 4, 1891-1899. | 5.2 | 4 |
| 890 | Suppressing Ice Nucleation of Supercooled Condensate with Biphilic Topography. Physical Review Letters, 2018, 120, 075902. | 7.8 | 84 |
| 891 | Liquid gating elastomeric porous system with dynamically controllable gas/liquid transport. Science Advances, 2018, 4, eaao6724. | 10.3 | 96 |
| 892 | Fabrication of micro-patterned aluminum surfaces for low ice adhesion strength. Applied Surface Science, 2018, 440, 643-650. | 6.1 | 24 |
| 893 | A novel UV/sunlight-curable anti-smudge coating system for various substrates. Chemical Engineering Journal, 2018, 345, 659-668. | 12.7 | 42 |
| 894 | Tunable Microscale Porous Systems with Dynamic Liquid Interfaces. Small, 2018, 14, e1703283. | 10.0 | 36 |
| 895 | Supercooled water droplet impact on superhydrophobic surfaces with various roughness and temperature. International Journal of Heat and Mass Transfer, 2018, 122, 395-402. | 4.8 | 92 |
| 896 | Outstanding telechelic perfluoropolyalkylethers and applications therefrom. Progress in Polymer Science, 2018, 81, 238-280. | 24.7 | 53 |
| 897 | Assessment of optical transmittance of oil impregnated and non-wetted surfaces in outdoor environment towards solar energy harvesting. Solar Energy, 2018, 163, 25-31. | 6.1 | 10 |
| 898 | Femtosecond Laser Direct Writing of Porous Network Microstructures for Fabricating Superâ€Slippery Surfaces with Excellent Liquid Repellence and Antiâ€Cell Proliferation. Advanced Materials Interfaces, 2018, 5, 1701479. | 3.7 | 86 |
| 899 | Intelligent environmental nanomaterials. Environmental Science: Nano, 2018, 5, 811-836. | 4.3 | 54 |
| 900 | Nanotextured Si surfaces derived from block-copolymer self-assembly with superhydrophobic, superhydrophilic, or superamphiphobic properties. RSC Advances, 2018, 8, 4204-4213. | 3.6 | 24 |
| 901 | Development of multifunctional liquid-infused materials by printing assisted functionalization on porous nanocomposites. Journal of Materials Chemistry A, 2018, 6, 4199-4208. | 10.3 | 47 |
| 902 | Temperature-Responsive Anisotropic Slippery Surface for Smart Control of the Droplet Motion. ACS Applied Materials & Droplet Motion. ACS Applied Materials & Droplet Motion. ACS | 8.0 | 89 |
| 903 | Unidirectional water delivery on a superhydrophilic surface with two-dimensional asymmetrical wettability barriers. Materials Horizons, 2018, 5, 303-308. | 12.2 | 84 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 904 | Ice Release Coatings of High Durability for Aerospace Applications. Advances in Polymer Science, 2018, , $167-183$. | 0.8 | 2 |
| 906 | Liquid–liquid displacement in slippery liquid-infused membranes (SLIMs). Soft Matter, 2018, 14, 1780-1788. | 2.7 | 37 |
| 907 | Bioinspired Superdurable Pestle‣oop Mechanical Interlocker with Tunable Peeling Force, Strong Shear Adhesion, and Low Noise. Advanced Science, 2018, 5, 1700787. | 11.2 | 17 |
| 908 | Surface Functionalization for a Nontextured Liquid-Infused Surface with Enhanced Lifetime. ACS Applied Materials & Diterfaces, 2018, 10, 5892-5901. | 8.0 | 51 |
| 909 | Bioinspired Pressure-Tolerant Asymmetric Slippery Surface for Continuous Self-Transport of Gas Bubbles in Aqueous Environment. ACS Nano, 2018, 12, 2048-2055. | 14.6 | 155 |
| 910 | lonic-Liquid-Infused Nanostructures as Repellent Surfaces. Langmuir, 2018, 34, 6894-6902. | 3.5 | 26 |
| 911 | Oscillating Chiralâ€Nematic Fingerprints Wipe Away Dust. Advanced Materials, 2018, 30, 1704970. | 21.0 | 80 |
| 912 | Heat Transfer Enhancement During Water and Hydrocarbon Condensation on Lubricant Infused Surfaces. Scientific Reports, 2018, 8, 540. | 3.3 | 111 |
| 913 | Universal, Surfactantâ€Free Preparation of Hydrogel Beads on Superamphiphobic and Slippery Surfaces. Advanced Materials Interfaces, 2018, 5, 1701536. | 3.7 | 12 |
| 914 | Effect of lubricant viscosity on the self-healing properties and electrically driven sliding of droplets on anisotropic slippery surfaces. Journal of Materials Chemistry A, 2018, 6, 3414-3421. | 10.3 | 98 |
| 915 | Spreading of a distilled water droplet over polished and laser-treated aluminum surfaces. European Journal of Mechanics, B/Fluids, 2018, 68, 118-127. | 2.5 | 28 |
| 916 | Transparent slippery liquid-infused nanoparticulate coatings. Chemical Engineering Journal, 2018, 337, 462-470. | 12.7 | 98 |
| 917 | Static and dynamic wetting of soft substrates. Current Opinion in Colloid and Interface Science, 2018, 36, 46-57. | 7.4 | 63 |
| 918 | A Lubricant-Sandwiched Coating with Long-Term Stable Anticorrosion Performance. Langmuir, 2018, 34, 1386-1393. | 3.5 | 60 |
| 919 | Bioinspired Interfacial Materials: From Binary Cooperative Complementary Interfaces to Superwettability Systems. Advanced Materials Interfaces, 2018, 5, 1701176. | 3.7 | 28 |
| 920 | Marine Antifouling Behavior of Lubricant-Infused Nanowrinkled Polymeric Surfaces. ACS Applied Materials & Samp; Interfaces, 2018, 10, 4173-4182. | 8.0 | 163 |
| 921 | Stimuliâ∈Responsive Bioinspired Materials for Controllable Liquid Manipulation: Principles, Fabrication, and Applications. Advanced Functional Materials, 2018, 28, 1705128. | 14.9 | 66 |
| 922 | Roll-to-Roll Manufacturing of Robust Superhydrophobic Coating on Metallic Engineering Materials. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2174-2184. | 8.0 | 43 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 923 | The common mechanism of turbulentÂskin-friction drag reduction with superhydrophobic longitudinal microgrooves and riblets. Journal of Fluid Mechanics, 2018, 838, 68-104. | 3.4 | 70 |
| 924 | A Fluorine-free Slippery Surface with Hot Water Repellency and Improved Stability against Boiling. ACS Applied Materials & Diterfaces, 2018, 10, 4198-4205. | 8.0 | 46 |
| 926 | Superhydrophobic/Superhydrophilic Janus Fabrics Reducing Blood Loss. Advanced Healthcare Materials, 2018, 7, e1701086. | 7.6 | 94 |
| 927 | Bioinspired Fabrication of Bi/Tridirectionally Anisotropic Sliding Superhydrophobic PDMS Surfaces by Femtosecond Laser. Advanced Materials Interfaces, 2018, 5, 1701245. | 3.7 | 48 |
| 928 | Biomimetic and Superwettable Nanofibrous Skins for Highly Efficient Separation of Oilâ€inâ€Water Emulsions. Advanced Functional Materials, 2018, 28, 1705051. | 14.9 | 536 |
| 929 | An Aqueous Composition for Lubricantâ€Free, Robust, Slippery, Transparent Coatings on Diverse Substrates. Global Challenges, 2018, 2, 1700097. | 3.6 | 5 |
| 930 | Bioinspired Nanostructured Surfaces for On-Demand Bubble Transportation. ACS Applied Materials & Samp; Interfaces, 2018, 10, 3029-3038. | 8.0 | 53 |
| 931 | Influence of Topography on Adhesion and Bioadhesion. Advances in Polymer Science, 2018, , 19-50. | 0.8 | 3 |
| 932 | Drop impact dynamics on slippery liquid-infused porous surfaces: influence of oil thickness. Soft Matter, 2018, 14, 1100-1107. | 2.7 | 57 |
| 933 | Superhydrophobicity of nanofibrillated cellulose materials through polysiloxane nanofilaments. Cellulose, 2018, 25, 1127-1146. | 4.9 | 18 |
| 934 | Thermally Labile Selfâ€Healable Branched Gel Networks Fabricated by New Macromolecular Engineering Approach Utilizing Thermoreversibility. Macromolecular Rapid Communications, 2018, 39, 1700575. | 3.9 | 13 |
| 935 | Global Ecology and Oceanography of Harmful Algal Blooms. Ecological Studies, 2018, , . | 1.2 | 31 |
| 936 | Wetting of ferrofluids: Phenomena and control. Current Opinion in Colloid and Interface Science, 2018, 36, 118-129. | 7.4 | 70 |
| 937 | Time-Dependent Liquid Transport on a Biomimetic Topological Surface. ACS Nano, 2018, 12, 5149-5157. | 14.6 | 52 |
| 938 | Key Questions and Recent Research Advances on Harmful Algal Blooms in Stratified Systems. Ecological Studies, 2018, , 165-186. | 1.2 | 8 |
| 939 | Hydrophilic directional slippery rough surfaces for water harvesting. Science Advances, 2018, 4, eaaq0919. | 10.3 | 386 |
| 940 | A review on wetting and water condensation - Perspectives for CO 2 Âcondensation. Advances in Colloid and Interface Science, 2018, 256, 291-304. | 14.7 | 13 |
| 941 | Preparation and High-temperature Anti-adhesion Behavior of a Slippery Surface on Stainless Steel. Journal of Visualized Experiments, 2018, , . | 0.3 | 3 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 942 | Evaporative Crystallization in Drops on Superhydrophobic and Liquid-Impregnated Surfaces. Langmuir, 2018, 34, 12350-12358. | 3.5 | 43 |
| 943 | A Biocompatible Slippery Surface Based on a Boehmite Nanostructure with Omniphobicity for Hot Liquids and Boiling Stability. ACS Applied Nano Materials, 2018, 1, 1758-1765. | 5.0 | 18 |
| 944 | All-organic superhydrophobic coatings with mechanochemical robustness and liquid impalement resistance. Nature Materials, 2018, 17, 355-360. | 27.5 | 563 |
| 945 | Facile one-step construction of covalently networked, self-healable, and transparent superhydrophobic composite films. Applied Surface Science, 2018, 445, 368-375. | 6.1 | 16 |
| 946 | Slippery liquid-infused porous surface for corrosion protection with self-healing property. Chemical Engineering Journal, 2018, 345, 147-155. | 12.7 | 112 |
| 947 | Surface microstructure engenders unusual hydrophobicity in phyllosilicates. Chemical Communications, 2018, 54, 5418-5421. | 4.1 | 17 |
| 948 | Slippery Liquid-Infused Porous Surfaces (SLIPS) Using Layer-by-Layer Polyelectrolyte Assembly in Organic Solvent. Langmuir, 2018, 34, 4722-4731. | 3.5 | 41 |
| 949 | Highly-transparent slippery liquid-infused porous surfaces made with silica nanoparticulate thin films. Thin Solid Films, 2018, 653, 67-72. | 1.8 | 11 |
| 950 | Recent Progress in Super Hydrophobic/Hydrophilic Self-Cleaning Surfaces for Various Industrial Applications: A Review. Polymer-Plastics Technology and Engineering, 2018, 57, 1932-1952. | 1.9 | 136 |
| 951 | Directional Transport of a Liquid Drop between Parallel–Nonparallel Combinative Plates. Langmuir, 2018, 34, 4484-4493. | 3.5 | 6 |
| 952 | Enhancing the Mechanical Durability of Icephobic Surfaces by Introducing Autonomous Self-Healing Function. ACS Applied Materials & Samp; Interfaces, 2018, 10, 11972-11978. | 8.0 | 99 |
| 953 | Non-eluting, surface-bound enzymes disrupt surface attachment of bacteria by continuous biofilm polysaccharide degradation. Biomaterials, 2018, 167, 168-176. | 11.4 | 41 |
| 954 | Smooth, All-Solid, Low-Hysteresis, Omniphobic Surfaces with Enhanced Mechanical Durability. ACS Applied Materials & Durability. ACS Applie | 8.0 | 85 |
| 955 | Interfacial Materials for Antiâ€icing: Beyond Superhydrophobic Surfaces. Chemistry - an Asian Journal, 2018, 13, 1406-1414. | 3.3 | 25 |
| 956 | lonic liquids-infused slippery surfaces for condensation and hot water repellency. Chemical Engineering Journal, 2018, 343, 561-571. | 12.7 | 49 |
| 957 | Polyols-Infused Slippery Surfaces Based on Magnetic Fe ₃ O ₄ -Functionalized Polymer Hybrids for Enhanced Multifunctional Anti-Icing and Deicing Properties. Langmuir, 2018, 34, 4052-4058. | 3.5 | 81 |
| 958 | Patterned superhydrophobic surfaces to process and characterize biomaterials and 3D cell culture. Materials Horizons, 2018, 5, 379-393. | 12.2 | 51 |
| 959 | Mechanical stability, corrosion resistance of superhydrophobic steel and repairable durability of its slippery surface. Journal of Colloid and Interface Science, 2018, 512, 239-248. | 9.4 | 91 |

| # | Article | IF | CITATIONS |
|-----|---|-----------|--------------|
| 960 | Plasma treatment of silicone oil- infused surfaces switches impact of water droplets from bouncing to tanner-like spreading. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 133-139. | 4.7 | 11 |
| 961 | Lowâ€Cost and Scaledâ€Up Production of Fluorineâ€Free, Substrateâ€Independent, Largeâ€Area Superhydrophobic Coatings Based on Hydroxyapatite Nanowire Bundles. Chemistry - A European Journal, 2018, 24, 416-424. | 3.3 | 18 |
| 962 | Sliding of water–glycerol mixture droplets on hydrophobic solid–liquid bulk composites using Ti plates with a fibrous TiO2 layer. Journal of Materials Science, 2018, 53, 1157-1166. | 3.7 | 3 |
| 963 | The effect of environmental factors and dust accumulation on photovoltaic modules and dust-accumulation mitigation strategies. Renewable and Sustainable Energy Reviews, 2018, 82, 743-760. | 16.4 | 192 |
| 964 | Enhanced electroosmotic flow in a nano-channel patterned with curved hydrophobic strips. Applied Mathematical Modelling, 2018, 54, 567-579. | 4.2 | 9 |
| 965 | Self-assembly and omniphobic property of fluorinated unit end-functionalized poly(methyl) Tj ETQq1 1 0.784314 | rgBT /Ove | erlock 10 Tf |
| 966 | Bioinspired surface functionalization of metallic biomaterials. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 90-105. | 3.1 | 146 |
| 967 | Mechanically robust antireflective coatings. Nano Research, 2018, 11, 1699-1713. | 10.4 | 22 |
| 968 | Introduction of Nature's Complexity in Engineered Bloodâ€compatible Biomaterials. Advanced Healthcare Materials, 2018, 7, 1700505. | 7.6 | 37 |
| 969 | Improvement of antiâ€icing properties of low surface energy coatings by introducing phaseâ€change microcapsules. Polymer Engineering and Science, 2018, 58, 973-979. | 3.1 | 43 |
| 970 | Facile preparation of mechanically durable, self-healing and multifunctional superhydrophobic surfaces on solid wood. Materials and Design, 2018, 140, 30-36. | 7.0 | 123 |
| 971 | The bio-touch: Increasing coating functionalities via biomass-derived components. Surface and Coatings Technology, 2018, 341, 2-14. | 4.8 | 6 |
| 972 | Icephobic Behavior of UV-Cured Polymer Networks Incorporated into Slippery Lubricant-Infused Porous Surfaces: Improving SLIPS Durability. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2890-2896. | 8.0 | 97 |
| 973 | Fabricating smooth PDMS microfluidic channels from low-resolution 3D printed molds using an omniphobic lubricant-infused coating. Analytica Chimica Acta, 2018, 1000, 248-255. | 5.4 | 88 |
| 974 | Superhydrophobic and slippery liquid-infused porous surfaces formed by the self-assembly of a hybrid ABC triblock copolymer and their antifouling performance. Journal of Materials Chemistry B, 2018, 6, 440-448. | 5.8 | 49 |
| 975 | Combination of silicon microstructures and porous cellulose nanofiber structures to improve liquid-infused-type self-cleaning function. Precision Engineering, 2018, 51, 638-646. | 3.4 | 6 |
| 976 | Nepenthes: State of the art of an inspiring plant for biotechnologists. Journal of Biotechnology, 2018, 265, 109-115. | 3.8 | 36 |
| 977 | Transparent icephobic coatings using bio-based epoxy resin. Materials and Design, 2018, 140, 516-523. | 7.0 | 49 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 978 | Designing a transparent organogel layer with self-repairing property for the inhibition of marine biofouling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 140-147. | 4.7 | 21 |
| 979 | Dynamically Gasâ€Phase Switchable Super(de)wetting States by Reversible Amphiphilic Functionalization: A Powerful Approach for Smart Fluid Gating Membranes. Advanced Functional Materials, 2018, 28, 1704423. | 14.9 | 12 |
| 980 | MRI-powered biomedical devices. Minimally Invasive Therapy and Allied Technologies, 2018, 27, 191-202. | 1.2 | 9 |
| 981 | Research of anti-frosting technology in refrigeration and air conditioning fields: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 707-722. | 16.4 | 88 |
| 982 | Bio-Inspired Fluorine-Free Self-Cleaning Polymer Coatings. Coatings, 2018, 8, 436. | 2.6 | 7 |
| 983 | Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. Advanced Functional Materials, 2018, 28, 1707415. | 14.9 | 206 |
| 984 | Contributions of lunate cells and wax crystals to the surface anisotropy of <i>Nepenthes </i> Slippery zone. Royal Society Open Science, 2018, 5, 180766. | 2.4 | 8 |
| 985 | Biomimetic self-slippery and transferable transparent lubricant-infused functional surfaces. Nanoscale, 2018, 10, 19879-19889. | 5.6 | 38 |
| 986 | Dropwise condensation on bioinspired hydrophilic-slippery surface. RSC Advances, 2018, 8, 39341-39351. | 3.6 | 33 |
| 987 | Greener transformation of lignin into ultralight multifunctional materials. Journal of Materials Chemistry A, 2018, 6, 20973-20981. | 10.3 | 22 |
| 988 | Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. Journal of Materials Chemistry B, 2018, 6, 6930-6935. | 5.8 | 40 |
| 989 | A general strategy for printing colloidal nanomaterials into one-dimensional micro/nanolines. Nanoscale, 2018, 10, 22374-22380. | 5.6 | 20 |
| 990 | Aloe vera mucilage derived highly tolerant underwater superoleophobic coatings. Journal of Materials Chemistry A, 2018, 6, 22465-22471. | 10.3 | 14 |
| 991 | A facile approach to achieve bioinspired PDMS@Fe ₃ O ₄ fabric with switchable wettability for liquid transport and water collection. Journal of Materials Chemistry A, 2018, 6, 22741-22748. | 10.3 | 53 |
| 992 | 5. Applications. , 2018, , 273-332. | | 0 |
| 994 | Icephobic Strategies and Materials with Superwettability: Design Principles and Mechanism. Langmuir, 2018, 34, 15425-15444. | 3.5 | 108 |
| 995 | Novel Surfaces in Extracorporeal Membrane Oxygenation Circuits. Frontiers in Medicine, 2018, 5, 321. | 2.6 | 82 |
| 996 | Differential growth and shape formation in plant organs. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12359-12364. | 7.1 | 68 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 997 | Anti-(bio)Fouling. Biologically-inspired Systems, 2018, , 239-257. | 0.2 | 1 |
| 998 | One-Step Synthesis of Statically Amphiphilic/Dynamically Amphiphobic Fluoride-Free Transparent Coatings. ACS Applied Materials & Samp; Interfaces, 2018, 10, 41824-41830. | 8.0 | 35 |
| 999 | Self-Lubricanting Slippery Surface with Wettability Gradients for Anti-Sticking of Electrosurgical Scalpel. Micromachines, 2018, 9, 591. | 2.9 | 11 |
| 1000 | Engineered Slippery Surface to Mitigate Gypsum Scaling in Membrane Distillation for Treatment of Hypersaline Industrial Wastewaters. Environmental Science & Environmental Science & 2018, 52, 14362-14370. | 10.0 | 148 |
| 1001 | Adaptable Fabrication Techniques for Mechanically Durable Superliquiphobic/philic Surfaces. Springer Series in Materials Science, 2018, , 327-427. | 0.6 | 0 |
| 1003 | Experimental study on slippery droplet dynamics using optical correction method. Journal of Mechanical Science and Technology, 2018, 32, 4731-4736. | 1.5 | 1 |
| 1004 | A Magnetic Gated Nanofluidic Based on the Integration of a Superhydrophilic Nanochannels and a Reconfigurable Ferrofluid. Advanced Materials, 2019, 31, e1805953. | 21.0 | 34 |
| 1005 | Thermal Stability of Typical Superhydrophobic Surfaces. Journal of Bionic Engineering, 2018, 15, 1025-1034. | 5.0 | 19 |
| 1006 | Cleaning of Fluid-Infused Surfaces in Microchannels. Langmuir, 2018, 34, 12532-12537. | 3.5 | 3 |
| 1007 | Liquid-Infused Surfaces on Electrosurgical Instruments with Exceptional Antiadhesion and Low-Damage Performances. ACS Applied Materials & Interfaces, 2018, 10, 33713-33720. | 8.0 | 30 |
| 1008 | Liquid-Vapor Phase-Change Heat Transfer on Functionalized Nanowired Surfaces and Beyond. Joule, 2018, 2, 2307-2347. | 24.0 | 164 |
| 1009 | Bioinspired superhydrophobic and oil-infused surface: Which is the better choice to prevent marine biofouling?. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 297-304. | 4.7 | 42 |
| 1010 | Tunable Multimodal Drop Bouncing Dynamics and Anti-Icing Performance of a Magnetically Responsive Hair Array. ACS Nano, 2018, 12, 10693-10702. | 14.6 | 86 |
| 1011 | Specially Wettable Membranes for Oil–Water Separation. Advanced Materials Interfaces, 2018, 5, 1800576. | 3.7 | 212 |
| 1012 | "Openâ€Mouth―Mesoporous Hollow Micro/Nano Coatings Based on POSS/PDMS: Fabrication, Mechanisms, and Antiâ€Icing Performance. Particle and Particle Systems Characterization, 2018, 35, 1800323. | 2.3 | 12 |
| 1013 | Enhanced voltage generation through electrolyte flow on liquid-filled surfaces. Nature Communications, 2018, 9, 4050. | 12.8 | 49 |
| 1014 | Ultrafast water harvesting and transport in hierarchical microchannels. Nature Materials, 2018, 17, 935-942. | 27.5 | 320 |
| 1015 | Rolling and slipping of droplets on superhydrophobic surfaces. Physical Review E, 2018, 98, . | 2.1 | 8 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1016 | Formation of Icephobic Surface with Micron-Scaled Hydrophobic Heterogeneity on Polyurethane Aerospace Coating. ACS Applied Materials & Samp; Interfaces, 2018, 10, 37517-37528. | 8.0 | 22 |
| 1017 | Toward Condensation-Resistant Omniphobic Surfaces. ACS Nano, 2018, 12, 11013-11021. | 14.6 | 62 |
| 1018 | Static and dynamic evaluations of the wettability of commercial vinyl polysiloxane impression materials for artificial saliva. Dental Materials Journal, 2018, 37, 818-824. | 1.8 | 3 |
| 1019 | Controlling Droplet Motion on an Organogel Surface by Tuning the Chain Length of DNA and Its Biosensing Application. CheM, 2018, 4, 2929-2943. | 11.7 | 42 |
| 1020 | A swarm of slippery micropropellers penetrates the vitreous body of the eye. Science Advances, 2018, 4, eaat4388. | 10.3 | 402 |
| 1021 | Droplets on Slippery Lubricant-Infused Porous Surfaces: A Macroscale to Nanoscale Perspective. Langmuir, 2018, 34, 14439-14447. | 3.5 | 30 |
| 1022 | Lubricant-Infused Surfaces with Built-In Functional Biomolecules Exhibit Simultaneous Repellency and Tunable Cell Adhesion. ACS Nano, 2018, 12, 10890-10902. | 14.6 | 83 |
| 1023 | Tunable Water Harvesting Surfaces Consisting of Biphilic Nanoscale Topography. ACS Nano, 2018, 12, 11022-11030. | 14.6 | 111 |
| 1024 | Coatings super-repellent to ultralow surface tension liquids. Nature Materials, 2018, 17, 1040-1047. | 27.5 | 289 |
| 1025 | Capillary-Enhanced Filmwise Condensation in Porous Media. Langmuir, 2018, 34, 13855-13863. | 3.5 | 21 |
| 1026 | Cascade Freezing of Supercooled Water Droplet Collectives. ACS Nano, 2018, 12, 11274-11281. | 14.6 | 26 |
| 1027 | Electrodeposited metal-organic framework films as self-assembled hierarchically superstructured supports for stable omniphobic surface coatings. Scientific Reports, 2018, 8, 15400. | 3.3 | 12 |
| 1028 | Drop Cargo Transfer <i>via</i> Unidirectional Lubricant Spreading on Peristome-Mimetic Surface. ACS Nano, 2018, 12, 11307-11315. | 14.6 | 33 |
| 1029 | Sustaining enhanced condensation on hierarchical mesh-covered surfaces. National Science Review, 2018, 5, 878-887. | 9.5 | 51 |
| 1030 | Micro-patterned anti-icing coatings with dual hydrophobic/hydrophilic properties. Journal of Materials Chemistry A, 2018, 6, 19353-19357. | 10.3 | 30 |
| 1031 | Mapping Depletion of Lubricant Films on Antibiofouling Wrinkled Slippery Surfaces. ACS Applied Materials & Samp; Interfaces, 2018, 10, 33669-33677. | 8.0 | 69 |
| 1032 | Film Dynamics and Lubricant Depletion by Droplets Moving on Lubricated Surfaces. Physical Review X, 2018, 8, . | 8.9 | 71 |
| 1033 | Controlling the Wetting State With Bio-Mimetic Hierarchical Conical Microstructures. , 2018, , . | | 0 |

| # | ARTICLE | IF | Citations |
|------|---|------|-----------|
| 1034 | Threeâ€Dimensionally Programmed Slippery Wrinkles with High Stretchability for Tunable Functionality of Icephobicity and Effective Water Harvesting. Advanced Materials Interfaces, 2018, 5, 1800980. | 3.7 | 18 |
| 1035 | The Chromogen, Structure, Inspirations, and Applications of a Photo-, pH-, thermal-, Solvent-, and Mechanical-Response Epoxy Resin. Industrial & Engineering Chemistry Research, 2018, 57, 13283-13290. | 3.7 | 19 |
| 1036 | Collective Shape Actuation of Polymer Double Emulsions by Solvent Evaporation. ACS Applied Materials & Solvent Evaporation. ACS Applied Materials & Solvent Evaporation. ACS Applied Materials & Solvent Evaporation. | 8.0 | 8 |
| 1037 | Superwettability with antithetic states: fluid repellency in immiscible liquids. Materials Horizons, 2018, 5, 1156-1165. | 12.2 | 25 |
| 1038 | Biological and chemical sensing applications based on special wettable surfaces. TrAC - Trends in Analytical Chemistry, 2018, 108, 183-194. | 11.4 | 30 |
| 1039 | Omniphobic Metal Surfaces with Low Contact Angle Hysteresis and Tilt Angles. Langmuir, 2018, 34, 11405-11413. | 3.5 | 34 |
| 1040 | Programmable wettability on photocontrolled graphene film. Science Advances, 2018, 4, eaat7392. | 10.3 | 245 |
| 1041 | Two-component marangoni-contracted droplets: friction and shape. Soft Matter, 2018, 14, 7724-7730. | 2.7 | 14 |
| 1042 | One-Step Fabrication of Bioinspired Lubricant-Regenerable Icephobic Slippery Liquid-Infused Porous Surfaces. ACS Omega, 2018, 3, 10139-10144. | 3.5 | 68 |
| 1043 | Bio-inspired fabrication of asymmetric wettability Janus porous membrane for secure F-oil infused F-free-membrane filtration. Journal of Membrane Science, 2018, 566, 161-167. | 8.2 | 16 |
| 1044 | Enhanced slip properties of lubricant-infused grooves. Physical Review E, 2018, 98, . | 2.1 | 30 |
| 1045 | Designing Liquidâ€Infused Surfaces for Medical Applications: A Review. Advanced Materials, 2018, 30, e1802724. | 21.0 | 232 |
| 1046 | Superoleophobic Slippery Lubricantâ€Infused Surfaces: Combining Two Extremes in the Same Surface. Advanced Materials, 2018, 30, e1803890. | 21.0 | 106 |
| 1047 | 6. Superhydrophobicity, superhydrophilicity, and the rose petal effect., 2018, , 113-124. | | 0 |
| 1048 | Mild and Effective Polymerization of Dopamine on Keratin Films for Innovative Photoactivable and Biocompatible Coated Materials. Macromolecular Materials and Engineering, 2018, 303, 1700653. | 3.6 | 10 |
| 1049 | Engineering Highâ€Performance MoO ₂ â€Based Nanomaterials with Supercapacity and Superhydrophobicity by Tuning the Raw Materials Source. Small, 2018, 14, e1800480. | 10.0 | 32 |
| 1050 | Dynamic field testing of coating chemistry candidates by a rotating disk system. Biofouling, 2018, 34, 398-409. | 2.2 | 15 |
| 1051 | Photoelectric Synergetic Responsive Slippery Surfaces Based on Tailored Anisotropic Films Generated by Interfacial Directional Freezing. Advanced Functional Materials, 2018, 28, 1801310. | 14.9 | 52 |

| # | Article | IF | Citations |
|------|---|-------------|-----------|
| 1052 | Bioinspired Superwettability Electrospun Micro/Nanofibers and Their Applications. Advanced Functional Materials, 2018, 28, 1801114. | 14.9 | 204 |
| 1053 | Hydrophobicity Control in Adaptive Crystalline Assemblies. Angewandte Chemie - International Edition, 2018, 57, 8871-8874. | 13.8 | 14 |
| 1054 | How to Engineer Surfaces to Control and Optimize Boiling, Condensation and Frost Formation?. , 2018, , 63-158. | | 1 |
| 1055 | Selfâ€Healing Functional Surfaces. Advanced Materials Interfaces, 2018, 5, 1800293. | 3.7 | 23 |
| 1056 | Single-nanoparticle tracking reveals mechanisms of membrane fouling. Journal of Membrane Science, 2018, 563, 888-895. | 8.2 | 13 |
| 1057 | Dynamics of Ferrofluid Drops on Magnetically Patterned Surfaces. Langmuir, 2018, 34, 8917-8922. | 3. 5 | 34 |
| 1058 | Robust, self-cleaning, amphiphobic coating with flower-like nanostructure on micro-patterned polymer substrate. Chemical Engineering Journal, 2018, 352, 173-181. | 12.7 | 56 |
| 1059 | Investigating the efficiency of a bio-inspired insect repellent surface structure. Bioinspiration and Biomimetics, 2018, 13, 056010. | 2.9 | 8 |
| 1060 | Influence of long-range forces and capillarity on the function of underwater superoleophobic wrinkled surfaces. Soft Matter, 2018, 14, 6627-6634. | 2.7 | 12 |
| 1061 | Enhancing the Performance of Viscous Electrode-Based Flow Batteries Using Lubricant-Impregnated Surfaces. ACS Applied Energy Materials, 2018, 1, 3614-3621. | 5.1 | 8 |
| 1062 | Development and evaluation of poly(dimethylsiloxane) based composite coatings for icephobic applications. Surface and Coatings Technology, 2018, 349, 980-985. | 4.8 | 40 |
| 1063 | Industrial Applications of Self-assembly at Interfaces. Interface Science and Technology, 2018, 21, 427-434. | 3.3 | 1 |
| 1064 | 2.25 Hydrophobic Materials., 2018,, 796-831. | | 0 |
| 1065 | Robust wear and pH endurance achieved on snake-shaped silica hybrid nanowire self-woven superamphiphobic membranes with layer-stacked porous 3D networks. Journal of Materials Chemistry A, 2018, 6, 14262-14271. | 10.3 | 11 |
| 1066 | Metasurfaces Leveraging Solar Energy for Icephobicity. ACS Nano, 2018, 12, 7009-7017. | 14.6 | 93 |
| 1067 | Highly flexible, stretchable, and durable liquid-repellent electrode based on self-sustainable lubrication., 2018,,. | | O |
| 1068 | The contact mechanics challenge: tribology meets soft matter. Soft Matter, 2018, 14, 5706-5709. | 2.7 | 6 |
| 1069 | Fabrication of robust and scalable superhydrophobic surfaces and investigation of their anti-icing properties. Materials and Design, 2018, 156, 320-328. | 7.0 | 74 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 1070 | Liquids Unidirectional Transport on Dual-Scale Arrays. ACS Nano, 2018, 12, 9214-9222. | 14.6 | 59 |
| 1071 | Lubricant-infused coating by double-layer ZnO on aluminium and its anti-corrosion performance. Journal of Alloys and Compounds, 2018, 764, 730-737. | 5.5 | 30 |
| 1072 | Slippery liquid-infused surface from three-dimensional interconnecting net structure via breath figure approach and its usage for biofouling inhibition. Progress in Organic Coatings, 2018, 123, 47-52. | 3.9 | 15 |
| 1073 | Bioinspired Slippery Zinc Phosphate Coating for Sustainable Corrosion Protection. ACS Sustainable Chemistry and Engineering, 2018, 6, 10960-10968. | 6.7 | 85 |
| 1074 | Hydrophobic Properties of Thin Films of Comb-Shaped Perfluorohexylethyl Methacrylate-Polydimethylsiloxane Copolymers Deposited from Supercritical Carbon Dioxide Solutions. Polymer Science - Series A, 2018, 60, 451-458. | 1.0 | 5 |
| 1075 | Fracture of Ice at Interfaces from Molecular Dynamics Simulations. , 2018, , . | | О |
| 1076 | Effect of Varying Chain Length and Content of Poly(dimethylsiloxane) on Dynamic Dewetting Performance of NP-GLIDE Polyurethane Coatings. Langmuir, 2018, 34, 10102-10113. | 3.5 | 51 |
| 1077 | A study on the wetting properties of broccoli leaf surfaces and their time dependent self-healing after mechanical damage. Soft Matter, 2018, 14, 7782-7792. | 2.7 | 17 |
| 1078 | A stable solid slippery surface with thermally assisted self-healing ability. Journal of Materials Chemistry A, 2018, 6, 16355-16360. | 10.3 | 49 |
| 1079 | Dynamically Actuated Liquidâ€Infused Poroelastic Film with Precise Control over Droplet Dynamics. Advanced Functional Materials, 2018, 28, 1802632. | 14.9 | 46 |
| 1080 | Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. Angewandte Chemie, 2018, 130, 12079-12084. | 2.0 | 16 |
| 1081 | Mechanically Robust Transparent Antiâ€lcing Coatings: Roles of Dispersion Status of Titanate Nanotubes. Advanced Materials Interfaces, 2018, 5, 1800773. | 3.7 | 16 |
| 1082 | A mechanically robust transparent coating for anti-icing and self-cleaning applications. Journal of Materials Chemistry A, 2018, 6, 16043-16052. | 10.3 | 99 |
| 1083 | Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. Angewandte Chemie - International Edition, 2018, 57, 11903-11908. | 13.8 | 62 |
| 1084 | Division of Ferrofluid Drops Induced by a Magnetic Field. Langmuir, 2018, 34, 9762-9767. | 3.5 | 31 |
| 1085 | Oil-Impregnated Hydrocarbon-Based Polymer Films. Scientific Reports, 2018, 8, 11698. | 3.3 | 23 |
| 1086 | Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. Coatings, 2018, 8, 47. | 2.6 | 21 |
| 1087 | Superhydrophobic, Superoleophobic and Antimicrobial Coatings for the Protection of Silk Textiles. Coatings, 2018, 8, 101. | 2.6 | 40 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1088 | An Experimental Study on the Durability of Icephobic Slippery Liquid-Infused Porous Surfaces (SLIPS) Pertinent to Aircraft Anti-/De-Icing. , 2018 , , . | | 2 |
| 1089 | Frosting and defrosting behavior of slippery surfaces and utilization of mechanical vibration to enhance defrosting performance. International Journal of Heat and Mass Transfer, 2018, 125, 858-865. | 4.8 | 27 |
| 1090 | Ureolytic/Non-Ureolytic Bacteria Co-Cultured Self-Healing Agent for Cementitious Materials Crack Repair. Materials, 2018, 11, 782. | 2.9 | 40 |
| 1091 | Superhydrophobic Natural and Artificial Surfacesâ€"A Structural Approach. Materials, 2018, 11, 866. | 2.9 | 60 |
| 1092 | Emerging Anti-Fouling Methods: Towards Reusability of 3D-Printed Devices for Biomedical Applications. Micromachines, 2018, 9, 196. | 2.9 | 16 |
| 1093 | Superhydrophobicity., 2018,, 267-297. | | 1 |
| 1094 | Breakdown in the directional transport of droplets on the peristome of pitcher plants. Communications Physics, 2018, 1 , . | 5.3 | 36 |
| 1095 | Conductive Electrochemically Active Lubricantâ€Infused Nanostructured Surfaces Attenuate Coagulation and Enable Frictionâ€Less Droplet Manipulation. Advanced Materials Interfaces, 2018, 5, 1800617. | 3.7 | 38 |
| 1096 | Anti-biofouling droplet manipulation by slippery liquid infused porous surface (SLIPS) integrated with electrowetting and liquid-dielectrophoresis. , 2018, , . | | 5 |
| 1097 | Droplets Manipulated on Photothermal Organogel Surfaces. Advanced Functional Materials, 2018, 28, 1803072. | 14.9 | 121 |
| 1098 | Anti-icing Properties on Surfaces through a Functional Composite: Effect of Ionic Salts. ACS Omega, 2018, 3, 7934-7943. | 3.5 | 11 |
| 1099 | Functional Polymeric Materials Inspired by Geckos, Mussels, and Spider Silk. Macromolecular Chemistry and Physics, 2018, 219, 1800051. | 2.2 | 5 |
| 1100 | Parallelized microfluidic diatom accumulation assay to test fouling-release coatings. Biointerphases, 2018, 13, 041007. | 1.6 | 22 |
| 1101 | Exclusive Liquid Repellency: An Open Multi-Liquid-Phase Technology for Rare Cell Culture and Single-Cell Processing. ACS Applied Materials & Single-Cell Processing & Single-Cell Processing & Single-Cell Processing & Single | 8.0 | 28 |
| 1102 | Design and preparation of sandwich-like polydimethylsiloxane (PDMS) sponges with super-low ice adhesion. Soft Matter, 2018, 14, 4846-4851. | 2.7 | 86 |
| 1103 | Tunability of liquid-infused silicone materials for biointerfaces. Biointerphases, 2018, 13, 06D401. | 1.6 | 42 |
| 1104 | Durable, flexible, superhydrophobic and blood-repelling surfaces for use in medical blood pumps. Journal of Materials Chemistry B, 2018, 6, 6225-6233. | 5.8 | 37 |
| 1105 | Roll-to-Roll Surface Modification of Cellulose Paper via Initiated Chemical Vapor Deposition. Industrial & Deposition Chemistry Research, 2018, 57, 11675-11680. | 3.7 | 31 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1106 | Fabrication of UV-Triggered Liquid-Repellent Coatings with Long-Term Self-Repairing Performance. ACS Applied Materials & Samp; Interfaces, 2018, 10, 31777-31783. | 8.0 | 37 |
| 1107 | Free-standing liquid membranes as unusual particle separators. Science Advances, 2018, 4, eaat3276. | 10.3 | 29 |
| 1108 | Oil Recovery from Micropatterned Triangular Troughs during a Surfactant Flood. Langmuir, 2018, 34, 10644-10649. | 3.5 | 10 |
| 1109 | Design of intelligent surfaces for energy intensive processing industry. MATEC Web of Conferences, 2018, 185, 00001. | 0.2 | 3 |
| 1110 | Interfacial instability of liquid films coating the walls of a parallel-plate channel and sheared by a gas flow. Microfluidics and Nanofluidics, 2018, 22, 1. | 2.2 | 2 |
| 1111 | A facile method to prepare mechanically durable super slippery polytetrafluoroethylene coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 99-105. | 4.7 | 28 |
| 1112 | Icephobicity of Slippery Liquid Infused Porous Surfaces under Multiple Freeze–Thaw and Ice Accretion–Detachment Cycles. Advanced Materials Interfaces, 2018, 5, 1800828. | 3.7 | 57 |
| 1113 | Self-Healing Label Materials Based on Photo-Cross-Linkable Polymeric Films with Dynamic Surface Structures. ACS Nano, 2018, 12, 8686-8696. | 14.6 | 33 |
| 1114 | Multi-functional application of oil-infused slippery Al surface: from anti-icing to corrosion resistance. Journal of Materials Science, 2018, 53, 16099-16109. | 3.7 | 42 |
| 1115 | Formation of Liquid–Liquid Micropatterns through Guided Liquid Displacement on Liquidâ€Infused Surfaces. Advanced Materials Interfaces, 2018, 5, 1800852. | 3.7 | 24 |
| 1116 | Emerging Applications of Bioinspired Slippery Surfaces in Biomedical Fields. Chemistry - A European Journal, 2018, 24, 14864-14877. | 3.3 | 63 |
| 1117 | Oneâ€Step Solventâ€Free Strategy for Covalently Attached, Substrateâ€Independent Transparent Slippery Coating. Advanced Materials Interfaces, 2018, 5, 1800646. | 3.7 | 26 |
| 1118 | Loss-Free Photo-Manipulation of Droplets by Pyroelectro-Trapping on Superhydrophobic Surfaces. ACS Nano, 2018, 12, 8994-9004. | 14.6 | 60 |
| 1119 | Biomimetic Liquid-Repellent Surfaces by Ultrafast Laser Processing. Applied Sciences (Switzerland), 2018, 8, 1424. | 2.5 | 20 |
| 1120 | Earthwormâ€Inspired Rough Polymer Coatings with Selfâ€Replenishing Lubrication for Adaptive Frictionâ€Reduction and Antifouling Surfaces. Advanced Materials, 2018, 30, e1802141. | 21.0 | 133 |
| 1121 | Biodiversifying bioinspiration. Bioinspiration and Biomimetics, 2018, 13, 053001. | 2.9 | 27 |
| 1122 | Anti-icing performance of super-wetting surfaces from icing-resistance to ice-phobic aspects: Robust hydrophobic or slippery surfaces. Journal of Alloys and Compounds, 2018, 765, 721-730. | 5.5 | 100 |
| 1123 | Hydrophobicity Control in Adaptive Crystalline Assemblies. Angewandte Chemie, 2018, 130, 9009-9012. | 2.0 | 0 |

| # | Article | IF | CITATIONS |
|------|--|--------------|-----------|
| 1124 | Review of ice-pavement adhesion study and development of hydrophobic surface in pavement deicing. Journal of Traffic and Transportation Engineering (English Edition), 2018, 5, 224-238. | 4.2 | 30 |
| 1125 | Ternary Free-Energy Entropic Lattice Boltzmann Model with a High Density Ratio. Physical Review Letters, 2018, 120, 234501. | 7.8 | 60 |
| 1126 | Food-Safe Modification of Stainless Steel Food-Processing Surfaces to Reduce Bacterial Biofilms. ACS Applied Materials & Samp; Interfaces, 2018, 10, 22902-22912. | 8.0 | 67 |
| 1127 | Drop Dynamics on Liquid-Infused Surfaces: The Role of the Lubricant Ridge. Langmuir, 2018, 34, 8112-8118. | 3 . 5 | 48 |
| 1128 | Fundamentals of icing and common strategies for designing biomimetic anti-icing surfaces. Journal of Materials Chemistry A, 2018, 6, 13549-13581. | 10.3 | 194 |
| 1129 | Coupling Effect of Morphology and Mechanical Properties Contributes to the Tribological Behaviors of Snake Scales. Journal of Bionic Engineering, 2018, 15, 481-493. | 5.0 | 10 |
| 1130 | Water-based anti-smudge NP-GLIDE polyurethane coatings. Chemical Engineering Journal, 2018, 351, 210-220. | 12.7 | 76 |
| 1131 | Origins of Extreme Liquid Repellency on Structured, Flat, and Lubricated Hydrophobic Surfaces. Physical Review Letters, 2018, 120, 244503. | 7.8 | 103 |
| 1132 | Assessing omniphobicity by immersion. Journal of Colloid and Interface Science, 2019, 534, 156-162. | 9.4 | 38 |
| 1133 | Motion of Newtonian drops deposited on liquid-impregnated surfaces induced by vertical vibrations. Journal of Fluid Mechanics, 2019, 876, . | 3.4 | 21 |
| 1134 | Drop/bubble transportation and controllable manipulation on patterned slippery lubricant infused surfaces with tunable wettability. Soft Matter, 2019, 15, 6803-6810. | 2.7 | 33 |
| 1135 | Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. Chemical Communications, 2019, 55, 10820-10843. | 4.1 | 36 |
| 1136 | Natural and Artificial Superwettable Surfaces-Superficial Phenomena: An Extreme Wettability Scenario. , 2019, , . | | 0 |
| 1137 | Durable and Flexible Superhydrophobic Materials: Abrasion/Scratching/Slicing/Droplet Impacting/Bending/Twisting-Tolerant Composite with Porcupinefish-Like Structure. ACS Applied Materials & Samp; Interfaces, 2019, 11, 32381-32389. | 8.0 | 97 |
| 1138 | Durable Lubricant-Impregnated Surfaces for Water Collection under Extremely Severe Working Conditions. ACS Applied Materials & Samp; Interfaces, 2019, 11, 35949-35958. | 8.0 | 49 |
| 1139 | A Novel Icephobic Strategy: The Fabrication of Biomimetic Coupling Micropatterns of Superwetting Surface. Advanced Materials Interfaces, 2019, 6, 1900864. | 3.7 | 11 |
| 1140 | Nisin infusion into surface cracks in oxide coatings to create an antibacterial metallic surface. Materials Science and Engineering C, 2019, 105, 110034. | 7.3 | 5 |
| 1141 | Liquid-Infused Surfaces: A Review of Theory, Design, and Applications. ACS Nano, 2019, 13, 8517-8536. | 14.6 | 272 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1142 | Micropatterned biofunctional lubricant-infused surfaces promote selective localized cell adhesion and patterning. Lab on A Chip, 2019, 19, 3228-3237. | 6.0 | 34 |
| 1143 | Endowing recyclability to anti-adhesion materials <i>via</i> designing physically crosslinked polyurethane. Journal of Materials Chemistry A, 2019, 7, 22903-22911. | 10.3 | 10 |
| 1144 | Combining the geometry of folded paper with liquid-infused polymer surfaces to concentrate and localize bacterial solutions. Biointerphases, 2019, 14, 041005. | 1.6 | 6 |
| 1145 | Multifunctional Magnetocontrollable Superwettableâ€Microcilia Surface for Directional Droplet Manipulation. Advanced Science, 2019, 6, 1900834. | 11.2 | 92 |
| 1146 | Temperature-induced switchable interfacial interactions on slippery surfaces for controllable liquid manipulation. Journal of Materials Chemistry A, 2019, 7, 18510-18518. | 10.3 | 35 |
| 1147 | Step-Wise Assessment and Optimization of Sample Handling Recovery Yield for Nanoproteomic Analysis of 1000 Mammalian Cells. Analytical Chemistry, 2019, 91, 10395-10400. | 6.5 | 18 |
| 1148 | Underliquid Superlyophobic Copper-Coated Meshes for the Separation of Immiscible Organic Liquid Mixtures. ACS Applied Materials & Samp; Interfaces, 2019, 11, 28370-28376. | 8.0 | 28 |
| 1149 | An ultra-thin, all PDMS-based microfluidic lung assist device with high oxygenation capacity. Biomicrofluidics, 2019, 13, 034116. | 2.4 | 20 |
| 1150 | Predictions of the effective slip length and drag reduction with a lubricated micro-groove surface in a turbulent channel flow. Journal of Fluid Mechanics, 2019, 874, 797-820. | 3.4 | 40 |
| 1151 | The quest for blood-compatible materials: Recent advances and future technologies. Materials Science and Engineering Reports, 2019, 138, 118-152. | 31.8 | 66 |
| 1152 | Reversible Tuning between Isotropic and Anisotropic Sliding by One-Direction Mechanical Stretching on Microgrooved Slippery Surfaces. Langmuir, 2019, 35, 10625-10630. | 3.5 | 31 |
| 1153 | Electrospun nanofibrous omniphobic membrane for anti-surfactant-wetting membrane distillation desalination. Desalination, 2019, 468, 114068. | 8.2 | 61 |
| 1154 | Self-Sustained Cascading Coalescence in Surface Condensation. ACS Applied Materials & Samp; Interfaces, 2019, 11, 27435-27442. | 8.0 | 18 |
| 1155 | Highly transparent superamphiphobic surfaces by elaborate microstructure regulation. Journal of Colloid and Interface Science, 2019, 554, 250-259. | 9.4 | 27 |
| 1156 | Bioinspired Microfluidic Device by Integrating a Porous Membrane and Heterostructured Nanoporous Particles for Biomolecule Cleaning. ACS Nano, 2019, 13, 8374-8381. | 14.6 | 40 |
| 1157 | Light induced reversible structuring of photosensitive polymer films. RSC Advances, 2019, 9, 20295-20305. | 3.6 | 36 |
| 1158 | Surface charge printing for programmed droplet transport. Nature Materials, 2019, 18, 936-941. | 27.5 | 401 |
| 1159 | Robust Super-Hydrophobic Coating Prepared by Electrochemical Surface Engineering for Corrosion Protection. Coatings, 2019, 9, 452. | 2.6 | 46 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1160 | Recent Advances in Bioinspired Gel Surfaces with Superwettability and Special Adhesion. Advanced Science, 2019, 6, 1900996. | 11.2 | 57 |
| 1161 | Bouncing Droplets: A Hands-On Activity To Demonstrate the Properties and Applications of Superhydrophobic Surface Coatings. Journal of Chemical Education, 2019, 96, 1971-1976. | 2.3 | 5 |
| 1162 | Efficient Oil/Water Separation Membrane Derived from Super-Flexible and Superhydrophilic Core–Shell Organic/Inorganic Nanofibrous Architectures. Polymers, 2019, 11, 974. | 4.5 | 20 |
| 1163 | Stable Dropwise Condensation of Ethanol and Hexane on Rationally Designed Ultrascalable Nanostructured Lubricant-Infused Surfaces. Nano Letters, 2019, 19, 5287-5296. | 9.1 | 93 |
| 1164 | Liquid infused surface based on hierarchical dendritic iron wire array: An exceptional barrier to prohibit biofouling and biocorrosion. Progress in Organic Coatings, 2019, 136, 105216. | 3.9 | 14 |
| 1165 | Review of superoleophobic surfaces: Evaluation, fabrication methods, and industrial applications. Surfaces and Interfaces, 2019, 17, 100340. | 3.0 | 37 |
| 1166 | Control of Direct Written Ink Droplets Using Electrowetting. Langmuir, 2019, 35, 11023-11036. | 3.5 | 27 |
| 1167 | Droplet dynamics on slippery surfaces: small droplet, big impact. Biosurface and Biotribology, 2019, 5, 35-45. | 1.5 | 22 |
| 1168 | Highly transparent and robust slippery lubricant-infused porous surfaces with anti-icing and anti-fouling performances. Journal of Alloys and Compounds, 2019, 803, 51-60. | 5.5 | 57 |
| 1169 | Slippery liquid-infused porous electric heating coating for anti-icing and de-icing applications. Surface and Coatings Technology, 2019, 374, 889-896. | 4.8 | 53 |
| 1170 | Stress-localized durable anti-biofouling surfaces. Soft Matter, 2019, 15, 6014-6026. | 2.7 | 11 |
| 1171 | Transparent Omniphobic Coating with Glassâ€Like Wear Resistance and Polymerâ€Like Bendability. Angewandte Chemie - International Edition, 2019, 58, 12004-12009. | 13.8 | 81 |
| 1172 | Thermosensitive Hydrogel Interface Switching from Hydrophilic Lubrication to Infection Defense. ACS Applied Bio Materials, 2019, 2, 3582-3590. | 4.6 | 18 |
| 1173 | Programmable unidirectional liquid transport on peristome-mimetic surfaces under liquid environments. Journal of Materials Chemistry A, 2019, 7, 18244-18248. | 10.3 | 22 |
| 1174 | Liquid layer generators for excellent icephobicity at extremely low temperatures. Materials Horizons, 2019, 6, 2063-2072. | 12.2 | 53 |
| 1175 | Omniâ€Liquid Droplet Manipulation Platform. Advanced Materials Interfaces, 2019, 6, 1900653. | 3.7 | 33 |
| 1176 | Thin-film composite membranes with aqueous template-induced surface nanostructures for enhanced nanofiltration. Journal of Membrane Science, 2019, 589, 117244. | 8.2 | 165 |
| 1177 | Transparent Omniphobic Coating with Glassâ€Like Wear Resistance and Polymerâ€Like Bendability. Angewandte Chemie, 2019, 131, 12132-12137. | 2.0 | 18 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1178 | Multifunctional Silica–Silicone Nanocomposite with Regenerative Superhydrophobic Capabilities. ACS Applied Materials & Samp; Interfaces, 2019, 11, 42827-42837. | 8.0 | 39 |
| 1179 | Bioinspired functions., 2019,, 147-246. | | 1 |
| 1180 | Biomimetic multifunctional materials: a review. Emergent Materials, 2019, 2, 391-415. | 5.7 | 27 |
| 1181 | Biomimetics leading to liquid-infused surface based on vertical dendritic Co matrix: A barrier to inhibit bioadhesion and microbiologically induced corrosion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 124006. | 4.7 | 18 |
| 1182 | Rapid, large-volume, thermally controlled 3D printing using a mobile liquid interface. Science, 2019, 366, 360-364. | 12.6 | 275 |
| 1183 | Design and preparation of a multi-fluorination organic superhydrophobic coating with high mechanical robustness and icing delay ability. Applied Surface Science, 2019, 497, 143663. | 6.1 | 51 |
| 1184 | Fabrications and Applications of Slippery Liquid-infused Porous Surfaces Inspired from Nature: A Review. Journal of Bionic Engineering, 2019, 16, 769-793. | 5.0 | 53 |
| 1185 | Recent developments in air-trapped superhydrophobic and liquid-infused slippery surfaces for anti-icing application. Progress in Organic Coatings, 2019, 137, 105373. | 3.9 | 129 |
| 1186 | Fiber with Butterfly Wings: Creating Colored Carbon Fibers with Increased Strength, Adhesion, and Reversible Malleability. ACS Applied Materials & Samp; Interfaces, 2019, 11, 41617-41625. | 8.0 | 43 |
| 1187 | Preparation of a Phenolic-Resin-Based Polymer Sponge Composed of Intertwined Nanofibers with Tunable Wettability for High-Efficiency Separation of Oil–Water Emulsions. Langmuir, 2019, 35, 14902-14912. | 3.5 | 10 |
| 1188 | Wettability manipulation of overflow behavior <i>via</i> vesicle surfactant for water-proof surface cleaning. Materials Horizons, 2019, 6, 294-301. | 12.2 | 34 |
| 1189 | Multibioinspired slippery surfaces with wettable bump arrays for droplets pumping. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20863-20868. | 7.1 | 112 |
| 1190 | Study on ultrasliding surface of fluorinated block copolymer for coating. Materials Research Express, 2019, 6, 105364. | 1.6 | 1 |
| 1191 | Solvent-Free Synthesis and Hydrophobization of Biobased Epoxy Coatings for Anti-Icing and Anticorrosion Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 19131-19141. | 6.7 | 41 |
| 1193 | Droplet Morphology and Mobility on Lubricant-Impregnated Surfaces: A Molecular Dynamics Study. Langmuir, 2019, 35, 16377-16387. | 3.5 | 39 |
| 1194 | An Atmosphereâ€Breathing Refillable Biphasic Device for Cell Replacement Therapy. Advanced Materials, 2019, 31, e1905135. | 21.0 | 25 |
| 1195 | Creation of Superhydrophobic Coatings Based on MWCNTs Xerogel. Nanomaterials, 2019, 9, 1584. | 4.1 | 21 |
| 1196 | Tunable Ionic Liquid–Water Separation Enabled by Bioinspired Superwetting Porous Gel Membranes. ACS Applied Materials & Interfaces, 2019, 11, 44844-44850. | 8.0 | 10 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1197 | Supramolecular silicone coating capable of strong substrate bonding, readily damage healing, and easy oil sliding. Science Advances, 2019, 5, eaaw5643. | 10.3 | 132 |
| 1198 | Hybrid Electrodes Efficient for Both Electrowetting and Dielectrowetting. , 2019, , . | | 0 |
| 1199 | Dual-Layer Approach toward Self-Healing and Self-Cleaning Polyurethane Thermosets. Polymers, 2019, 11, 1849. | 4.5 | 24 |
| 1200 | Electrodeposited surfaces with reversibly switching interfacial properties. Science Advances, 2019, 5, eaax0380. | 10.3 | 43 |
| 1201 | Biofunctional Lubricant-Infused Vascular Grafts Functionalized with Silanized Bio-Inks Suppress Thrombin Generation and Promote Endothelialization. ACS Biomaterials Science and Engineering, 2019, 5, 6485-6496. | 5.2 | 32 |
| 1202 | Multistimuli Responsive Liquidâ€Release in Dynamic Polymer Coatings for Controlling Surface Slipperiness and Optical Performance. Advanced Materials Interfaces, 2019, 6, 1901028. | 3.7 | 13 |
| 1203 | Commercial drug norfloxacin as a novel ligand for the copperâ€catalyzed Nâ€arylation of imidazole with aryl halides. Applied Organometallic Chemistry, 2019, 33, e5195. | 3.5 | 10 |
| 1204 | Ricocheting Droplets Moving on Superâ€Repellent Surfaces. Advanced Science, 2019, 6, 1901846. | 11.2 | 20 |
| 1205 | Responsive Ionogel Surface with Renewable Antibiofouling Properties. Macromolecular Rapid Communications, 2019, 40, e1900395. | 3.9 | 13 |
| 1206 | Barcoding Amino Acids for Mutation Screening in Amyloid Beta Peptides. Small Methods, 2019, 3, 1900611. | 8.6 | 1 |
| 1207 | Compatibility of fabrication of superhydrophobic surfaces and addition of inhibitors in designing corrosion prevention strategies for electrodeposited nickel in saline solutions. Applied Surface Science, 2019, 493, 1243-1254. | 6.1 | 25 |
| 1208 | Fabrication and antifouling behavior research of self-healing lubricant impregnated films with dynamic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123865. | 4.7 | 8 |
| 1209 | Self-Adjusting Lubricant-Infused Porous Hydrophobic Sticky Surfaces: Programmable Time Delay Switch for Smart Control of the Drop's Slide. ACS Applied Materials & Samp; Interfaces, 2019, 11, 43681-43688. | 8.0 | 4 |
| 1210 | Solvent-Free Fabrication of Flexible and Robust Superhydrophobic Composite Films with Hierarchical Micro/Nanostructures and Durable Self-Cleaning Functionality. ACS Applied Materials & amp; Interfaces, 2019, 11, 44691-44699. | 8.0 | 27 |
| 1211 | Wetting transitions in droplet drying on soft materials. Nature Communications, 2019, 10, 4776. | 12.8 | 44 |
| 1212 | Flow over natural or engineered surfaces: an adjoint homogenization perspective. Journal of Fluid Mechanics, 2019, 877, . | 3.4 | 57 |
| 1213 | An Intrinsic Photothermal Liquid for Light Detection and Energy Storage. Chemistry - A European Journal, 2019, 25, 13811-13815. | 3.3 | 4 |
| 1214 | Simple Design for Durable and Clear Self-Cleaning Coatings. ACS Applied Polymer Materials, 2019, 1, 2659-2667. | 4.4 | 34 |

| # | Article | IF | CITATIONS |
|------|--|-------------|-----------|
| 1215 | Bio-Inspired Elastic Liquid-Infused Material for On-Demand Underwater Manipulation of Air Bubbles. ACS Nano, 2019, 13, 10596-10602. | 14.6 | 37 |
| 1216 | Fabrication of robust and durable slippery anti-icing coating on textured superhydrophobic aluminum surfaces with infused silicone oil. Applied Surface Science, 2019, 496, 143677. | 6.1 | 85 |
| 1217 | Drag-reductive and anti-corrosive superhydrophobic surface fabricated on aluminum with thin PDMS/SiO ₂ coating. Materials Research Express, 2019, 6, 1065a8. | 1.6 | 13 |
| 1218 | Going slippery for a robust triboelectric nanogenerator. National Science Review, 2019, 6, 1066-1067. | 9.5 | 2 |
| 1219 | Hydration lubrication of polyzwitterionic brushes leads to nearly friction- and adhesion-free droplet motion. Communications Physics, 2019, 2, . | 5. 3 | 39 |
| 1220 | Guided droplet transport on synthetic slippery surfaces inspired by a pitcher plant. Journal of the Royal Society Interface, 2019, 16, 20190323. | 3.4 | 20 |
| 1221 | Rapid fabrication of a dual-scale micro-nanostructured superhydrophobic aluminum surface with delayed condensation and ice formation properties. Soft Matter, 2019, 15, 7945-7955. | 2.7 | 50 |
| 1222 | A novel PET fabric with durable anti-fouling performance for reusable and efficient oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123941. | 4.7 | 25 |
| 1223 | Design criteria for coatings in next generation condensing economizers. Energy Procedia, 2019, 161, 412-420. | 1.8 | 14 |
| 1224 | A novel dual-layer approach towards omniphobic polyurethane coatings. RSC Advances, 2019, 9, 26703-26711. | 3. 6 | 27 |
| 1225 | <i>Nepenthes</i> -inspired multifunctional nanoblades with mechanical bactericidal, self-cleaning and insect anti-adhesive characteristics. RSC Advances, 2019, 9, 27904-27910. | 3.6 | 11 |
| 1226 | Role of trapped air and lubricant in the interactions between fouling and SiO2 nanoparticle surfaces. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110502. | 5.0 | 12 |
| 1227 | Optical analysis of a transparent slippery surface by controlling the refractive index of the porous structure. Journal of Applied Physics, 2019, 126, . | 2.5 | 2 |
| 1228 | Faraday instability of a liquid layer on a lubrication film. Journal of Fluid Mechanics, 2019, 879, 422-447. | 3.4 | 12 |
| 1229 | Control of Droplet Evaporation on Oil-Coated Surfaces for the Synthesis of Asymmetric Supraparticles. Langmuir, 2019, 35, 14042-14048. | 3.5 | 29 |
| 1230 | Double-sided slippery liquid-infused porous materials using conformable mesh. Scientific Reports, 2019, 9, 13280. | 3.3 | 22 |
| 1231 | Stress-localized durable icephobic surfaces. Materials Horizons, 2019, 6, 758-766. | 12.2 | 128 |
| 1232 | Dynamic surface antifouling: mechanism and systems. Soft Matter, 2019, 15, 1087-1107. | 2.7 | 183 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1233 | Preparation and comparison of NP-GLIDE, SLIPS, superhydrophobic, and other coatings from identical precursors at different mixing ratios. Journal of Materials Chemistry A, 2019, 7, 1519-1528. | 10.3 | 44 |
| 1234 | Antifreeze Liquid-Infused Surface with High Transparency, Low Ice Adhesion Strength, and Antifrosting Properties Fabricated through a Spray Layer-by-Layer Method. Industrial & Engineering Chemistry Research, 2019, 58, 2225-2234. | 3.7 | 41 |
| 1235 | Pitcher plant-bioinspired bubble slippery surface fabricated by femtosecond laser for buoyancy-driven bubble self-transport and efficient gas capture. Nanoscale, 2019, 11, 1370-1378. | 5.6 | 74 |
| 1236 | Transparent antismudge coatings with thermally assisted healing ability. Journal of Materials Chemistry A, 2019, 7, 2812-2820. | 10.3 | 24 |
| 1237 | Directional pumping of water and oil microdroplets on slippery surface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2482-2487. | 7.1 | 119 |
| 1238 | Magnetocontrollable Droplet and Bubble Manipulation on a Stable Amphibious Slippery Gel Surface. Advanced Functional Materials, 2019, 29, 1808717. | 14.9 | 104 |
| 1239 | Temperature-Driven Precise Control of Biological Droplet's Adhesion on a Slippery Surface. ACS Applied Materials & Droplet's Adhesion on a Slippery Surface. ACS Applied Materials & Droplet's Adhesion on a Slippery Surface. ACS Applied Materials & Droplet's Adhesion on a Slippery Surface. ACS | 8.0 | 50 |
| 1240 | Biological and Engineered Topological Droplet Rectifiers. Advanced Materials, 2019, 31, e1806501. | 21.0 | 113 |
| 1241 | Slip flow through microchannels with lubricant-infused bi-dimensional textured surfaces. Microfluidics and Nanofluidics, 2019, 23, 1. | 2,2 | 15 |
| 1242 | Fabrication of reinforced hydrophobic coatings for the protection of silk fabric. Textile Reseach Journal, 2019, 89, 3811-3824. | 2.2 | 4 |
| 1243 | An autodriven, solar fuel collection for a highly compact, biomimetic-modified artificial leaf without membrane. Nano Energy, 2019, 58, 484-491. | 16.0 | 15 |
| 1244 | Inhibition of surface ice nucleation by combination of superhydrophobic coating and alcohol spraying. International Journal of Heat and Mass Transfer, 2019, 134, 628-633. | 4.8 | 9 |
| 1245 | Effect of Pore Size, Lubricant Viscosity, and Distribution on the Slippery Properties of Infused Cement Surfaces. Journal of Physical Chemistry C, 2019, 123, 2987-2995. | 3.1 | 24 |
| 1246 | Pinning-Free Evaporation of Sessile Droplets of Water from Solid Surfaces. Langmuir, 2019, 35, 2989-2996. | 3.5 | 53 |
| 1247 | Self-Cleaning: From Bio-Inspired Surface Modification to MEMS/Microfluidics System Integration. Micromachines, 2019, 10, 101. | 2.9 | 35 |
| 1248 | How Slippery are SLIPS? Measuring Effective Slip on Lubricated Surfaces with Colloidal Probe Atmoc Force Microscopy. Langmuir, 2019, 35, 2976-2982. | 3.5 | 34 |
| 1249 | Designing biomimetic liquid diodes. Soft Matter, 2019, 15, 1902-1915. | 2.7 | 55 |
| 1250 | A survey of icephobic coatings and their potential use in a hybrid coating/active ice protection system for aerospace applications. Progress in Aerospace Sciences, 2019, 105, 74-97. | 12.1 | 145 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1251 | A novel core-shell epoxy high performance composite: Self-lubricating, heat-resistant and self-repairing. Progress in Organic Coatings, 2019, 129, 217-228. | 3.9 | 4 |
| 1252 | Wake structures behind a rotor with superhydrophobic-coated blades at low Reynolds number. Physics of Fluids, 2019, 31, 015102. | 4.0 | 27 |
| 1253 | Metal coordination-functionalized Au–Ag bimetal SERS nanoprobe for sensitive detection of glutathione. Analyst, The, 2019, 144, 421-425. | 3.5 | 24 |
| 1254 | Multi-functional fluorinated ionic liquid infused slippery surfaces with dual-responsive wettability switching and self-repairing. Journal of Materials Chemistry A, 2019, 7, 2172-2183. | 10.3 | 77 |
| 1255 | Design of hierarchical comb hydrophilic polymer brush (HCHPB) surfaces inspired by fish mucus for anti-biofouling. Journal of Materials Chemistry B, 2019, 7, 1322-1332. | 5.8 | 34 |
| 1256 | Multiple Superwettable Nanofiber Arrays Prepared by a Facile Dewetting Strategy via Controllably Localizing a Lowâ€Energy Compound. Advanced Functional Materials, 2019, 29, 1900060. | 14.9 | 16 |
| 1257 | Droplet manipulation with polarity-dependent low-voltage electrowetting on an open slippery liquid infused porous surface. Soft Matter, 2019, 15, 5211-5219. | 2.7 | 26 |
| 1258 | Ultralight and Flexible Monolithic Polymer Aerogel with Extraordinary Thermal Insulation by A Facile Ambient Process. Advanced Materials Interfaces, 2019, 6, 1900314. | 3.7 | 29 |
| 1259 | The effect of sharp solid edges on the droplet wettability. Journal of Colloid and Interface Science, 2019, 552, 563-571. | 9.4 | 41 |
| 1260 | Slippery paints: Eco-friendly coatings that cause ants to slip. Progress in Organic Coatings, 2019, 135, 331-344. | 3.9 | 10 |
| 1261 | Coating Architects: Manipulating Multiscale Structures To Optimize Interfacial Properties for Coating Applications. ACS Applied Polymer Materials, 2019, 1, 2249-2266. | 4.4 | 23 |
| 1262 | Droplet Retention and Shedding on Slippery Substrates. Langmuir, 2019, 35, 9146-9151. | 3.5 | 15 |
| 1263 | Longâ€Term Stability of a Liquidâ€Infused Coating with Antiâ€Corrosion and Antiâ€Icing Potentials on Al Alloy. ChemElectroChem, 2019, 6, 3911-3919. | 3.4 | 16 |
| 1264 | Durable omniphobicity of oil-impregnated anodic aluminum oxide nanostructured surfaces. Journal of Colloid and Interface Science, 2019, 553, 734-745. | 9.4 | 32 |
| 1265 | Design of omniphobic interfaces for membrane distillation – A review. Water Research, 2019, 162, 64-77. | 11.3 | 204 |
| 1266 | Designing air-independent slippery rough surfaces for condensation. International Journal of Heat and Mass Transfer, 2019, 140, 777-785. | 4.8 | 21 |
| 1267 | Liquid-Infused Membranes with Oil-in-Water Emulsions. Langmuir, 2019, 35, 9513-9520. | 3.5 | 24 |
| 1268 | Chemical Curiosity on Campus: An Undergraduate Project on the Structure and Wettability of Natural Surfaces. Journal of Chemical Education, 2019, 96, 1998-2002. | 2.3 | 3 |

| # | Article | IF | CITATIONS |
|--------------------------------------|---|----------------------------------|-----------------|
| 1269 | Lyophobic slippery surfaces on smooth/hierarchical structured substrates and investigations of their dynamic liquid repellency. Physical Chemistry Chemical Physics, 2019, 21, 15705-15711. | 2.8 | 10 |
| 1270 | Liquid-Infused Structured Titanium Surfaces: Antiadhesive Mechanism to Repel <i>Streptococcus oralis</i> Biofilms. ACS Applied Materials & Samp; Interfaces, 2019, 11, 23026-23038. | 8.0 | 27 |
| 1271 | Splitting droplets through coalescence of two different three-phase contact lines. Soft Matter, 2019, 15, 6055-6061. | 2.7 | 9 |
| 1272 | Experiments on flows in channels with spatially distributed heating. Journal of Fluid Mechanics, 2019, 872, 177-197. | 3.4 | 11 |
| 1273 | Bioinspired inner microstructured tube controlled capillary rise. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12704-12709. | 7.1 | 92 |
| 1274 | Experimental investigations of liquid-infused surface robustness under turbulent flow. Experiments in Fluids, 2019, 60, 1. | 2.4 | 9 |
| 1275 | Versatile micro- and nanotexturing techniques for antibacterial applications. , 2019, , 27-62. | | 6 |
| 1276 | Facile fabrication of biomimetic liquid-infused slippery surface on carbon steel and its self-cleaning, anti-corrosion, anti-frosting and tribological properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 17-26. | 4.7 | 56 |
| 1277 | Mobility of Aqueous and Binary Mixture Drops on Lubricating Fluid-Coated Slippery Surfaces. Langmuir, 2019, 35, 7672-7679. | 3.5 | 22 |
| | | | |
| 1278 | Antifouling digital microfluidics using lubricant infused porous film. Lab on A Chip, 2019, 19, 2275-2283. | 6.0 | 39 |
| 1278 1279 | Antifouling digital microfluidics using lubricant infused porous film. Lab on A Chip, 2019, 19, 2275-2283. Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. | 6.0 2.1 | 39 |
| | | | |
| 1279 | Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. | 2.1 | 18 |
| 1279 1280 | Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. Hydrophobic Metal–Organic Frameworks. Advanced Materials, 2019, 31, e1900820. PDMS-Infused Poly(High Internal Phase Emulsion) Templates for the Construction of Slippery Liquid-Infused Porous Surfaces with Self-cleaning and Self-repairing Properties. Langmuir, 2019, 35, | 2.1 | 18 |
| 1279 1280 1281 | Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. Hydrophobic Metal–Organic Frameworks. Advanced Materials, 2019, 31, e1900820. PDMS-Infused Poly(High Internal Phase Emulsion) Templates for the Construction of Slippery Liquid-Infused Porous Surfaces with Self-cleaning and Self-repairing Properties. Langmuir, 2019, 35, 8276-8284. Coalescence-induced droplet detachment on low-adhesion surfaces: A three-phase system study. | 2.1 21.0 3.5 | 18 138 26 |
| 1279 1280 1281 1282 | Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. Hydrophobic Metal–Organic Frameworks. Advanced Materials, 2019, 31, e1900820. PDMS-Infused Poly(High Internal Phase Emulsion) Templates for the Construction of Slippery Liquid-Infused Porous Surfaces with Self-cleaning and Self-repairing Properties. Langmuir, 2019, 35, 8276-8284. Coalescence-induced droplet detachment on low-adhesion surfaces: A three-phase system study. Physical Review E, 2019, 99, 063102. Mobile Liquid Gating Membrane System for Smart Piston and Valve Applications. Industrial & Company Control of Surfaces and Self-repairing Properties. Langmuir, 2019, 35, 8276-8284. | 2.1 21.0 3.5 2.1 | 18 138 26 |
| 1279 1280 1281 1282 1283 | Geometric control of bacterial surface accumulation. Physical Review E, 2019, 99, 052607. Hydrophobic Metal–Organic Frameworks. Advanced Materials, 2019, 31, e1900820. PDMS-Infused Poly(High Internal Phase Emulsion) Templates for the Construction of Slippery Liquid-Infused Porous Surfaces with Self-cleaning and Self-repairing Properties. Langmuir, 2019, 35, 8276-8284. Coalescence-induced droplet detachment on low-adhesion surfaces: A three-phase system study. Physical Review E, 2019, 99, 063102. Mobile Liquid Gating Membrane System for Smart Piston and Valve Applications. Industrial & Sengineering Chemistry Research, 2019, 58, 11976-11984. | 2.1 21.0 3.5 2.1 3.7 | 18 138 26 3 29 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1287 | Beyond Seashells: Bioinspired 2D Photonic and Photoelectronic Devices. Advanced Functional Materials, 2019, 29, 1901460. | 14.9 | 78 |
| 1288 | Power generation from the interaction of a liquid droplet and a liquid membrane. Nature Communications, 2019, 10, 2264. | 12.8 | 237 |
| 1289 | Nature-Inspired Liquid Infused Systems for Superwettable Surface Energies. ACS Applied Materials & Samp; Interfaces, 2019, 11, 21275-21293. | 8.0 | 55 |
| 1290 | Biofilm Bridges Forming Structural Networks on Patterned Lubricantâ€Infused Surfaces. Advanced Science, 2019, 6, 1900519. | 11.2 | 33 |
| 1291 | Under-liquid dual superlyophobic nanofibrous polymer membranes achieved by coating thin-film composites: a design principle. Chemical Science, 2019, 10, 6382-6389. | 7.4 | 31 |
| 1292 | Anisotropic Sliding of Underwater Bubbles On Microgrooved Slippery Surfaces by One-Step Femtosecond Laser Scanning. ACS Applied Materials & Samp; Interfaces, 2019, 11, 20574-20580. | 8.0 | 43 |
| 1293 | Preparation and Corrosion Inhibition of Single and Biphase Composite Coating Based on PEDOT in 0.1M NaOH. International Journal of Electrochemical Science, 2019, 14, 4828-4837. | 1.3 | 3 |
| 1294 | A novel coating system with self-reparable slippery surface and active corrosion inhibition for reliable protection of Mg alloy. Chemical Engineering Journal, 2019, 373, 285-297. | 12.7 | 168 |
| 1295 | Bio-inspired sensing and actuating materials. Journal of Materials Chemistry C, 2019, 7, 6493-6511. | 5.5 | 112 |
| 1296 | An Overview of Bioinspired and Biomimetic Self-Repairing Materials. Biomimetics, 2019, 4, 26. | 3.3 | 87 |
| 1297 | Simple Way to a Slippery Lubricant Impregnated Coating with Ultrastability and Self-Replenishment Property. Industrial & Engineering Chemistry Research, 2019, 58, 8148-8153. | 3.7 | 57 |
| 1298 | Electrowetting on liquid-infused membrane for flexible and reliable digital droplet manipulation and application. Sensors and Actuators B: Chemical, 2019, 291, 470-477. | 7.8 | 41 |
| 1299 | Mobility of Yield Stress Fluids on Lubricant-Impregnated Surfaces. ACS Applied Materials & Samp; Interfaces, 2019, 11, 16123-16129. | 8.0 | 11 |
| 1300 | Continuous Directional Water Delivery on the 3D-Printed Arrowhead Microstructure Array. Materials, 2019, 12, 1043. | 2.9 | 7 |
| 1301 | Recent Advances in Robust Superwettable Membranes for Oil–Water Separation. Advanced Materials Interfaces, 2019, 6, 1900126. | 3.7 | 107 |
| 1302 | <i>In Situ</i> Reversible Control between Sliding and Pinning for Diverse Liquids under Ultra-Low Voltage. ACS Nano, 2019, 13, 5742-5752. | 14.6 | 73 |
| 1303 | Wetting Characteristics of Surfaces. , 2019, , 11-44. | | 2 |
| 1304 | Comparison between super-hydrophobic, liquid infused and rough surfaces: a direct numerical simulation study. Journal of Fluid Mechanics, 2019, 869, 500-525. | 3.4 | 40 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1305 | A facile approach to fabricate dynamically omniphobic coating on diverse substrates for self-cleaning. Progress in Organic Coatings, 2019, 132, 475-480. | 3.9 | 14 |
| 1306 | Modulation of the Streaming Potential and Slip Characteristics in Electrolyte Flow over Liquid-Filled Surfaces. Langmuir, 2019, 35, 6203-6210. | 3.5 | 17 |
| 1307 | Coexistence of Antiadhesion Performance, Intrinsic Stretchability, and Transparency. ACS Applied Materials & Eamp; Interfaces, 2019, 11, 16914-16921. | 8.0 | 8 |
| 1308 | Chemical stable, superhydrophobic and self-cleaning fabrics prepared by two-step coating of a polytetrafluoroethylene membrane and silica nanoparticles. Textile Reseach Journal, 2019, 89, 4827-4841. | 2.2 | 16 |
| 1309 | Enhancing the Robustness of Superhydrophobic Coatings via the Addition of Sulfide. Langmuir, 2019, 35, 6650-6656. | 3.5 | 17 |
| 1310 | Oil Recovery from Nanoporous Media via Water Condensation. Advanced Materials Interfaces, 2019, 6, 1900250. | 3.7 | 5 |
| 1311 | Icephobic surfaces: Definition and figures of merit. Advances in Colloid and Interface Science, 2019, 269, 203-218. | 14.7 | 115 |
| 1312 | Bioinspired Slippery Cone for Controllable Manipulation of Gas Bubbles in Low-Surface-Tension Environment. ACS Nano, 2019, 13, 4083-4090. | 14.6 | 68 |
| 1313 | Liquid-Infused Nitric-Oxide-Releasing Silicone Foley Urinary Catheters for Prevention of Catheter-Associated Urinary Tract Infections. ACS Biomaterials Science and Engineering, 2019, 5, 2021-2029. | 5.2 | 46 |
| 1314 | SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. National Science Review, 2019, 6, 540-550. | 9.5 | 110 |
| 1315 | Design of surfaces for controlling hard and soft fouling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180266. | 3.4 | 34 |
| 1316 | Design of slippery organogel layer with room-temperature self-healing property for marine anti-fouling application. Progress in Organic Coatings, 2019, 132, 132-138. | 3.9 | 41 |
| 1317 | Liquid-infused superhydrophobic dendritic silver matrix: A bio-inspired strategy to prohibit biofouling on titanium. Surface and Coatings Technology, 2019, 367, 148-155. | 4.8 | 40 |
| 1318 | Ultrastable Underwater Anti-Oil Fouling Coatings from Spray Assemblies of Polyelectrolyte Grafted Silica Nanochains. ACS Applied Materials & Silica Nanochains. | 8.0 | 39 |
| 1319 | Self-healing atypical liquid-infused surfaces: Superhydrophobicity and superoleophobicity in submerged conditions. Journal of the Taiwan Institute of Chemical Engineers, 2019, 97, 96-104. | 5.3 | 13 |
| 1320 | Direct Micropatterning of Phase Separation Membranes Using Hydrogel Soft Lithography. Advanced Materials Technologies, 2019, 4, 1800384. | 5.8 | 22 |
| 1321 | Micro- and Nanotopography Sensitive Bacterial Attachment Mechanisms: A Review. Frontiers in Microbiology, 2019, 10, 191. | 3.5 | 209 |
| 1322 | Delaying Ice and Frost Formation Using Phaseâ€Switching Liquids. Advanced Materials, 2019, 31, e1807812. | 21.0 | 75 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 1323 | In situ reversible underwater superwetting transition by electrochemical atomic alternation. Nature Communications, 2019, 10, 1212. | 12.8 | 31 |
| 1324 | Highly Stable Amphiphilic Organogel with Exceptional Anti-icing Performance. ACS Applied Materials & amp; Interfaces, 2019, 11, 12838-12845. | 8.0 | 92 |
| 1325 | Simultaneous Detection and Repair of Wetting Defects in Superhydrophobic Coatings via Cassie–Wenzel Transitions of Liquid Marbles. Advanced Functional Materials, 2019, 29, 1900688. | 14.9 | 42 |
| 1326 | When Lotus Leaves Prevent Metal from Melting â€" Biomimetic Surfaces for High Temperature Applications. Journal of Bionic Engineering, 2019, 16, 281-290. | 5.0 | 4 |
| 1327 | Stable magnetic fluid anti-icing surfaces supported by a magnetic field and porous substrate. Materials Research Express, 2019, 6, 055035. | 1.6 | 5 |
| 1329 | Selfâ€Cleaning of Interfacial Oil Between Polymer Composites with Porous Zeolite Microparticles and Their Selfâ€Lubrication Properties. Advanced Materials Interfaces, 2019, 6, 1801889. | 3.7 | 10 |
| 1330 | Flowâ€Induced Longâ€Term Stable Slippery Surfaces. Advanced Science, 2019, 6, 1900019. | 11.2 | 34 |
| 1331 | Omniphobic surfaces: state-of-the-art and future perspectives. Journal of Adhesion Science and Technology, 2019, 33, 1369-1379. | 2.6 | 14 |
| 1332 | Physics of pre-wetted, lubricated and impregnated surfaces: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180264. | 3.4 | 8 |
| 1333 | Super-hydrophobic film deposition by an atmospheric-pressure plasma process and its anti-icing characteristics. Plasma Science and Technology, 2019, 21, 055502. | 1.5 | 16 |
| 1334 | Review of Micro–Nanoscale Surface Coatings Application for Sustaining Dropwise Condensation. Coatings, 2019, 9, 117. | 2.6 | 33 |
| 1335 | Droplet Sorting and Manipulation on Patterned Two-Phase Slippery Lubricant-Infused Surface. ACS Applied Materials & Samp; Interfaces, 2019, 11, 16130-16138. | 8.0 | 45 |
| 1336 | An in situ method on kinetics of gas hydrates. Review of Scientific Instruments, 2019, 90, 035111. | 1.3 | 1 |
| 1337 | Physics of adhesive organs in animals. European Physical Journal: Special Topics, 2019, 227, 2501-2512. | 2.6 | 12 |
| 1338 | Wettability and dynamics of water droplet on a snail shell. Journal of Colloid and Interface Science, 2019, 547, 111-116. | 9.4 | 5 |
| 1339 | An ultra-durable icephobic coating by a molecular pulley. Soft Matter, 2019, 15, 3607-3611. | 2.7 | 47 |
| 1340 | Capillary interactions between droplets and ideal roughness: Attractive protrusion and repulsive trench. Experimental Thermal and Fluid Science, 2019, 105, 216-222. | 2.7 | 3 |
| 1341 | Natureâ€Inspired Strategy for Anticorrosion. Advanced Engineering Materials, 2019, 21, 1801379. | 3.5 | 58 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1342 | Synthesis of mesoporous silica-shell/oil-core microspheres for common waterborne polymer coatings with robust superhydrophobicity. Progress in Organic Coatings, 2019, 132, 275-282. | 3.9 | 27 |
| 1343 | Slippery Properties and the Robustness of Lubricant-impregnated Surfaces. Journal of Bionic Engineering, 2019, 16, 291-298. | 5.0 | 12 |
| 1344 | Antiicing Properties of Bioinspired Liquidâ€Infused Doubleâ€Layer Surface with Internal Wetting Transport Ability. Advanced Materials Interfaces, 2019, 6, 1900244. | 3.7 | 9 |
| 1345 | Wettability-Independent Droplet Transport by <i>Bendotaxis</i> . Physical Review Letters, 2019, 122, 074503. | 7.8 | 35 |
| 1346 | Self-Healing Polymeric Systems: Concepts and Applications. , 2019, , 379-409. | | 6 |
| 1347 | Bioinspired Superwettability Micro/Nanoarchitectures: Fabrications and Applications. Advanced Functional Materials, 2019, 29, 1808012. | 14.9 | 129 |
| 1348 | Biomimetic Selfâ€Cleaning Anisotropic Solid Slippery Surface with Excellent Stability and Restoration. ChemPhysChem, 2019, 20, 946-952. | 2.1 | 17 |
| 1349 | Droplet manipulation with bioinspired liquid-infused surfaces: A review of recent progress and potential for integrated detection. Current Opinion in Colloid and Interface Science, 2019, 39, 137-147. | 7.4 | 33 |
| 1350 | Robust Hyperbranched Polyester-Based Anti-Smudge Coatings for Self-Cleaning, Anti-Graffiti, and Chemical Shielding. ACS Applied Materials & Samp; Interfaces, 2019, 11, 14305-14312. | 8.0 | 74 |
| 1351 | Self-healing liquid-infused surfaces with high transparency for optical devices. MRS Communications, 2019, 9, 92-98. | 1.8 | 12 |
| 1353 | Durable lubricant-infused anodic aluminum oxide surfaces with high-aspect-ratio nanochannels. Chemical Engineering Journal, 2019, 368, 138-147. | 12.7 | 47 |
| 1354 | Understanding the role of hollow sub-surface structures in reducing ice adhesion strength. Soft Matter, 2019, 15, 2905-2910. | 2.7 | 35 |
| 1355 | Two-dimensional MXene-reinforced robust surface superhydrophobicity with self-cleaning and photothermal-actuating binary effects. Materials Horizons, 2019, 6, 1057-1065. | 12.2 | 135 |
| 1357 | Use of Nanostructured Coating to Improve Heat Exchanger Efficiency. , 2019, , 275-292. | | 4 |
| 1358 | Bioinspired Self-Healing Liquid Films for Ultradurable Electronics. ACS Nano, 2019, 13, 3225-3231. | 14.6 | 36 |
| 1359 | Fabrication of fluorine-free superhydrophobic coatings from montmorillonite with mechanical durability and chemical stability. Journal of Coatings Technology Research, 2019, 16, 1043-1053. | 2.5 | 8 |
| 1360 | Perfluoroalkane wax infused gels for effective, regenerating, anti-icing surfaces. Chemical Communications, 2019, 55, 3215-3218. | 4.1 | 21 |
| 1361 | Apparent Contact Angles on Lubricant-Impregnated Surfaces/SLIPS: From Superhydrophobicity to Electrowetting. Langmuir, 2019, 35, 4197-4204. | 3.5 | 79 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1362 | Spinning and Applications of Bioinspired Fiber Systems. ACS Nano, 2019, 13, 2749-2772. | 14.6 | 151 |
| 1363 | The role of particle size on bio-fouling properties of oil-impregnated nano-porous silica coatings. Journal of Applied Sciences and Environmental Management, 2019, 23, 1153. | 0.1 | O |
| 1364 | The Biological Transformation of Energy Supply and Storage – Technologies and Scenarios for Biointelligent Value Creation. Procedia Manufacturing, 2019, 39, 1204-1214. | 1.9 | 12 |
| 1365 | Antifouling and Fouling-Release Performance of Photo-Embossed Fluorogel Elastomers. Journal of Marine Science and Engineering, 2019, 7, 419. | 2.6 | 7 |
| 1366 | Epidermal Gland Inspired Self-Repairing Slippery Lubricant-Infused Porous Coatings with Durable Low Ice Adhesion. Coatings, 2019, 9, 602. | 2.6 | 26 |
| 1367 | Dynamics of droplets on cones: self-propulsion due to curvature gradients. Soft Matter, 2019, 15, 9997-10004. | 2.7 | 23 |
| 1368 | Fast self-replenishing slippery surfaces with a 3D fibrous porous network for the healing of surface properties. Journal of Materials Chemistry A, 2019, 7, 24900-24907. | 10.3 | 26 |
| 1369 | Bioinspired Slippery Lubricant-Infused Surfaces With External Stimuli Responsive Wettability: A Mini Review. Frontiers in Chemistry, 2019, 7, 826. | 3.6 | 18 |
| 1370 | A liquid-based Janus porous membrane for convenient liquid–liquid extraction and immiscible oil/water separation. Chemical Communications, 2019, 55, 14486-14489. | 4.1 | 23 |
| 1371 | Flow stabilization in wearable microfluidic sensors enables noise suppression. Lab on A Chip, 2019, 19, 3899-3908. | 6.0 | 23 |
| 1372 | Superhydrophobic and slippery cotton fabrics with robust nanolayers for stable wettability, anti-fouling and anti-icing properties. New Journal of Chemistry, 2019, 43, 16656-16663. | 2.8 | 26 |
| 1373 | Bioinspired surfaces with wettability for antifouling application. Nanoscale, 2019, 11, 22636-22663. | 5.6 | 130 |
| 1374 | A highly fluorinated SiO ₂ particle assembled, durable superhydrophobic and superoleophobic coating for both hard and soft materials. Nanoscale, 2019, 11, 18338-18346. | 5.6 | 40 |
| 1375 | A nature-inspired lubricant-infused surface for sustainable drag reduction. Soft Matter, 2019, 15, 8459-8467. | 2.7 | 62 |
| 1376 | Tunable adhesion and slip on a bio-mimetic sticky soft surface. Soft Matter, 2019, 15, 9031-9040. | 2.7 | 13 |
| 1377 | Liquid-Infused Micro-Nanostructured MOF Coatings (LIMNSMCs) with High Anti-Icing Performance. ACS Applied Materials & Samp; Interfaces, 2019, 11, 47545-47552. | 8.0 | 28 |
| 1378 | Lubricantâ€Infused PET Grafts with Builtâ€In Biofunctional Nanoprobes Attenuate Thrombin Generation and Promote Targeted Binding of Cells. Small, 2019, 15, e1905562. | 10.0 | 31 |
| 1379 | In Situ Transmission Electron Microscope Liquid Cell 3D Profile Reconstruction and Analysis of Nanoscale Liquid Water Contact Line Movements. Langmuir, 2019, 35, 16712-16717. | 3.5 | 7 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1380 | Oil-Infused Silicone Prevents Zebra Mussel Adhesion. ACS Applied Bio Materials, 2019, 2, 5841-5847. | 4.6 | 20 |
| 1381 | Viscoelastic solid-repellent coatings for extreme water saving and global sanitation. Nature Sustainability, 2019, 2, 1097-1105. | 23.7 | 77 |
| 1383 | Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance for Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane Distillation. ACS Applied Materials & Enhanced Performance For Membrane For Membrane Performance For Membrane Performance For Membrane P | 8.0 | 80 |
| 1384 | Fast Modulation of Surface Amphiphobicity/Amphiphilicity via Bidirectional Substitution between Perfluorinated Surfactants and Polyanions throughout Pre-Assembled Polyelectrolyte Multilayers. Langmuir, 2019, 35, 17122-17131. | 3.5 | 6 |
| 1385 | Liquid infused surfaces with anti-icing properties. Nanoscale, 2019, 11, 22615-22635. | 5.6 | 61 |
| 1386 | Ice adhesion mechanism on lubricant-impregnated surfaces using molecular dynamics simulations. Molecular Simulation, 2019, 45, 394-402. | 2.0 | 14 |
| 1387 | Effects of hydrophobicity and lubricant characteristics on anti-icing performance of slippery lubricant-infused porous surfaces. Journal of Industrial and Engineering Chemistry, 2019, 69, 99-105. | 5.8 | 39 |
| 1388 | Clinical Potential of Immobilized Liquid Interfaces: Perspectives on Biological Interactions. Trends in Biotechnology, 2019, 37, 268-280. | 9.3 | 27 |
| 1389 | Superhydrophobic Polyhydroxyalkanoates: Preparation and Applications. Biomacromolecules, 2019, 20, 618-624. | 5.4 | 6 |
| 1390 | Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. Nanoscale Horizons, 2019, 4, 52-76. | 8.0 | 213 |
| 1391 | Thermally Robust Non-Wetting Ni-PTFE Electrodeposited Nanocomposite. Nanomaterials, 2019, 9, 2. | 4.1 | 25 |
| 1392 | Robust Icephobic Performance of Flexible Needles. ChemNanoMat, 2019, 5, 175-180. | 2.8 | 9 |
| 1393 | One-step method for fabrication of bioinspired hierarchical superhydrophobic surface with robust stability. Applied Surface Science, 2019, 473, 493-499. | 6.1 | 62 |
| 1394 | The effect of slip and surface texture on turbulence over superhydrophobic surfaces. Journal of Fluid Mechanics, 2019, 861, 88-118. | 3.4 | 33 |
| 1395 | Nonfluorinated Superomniphobic Surfaces through Shape-Tunable Mushroom-like Polymeric Micropillar Arrays. ACS Applied Materials & Samp; Interfaces, 2019, 11, 5484-5491. | 8.0 | 26 |
| 1396 | Oil- and Water-Resistant Coatings for Porous Cellulosic Substrates. ACS Applied Polymer Materials, 2019, 1, 103-111. | 4.4 | 50 |
| 1397 | Investigating the Role of Glass and Quartz Substrates on the Formation of Interfacial Droplets. Journal of Physical Chemistry C, 2019, 123, 1151-1159. | 3.1 | 13 |
| 1398 | Rapid Coating Process Generates Omniphobic Dentures in Minutes to Reduce <i>C. albicans</i> Biofouling. ACS Biomaterials Science and Engineering, 2019, 5, 420-424. | 5.2 | 10 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1399 | Multifunctional "Hydrogel Skins―on Diverse Polymers with Arbitrary Shapes. Advanced Materials, 2019, 31, e1807101. | 21.0 | 258 |
| 1400 | Biomimetic surface modifications of stainless steel targeting dairy fouling mitigation and bacterial adhesion. Food and Bioproducts Processing, 2019, 113, 32-38. | 3.6 | 28 |
| 1401 | An Artificial Nocturnal Flower via Humidityâ€Gated Photoactuation in Liquid Crystal Networks. Advanced Materials, 2019, 31, e1805985. | 21.0 | 154 |
| 1402 | Infused configurations induced by structures influence stability and antifouling performance of biomimetic lubricant-infused surfaces. Surface and Coatings Technology, 2019, 358, 159-166. | 4.8 | 40 |
| 1403 | Textured Organogel Films Showing Unusual Thermoresponsive Dewetting, Icephobic, and Optical Properties. Advanced Materials Interfaces, 2019, 6, 1801358. | 3.7 | 28 |
| 1404 | Slippery Surface Based on Photoelectric Responsive Nanoporous Composites with Optimal Wettability Region for Droplets' Multifunctional Manipulation. Advanced Science, 2019, 6, 1801231. | 11.2 | 54 |
| 1405 | Flexible and Stable Omniphobic Surfaces Based on Biomimetic Repulsive Air-Spring Structures. ACS Applied Materials & Samp; Interfaces, 2019, 11, 5877-5884. | 8.0 | 23 |
| 1406 | Contact angle dynamics on pseudo-brushes: Effects of polymer chain length and wetting liquid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 566, 148-155. | 4.7 | 22 |
| 1407 | Fabrication of superhydrophobic surfaces for corrosion protection: A review. Materials Science and Technology, 2019, 35, 313-326. | 1.6 | 60 |
| 1408 | Interfacial Phenomena on the Inorganic Scaling Prevention. ACS Omega, 2019, 4, 79-85. | 3.5 | 14 |
| 1409 | Patterned Slippery Surface through Dynamically Controlling Surface Structures for Droplet Microarray. Chemistry of Materials, 2019, 31, 834-841. | 6.7 | 33 |
| 1410 | Self-assembled liquid bridge confined boiling on nanoengineered surfaces. International Journal of Heat and Mass Transfer, 2019, 133, 1154-1164. | 4.8 | 17 |
| 1411 | Study of Biofilm Growth on Slippery Liquid-Infused Porous Surfaces Made from Fluoropor. ACS Applied Materials & Samp; Interfaces, 2019, 11, 4480-4487. | 8.0 | 54 |
| 1412 | Injectable Slippery Lubricant-Coated Spiky Microparticles with Persistent and Exceptional Biofouling-Resistance. ACS Central Science, 2019, 5, 250-258. | 11.3 | 15 |
| 1413 | Fabrication of slippery Zn surface with improved water-impellent, condensation and anti-icing properties. Applied Surface Science, 2019, 470, 1139-1147. | 6.1 | 36 |
| 1414 | Smart Wetting Control on Shape Memory Polymer Surfaces. Chemistry - A European Journal, 2019, 25, 3979-3992. | 3.3 | 40 |
| 1415 | Lubricant-infused slippery surfaces: Facile fabrication, unique liquid repellence and antireflective properties. Journal of Colloid and Interface Science, 2019, 536, 507-515. | 9.4 | 67 |
| 1416 | Liquidâ€Repellent Metal Oxide Photocatalysts. Chemistry - A European Journal, 2019, 25, 4535-4542. | 3.3 | 8 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1417 | Fabricating Bionic Ultraslippery Surface on Titanium Alloys with Excellent Fouling-Resistant Performance. ACS Applied Bio Materials, 2019, 2, 155-162. | 4.6 | 35 |
| 1418 | Phase transition enabled durable anti-icing surfaces and its DIY design. Chemical Engineering Journal, 2019, 360, 243-249. | 12.7 | 68 |
| 1419 | Slippery Lubricantâ€Infused Surfaces: Properties and Emerging Applications. Advanced Functional Materials, 2019, 29, 1802317. | 14.9 | 172 |
| 1420 | Particulate Coatings with Optimized Haze Properties. Advanced Functional Materials, 2019, 29, 1806025. | 14.9 | 13 |
| 1421 | Sink dynamics of aqueous drops on lubricating fluid coated hydrophilic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 562, 377-382. | 4.7 | 14 |
| 1422 | Facile fabrication of superhydrophobic and superoleophilic glass-fiber fabric for water-in-oil emulsion separation. Textile Reseach Journal, 2019, 89, 2674-2681. | 2.2 | 11 |
| 1423 | Materials, Innovations and Future Research Opportunities on Wind Turbine Bladesâ€"Insight Review. Environmental Progress and Sustainable Energy, 2019, 38, e13046. | 2.3 | 10 |
| 1424 | Liquidâ€Like SiO ₂ â€ <i>g</i> å€PDMS Coatings on Wood Surfaces with Underwater Durability, Antifouling, Antismudge, and Selfâ€Healing Properties. Advanced Sustainable Systems, 2019, 3, 1800070. | 5.3 | 37 |
| 1425 | Future Perspectives on Biological Fabrication and Material Farming. Small Methods, 2019, 3, 1800136. | 8.6 | 3 |
| 1426 | Transparent, fluorine-free, heat-resistant, water repellent coating by infusing slippery silicone oil on polysiloxane nanofilament layers prepared by gas phase reaction of n-propyltrichlorosilane and methyltrichlorosilane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 223-232. | 4.7 | 18 |
| 1427 | Effect of the texture geometry on the slippery behavior of liquid-infused nanoporous surfaces. Journal of Materials Science, 2019, 54, 2729-2739. | 3.7 | 20 |
| 1428 | An investigation into the anti-icing properties of fabrics used for the outer layer of firefighter clothing. Textile Reseach Journal, 2019, 89, 1500-1511. | 2.2 | 5 |
| 1429 | Combined Light and Electric Response of Topographic Liquid Crystal Network Surfaces. Advanced Functional Materials, 2020, 30, 1901681. | 14.9 | 28 |
| 1430 | Advanced Polymeric Coatings and Their Applications: Green Tribology. , 2020, , 345-358. | | 14 |
| 1431 | Direct cell imprint lithography in superconductive carbon black polymer composites: process optimization, characterization and <i>in vitro</i> toxicity analysis. Bioinspiration and Biomimetics, 2020, 15, 016002. | 2.9 | 9 |
| 1432 | Efficient separation of free organic liquid mixtures based on underliquid superlyophobic coconut shell coated meshes. Separation and Purification Technology, 2020, 231, 115899. | 7.9 | 60 |
| 1433 | Bio-based coatings with liquid repellency for various applications. Chemical Engineering Journal, 2020, 382, 123042. | 12.7 | 40 |
| 1434 | Underwater superoleophobicity of a superhydrophilic surface with unexpected drag reduction driven by electrochemical water splitting. Chemical Engineering Journal, 2020, 381, 122734. | 12.7 | 31 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1435 | Electric-tunable wettability on a paraffin-infused slippery pattern surface. Chemical Engineering Journal, 2020, 381, 122612. | 12.7 | 40 |
| 1436 | Durable deicing lubricant-infused surface with photothermally switchable hydrophobic/slippery property. Materials and Design, 2020, 185, 108236. | 7.0 | 54 |
| 1437 | Robust fluorine-free superhydrophobic coating on polyester fabrics by spraying commercial adhesive and hydrophobic fumed SiO2 nanoparticles. Progress in Organic Coatings, 2020, 138, 105342. | 3.9 | 21 |
| 1438 | Oilâ€Based Selfâ€Healing Barrier Coatings: To Flow and Not to Flow. Advanced Functional Materials, 2020, 30, 1906273. | 14.9 | 24 |
| 1439 | Advanced Technologies for Quantum Photonic Devices Based on Epitaxial Quantum Dots. Advanced Quantum Technologies, 2020, 3, 1900034. | 3.9 | 11 |
| 1440 | Nature-inspired surface topography: design and function. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1 . | 5.1 | 23 |
| 1441 | Review of photoreduction and synchronous patterning of graphene oxide toward advanced applications. Journal of Materials Science, 2020, 55, 480-497. | 3.7 | 16 |
| 1442 | Icephobic performance of one-step silicone-oil-infused slippery coatings: Effects of surface energy, oil and nanoparticle contents. Journal of Colloid and Interface Science, 2020, 558, 251-258. | 9.4 | 37 |
| 1443 | Transparent omniphobic polyurethane coatings containing partially acetylated β–cyclodextrin as the polyol. Chemical Engineering Journal, 2020, 380, 122554. | 12.7 | 46 |
| 1444 | Manipulating Water and Heat with Nanoengineered Surfaces. Women in Engineering and Science, 2020, , 85-99. | 0.4 | O |
| 1445 | Women in Nanotechnology. Women in Engineering and Science, 2020, , . | 0.4 | 1 |
| 1446 | Statics and Dynamics of Soft Wetting. Annual Review of Fluid Mechanics, 2020, 52, 285-308. | 25.0 | 140 |
| 1447 | Novel and cutting-edge applications for a solvent-responsive superoleophobic–superhydrophilic surface: Water-infused omniphobic surface and separating organic liquid mixtures. Chemical Engineering Journal, 2020, 381, 122629. | 12.7 | 43 |
| 1448 | Supercapillary Architectureâ€Activated Twoâ€Phase Boundary Layer Structures for Highly Stable and Efficient Flow Boiling Heat Transfer. Advanced Materials, 2020, 32, e1905117. | 21.0 | 38 |
| 1449 | Fabrication of transparent icephobic surfaces with self-reparability: Effect of structuring and thickness of the lubricant-elastomer layer. Applied Surface Science, 2020, 504, 144061. | 6.1 | 27 |
| 1450 | A contrastive investigation on anticorrosive performance of laser-induced super-hydrophobic and oil-infused slippery coatings. Progress in Organic Coatings, 2020, 138, 105313. | 3.9 | 30 |
| 1451 | Stable Omniphobic Anisotropic Covalently Grafted Slippery Surfaces for Directional Transportation of Drops and Bubbles. Advanced Functional Materials, 2020, 30, 1902686. | 14.9 | 58 |
| 1452 | Nanowall enclosed architecture infused by lubricant: A bio-inspired strategy for inhibiting bio-adhesion and bio-corrosion on stainless steel. Surface and Coatings Technology, 2020, 381, 125143. | 4.8 | 22 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1453 | Advanced Antiscaling Interfacial Materials toward Highly Efficient Heat Energy Transfer. Advanced Functional Materials, 2020, 30, 1904796. | 14.9 | 33 |
| 1454 | Recent progress in tactile sensors and their applications in intelligent systems. Science Bulletin, 2020, 65, 70-88. | 9.0 | 132 |
| 1455 | Shrub encroachment decreases soil inorganic carbon stocks in Mongolian grasslands. Journal of Ecology, 2020, 108, 678-686. | 4.0 | 20 |
| 1456 | LL1, a novel and highly selective STAT3 inhibitor, displays antiâ€colorectal cancer activities <i>in v</i> iro and <i>in vivo</i> . British Journal of Pharmacology, 2020, 177, 298-313. | 5.4 | 18 |
| 1457 | Fluorineâ€Free Slippery Liquidâ€Infused Porous Surfaces Prepared Using Hierarchically Porous Aluminum. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900836. | 1.8 | 10 |
| 1458 | Dropwise condensation on solid hydrophilic surfaces. Science Advances, 2020, 6, eaax0746. | 10.3 | 143 |
| 1459 | External Stimuli Responsive Liquidâ€Infused Surfaces Switching between Slippery and Nonslippery States: Fabrications and Applications. Advanced Functional Materials, 2020, 30, 1901130. | 14.9 | 80 |
| 1460 | A slippery oil-repellent hydrogel coating. Cellulose, 2020, 27, 2817-2827. | 4.9 | 33 |
| 1461 | Manipulating the hydrophobicity of DNA as a universal strategy for visual biosensing. Nature Protocols, 2020, 15, 316-337. | 12.0 | 19 |
| 1462 | Advanced functional surfaces through controlled damage and instabilities. Materials Horizons, 2020, 7, 366-396. | 12.2 | 20 |
| 1463 | UV-driven self-replenishing slippery surfaces with programmable droplet-guiding pathways. Journal of Materials Chemistry A, 2020, 8, 2481-2489. | 10.3 | 62 |
| 1464 | Ultrafast self-healing and highly transparent coating with mechanically durable icephobicity. Applied Materials Today, 2020, 19, 100542. | 4.3 | 40 |
| 1465 | A biomimic superhydrophobic and anti-blood adhesion coating. Progress in Organic Coatings, 2020, 140, 105498. | 3.9 | 15 |
| 1466 | Fluorine-Free Waterborne Coating for Environmentally Friendly, Robustly Water-Resistant, and Highly Breathable Fibrous Textiles. ACS Nano, 2020, 14, 1045-1054. | 14.6 | 131 |
| 1467 | All-organic fluorine-free superhydrophobic bulk material with mechanochemical robustness and photocatalytic functionality. Chemical Engineering Journal, 2020, 385, 123969. | 12.7 | 30 |
| 1468 | Design and preparation of bioinspired slippery liquid-infused porous surfaces with anti-icing performance via delayed phase inversion process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 588, 124384. | 4.7 | 28 |
| 1469 | Impact dynamics on SLIPS: Effects of liquid droplet's surface tension and viscosity. Applied Surface Science, 2020, 506, 144689. | 6.1 | 28 |
| 1470 | Anti-scaling performance of slippery liquid-infused porous surface (SLIPS) produced onto electrochemically-textured 1020 carbon steel. Surface and Coatings Technology, 2020, 382, 125160. | 4.8 | 32 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1471 | Electrospun nanofibre membrane based transparent slippery liquid-infused porous surfaces with icephobic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124177. | 4.7 | 27 |
| 1472 | Magnetoresponsive Surfaces for Manipulation of Nonmagnetic Liquids: Design and Applications. Advanced Functional Materials, 2020, 30, 1906507. | 14.9 | 41 |
| 1473 | Nature–Inspired self–cleaning surfaces: Mechanisms, modelling, and manufacturing. Chemical Engineering Research and Design, 2020, 155, 48-65. | 5.6 | 79 |
| 1474 | Cross-Linked Organic–Inorganic Hybrid Composite Films for One-Step Fabrication of Robust Superhydrophobic Surfaces. Journal of Nanoscience and Nanotechnology, 2020, 20, 1028-1032. | 0.9 | 2 |
| 1475 | Selective Liquid Sliding Surfaces with Springtailâ€Inspired Concave Mushroomâ€Like Micropillar Arrays. Small, 2020, 16, e1904612. | 10.0 | 25 |
| 1476 | Contact line instability of gravity driven thin films flowing down an inclined plane with wall slippage. Chemical Engineering Science, 2020, 214, 115418. | 3.8 | 5 |
| 1477 | Ultralow-Voltage-Driven Smart Control of Diverse Drop's Anisotropic Sliding by in Situ Switching Joule Heat on Paraffin-Infused Microgrooved Slippery Surface. ACS Applied Materials & Diversaces, 2020, 12, 1895-1904. | 8.0 | 31 |
| 1478 | Self-healing: A new skill unlocked for ultrasound transducer. Nano Energy, 2020, 68, 104348. | 16.0 | 22 |
| 1479 | Excellent fog droplets collector via an extremely stable hybrid hydrophobic-hydrophilic surface and Janus copper foam integrative system with hierarchical micro/nanostructures. Journal of Colloid and Interface Science, 2020, 561, 730-740. | 9.4 | 43 |
| 1480 | Slippery Liquid-Attached Surface for Robust Biofouling Resistance. ACS Biomaterials Science and Engineering, 2020, 6, 358-366. | 5.2 | 44 |
| 1481 | Fabrication of multifunctional wax infused porous PVDF film with switchable temperature response surface and anti corrosion property. Journal of Industrial and Engineering Chemistry, 2020, 82, 211-219. | 5.8 | 16 |
| 1482 | Droplet Selfâ€Propelling Control on Bioinspired Fiber in Low Temperature and High Humidity Environment. Advanced Materials Interfaces, 2020, 7, 1901183. | 3.7 | 5 |
| 1483 | Superhydrophobic and superamphiphobic smart surfaces., 2020,, 487-514. | | 2 |
| 1484 | A numerical analysis of air entrapment during droplet impact on an immiscible liquid film. International Journal of Multiphase Flow, 2020, 124, 103175. | 3.4 | 36 |
| 1485 | Fingering Instability of a Gravity-Driven Thin Film Flowing Down a Vertical Tube with Wall Slippage. Applied Sciences (Switzerland), 2020, 10, 76. | 2.5 | 0 |
| 1486 | Bidirectional motion of droplets on gradient liquid infused surfaces. Communications Physics, 2020, 3, . | 5.3 | 32 |
| 1487 | Fabrication of anti-icing surface with halloysite spherical microcapsule. Journal of Materials Research, 2020, 35, 2887-2896. | 2.6 | 2 |
| 1488 | Robust Hydrogel Coating with Oil-Repellent Property in Air, Water, and Oil Surroundings. ACS Applied Materials & Interfaces, 2020, 12, 49138-49145. | 8.0 | 65 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1489 | Enhanced Condensation on Liquid-Infused Nanoporous Surfaces by Vibration-Assisted Droplet Sweeping. ACS Nano, 2020, 14, 13367-13379. | 14.6 | 41 |
| 1490 | Antibody Micropatterned Lubricantâ€Infused Biosensors Enable Subâ€Picogram Immunofluorescence Detection of Interleukin 6 in Human Whole Plasma. Small, 2020, 16, e2003844. | 10.0 | 26 |
| 1491 | Fusion of Slippery Interfaces and Transistor-Inspired Architecture for Water Kinetic Energy Harvesting. Joule, 2020, 4, 2527-2531. | 24.0 | 55 |
| 1492 | Recent advances in superhydrophobic composites based on clay minerals. Applied Clay Science, 2020, 198, 105793. | 5.2 | 20 |
| 1493 | Superhydrophobic surfaces with flake-like structures and lubricant-infused composite surfaces to enhance anti-icing ability. Chemical Physics Letters, 2020, 758, 137903. | 2.6 | 10 |
| 1494 | Flow assurance issues in deep-water gas well testing and mitigation strategies with respect to gas hydrates deposition in flowlines—A review. Journal of Molecular Liquids, 2020, 318, 114203. | 4.9 | 28 |
| 1495 | Bioinspired and Biomimetic Design of Multilayered and Multiscale Structures., 2020,, 3-19. | | 1 |
| 1496 | A femtosecond Bessel laser for preparing a nontoxic slippery liquid-infused porous surface (SLIPS) for improving the hemocompatibility of NiTi alloys. Biomaterials Science, 2020, 8, 6505-6514. | 5.4 | 20 |
| 1497 | Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. Surface and Coatings Technology, 2020, 403, 126396. | 4.8 | 15 |
| 1498 | Fabrication of a Porous Slippery Icephobic Surface and Effect of Lubricant Viscosity on Anti-Icing Properties and Durability. Coatings, 2020, 10, 896. | 2.6 | 18 |
| 1499 | Antimicrobial Nanomaterials and Coatings: Current Mechanisms and Future Perspectives to Control the Spread of Viruses Including SARS-CoV-2. ACS Nano, 2020, 14, 12341-12369. | 14.6 | 268 |
| 1500 | Janus wood membranes for autonomous water transport and fog collection. Journal of Materials Chemistry A, 2020, 8, 22001-22008. | 10.3 | 57 |
| 1501 | Bioinspired Design for Energy Storage Devices., 2020,, 193-211. | | 0 |
| 1502 | Laboratory and Field Testing Assessment of Next Generation Biocide-Free, Fouling-Resistant Slippery Coatings. ACS Applied Polymer Materials, 2020, 2, 5147-5162. | 4.4 | 14 |
| 1503 | Recent trends in fabrication of nepenthes inspired SLIPs: Design strategies for self-healing efficient anti-icing surfaces. Surfaces and Interfaces, 2020, 21, 100678. | 3.0 | 26 |
| 1504 | Preparation of an amphiphobic and electrically conductive coating with mushroom structure on flexible polymer substrate. Vacuum, 2020, 180, 109579. | 3.5 | 5 |
| 1505 | Bioinspired Underwater Propulsors. , 2020, , 113-139. | | 6 |
| 1506 | Turning a Superhydrophilic Surface Weakly Hydrophilic: Topological Wetting States. Journal of the American Chemical Society, 2020, 142, 18491-18502. | 13.7 | 25 |

| # | Article | IF | CITATIONS |
|------|---|-------------|-----------|
| 1507 | Robust anti-icing superhydrophobic aluminum alloy surfaces by grafting fluorocarbon molecular chains. Applied Materials Today, 2020, 21, 100815. | 4.3 | 37 |
| 1508 | Surface engineered biomaterials and ureteral stents inhibiting biofilm formation and encrustation. Surface and Coatings Technology, 2020, 404, 126424. | 4.8 | 25 |
| 1509 | Aquatic Animals Operating at High Reynolds Numbers. , 2020, , 235-270. | | 1 |
| 1510 | Design, Fabrication, and Analysis of a Capillary Diode for Potential Application in Water–Oil Separation. ACS Applied Materials & Separ | 8.0 | 8 |
| 1511 | Facile Fabrication of Slippery Lubricant-Infused CuO-Coated Surfaces with Different Morphologies for Efficient Water Collection and Excellent Slippery Stability. Langmuir, 2020, 36, 8983-8992. | 3. 5 | 21 |
| 1512 | Tunable wetting surfaces with interacting cavities via femtosecond laser patterning and wet etching. Journal of Applied Physics, 2020, 128, . | 2.5 | 4 |
| 1513 | Directional Sliding Behavior of a Water Droplet on a Wedge-Shape Patterned Functional Surface. Journal of Physical Chemistry B, 2020, 124, 6905-6912. | 2.6 | 18 |
| 1514 | A review of dropwise condensation: Theory, modeling, experiments, and applications. International Journal of Heat and Mass Transfer, 2020, 160, 120172. | 4.8 | 87 |
| 1515 | Progress in Bioinspired Dry and Wet Gradient Materials from Design Principles to Engineering Applications. IScience, 2020, 23, 101749. | 4.1 | 20 |
| 1516 | Biomimetic Brushlike Slippery Coatings with Mechanically Robust, Self-Cleaning, and Icephobic Properties. ACS Applied Materials & Samp; Interfaces, 2020, 12, 54041-54052. | 8.0 | 39 |
| 1517 | Capillary Balancing: Designing Frost-Resistant Lubricant-Infused Surfaces. Nano Letters, 2020, 20, 8508-8515. | 9.1 | 45 |
| 1518 | Controlling Geometry and Flow Through Bacterial Bridges on Patterned Lubricantâ€Infused Surfaces (pLIS). Small, 2020, 16, 2004575. | 10.0 | 7 |
| 1519 | Contact-Angle Hysteresis and Contact-Line Friction on Slippery Liquid-like Surfaces. Langmuir, 2020, 36, 15094-15101. | 3.5 | 44 |
| 1520 | Challenges and Prospects of Bio-Inspired and Multifunctional Transparent Substrates and Barrier Layers for Optoelectronics. ACS Nano, 2020, 14, 16241-16265. | 14.6 | 27 |
| 1521 | An exploratory study on using Slippery-Liquid-Infused-Porous-Surface (SLIPS) for wind turbine icing mitigation. Renewable Energy, 2020, 162, 2344-2360. | 8.9 | 27 |
| 1522 | Wettability on Different Surfaces. , 2020, , . | | 0 |
| 1523 | Molecular-Structure-Induced Under-Liquid Dual Superlyophobic Surfaces. ACS Nano, 2020, 14, 14869-14877. | 14.6 | 37 |
| 1527 | Failure and Recovery of Droplet Nucleation and Growth on Damaged Nanostructures: A Molecular Dynamics Study. Langmuir, 2020, 36, 13716-13724. | 3.5 | 13 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1528 | Facile Nanoimprinting of Robust High-Aspect-Ratio Nanostructures for Human Cell Biomechanics. ACS Applied Bio Materials, 2020, 3, 8757-8767. | 4.6 | 7 |
| 1529 | Low Ice Adhesion Surfaces Based on Flexible Fluorinated Polymers with a Polynorbornene Backbone. ACS Applied Materials & Samp; Interfaces, 2020, 12, 53494-53502. | 8.0 | 10 |
| 1530 | Patterning a Superhydrophobic Area on a Facile Fabricated Superhydrophilic Layer Based on an Inkjet-Printed Water-Soluble Polymer Template. Langmuir, 2020, 36, 9952-9959. | 3.5 | 28 |
| 1531 | When Ultimate Adhesive Mechanism Meets Ultimate Antiâ€Fouling Surfacesâ€"Polydopamine Versus SLIPS: Which One Prevails?. Advanced Materials Interfaces, 2020, 7, 2000876. | 3.7 | 20 |
| 1532 | Single and multi-functional coating strategies for enhancing the biocompatibility and tissue integration of blood-contacting medical implants. Biomaterials, 2020, 258, 120291. | 11.4 | 72 |
| 1533 | Directed motion of two-component droplets on wedge-shaped composite copper surfaces without back-end pinning. Microfluidics and Nanofluidics, 2020, 24, 1. | 2.2 | 3 |
| 1534 | Static and dynamic behaviour of aqueous drops on thin lubricating fluid-coated slippery (LCS) surfaces. Bulletin of Materials Science, 2020, 43, 1. | 1.7 | 0 |
| 1535 | Fully Repairable Slippery Organogel Surfaces with Reconfigurable Paraffin-Based Framework for Universal Antiadhesion. ACS Applied Materials & Samp; Interfaces, 2020, 12, 39807-39816. | 8.0 | 7 |
| 1536 | A scope at antifouling strategies to prevent catheter-associated infections. Advances in Colloid and Interface Science, 2020, 284, 102230. | 14.7 | 55 |
| 1537 | Moth-Eye Mimicking Solid Slippery Glass Surface with Icephobicity, Transparency, and Self-Healing. ACS Nano, 2020, 14, 10198-10209. | 14.6 | 78 |
| 1538 | Liquid-based porous membranes. Chemical Society Reviews, 2020, 49, 7907-7928. | 38.1 | 89 |
| 1539 | Microbioreactors for Process Development and Cell-Based Screening Studies. Advances in Biochemical Engineering/Biotechnology, 2020, , 67-100. | 1.1 | 4 |
| 1540 | Facilely controllable synthesis of multi-functional aluminum/nickel/perfluorosilane composites for enhancing the thermal energy release stability and enhancing anti-wetting properties. Composites Science and Technology, 2020, 199, 108351. | 7.8 | 3 |
| 1541 | Field-Induced Wettability Gradients for No-Loss Transport of Oil Droplets on Slippery Surfaces. ACS Applied Materials & Samp; Interfaces, 2020, 12, 38723-38729. | 8.0 | 23 |
| 1542 | Dynamic Porous Pattern through Controlling Noncovalent Interactions in Polyelectrolyte Film for Sequential and Regional Encapsulation. ACS Applied Materials & Samp; Interfaces, 2020, 12, 42081-42088. | 8.0 | 8 |
| 1543 | Tuning surface topographies on biomaterials to control bacterial infection. Biomaterials Science, 2020, 8, 6840-6857. | 5.4 | 44 |
| 1544 | Oneâ€Step Fabrication of Universal Slippery Lubricated Surfaces. Advanced Materials Interfaces, 2020, 7, 2000305. | 3.7 | 26 |
| 1545 | Superwettability-based systems: Basic concepts, recent trends and future prospects for innovation in food engineering. Trends in Food Science and Technology, 2020, 104, 27-36. | 15.1 | 14 |

| # | Article | IF | Citations |
|------|--|-------------------|--------------|
| 1546 | Investigate on structure for transparent anti-icing surfaces. AIP Advances, 2020, 10, . | 1.3 | 11 |
| 1547 | Enzyme-Regulated Healable Polymeric Hydrogels. ACS Central Science, 2020, 6, 1507-1522. | 11.3 | 48 |
| 1548 | Study of wetting of the animal retinas by Water and organic liquids and its Implications for ophthalmology. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111265. | 5.0 | 5 |
| 1549 | Femtosecond laser-patterned slippery surfaces on PET for liquid patterning and blood resistance. Optics and Laser Technology, 2020, 132, 106469. | 4.6 | 8 |
| 1550 | Bio-inspired drag reduction: From nature organisms to artificial functional surfaces. Giant, 2020, 2, 100017. | 5.1 | 51 |
| 1551 | Highly stretchable and reliable graphene oxide-reinforced liquid gating membranes for tunable gas/liquid transport. Microsystems and Nanoengineering, 2020, 6, 43. | 7.0 | 24 |
| 1552 | Microskeletonâ€Nanofiller Composite with Mechanical Superâ€Robust Superhydrophobicity against Abrasion and Impact. Advanced Functional Materials, 2020, 30, 1910665. | 14.9 | 65 |
| 1553 | Intense shear induced caterpillar-like continuous hierarchical fiber enhanced poly(butylene) Tj ETQq1 1 0.784314 2020, 200, 108273. | rgBT /Ove 12.0 | erlock 10 Tf |
| 1554 | Cloaking Dynamics on Lubricantâ€Infused Surfaces. Advanced Materials Interfaces, 2020, 7, 2000983. | 3.7 | 24 |
| 1555 | Fabrication of Elastic Macroporous Polymers with Enhanced Oil Absorbability and Antiwaxing Performance. Langmuir, 2020, 36, 10794-10802. | 3.5 | 5 |
| 1556 | Localized Liquid Secretion from a Photopatterned Liquid-Crystal Polymer Skin. ACS Applied Polymer Materials, 2020, 2, 4071-4077. | 4.4 | 10 |
| 1557 | Fabrication of Ultralow Ice-Adhesion Slippery Liquid Infused Porous Surfaces on Aluminum Alloy (7075-T651). Coatings, 2020, 10, 1025. | 2.6 | 12 |
| 1558 | Interfacing of surfaces with gallium-based liquid metals – approaches for mitigation and augmentation of liquid metal adhesion on surfaces. Applied Materials Today, 2020, 21, 100868. | 4.3 | 27 |
| 1559 | Antiwetting and Antifouling Performances of Different Lubricant-Infused Slippery Surfaces. Langmuir, 2020, 36, 13396-13407. | 3.5 | 24 |
| 1560 | Toward Passive Defrosting with Heterogeneous Coatings. Matter, 2020, 3, 981-983. | 10.0 | 7 |
| 1561 | A comparison between superhydrophobic surfaces (SHS) and slippery liquid-infused porous surfaces (SLIPS) in application. Nanoscale, 2020, 12, 22398-22424. | 5.6 | 72 |
| 1562 | An ionic liquid-infused slippery surface for temperature stability, shear resistance and corrosion resistance. Journal of Materials Chemistry A, 2020, 8, 24075-24085. | 10.3 | 28 |
| 1564 | Bioinspired Design of Dental Functionally Graded Multilayer Structures. , 2020, , 140-166. | | 0 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1565 | Bionic Organs., 2020,, 167-192. | | 1 |
| 1566 | Bioinspired Design of Nanostructures. , 2020, , 212-232. | | O |
| 1567 | Flying of Insects. , 2020, , 271-299. | | 5 |
| 1568 | Bioinspired Building Envelopes., 2020,, 343-354. | | 0 |
| 1570 | Antibacterial infection and immune-evasive coating for orthopedic implants. Science Advances, 2020, 6, | 10.3 | 73 |
| 1571 | Underwater Superoleophobic Matrix-Formatted Liquid-Infused Porous Biomembranes for Extremely Efficient Deconstitution of Nanoemulsions. ACS Applied Materials & Samp; Interfaces, 2020, 12, 50996-51006. | 8.0 | 10 |
| 1572 | Lubricant-infused directly engraved nano-microstructures for mechanically durable endoscope lens with anti-biofouling and anti-fogging properties. Scientific Reports, 2020, 10, 17454. | 3.3 | 16 |
| 1573 | Human Cortical Bone as a Structural Material. , 2020, , 20-44. | | 0 |
| 1574 | Flow-driven collapse of lubricant-infused surfaces. Journal of Fluid Mechanics, 2020, 901, . | 3.4 | 15 |
| 1575 | Bioinspired liquid gating membrane-based catheter with anticoagulation and positionally drug release properties. Science Advances, 2020, 6, . | 10.3 | 36 |
| 1576 | Bamboo-Inspired Materials and Structures. , 2020, , 89-110. | | 5 |
| 1577 | Designing Nature-Inspired Liquid-Repellent Surfaces. , 2020, , 300-319. | | 1 |
| 1578 | Evaporation and Electrowetting of Sessile Droplets on Slippery Liquid-Like Surfaces and Slippery Liquid-Infused Porous Surfaces (SLIPS). Langmuir, 2020, 36, 11332-11340. | 3.5 | 24 |
| 1579 | Biomimetic and Soft Robotics. , 2020, , 320-342. | | O |
| 1580 | Ultrathin and Robust Hydrogel Coatings on Cardiovascular Medical Devices to Mitigate Thromboembolic and Infectious Complications. Advanced Healthcare Materials, 2020, 9, e2001116. | 7.6 | 53 |
| 1581 | Slippery liquidâ€infused porous surface via thermally induced phase separation for enhanced corrosion protection. Journal of Polymer Science, 2020, 58, 3031-3041. | 3.8 | 13 |
| 1582 | Superwettable Surface Engineering in Controlling Cell Adhesion for Emerging Bioapplications. Small Methods, 2020, 4, 2000573. | 8.6 | 40 |
| 1583 | Self-propelled droplet transport on shaped-liquid surfaces. Scientific Reports, 2020, 10, 14987. | 3.3 | 37 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 1584 | Factors controlling the pinning force of liquid droplets on liquid infused surfaces. Soft Matter, 2020, 16, 8114-8121. | 2.7 | 21 |
| 1585 | Continuous Directional Water Transport on Hydrophobic Slippery Ventral Skin of Lampropeltis pyromelana. Advanced Materials Interfaces, 2020, 7, 2000984. | 3.7 | 8 |
| 1586 | What Came First: The Helix or the H2O?. Matter, 2020, 3, 608-610. | 10.0 | 0 |
| 1587 | Liquid Crystal Polymeric Skins "Sweat―to Provide Real-Time Drug Delivery. Matter, 2020, 3, 606-608. | 10.0 | 1 |
| 1588 | Deterministic Lateral Displacement: Challenges and Perspectives. ACS Nano, 2020, 14, 10784-10795. | 14.6 | 97 |
| 1589 | Patterned, anti-fouling membrane with controllable wettability for ultrafast oil/water separation and liquid–liquid extraction. Chemical Communications, 2020, 56, 12045-12048. | 4.1 | 17 |
| 1590 | A lubricant-infused slip surface for drag reduction. Physics of Fluids, 2020, 32, . | 4.0 | 31 |
| 1591 | Continuous 3D printing from one single droplet. Nature Communications, 2020, 11, 4685. | 12.8 | 47 |
| 1592 | On the role of surface grooves in the reduction of pressure losses in heated channels. Physics of Fluids, 2020, 32, . | 4.0 | 20 |
| 1593 | Photopyroelectric microfluidics. Science Advances, 2020, 6, . | 10.3 | 76 |
| 1594 | Slippery liquid infused fluoropolymer coating for central lines to reduce catheter associated clotting and infections. Scientific Reports, 2020, 10, 14973. | 3.3 | 10 |
| 1595 | Bioinspired Design of Multilayered Composites. , 2020, , 45-88. | | 0 |
| 1596 | Liquid harvesting and transport on multiscaled curvatures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23436-23442. | 7.1 | 78 |
| 1597 | Directional liquid dynamics of interfaces with superwettability. Science Advances, 2020, 6, . | 10.3 | 146 |
| 1598 | Engineering materials with light: recent progress in digital light processing based 3D printing. Journal of Materials Chemistry C, 2020, 8, 13896-13917. | 5.5 | 87 |
| 1599 | Antifrosting Performance of a Superhydrophobic Surface by Optimizing the Surface Morphology. Langmuir, 2020, 36, 10156-10165. | 3.5 | 14 |
| 1600 | Biomimicking properties of cellulose nanofiber under ethanol/water mixture. Scientific Reports, 2020, 10, 21070. | 3.3 | 10 |
| 1601 | Designing Splicing Digital Microfluidics Chips Based on Polytetrafluoroethylene Membrane. Micromachines, 2020, 11, 1067. | 2.9 | 14 |

| # | Article | IF | CITATIONS |
|------|---|------------|--------------|
| 1602 | Hybrid Modification of Unsaturated Polyester Resins to Obtain Hydro- and Icephobic Properties. Processes, 2020, 8, 1635. | 2.8 | 8 |
| 1603 | Effect of Surface Microstructure on the Long-term Anti-bacterial Performance for Slippery Liquid Infused Porous Surfaces., 2020,,. | | 4 |
| 1604 | Snakeskin-Inspired Elastomers with Extremely Low Coefficient of Friction under Dry Conditions. ACS Applied Materials & Samp; Interfaces, 2020, 12, 57450-57460. | 8.0 | 14 |
| 1605 | Design and experimental studies of self-healable anti-corrosion coating: Passivation of metal surfaces by silicone oil impregnated porous oxides. Surface and Coatings Technology, 2020, 404, 126595. | 4.8 | 11 |
| 1608 | Synergistic chemical patterns on a hydrophilic slippery liquid infused porous surface (SLIPS) for water harvesting applications. Journal of Materials Chemistry A, 2020, 8, 25040-25046. | 10.3 | 30 |
| 1609 | Design and preparation of icephobic PDMS-based coatings by introducing an aqueous lubricating layer and macro-crack initiators at the ice-substrate interface. Progress in Organic Coatings, 2020, 147, 105737. | 3.9 | 35 |
| 1610 | A Biomimetic Approach to Increasing Soft Actuator Performance by Friction Reduction. Polymers, 2020, 12, 1120. | 4.5 | 4 |
| 1611 | Liquid flow and control without solid walls. Nature, 2020, 581, 58-62. | 27.8 | 80 |
| 1612 | Robust Slippery Liquid-Infused Porous Network Surfaces for Enhanced Anti-icing/Deicing Performance. ACS Applied Materials & Samp; Interfaces, 2020, 12, 25471-25477. | 8.0 | 98 |
| 1613 | Superhydrophobic photothermal icephobic surfaces based on candle soot. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11240-11246. | 7.1 | 220 |
| 1614 | Enhanced anti-icing properties of branched PDMS coatings with self-regulated surface patterns. Science China Technological Sciences, 2020, 63, 960-970. | 4.0 | 12 |
| 1615 | Recyclable Superhydrophobic, Antimoisture-Activated Carbon Pellets for Air and Water Purification. ACS Applied Materials & Discrete Superhydrophobic, Antimoisture-Activated Carbon Pellets for Air and Water Purification. | 8.0 | 21 |
| 1616 | Functionalized biomaterials to combat biofilms. Biomaterials Science, 2020, 8, 4052-4066. | 5.4 | 42 |
| 1617 | Life and death of liquid-infused surfaces: a review on the choice, analysis and fate of the infused liquid layer. Chemical Society Reviews, 2020, 49, 3688-3715. | 38.1 | 200 |
| 1618 | Bactericidal Lubricating Synthetic Materials for Three-Dimensional Additive Assembly with Controlled Mechanical Properties. ACS Applied Materials & Samp; Interfaces, 2020, 12, 26464-26475. | 8.0 | 3 |
| 1619 | Effect of slip on the contact-line instability of a thin liquid film flowing down a cylinder. Physical Review E, 2020, 101, 053108. | 2.1 | 7 |
| 1620 | Recent Developments and Practical Feasibility of Polymerâ€Based Antifouling Coatings. Advanced Functional Materials, 2020, 30, 2000936. | 14.9 | 358 |
| 1621 | Hydrophobic Properties of Poly(vinyl pivalate-co-1H,1H-perfluoro-4-methyl-3,6-dioxaoctyl) Tj ETQq1 1 0.784314 rş | gBT JOverl | ock 10 Tf 50 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1622 | Nonlinear theory of wetting on deformable substrates. Soft Matter, 2020, 16, 5157-5176. | 2.7 | 29 |
| 1623 | Atmosphereâ€Mediated Scalable and Durable Biphilicity on Rationally Designed Structured Surfaces. Advanced Materials Interfaces, 2020, 7, 2000475. | 3.7 | 29 |
| 1624 | Phonon-Induced Ratchet Motion of a Water Nanodroplet on a Supported Black Phosphorene. Journal of Physical Chemistry Letters, 2020, 11 , 4298-4304. | 4.6 | 13 |
| 1625 | Underwater Bubble and Oil Repellency of Biomimetic Pincushion and Plastron-Like Honeycomb Films. Langmuir, 2020, 36, 6365-6369. | 3.5 | 8 |
| 1626 | Magnetic field induced motion of water droplets and bubbles on the lubricant coated surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 597, 124773. | 4.7 | 12 |
| 1627 | Fabrication of Robust and Transparent Slippery Coating with Hot Water Repellency, Antifouling Property, and Corrosion Resistance. ACS Applied Materials & Interfaces, 2020, 12, 28645-28654. | 8.0 | 70 |
| 1628 | Buoyant particulate strategy for few-to-single particle-based plasmonic enhanced nanosensors. Nature Communications, 2020, 11, 2603. | 12.8 | 36 |
| 1629 | The recent advances in surface antibacterial strategies for biomedical catheters. Biomaterials Science, 2020, 8, 4095-4108. | 5.4 | 49 |
| 1630 | Highly efficient solar anti-icing/deicing <i>via</i> a hierarchical structured surface. Materials Horizons, 2020, 7, 2097-2104. | 12.2 | 108 |
| 1631 | Reconfigurable Surface with Photodefinable Physicochemical Properties for User-Designable Cell Scaffolds. ACS Applied Bio Materials, 2020, 3, 2230-2238. | 4.6 | 1 |
| 1632 | Dynamic Self-Repairing Hybrid Liquid-in-Solid Protective Barrier for Cementitious Materials. ACS Applied Materials & Samp; Interfaces, 2020, 12, 31922-31932. | 8.0 | 6 |
| 1633 | Microfluidic Printing of Slippery Textiles for Medical Drainage around Wounds. Advanced Science, 2020, 7, 2000789. | 11.2 | 58 |
| 1634 | High Performance Bubble Manipulation on Ferrofluid-Infused Laser-Ablated Microstructured Surfaces. Nano Letters, 2020, 20, 5513-5521. | 9.1 | 63 |
| 1635 | Covalently grafted liquids for transparent and omniphobic surfaces via thiol-ene click chemistry. Journal of Materials Science, 2020, 55, 12811-12825. | 3.7 | 22 |
| 1636 | Depletion of Lubricant from Nanostructured Oil-Infused Surfaces by Pendant Condensate Droplets. ACS Nano, 2020, 14, 8024-8035. | 14.6 | 68 |
| 1637 | Molecular Dynamics Simulations of Water Condensation on Surfaces with Tunable Wettability. Langmuir, 2020, 36, 7383-7391. | 3.5 | 27 |
| 1638 | Design and High-Resolution Characterization of Silicon Wafer-like Omniphobic Liquid Layers Applicable to Any Substrate. ACS Applied Materials & Samp; Interfaces, 2020, 12, 31933-31939. | 8.0 | 29 |
| 1639 | Antifouling slippery liquid-infused membrane for separation of water-in-oil emulsions. Journal of Membrane Science, 2020, 611, 118289. | 8.2 | 43 |

| # | Article | IF | CITATIONS |
|------|---|--------------|-----------|
| 1640 | Adaptive Wetting of Polydimethylsiloxane. Langmuir, 2020, 36, 7236-7245. | 3 . 5 | 50 |
| 1641 | Starch and Zein Biopolymers as a Sustainable Replacement for PFAS, Silicone Oil, and Plastic-Coated Paper. Industrial & Engineering Chemistry Research, 2020, 59, 12075-12084. | 3.7 | 36 |
| 1642 | Introduction to liquid composites. Soft Matter, 2020, 16, 5799-5800. | 2.7 | 4 |
| 1643 | Lotus Effect and Friction: Does Nonsticky Mean Slippery?. Biomimetics, 2020, 5, 28. | 3. 3 | 24 |
| 1644 | WO ₃ -Based Slippery Liquid-Infused Porous Surfaces with Long-Term Stability. ACS Applied Materials & Diterfaces, 2020, 12, 29767-29777. | 8.0 | 12 |
| 1645 | Lubricant-Impregnated Surfaces for Mitigating Asphaltene Deposition. ACS Applied Materials & Samp; Interfaces, 2020, 12, 28750-28758. | 8.0 | 5 |
| 1646 | Oil-triggered switchable wettability on patterned alternating air/lubricant-infused superamphiphobic surfaces. Journal of Materials Chemistry A, 2020, 8, 6647-6660. | 10.3 | 19 |
| 1647 | Mucus-Inspired Supramolecular Adhesives with Oil-Regulated Molecular Configurations and Long-Lasting Antibacterial Properties. ACS Applied Materials & Samp; Interfaces, 2020, 12, 16877-16886. | 8.0 | 34 |
| 1648 | Frost-free zone on macrotextured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6323-6329. | 7.1 | 51 |
| 1649 | Ultrafast Self-Propelled Directional Liquid Transport on the Pyramid-Structured Fibers with Concave Curved Surfaces. Journal of the American Chemical Society, 2020, 142, 6111-6116. | 13.7 | 42 |
| 1650 | Could petroleum work as lubricant oil on slippery lubricated surfaces to prevent inorganic scaling?. Heliyon, 2020, 6, e03469. | 3.2 | 2 |
| 1651 | Stable slippery coating with structure of tubes and pyramids for inhibition of corrosion induced by microbes and seawater. Surface and Coatings Technology, 2020, 388, 125596. | 4.8 | 14 |
| 1652 | Submicrometer-Sized Roughness Suppresses Bacteria Adhesion. ACS Applied Materials & Diterfaces, 2020, 12, 21192-21200. | 8.0 | 77 |
| 1653 | Effective permeability tensor of confined flows with wall grooves of arbitrary shape. Journal of Fluid Mechanics, 2020, 891, . | 3.4 | 4 |
| 1654 | Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. ACS Nano, 2020, 14, 4755-4766. | 14.6 | 52 |
| 1655 | Thermally Sprayed Coatings: Novel Surface Engineering Strategy Towards Icephobic Solutions. Materials, 2020, 13, 1434. | 2.9 | 18 |
| 1656 | Inner surface of <i>Nepenthes</i> slippery zone: ratchet effect of lunate cells causes anisotropic superhydrophobicity. Royal Society Open Science, 2020, 7, 200066. | 2.4 | 11 |
| 1657 | Thermoplastic, rubber-like marine antifouling coatings with micro-structures <i>via</i> mechanical embossing. Biofouling, 2020, 36, 138-145. | 2.2 | 14 |

| # | ARTICLE | IF | Citations |
|------|--|------|-----------|
| 1658 | High Temperature Durability of Oleoplaned Slippery Copper Surfaces. Langmuir, 2020, 36, 4135-4143. | 3.5 | 10 |
| 1659 | Evaporation-induced transport of a pure aqueous droplet by an aqueous mixture droplet. Physics of Fluids, 2020, 32, . | 4.0 | 23 |
| 1660 | Grafting Silicone at Room Temperature—a Transparent, Scratch-resistant Nonstick Molecular Coating. Langmuir, 2020, 36, 4416-4431. | 3.5 | 76 |
| 1661 | Recent Advances in Anti-inflammatory Strategies for Implantable Biosensors and Medical Implants. Biochip Journal, 2020, 14, 48-62. | 4.9 | 21 |
| 1662 | Noble Metals and Soft Bio-Inspired Nanoparticles in Retinal Diseases Treatment: A Perspective. Cells, 2020, 9, 679. | 4.1 | 34 |
| 1663 | Non-contact and liquid–liquid interfacing triboelectric nanogenerator for self-powered water/liquid level sensing. Nano Energy, 2020, 72, 104703. | 16.0 | 59 |
| 1664 | Compositing fluid infused in superhydrophobic Cu(OH)2 nanoneedle matrix to inhibit abiotic and microbiologically induced corrosion of Cu in seawater environment. Progress in Organic Coatings, 2020, 142, 105542. | 3.9 | 10 |
| 1665 | Effect of Ageing on the Structure and Properties of Model Liquid-Infused Surfaces. Langmuir, 2020, 36, 3461-3470. | 3.5 | 20 |
| 1666 | Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. Advanced Materials, 2020, 32, e1907505. | 21.0 | 202 |
| 1667 | Preparation of Polymeric Films of PVDMA–PEI Functionalized with Fatty Acids for Studying the Adherence and Proliferation of Langerhans β-Cells. ACS Omega, 2020, 5, 5249-5257. | 3.5 | 6 |
| 1668 | Surprising Lack of Influence on Water Droplet Motion by Hydrophilic Microdomains on Checkerboard-like Surfaces with Matched Contact Angle Hysteresis. Langmuir, 2020, 36, 7835-7843. | 3.5 | 13 |
| 1669 | Self-Powered Plastron Preservation and One-Step Molding of Semiactive Superhydrophobic Surfaces. Langmuir, 2020, 36, 8193-8198. | 3.5 | 15 |
| 1670 | Facile approach to design a stable, damage resistant, slippery, and omniphobic surface. RSC Advances, 2020, 10, 19157-19168. | 3.6 | 33 |
| 1671 | Bubble-Induced Rupture of Droplets on Hydrophobic and Lubricant-Impregnated Surfaces. Langmuir, 2020, 36, 8858-8864. | 3.5 | 3 |
| 1672 | Micro-/nanostructures meet anisotropic wetting: from preparation methods to applications. Materials Horizons, 2020, 7, 2566-2595. | 12.2 | 58 |
| 1673 | Evaporating droplets on oil-wetted surfaces: Suppression of the coffee-stain effect. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16756-16763. | 7.1 | 57 |
| 1674 | Directional Droplet Transport and Fog Removal on Textured Surfaces Using Liquid Dielectrophoresis. Journal of Microelectromechanical Systems, 2020, 29, 1002-1007. | 2.5 | 4 |
| 1675 | Interfacial Strategies for Smart Slippery Surfaces. Journal of Bionic Engineering, 2020, 17, 633-643. | 5.0 | 5 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1676 | A sunlight-responsive and robust anti-icing/deicing coating based on the amphiphilic materials. Chemical Engineering Journal, 2020, 402, 126161. | 12.7 | 78 |
| 1677 | Recent developments, challenges, and pathways to stable dropwise condensation: A perspective. Applied Physics Letters, 2020, 116, . | 3.3 | 83 |
| 1678 | Slippery liquid-infused porous surface (SLIPS) with superior liquid repellency, anti-corrosion, anti-icing and intensified durability for protecting substrates. Chemical Engineering Journal, 2020, 401, 126137. | 12.7 | 171 |
| 1679 | Facile preparation of a slippery oil-infused polymer surface for robust icephobicity. Progress in Organic Coatings, 2020, 148, 105849. | 3.9 | 13 |
| 1680 | A Selfâ€Cleaning Mucusâ€like and Hierarchical Ciliary Bionic Surface for Marine Antifouling. Advanced Engineering Materials, 2020, 22, 1901198. | 3.5 | 17 |
| 1681 | Intermediate wetting state at nano/microstructured surfaces. Soft Matter, 2020, 16, 3514-3521. | 2.7 | 47 |
| 1682 | Lowâ€Friction, Superhydrophobic, and Shapeâ€Memory Vulcanized Rubber Microspiked Structures. Advanced Engineering Materials, 2020, 22, 1901226. | 3.5 | 9 |
| 1683 | Copper-based nanoribbons fabricated on a copper substrate by a liquid-solid reaction and their corrosion performance. Materials Chemistry and Physics, 2020, 246, 122839. | 4.0 | 8 |
| 1684 | Meter-scale fabrication of water-driven triboelectric nanogenerator based on in-situ grown layered double hydroxides through a bottom-up approach. Nano Energy, 2020, 71, 104646. | 16.0 | 32 |
| 1685 | How Does Chemistry Influence Liquid Wettability on Liquid-Infused Porous Surface?. ACS Applied Materials & Samp; Interfaces, 2020, 12, 14531-14541. | 8.0 | 16 |
| 1686 | Durable lubricant-infused coating on a magnesium alloy substrate with anti-biofouling and anti-corrosion properties and excellent thermally assisted healing ability. Nanoscale, 2020, 12, 7700-7711. | 5.6 | 47 |
| 1687 | Versatile surface for solid–solid/liquid–solid triboelectric nanogenerator based on fluorocarbon liquid infused surfaces. Science and Technology of Advanced Materials, 2020, 21, 139-146. | 6.1 | 34 |
| 1689 | Green biolubricant infused slippery surfaces to combat marine biofouling. Journal of Colloid and Interface Science, 2020, 568, 185-197. | 9.4 | 59 |
| 1690 | Preparation of water-borne non-fluorinated anti-smudge surfaces and their applications. Progress in Organic Coatings, 2020, 142, 105581. | 3.9 | 10 |
| 1691 | Effect of Morphology Evolution on the Anticorrosion Performance of Superhydrophobic Surfaces and Lubricant-Infused Surfaces. ACS Sustainable Chemistry and Engineering, 2020, 8, 3170-3180. | 6.7 | 18 |
| 1692 | Flexible Functional Surface for Efficient Water Collection. ACS Applied Materials & Samp; Interfaces, 2020, 12, 12256-12263. | 8.0 | 30 |
| 1693 | Soft interface design for electrokinetic energy conversion. Soft Matter, 2020, 16, 2915-2927. | 2.7 | 36 |
| 1694 | A bioinspired lubricant infused surface with transparency, hot liquid boiling resistance and long-term stability for food applications. New Journal of Chemistry, 2020, 44, 4529-4537. | 2.8 | 12 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1695 | A Pragmatic Device Based on a Double‧ided Functional Structure for Efficient Water Harvesting. Global Challenges, 2020, 4, 1900094. | 3.6 | 8 |
| 1696 | Thickness of the Ice-Shedding Lubricant Layer in Equilibrium with an Underlying Cross-Linked Polymer Film. ACS Applied Polymer Materials, 2020, 2, 1369-1377. | 4.4 | 13 |
| 1697 | Brushed lubricant-impregnated surfaces (BLIS) for long-lasting high condensation heat transfer. Scientific Reports, 2020, 10, 2959. | 3.3 | 27 |
| 1698 | Evaporation dynamics of pure and binary mixture drops on dry and lubricant coated slippery surfaces. Journal of Colloid and Interface Science, 2020, 569, 244-253. | 9.4 | 14 |
| 1699 | Sliding of drops on mesoporous thin films. Physical Chemistry Chemical Physics, 2020, 22, 5915-5919. | 2.8 | 4 |
| 1700 | Microfabrication of re-entrant surface with hydrophobicity/oleophobicity for liquid foods. Scientific Reports, 2020, 10, 2250. | 3.3 | 10 |
| 1701 | What are the design principles, from the choice of lubricants and structures to the preparation method, for a stable slippery lubricant-infused porous surface?. Materials Horizons, 2020, 7, 1697-1726. | 12.2 | 96 |
| 1702 | Extreme Antiscaling Performance of Slippery Omniphobic Covalently Attached Liquids. ACS Applied Materials & Samp; Interfaces, 2020, 12, 12054-12067. | 8.0 | 52 |
| 1703 | Development of robust and superhydrophobic membranes to mitigate membrane scaling and fouling in membrane distillation. Journal of Membrane Science, 2020, 601, 117962. | 8.2 | 118 |
| 1704 | A novel slippery surface with enhanced stability and corrosion resistance. Progress in Organic Coatings, 2020, 142, 105563. | 3.9 | 18 |
| 1705 | A Bioinspired Slippery Surface with Stable Lubricant Impregnation for Efficient Water Harvesting. ACS Applied Materials & Samp; Interfaces, 2020, 12, 12373-12381. | 8.0 | 68 |
| 1706 | Thin-film model of droplet durotaxis. European Physical Journal: Special Topics, 2020, 229, 265-273. | 2.6 | 6 |
| 1707 | Durable ice-lubricating surfaces based on polydimethylsiloxane embedded silicone oil infused silica aerogel. Applied Surface Science, 2020, 512, 145728. | 6.1 | 48 |
| 1708 | Super-hydrophobic surfaces: Methodological considerations for physical design. Journal of Colloid and Interface Science, 2020, 568, 148-154. | 9.4 | 25 |
| 1709 | Durable anti-corrosive oil-impregnated porous surface of magnesium alloy by plasma electrolytic oxidation with hydrothermal treatment. Applied Surface Science, 2020, 509, 145361. | 6.1 | 32 |
| 1710 | 3D printing of bioinspired textured surfaces with superamphiphobicity. Nanoscale, 2020, 12, 2924-2938. | 5.6 | 54 |
| 1711 | A stimuli-responsive gel impregnated surface with switchable lipophilic/oleophobic properties. Soft Matter, 2020, 16, 1636-1641. | 2.7 | 6 |
| 1712 | Matchstick-like metal-organic framework-based superwetting materials for efficient multiphase liquid separation via filtration or adsorption. Separation and Purification Technology, 2020, 240, 116598. | 7.9 | 23 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1713 | Bioinspired Multifunctional Anti-icing Hydrogel. Matter, 2020, 2, 723-734. | 10.0 | 150 |
| 1714 | Processing supramolecular framework for free interconvertible liquid separation. Nature Communications, 2020, 11, 425. | 12.8 | 53 |
| 1716 | Biomimetic Superlyophobic Metallic Surfaces: Focusing on Their Fabrication and Applications. Journal of Bionic Engineering, 2020, 17 , 1 -33. | 5.0 | 32 |
| 1717 | Nanogenerators with Superwetting Surfaces for Harvesting Water/Liquid Energy. Advanced Functional Materials, 2020, 30, 1908252. | 14.9 | 103 |
| 1718 | Bioinspired surfaces with wettability: biomolecule adhesion behaviors. Biomaterials Science, 2020, 8, 1502-1535. | 5.4 | 89 |
| 1719 | Selfâ€Supplying Liquidity Oilâ€Adsorbed Slippery Smooth Surface for Both Liquid and Solid Repellency. Advanced Materials Interfaces, 2020, 7, 1901818. | 3.7 | 12 |
| 1720 | Enabling phase transition of infused lubricant in porous structure for exceptional oil/water separation. Journal of Hazardous Materials, 2020, 390, 122176. | 12.4 | 30 |
| 1721 | Metallic Liquid Gating Membranes. ACS Nano, 2020, 14, 2465-2474. | 14.6 | 30 |
| 1722 | Flourishing Selfâ€Healing Surface Materials: Recent Progresses and Challenges. Advanced Materials Interfaces, 2020, 7, 1901959. | 3.7 | 30 |
| 1723 | Multifunctional 3D Micro-Nanostructures Fabricated through Temporally Shaped Femtosecond Laser Processing for Preventing Thrombosis and Bacterial Infection. ACS Applied Materials & Emp; Interfaces, 2020, 12, 17155-17166. | 8.0 | 28 |
| 1724 | Interfacial Nanostructure of 2D Ti ₃ C ₂ /Graphene Quantum Dots Hybrid Multicoating for Ultralow Wear. Advanced Engineering Materials, 2020, 22, 1901369. | 3.5 | 34 |
| 1725 | Superhydrophobic coatings for corrosion protection of magnesium alloys. Journal of Materials Science and Technology, 2020, 52, 100-118. | 10.7 | 164 |
| 1726 | Hard Quasicrystalline Coatings Deposited by HVOF Thermal Spray to Reduce Ice Accretion in Aero-Structures Components. Coatings, 2020, 10, 290. | 2.6 | 28 |
| 1727 | Condensate droplet size distribution and heat transfer on hierarchical slippery lubricant infused porous surfaces. Applied Thermal Engineering, 2020, 176, 115386. | 6.0 | 36 |
| 1728 | Transparent organic/silica nanocomposite coating that is flexible, omniphobic, and harder than a 9H pencil. Chemical Engineering Journal, 2020, 396, 125211. | 12.7 | 44 |
| 1729 | Self-lubricating coatings via PDMS micro-gel dispersions. Progress in Organic Coatings, 2020, 146, 105705. | 3.9 | 7 |
| 1730 | Selected aspects of the state of the art in biomaterials for cardiovascular applications. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110986. | 5.0 | 13 |
| 1731 | Superior anti-icing strategy by combined sustainable liquid repellence and electro/photo-responsive thermogenesis of oil/MWNT composite. Journal of Materials Science and Technology, 2020, 49, 106-116. | 10.7 | 23 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1732 | Passive Removal of Highly Wetting Liquids and Ice on Quasi-Liquid Surfaces. ACS Applied Materials & Eamp; Interfaces, 2020, 12, 20084-20095. | 8.0 | 66 |
| 1733 | Slippery liquid-infused porous surfaces (SLIPSs): a perfect solution to both marine fouling and corrosion?. Journal of Materials Chemistry A, 2020, 8, 7536-7547. | 10.3 | 104 |
| 1734 | Rebound of self-lubricating compound drops. Science Advances, 2020, 6, eaay3499. | 10.3 | 48 |
| 1735 | Suppressing Evaporative Loss in Slippery Liquid-Infused Porous Surfaces (SLIPS) with Self-Suspended Perfluorinated Nanoparticles. Langmuir, 2020, 36, 5106-5111. | 3.5 | 12 |
| 1736 | Precursor-Film-Mediated Thermocapillary Motion of Low-Surface-Tension Microdroplets. Langmuir, 2020, 36, 5096-5105. | 3.5 | 6 |
| 1737 | High modulus, fluorine-free self-healing anti-smudge coatings. Progress in Organic Coatings, 2020, 145, 105703. | 3.9 | 19 |
| 1738 | Developments and Challenges in Selfâ€Healing Antifouling Materials. Advanced Functional Materials, 2020, 30, 1908098. | 14.9 | 110 |
| 1739 | Bioinspired Materials with Selfâ€Adaptable Mechanical Properties. Advanced Materials, 2020, 32, e1906970. | 21.0 | 49 |
| 1740 | Tattooing Plastics with Reversible and Irreversible Encryption. Advanced Science, 2020, 7, 1903785. | 11.2 | 11 |
| 1741 | Biomimetic lubricant-infused titania nanoparticle surfaces via layer-by-layer deposition to control biofouling. Applied Surface Science, 2020, 515, 146064. | 6.1 | 15 |
| 1742 | Improved dynamic stability of superomniphobic surfaces and droplet transport on slippery surfaces by dual-scale re-entrant structures. Chemical Engineering Journal, 2020, 394, 124871. | 12.7 | 31 |
| 1743 | Biomimetic partition structure infused by nano-compositing liquid to form bio-inspired self-healing surface for corrosion inhibition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 596, 124730. | 4.7 | 17 |
| 1744 | Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. Langmuir, 2020, 36, 4496-4502. | 3.5 | 7 |
| 1745 | Reliable and Robust Fabrication Rules for Springtail-Inspired Superomniphobic Surfaces. ACS Applied Materials & Samp; Interfaces, 2020, 12, 21120-21126. | 8.0 | 9 |
| 1746 | Food-Safe Chitosan–Zein Dual-Layer Coating for Water- and Oil-Repellent Paper Substrates. ACS Sustainable Chemistry and Engineering, 2020, 8, 6887-6897. | 6.7 | 50 |
| 1747 | Reducing Static and Impact Ice Adhesion with a Self-Lubricating Icephobic Coating (SLIC). Coatings, 2020, 10, 262. | 2.6 | 21 |
| 1748 | Bioinspired Superhydrophobic Surface Constructed from Hydrophilic Building Blocks: A Case Study of Core–Shell Polypyrrole-Coated Copper Nanoneedles. Coatings, 2020, 10, 347. | 2.6 | 5 |
| 1749 | Springtailâ€Inspired Superamphiphobic Ordered Nanohoodoo Arrays with Quasiâ€Doubly Reentrant Structures. Small, 2020, 16, e2000779. | 10.0 | 41 |

| # | Article | IF | CITATIONS |
|------|---|-------------|-----------|
| 1750 | Phosphonium Ionic Liquid-Infused Poly(vinyl chloride) Surfaces Possessing Potent Antifouling Properties. ACS Omega, 2020, 5, 7771-7781. | 3.5 | 14 |
| 1751 | Selfâ€Stratifying Porous Silicones with Enhanced Liquid Infusion and Protective Skin Layer for Biofouling Prevention. Advanced Materials Interfaces, 2021, 8, 2000359. | 3.7 | 12 |
| 1752 | Long-term deterioration of lubricant-infused nanoporous anodic aluminium oxide surface immersed in NaCl solution. Journal of Materials Science and Technology, 2021, 64, 57-65. | 10.7 | 14 |
| 1753 | <i>Salvinia</i> -like slippery surface with stable and mobile water/air contact line. National Science Review, 2021, 8, nwaa153. | 9.5 | 47 |
| 1754 | Molecular dynamics study of anisotropic behaviours of water droplet on textured surfaces with various energies. Molecular Physics, 2021, 119, e1785028. | 1.7 | 12 |
| 1755 | Directing Surface Functions by Inducing Ordered and Irregular Morphologies at Single and Twoâ€Tiered Length Scales. Advanced Engineering Materials, 2021, 23, 2001057. | 3.5 | 9 |
| 1756 | Multibioinspired Janus membranes with superwettable performance for unidirectional transportation and fog collection. Chemical Engineering Journal, 2021, 404, 126515. | 12.7 | 48 |
| 1757 | Novel antifouling polymer with self-cleaning efficiency as surface coating for protein analysis by electrophoresis. Talanta, 2021, 221, 121493. | 5. 5 | 12 |
| 1758 | Covalently attached liquids as protective coatings. Polymer International, 2021, 70, 701-709. | 3.1 | 5 |
| 1759 | Slippery shape memory polymer arrays with switchable isotropy/anisotropy and its application as a reprogrammable platform for controllable droplet motion. Chemical Engineering Journal, 2021, 403, 126356. | 12.7 | 35 |
| 1760 | Evaporation mediated translation and encapsulation of an aqueous droplet atop a viscoelastic liquid film. Journal of Colloid and Interface Science, 2021, 581, 334-349. | 9.4 | 7 |
| 1761 | Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. Journal of Colloid and Interface Science, 2021, 582, 301-311. | 9.4 | 39 |
| 1762 | Design novel three-dimensional network nanostructure for lubricant infused on titanium alloys towards long-term anti-fouling. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111375. | 5.0 | 12 |
| 1763 | Application of liquid-infused membranes to mitigate biofouling. Environmental Science: Water Research and Technology, 2021, 7, 68-77. | 2.4 | 15 |
| 1764 | Laminar drag reduction in microchannels with liquid infused textured surfaces. Chemical Engineering Science, 2021, 230, 116196. | 3.8 | 35 |
| 1765 | Novel multifunctional solid slippery surfaces with self-assembled fluorine-free small molecules. Chemical Engineering Journal, 2021, 404, 127064. | 12.7 | 10 |
| 1766 | Design of multi-scale textured surfaces for unconventional liquid harnessing. Materials Today, 2021, 43, 62-83. | 14.2 | 28 |
| 1767 | Polysiloxane as icephobic materials – The past, present and the future. Chemical Engineering Journal, 2021, 405, 127088. | 12.7 | 83 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1768 | Amphiphilically modified self-stratified siloxane-glycidyl carbamate coatings for anti-icing applications. Journal of Coatings Technology Research, 2021, 18, 83-97. | 2.5 | 10 |
| 1769 | Impact of compound drops: a perspective. Current Opinion in Colloid and Interface Science, 2021, 51, 101389. | 7.4 | 64 |
| 1770 | Nanofluid-infused slippery surface: Bioinspired coating on Zn with high corrosion inhibition performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 608, 125492. | 4.7 | 18 |
| 1771 | Dual-function antibacterial surfaces to resist and kill bacteria: Painting a picture with two brushes simultaneously. Journal of Materials Science and Technology, 2021, 70, 24-38. | 10.7 | 93 |
| 1772 | Silicone oil infused slippery candle soot surface for corrosion inhibition with anti-fouling and self-healing properties. Journal of Adhesion Science and Technology, 2021, 35, 1057-1071. | 2.6 | 14 |
| 1773 | Autonomous Selfâ€Healing Elastomers with Unprecedented Adhesion Force. Advanced Functional Materials, 2021, 31, 2006298. | 14.9 | 64 |
| 1774 | Superwetting Shape Memory Microstructure: Smart Wetting Control and Practical Application. Advanced Materials, 2021, 33, e2001718. | 21.0 | 73 |
| 1775 | Functional Liquid Crystal Polymer Surfaces with Switchable Topographies. Small Structures, 2021, 2, 2000107. | 12.0 | 14 |
| 1776 | Industrially viable method for producing all-polymer hydrophobic surfaces apt for slippery liquid-infused substrates. Applied Surface Science, 2021, 535, 147728. | 6.1 | 12 |
| 1777 | Slippery liquidâ€infused porous surfaces: The effect of oil on the water repellence of hydrophobic and superhydrophobic soils. European Journal of Soil Science, 2021, 72, 963-978. | 3.9 | 8 |
| 1778 | In-situ silica nanoparticle assembly technique to develop an omniphobic membrane for durable membrane distillation. Desalination, 2021, 499, 114832. | 8.2 | 53 |
| 1779 | The challenge of lubricant-replenishment on lubricant-impregnated surfaces. Advances in Colloid and Interface Science, 2021, 287, 102329. | 14.7 | 56 |
| 1780 | Creation of Topological Ultraslippery Surfaces for Droplet Motion Control. ACS Nano, 2021, 15, 2589-2599. | 14.6 | 93 |
| 1781 | Porous and reactive polymeric interfaces: an emerging avenue for achieving durable and functional bio-inspired wettability. Journal of Materials Chemistry A, 2021, 9, 824-856. | 10.3 | 24 |
| 1782 | Direct recovery of spilled oil using hierarchically porous oil scoop with capillary-induced anti-oil-fouling. Journal of Hazardous Materials, 2021, 410, 124549. | 12.4 | 10 |
| 1783 | Analytical model for drag reduction on liquid-infused structured non-wetting surfaces. Soft Matter, 2021, 17, 1388-1403. | 2.7 | 19 |
| 1784 | Disentangling the role of surface topography and intrinsic wettability in the prey capture mechanism of Nepenthes pitcher plants. Acta Biomaterialia, 2021, 119, 225-233. | 8.3 | 16 |
| 1785 | Calenderable supramolecular perfluorogels for facile fabrication of slippery coatings. Chemical Engineering Journal, 2021, 417, 127901. | 12.7 | 2 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 1786 | Reducing surface fouling against emulsified oils using CuO nanostructured surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125991. | 4.7 | 2 |
| 1787 | An autocollimator with a mid-infrared laser for angular measurement of rough surfaces. Precision Engineering, 2021, 67, 89-99. | 3.4 | 19 |
| 1788 | Anti-Icing Characteristics of PTFE Super Hydrophobic Coating on Titanium Alloy Surface. Journal of Alloys and Compounds, 2021, 860, 157907. | 5.5 | 28 |
| 1789 | Environment-responsive coatings with recoverable in-air superamphiphobicity and underwater superoleophobicity. Applied Surface Science, 2021, 541, 148474. | 6.1 | 6 |
| 1790 | Dynamic contact angle measurements on lubricant infused surfaces. Journal of Colloid and Interface Science, 2021, 586, 647-654. | 9.4 | 18 |
| 1791 | Modeling and optimization of hydrophobic surfaces for a two-phase closed thermosyphon. International Journal of Heat and Mass Transfer, 2021, 165, 120680. | 4.8 | 7 |
| 1792 | Immobilization of Goldâ€onâ€Carbon Catalysts Onto Perfluorocarbon Emulsion Droplets to Promote Oxygen Delivery in Aqueous Phase D â€Glucose Oxidation. ChemCatChem, 2021, 13, 196-201. | 3.7 | 3 |
| 1793 | Self-healing solid slippery surface with porous structure and enhanced corrosion resistance. Chemical Engineering Journal, 2021, 417, 128083. | 12.7 | 43 |
| 1794 | Magnetically responsive lubricant-infused porous surfaces with controllable lubricity and durable anti-icing performance. Surface and Coatings Technology, 2021, 406, 126742. | 4.8 | 17 |
| 1795 | Highly transparent, hot water and scratch resistant, lubricant-infused slippery surfaces developed from a mechanically-weak superhydrophobic coating. Chemical Engineering Journal, 2021, 416, 127809. | 12.7 | 44 |
| 1796 | Metallic skeleton promoted two-phase durable icephobic layers. Journal of Colloid and Interface Science, 2021, 587, 47-55. | 9.4 | 14 |
| 1797 | <i>Nepenthes</i> pitcher inspired isotropic/anisotropic polymer solid–liquid composite interface: preparation, function, and application. Materials Chemistry Frontiers, 2021, 5, 1716-1742. | 5.9 | 19 |
| 1798 | Is superhydrophobicity equal to underwater superoleophilicity? Hydrophilic wetting defects on a superhydrophobic matrix with switchable superdewetting in both air and water. Journal of Materials Chemistry A, 2021, 9, 1471-1479. | 10.3 | 16 |
| 1799 | Strategies for re-vascularization and promotion of angiogenesis in trauma and disease. Biomaterials, 2021, 269, 120628. | 11.4 | 32 |
| 1800 | Lipid incorporated synthetic hydrogels show cartilage-like lubrication. Science Bulletin, 2021, 66, 409-410. | 9.0 | 7 |
| 1801 | Efficient and economical approach for flexible photothermal icephobic copper mesh with robust superhydrophobicity and active deicing property. Soft Matter, 2021, 17, 1901-1911. | 2.7 | 22 |
| 1802 | Hierarchical WO3@Cu(OH)2 nanorod arrays grown on copper mesh with superwetting and self-cleaning properties for high-performance oil/water separation. Journal of Alloys and Compounds, 2021, 855, 157421. | 5.5 | 35 |
| 1803 | Effective Strategies for Droplet Transport on Solid Surfaces. Advanced Materials Interfaces, 2021, 8, 2001441. | 3.7 | 19 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1804 | Ultra-transparent slippery surface. Smart Materials in Medicine, 2021, 2, 38-45. | 6.7 | 10 |
| 1805 | Employing micro pyramidal holes and porous nanostructures for enhancing the durability of lubricant-infused surfaces in anti-icing. Surface and Coatings Technology, 2021, 405, 126568. | 4.8 | 24 |
| 1806 | Implementing Superhydrophobic Surfaces within Various Condensation Environments: A Review. Advanced Materials Interfaces, 2021, 8, 2001442. | 3.7 | 21 |
| 1807 | Antifouling Properties of Liquidâ€Infused Riblets Fabricated by Direct Contactless Microfabrication. Advanced Engineering Materials, 2021, 23, . | 3.5 | 5 |
| 1808 | Fabrication of biomimetic slippery liquidâ€infused porous surface on 5086 aluminum alloy with excellent antifouling performance. Surface and Interface Analysis, 2021, 53, 147-155. | 1.8 | 17 |
| 1809 | Electrohydrodynamic and Hydroelectric Effects at the Water–Solid Interface: from Fundamentals to Applications. Advanced Materials Interfaces, 2021, 8, 2000670. | 3.7 | 32 |
| 1810 | Solid–Liquid Composites for Soft Multifunctional Materials. Advanced Functional Materials, 2021, 31, | 14.9 | 68 |
| 1811 | Fluoroalkyl polyhedral oligomeric silsesquioxane initiated methylmethacrylate polymer to produce hydrophobic coatings by low fluorine content. Soft Materials, 2021, 19, 231-242. | 1.7 | 0 |
| 1812 | Stability and corrosion property of oil-infused hydrophobic silica nanoparticle coating. Surface Engineering, 2021, 37, 206-211. | 2.2 | 11 |
| 1813 | Anti-Wetting Polymeric Coatings. , 2021, , . | | 0 |
| 1814 | Slippery Liquid-Infused Porous Polymeric Surfaces Based on Natural Oil with Antimicrobial Effect. Polymers, 2021, 13, 206. | 4.5 | 13 |
| 1815 | Superhydrophobic, superamphiphobic and SLIPS materials as anti-corrosion and anti-biofouling barriers. New Journal of Chemistry, 2021, 45, 15170-15179. | 2.8 | 48 |
| 1816 | Different Approaches to Low-Wettable Materials for Freezing Environments: Design, Performance and Durability. Coatings, 2021, 11, 77. | 2.6 | 7 |
| 1817 | Research progress of environmentally friendly marine antifouling coatings. Polymer Chemistry, 2021, 12, 3702-3720. | 3.9 | 48 |
| 1818 | Patterned hydrothermal synthesis of TiO ₂ rods-array and its application to oil repellent surface in water. Transactions of the JSME (in Japanese), 2021, 87, 21-00257-21-00257. | 0.2 | 0 |
| 1819 | Apparent contact angle of drops on liquid infused surfaces: geometric interpretation. Soft Matter, 2021, 17, 9553-9559. | 2.7 | 16 |
| 1820 | Film coating by directional droplet spreading on fibers. Physical Review Fluids, 2021, 6, . | 2.5 | 6 |
| 1821 | Lubrication dynamics of swollen silicones to limit long term fouling and microbial biofilms. Soft Matter, 2021, 17, 936-946. | 2.7 | 15 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 1822 | Adhesion behaviors on four special wettable surfaces: natural sources, mechanisms, fabrications and applications. Soft Matter, 2021, 17, 4895-4928. | 2.7 | 19 |
| 1823 | Vapor-Induced Liquid Collection and Microfluidics on Superlyophilic Substrates. ACS Applied Materials & Samp; Interfaces, 2021, 13, 3454-3462. | 8.0 | 8 |
| 1824 | Bioinspired Unidirectional Liquid Transport Micro-nano Structures: A Review. Journal of Bionic Engineering, 2021, 18, 1-29. | 5.0 | 22 |
| 1825 | Enduring liquid repellency through slippery ionic liquid-infused organogels. Journal of Materials Chemistry A, 2021, 9, 2357-2366. | 10.3 | 10 |
| 1826 | Modulation of solid surface with desirable under-liquid wettability based on molecular hydrophilic–lipophilic balance. Chemical Science, 2021, 12, 6136-6142. | 7.4 | 17 |
| 1827 | Bioinspired Superoleophobic Materials for Oil–Water Separation. Environmental and Microbial Biotechnology, 2021, , 253-276. | 0.7 | 1 |
| 1828 | Bioinspired surfaces with special micro-structures and wettability for drag reduction: which surface design will be a better choice?. Nanoscale, 2021, 13, 3463-3482. | 5.6 | 40 |
| 1829 | Droplet evaporation-induced analyte concentration toward sensitive biosensing. Materials Chemistry Frontiers, 2021, 5, 5639-5652. | 5.9 | 26 |
| 1830 | Liquid-like Polymer Coating as a Promising Candidate for Reducing Electrode Contamination and Noise in Complex Biofluids. ACS Applied Materials & District Supplies (2021), 13, 4450-4462. | 8.0 | 15 |
| 1831 | Hydrogen Bond Association to Prepare Flame Retardant Polyvinyl Alcohol Film with High Performance. ACS Applied Materials & Samp; Interfaces, 2021, 13, 5508-5517. | 8.0 | 52 |
| 1832 | Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling―Emulsion Separation via Coalescence Demulsification. ACS Applied Materials & Lamp; Interfaces, 2021, 13, 4731-4739. | 8.0 | 36 |
| 1833 | Wettability of surfaces, nanoparticles, and biomimetic functional surfaces., 2021,, 79-116. | | O |
| 1834 | Sustainable, self-cleaning, transparent, and moisture/oxygen-barrier coating films for food packaging. Green Chemistry, 2021, 23, 2658-2667. | 9.0 | 53 |
| 1835 | The effects of bio-inspired micro/nano scale structures on anti-icing properties. Soft Matter, 2021, 17, 447-466. | 2.7 | 24 |
| 1836 | Photothermal slippery surfaces towards spatial droplet manipulation. Journal of Materials Chemistry A, 2021, 9, 16974-16981. | 10.3 | 27 |
| 1837 | Bioinspired Metal-Intermetallic Laminated Composites for the Fabrication of Superhydrophobic Surfaces with Responsive Wettability. ACS Applied Materials & Surfaces, 2021, 13, 5834-5843. | 8.0 | 10 |
| 1838 | Bioinspired photocatalytic hedgehog coating for super liquid repellency. Materials Chemistry Frontiers, 2021, 5, 4174-4181. | 5.9 | 6 |
| 1839 | Liquidâ€Infused Slippery Stainless Steel Surface Prepared by Alcoholâ€Assisted Femtosecond Laser Ablation. Advanced Materials Interfaces, 2021, 8, 2001334. | 3.7 | 18 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1840 | Laser Fabrication of Bioinspired Gradient Surfaces for Wettability Applications. Advanced Materials Interfaces, 2021, 8, 2001610. | 3.7 | 48 |
| 1841 | From innovation-as-usual towards unusual innovation: using nature as an inspiration. Journal of Innovation and Entrepreneurship, 2021, 10 , . | 4.0 | 4 |
| 1842 | Nanomechanical Insights into Versatile Polydopamine Wet Adhesive Interacting with Liquid-Infused and Solid Slippery Surfaces. ACS Applied Materials & Enterfaces, 2021, 13, 6941-6950. | 8.0 | 23 |
| 1844 | A hydrogen bond based self-healing superhydrophobic octadecyltriethoxysilaneâ^'lignocellulose/silica coating. Progress in Organic Coatings, 2021, 151, 106104. | 3.9 | 10 |
| 1846 | Depletion of lubricant impregnated in a cavity of lubricant-infused surface. Physics of Fluids, 2021, 33, | 4.0 | 11 |
| 1847 | Liquid-infused surfaces based on ZnO/Co3O4/SiO2 with omniphobicity and durable anti-corrosion properties. Surface and Coatings Technology, 2021, 407, 126772. | 4.8 | 9 |
| 1848 | Antifouling strategies for protecting bioelectronic devices. APL Materials, 2021, 9, . | 5.1 | 20 |
| 1849 | Recent progress in the anti-icing performance of slippery liquid-infused surfaces. Progress in Organic Coatings, 2021, 151, 106096. | 3.9 | 43 |
| 1850 | Semi-convertible Hydrogel Enabled Photoresponsive Lubrication. Matter, 2021, 4, 675-687. | 10.0 | 33 |
| 1851 | Self-lubricated anti-icing MOF coating with long-term durability. Progress in Organic Coatings, 2021, 151, 106089. | 3.9 | 7 |
| 1852 | Biomimetic antibiofouling oil infused honeycomb films fabricated using breath figures. Polymer Journal, 2021, 53, 713-717. | 2.7 | 8 |
| 1853 | A comparison of bioinspired slippery and superhydrophobic surfaces: Micro-droplet impact. Physics of Fluids, 2021, 33, . | 4.0 | 16 |
| 1854 | Biomimetic Slippery PDMS Film with Papillae-Like Microstructures for Antifogging and Self-Cleaning. Coatings, 2021, 11, 238. | 2.6 | 7 |
| 1855 | Fluid separation and network deformation in wetting of soft and swollen surfaces. Communications Materials, 2021, 2, . | 6.9 | 29 |
| 1856 | Lubricant Depletionâ€Resistant Slippery Liquidâ€Infused Porous Surfaces via Capillary Rise Lubrication of Nanowire Array. Advanced Materials Interfaces, 2021, 8, 2002058. | 3.7 | 12 |
| 1857 | Light-driven Locomotion of Underwater Bubbles on Ultrarobust Paraffin-impregnated Laser-ablated Fe ₃ O ₄ -doped Slippery Surfaces. ACS Applied Materials & amp; Interfaces, 2021, 13, 9272-9280. | 8.0 | 15 |
| 1858 | Hard yet Flexible Transparent Omniphobic GPOSS Coatings Modified with Perfluorinated Agents. ACS Applied Materials & Samp; Interfaces, 2021, 13, 10467-10479. | 8.0 | 38 |
| 1859 | Potential of slippery liquid infused porous surface coatings as flashover inhibitors on porcelain insulators in icing, contaminated, and harsh environments. Progress in Organic Coatings, 2021, 151, 106082. | 3.9 | 15 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1860 | Bacterial Superoleophobic Fibrous Matrices: A Naturally Occurring Liquid-Infused System for Oilâ€"Water Separation. Langmuir, 2021, 37, 2552-2562. | 3.5 | 12 |
| 1861 | Facile Fabrication of Novel Multifunctional Lubricant-Infused Surfaces with Exceptional Tribological and Anticorrosive Properties. ACS Applied Materials & Early Interfaces, 2021, 13, 6678-6687. | 8.0 | 34 |
| 1862 | Solar-assisted icephobicity down to $\hat{a}^{60}\hat{A}^{0}$ C with superhydrophobic selective surfaces. Cell Reports Physical Science, 2021, 2, 100384. | 5.6 | 43 |
| 1863 | Silicone nanofilaments grown on aircraft alloys for low ice adhesion. Surface and Coatings Technology, 2021, 410, 126971. | 4.8 | 13 |
| 1864 | Guiding light via slippery liquid-infused porous surfaces. Applied Physics Letters, 2021, 118, . | 3.3 | 5 |
| 1865 | Control of droplet evaporation on smooth chemical patterns. Physical Review Fluids, 2021, 6, . | 2.5 | 8 |
| 1866 | Hydrophobic/Oleophilic Structures Based on MacroPorous Silicon: Effect of Topography and Fluoroalkyl Silane Functionalization on Wettability. Nanomaterials, 2021, 11, 670. | 4.1 | 6 |
| 1867 | Relationship between the Omniphobic Properties and the Swelling Degree of SLIPS Coatings Based on Polymer Gel Thin Films. Doklady Physical Chemistry, 2021, 497, 28-33. | 0.9 | 2 |
| 1868 | Highâ€Resolution Patterned Functionalization of Slippery "Liquidâ€Like―Brush Surfaces via Microdropletâ€Confined Growth of Multifunctional Polydopamine Arrays. Advanced Functional Materials, 2021, 31, 2100447. | 14.9 | 22 |
| 1869 | Evaporation driven synthesis of supraparticles on liquid repellent surfaces. Journal of Industrial and Engineering Chemistry, 2021, 95, 170-181. | 5.8 | 7 |
| 1870 | Two-dimensional graphitic carbon nitride for membrane separation. Chinese Journal of Chemical Engineering, 2022, 42, 297-311. | 3.5 | 17 |
| 1871 | Recent Innovations in Bacterial Infection Detection and Treatment. ACS Infectious Diseases, 2021, 7, 695-720. | 3.8 | 106 |
| 1872 | On the use of transpiration patterns for reduction of pressure losses. Journal of Fluid Mechanics, 2021, 915, . | 3.4 | 10 |
| 1873 | Why Are Water Droplets Highly Mobile on Nanostructured Oil-Impregnated Surfaces?. ACS Applied Materials & Samp; Interfaces, 2021, 13, 15901-15909. | 8.0 | 23 |
| 1874 | Recent advances in microbial viability and self-healing performance in bacterial-based cementitious materials: A review. Construction and Building Materials, 2021, 274, 122094. | 7.2 | 39 |
| 1875 | Depletion of the Lubricant from Lubricant-Infused Surfaces due to an Air/Water Interface. Langmuir, 2021, 37, 3025-3037. | 3.5 | 25 |
| 1876 | Controlled Integration of Interconnected Pores under Polymeric Surfaces for Low Adhesion and Antiscaling Performance. ACS Applied Materials & Samp; Interfaces, 2021, 13, 13684-13692. | 8.0 | 10 |
| 1877 | Corrosion protection application of liquid-infused surface with self-healing via regional growth of layered double hydroxide films on aluminum alloy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125996. | 4.7 | 7 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1878 | A Universal Strategy for the Preparation of Dual Superlyophobic Surfaces in Oil–Water Systems. ACS Applied Materials & Diangle 11, 14759-14767. | 8.0 | 125 |
| 1879 | Liquid-repellent and self-repairing lubricant-grafted surfaces constructed by thiol-ene click chemistry using activated hollow silica as the lubricant reservoir. Journal of Colloid and Interface Science, 2021, 586, 279-291. | 9.4 | 23 |
| 1880 | Self-Propelled and Electrobraking Synergetic Liquid Manipulator toward Microsampling and Bioanalysis. ACS Applied Materials & Samp; Interfaces, 2021, 13, 14741-14751. | 8.0 | 17 |
| 1881 | How Frost Forms and Grows on Lubricated Micro- and Nanostructured Surfaces. ACS Nano, 2021, 15, 4658-4668. | 14.6 | 23 |
| 1882 | Dip-coating of Superhydrophobic Surface on Irregular Substrates for Dropwise Condensation. Journal of Bionic Engineering, 2021, 18, 387-397. | 5.0 | 7 |
| 1883 | Transparent and mechanically strong hydrogen-bonded polymer complex elastomers with improved self-healability under ambient conditions. Polymer, 2021, 218, 123461. | 3.8 | 4 |
| 1884 | Macroporous Superhydrophobic Coatings with Switchable Wettability Enabled by Smart Shape Memory Polymers. Advanced Materials Interfaces, 2021, 8, 2002111. | 3.7 | 12 |
| 1885 | A Review of Smart Lubricant-Infused Surfaces for Droplet Manipulation. Nanomaterials, 2021, 11, 801. | 4.1 | 17 |
| 1886 | Manipulating Dispersions of Magnetic Nanoparticles. Nano Letters, 2021, 21, 2699-2708. | 9.1 | 15 |
| 1887 | Robust Hybrid Omniphobic Surface for Stain Resistance. ACS Applied Materials & Amp; Interfaces, 2021, 13, 14562-14568. | 8.0 | 19 |
| 1888 | An improved multiphase lattice Boltzmann flux solver for the simulation of incompressible flow with large density ratio and complex interface. Physics of Fluids, 2021, 33, 033306. | 4.0 | 26 |
| 1889 | A Wettingâ€Enabledâ€Transfer (WET) Strategy for Precise Surface Patterning of Organohydrogels. Advanced Materials, 2021, 33, e2008557. | 21.0 | 36 |
| 1890 | Excellent fog harvesting performance of liquid-infused nano-textured 3D frame. Chemical Engineering Journal, 2021, 409, 128180. | 12.7 | 27 |
| 1891 | Biomimetic surface coatings for marine antifouling: Natural antifoulants, synthetic polymers and surface microtopography. Science of the Total Environment, 2021, 766, 144469. | 8.0 | 114 |
| 1892 | Liquidâ€Based Adaptive Structural Materials. Advanced Materials, 2021, 33, e2005664. | 21.0 | 34 |
| 1893 | Solar anti-icing surface with enhanced condensate self-removing at extreme environmental conditions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 63 |
| 1894 | Surface adhesion of back-illuminated ultrafast laser-treated polymers. Physical Review Materials, 2021, 5, . | 2.4 | 1 |
| 1895 | Overcoming Limitations in Surface Geometryâ€Driven Bubble Transport: Bidirectional and Unrestricted Movement of an Underwater Gas Bubble Using a Magnetocontrollable Nonwetting Surface. Advanced Functional Materials, 2021, 31, 2101970. | 14.9 | 25 |

| # | Article | IF | CITATIONS |
|------|--|--------------|-----------|
| 1896 | Roughness on liquid-infused surfaces induced by capillary waves. Journal of Fluid Mechanics, 2021, 915, . | 3.4 | 11 |
| 1897 | Preparation and Application of ZIF-8 Thin Layers. Applied Sciences (Switzerland), 2021, 11, 4041. | 2.5 | 6 |
| 1898 | Transparent and Robust Amphiphobic Surfaces Exploiting Nanohierarchical Surface-grown Metal–Organic Frameworks. Nano Letters, 2021, 21, 3480-3486. | 9.1 | 20 |
| 1899 | Emerging Trends in Immunomodulatory Nanomaterials Toward Cancer Therapy. Synthesis Lectures on Biomedical Engineering, 2021, 16, i-84. | 0.1 | 0 |
| 1900 | Fabrication of slippery liquid-infused porous surfaces for anti-fouling applications. Japanese Journal of Applied Physics, 2021, 60, SCCJ04. | 1.5 | 5 |
| 1901 | Skinâ€Inspired Doubleâ€Hydrophobicâ€Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. Advanced Functional Materials, 2021, 31, 2102433. | 14.9 | 96 |
| 1902 | Elastohydrodynamic friction of robotic and human fingers on soft micropatterned substrates. Nature Materials, 2021, 20, 1707-1711. | 27.5 | 33 |
| 1903 | Light-induced manipulation of passive and active microparticles. European Physical Journal E, 2021, 44, 50. | 1.6 | 13 |
| 1904 | Synthesis of a novel superamphiphobic coating with a hierarchical three-dimensional structure inspired by bird's nest. Applied Clay Science, 2021, 204, 106031. | 5 . 2 | 8 |
| 1905 | Rose Pistil Stigma: Hierarchical Superhydrophobic Surfaces with Hydrophilic Microtips for Microdroplet Manipulation. Langmuir, 2021, 37, 4129-4136. | 3.5 | 8 |
| 1906 | Hydrophilic slippery surface enabled coarsening effect for rapid water harvesting. Cell Reports Physical Science, 2021, 2, 100387. | 5.6 | 37 |
| 1907 | Spontaneous Directional Selfâ€Cleaning on the Feathers of the Aquatic Bird <i>Anser cygnoides domesticus</i> Induced by a Transient Superhydrophilicity. Advanced Functional Materials, 2021, 31, 2010634. | 14.9 | 25 |
| 1908 | Programmable droplet actuating platform using liquid dielectrophoresis. Journal of Micromechanics and Microengineering, 2021, 31, 055014. | 2.6 | 13 |
| 1909 | Light-Designed Shark Skin-Mimetic Surfaces. Nano Letters, 2021, 21, 5500-5507. | 9.1 | 15 |
| 1910 | Spraying layer-by-layer assembly of tannin-Fe3+ and polyethyleneimine for antibacterial coating. Colloids and Interface Science Communications, 2021, 42, 100422. | 4.1 | 20 |
| 1911 | A Review of Ice Protection Techniques for Structures in the Arctic and Offshore Harsh Environments. Journal of Offshore Mechanics and Arctic Engineering, 2021, 143, . | 1.2 | 4 |
| 1912 | A bio-inspired method to fabricate the substrate-independent Janus membranes with outstanding floatability for precise oil/water separation. Bulletin of Materials Science, 2021, 44, 1. | 1.7 | 4 |
| 1913 | Superamphiphilic TiO ₂ Composite Surface for Protein Antifouling. Advanced Materials, 2021, 33, e2003559. | 21.0 | 32 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 1914 | Liquid-Infused Microgrooved Slippery Surface Ablated by One-Step Laser Irradiation for Underwater Bubble Directional Manipulation and Anisotropic Spreading. Micromachines, 2021, 12, 555. | 2.9 | 2 |
| 1915 | Slippery liquid-infused porous surface based on MOFs with excellent stability. Chemical Physics Letters, 2021, 771, 138470. | 2.6 | 6 |
| 1916 | Dual Surface Architectonics for Directed Selfâ€Assembly of Ultrahighâ€Resolution Electronics. Small, 2021, 17, e2101754. | 10.0 | 10 |
| 1917 | Dynamic manipulation of droplets using mechanically tunable microtextured chemical gradients. Nature Communications, 2021, 12, 3114. | 12.8 | 29 |
| 1918 | Assessment of biogrowth assemblages with depth in a seawater intake system of a coastal power station. Biofouling, 2021, 37, 506-520. | 2.2 | 3 |
| 1919 | Lubricant-Infused Surfaces for Low-Surface-Tension Fluids: The Extent of Lubricant Miscibility. ACS Applied Materials & Description (2011) (13, 23121-23133). | 8.0 | 22 |
| 1920 | Bioinspired Omniphobic Microchamber Structure. Advanced Materials Interfaces, 2021, 8, 2100027. | 3.7 | 4 |
| 1921 | A Oneâ€Pot Universal Approach to Fabricate Lubricantâ€Infused Slippery Surfaces on Solid Substrates. Advanced Functional Materials, 2021, 31, 2101090. | 14.9 | 45 |
| 1922 | Smart Bionic Surfaces with Switchable Wettability and Applications. Journal of Bionic Engineering, 2021, 18, 473-500. | 5.0 | 14 |
| 1923 | Brushable Lubricant-Infused Porous Coating with Enhanced Stability by One-Step Phase Separation. ACS Applied Materials & Drugo (1988) amp; Interfaces, 2021, 13, 23134-23141. | 8.0 | 13 |
| 1924 | Directional Droplet Transport on Functional Surfaces with Superwettabilities. Advanced Materials Interfaces, 2021, 8, 2100043. | 3.7 | 41 |
| 1925 | Influence of Surface Texture on the Variation of Electrokinetic Streaming Potentials. Langmuir, 2021, 37, 6736-6743. | 3.5 | 4 |
| 1926 | Reducing the Ñontact angle hysteresis of thin polymer films by oil impregnation in supercritical carbon dioxide. Progress in Organic Coatings, 2021, 154, 106202. | 3.9 | 5 |
| 1927 | Liquid-like polymer-based self-cleaning coating for effective prevention of liquid foods contaminations. Journal of Colloid and Interface Science, 2021, 589, 327-335. | 9.4 | 25 |
| 1928 | Biomimetic modification of freezing facility surfaces to prevent icing and frosting during freezing for the food industry. Trends in Food Science and Technology, 2021, 111, 581-594. | 15.1 | 23 |
| 1929 | Ultrathin Diamond Nanofilmsâ€"Development, Challenges, and Applications. Small, 2021, 17, e2007529. | 10.0 | 61 |
| 1930 | Dynamically oleophobic epoxy coating with surface enriched in silicone. Progress in Organic Coatings, 2021, 154, 106170. | 3.9 | 9 |
| 1931 | Reed leaf-inspired anisotropic slippery lubricant-infused surface for water collection and bubble transportation. Chemical Engineering Journal, 2021, 411, 128495. | 12.7 | 30 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 1932 | Recent advances in slippery liquid-infused surfaces with unique properties inspired by nature. Bio-Design and Manufacturing, 2021, 4, 506-525. | 7.7 | 35 |
| 1933 | The fluorine-free coating has excellent hydrophobic and oleophobic properties for porous cellulose-based materials. Cellulose, 2021, 28, 6133. | 4.9 | 12 |
| 1934 | Brush-like organic-inorganic hybrid polysiloxane surface with omniphobicity and extreme durability. Progress in Organic Coatings, 2021, 154, 106171. | 3.9 | 11 |
| 1935 | Oneâ€Step Synthesis of a Durable and Liquidâ€Repellent Poly(dimethylsiloxane) Coating. Advanced Materials, 2021, 33, e2100237. | 21.0 | 77 |
| 1936 | Cloaked Droplets on Lubricant-Infused Surfaces: Union of Constant Mean Curvature Interfaces Dictated by Thin-Film Tension. Langmuir, 2021, 37, 6601-6612. | 3.5 | 15 |
| 1937 | Droplet Mobility on Slippery Lubricant Impregnated and Superhydrophobic Surfaces under the Effect of Air Shear Flow. Langmuir, 2021, 37, 6278-6291. | 3.5 | 12 |
| 1938 | Substrateâ€Independent Design of Liquidâ€Infused Slippery Surfaces via Musselâ€Inspired Chemistry. Advanced Materials Interfaces, 2021, 8, 2100156. | 3.7 | 8 |
| 1939 | Effect of temperature on the friction and wear performance of porous oil-containing polyimide. Tribology International, 2021, 157, 106891. | 5.9 | 34 |
| 1940 | Slippery liquid-infused porous surfaces with inclined microstructures to enhance durable anti-biofouling performances. Colloids and Surfaces B: Biointerfaces, 2021, 202, 111667. | 5.0 | 19 |
| 1941 | Expanding Biomaterial Surface Topographical Design Space through Natural Surface Reproduction. Advanced Materials, 2021, 33, e2102084. | 21.0 | 16 |
| 1942 | Stimuli-responsive surfaces for switchable wettability and adhesion. Journal of the Royal Society Interface, 2021, 18, 20210162. | 3.4 | 38 |
| 1943 | Fabrication of Frogâ€Skinâ€Inspired Slippery Antibiofouling Coatings Through Degradable Block Copolymer Wrinkling. Advanced Functional Materials, 2021, 31, 2104173. | 14.9 | 28 |
| 1944 | High-Performance Bio-Based Polyurethane Antismudge Coatings Using Castor Oil-Based Hyperbranched Polyol as Superior Cross-Linkers. ACS Applied Polymer Materials, 2021, 3, 3612-3622. | 4.4 | 33 |
| 1945 | Multiple Wetting–Dewetting States of a Water Droplet on Dual-Scale Hierarchical Structured Surfaces. Jacs Au, 2021, 1, 955-966. | 7.9 | 3 |
| 1946 | A Superhydrophobic Selfâ€Cleaning and Antiâ€icing Aluminum Sheet Fabricated by Alkaline Solution. Advanced Engineering Materials, 2021, 23, 2100347. | 3.5 | 9 |
| 1947 | Anti-icing approach on flexible slippery microstructure thin-film. Cold Regions Science and Technology, 2021, 186, 103280. | 3.5 | 7 |
| 1948 | Light-responsive and corrosion-resistant gas valve with non-thermal effective liquid-gating positional flow control. Light: Science and Applications, 2021, 10, 127. | 16.6 | 33 |
| 1949 | Longâ€Term Superâ€Amphiphilic Shapedâ€Fiber with Multiâ€Scale Grooved Structures: Toward Spontaneous Selfâ€Cleaning. Advanced Functional Materials, 2021, 31, 2102877. | 14.9 | 8 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1950 | Corrosion derived lubricant infused surfaces on X65 carbon steel for improved inorganic scaling performance. Journal of Adhesion Science and Technology, 0, , 1-22. | 2.6 | 2 |
| 1951 | A thermal-driven self-replenishing slippery coating. Surfaces and Interfaces, 2021, 24, 101022. | 3.0 | 8 |
| 1952 | Viscous Oil De-Wetting Surfaces Based on Robust Superhydrophilic Barium Sulfate Nanocoating. ACS Applied Materials & Samp; Interfaces, 2021, 13, 27674-27686. | 8.0 | 13 |
| 1953 | Transparent Organogel Films Showing Extremely Efficient and Durable Anti-Icing Performance. ACS Applied Materials & Diverge Company (1988) Applied Materia | 8.0 | 47 |
| 1954 | Toward a Better Regeneration through Implantâ€Mediated Immunomodulation: Harnessing the Immune Responses. Advanced Science, 2021, 8, e2100446. | 11.2 | 71 |
| 1955 | Research and applications of drag reduction in thermal equipment: A review. International Journal of Heat and Mass Transfer, 2021, 172, 121152. | 4.8 | 21 |
| 1956 | WO3-based slippery coatings with long-term stability for efficient fog harvesting. Journal of Colloid and Interface Science, 2021, 591, 418-428. | 9.4 | 30 |
| 1957 | Superhydrophobic Surface and Lubricantâ€Infused Surface: Implementing Two Extremes on Electrodeposited Niï₺¿TiO ₂ Surface to Drive Optimal Wettability Regimes for Droplets' Multifunctional Behaviors. Advanced Engineering Materials, 2021, 23, 2100266. | 3.5 | 8 |
| 1959 | Reflected Laser Interferometry: A Versatile Tool to Probe Condensation of Low-Surface-Tension Droplets. Langmuir, 2021, 37, 8073-8082. | 3.5 | 6 |
| 1960 | Liquid gating technology. Pure and Applied Chemistry, 2021, 93, 1353-1370. | 1.9 | 17 |
| 1961 | Fog Collection Based on Secondary Electrohydrodynamic-Induced Hybrid Structures with Anisotropic Hydrophilicity. ACS Applied Materials & Samp; Interfaces, 2021, 13, 27575-27585. | 8.0 | 9 |
| 1962 | Coupling droplets/bubbles with a liquid film for enhancing phase-change heat transfer. IScience, 2021, 24, 102531. | 4.1 | 8 |
| 1963 | Dropwise condensation of low surface tension fluids on lubricant-infused surfaces: Droplet size distribution and heat transfer. International Journal of Heat and Mass Transfer, 2021, 172, 121149. | 4.8 | 34 |
| 1964 | Porous Layer-by-Layer Films Assembled Using Polyelectrolyte Blend to Control Wetting Properties. Polymers, 2021, 13, 2116. | 4.5 | 5 |
| 1965 | Anti-icing efficiency on bio-inspired slippery elastomer surface. Materials Chemistry and Physics, 2021, 265, 124502. | 4.0 | 10 |
| 1966 | ePTFE functionalization for medical applications. Materials Today Chemistry, 2021, 20, 100412. | 3.5 | 21 |
| 1967 | A Lubricated Nonimmunogenic Neural Probe for Acute Insertion Trauma Minimization and Longâ∈Term Signal Recording. Advanced Science, 2021, 8, e2100231. | 11.2 | 24 |
| 1968 | Facile fabrication of fluorine-free slippery lubricant-infused cerium stearate surfaces for marine antifouling and anticorrosion application. Surface and Coatings Technology, 2021, 415, 127136. | 4.8 | 23 |

| # | Article | IF | CITATIONS |
|------|--|-------------|-----------|
| 1969 | Magnetism-Actuated Superhydrophobic Flexible Microclaw: From Spatial Microdroplet Maneuvering to Cross-Species Control. ACS Applied Materials & (2021, 13, 35165-35172). | 8.0 | 9 |
| 1970 | Research Progress on Corrosion Resistance of Magnesium Alloys with Bio-inspired Water-repellent Properties: A Review. Journal of Bionic Engineering, 2021, 18, 735-763. | 5.0 | 18 |
| 1971 | Elucidating the Mechanism of Condensation-Mediated Degradation of Organofunctional Silane Self-Assembled Monolayer Coatings. ACS Applied Materials & Self-Assembled Monolayer Coatings. ACS Applied Materials & Self-Assembled Monolayer Coatings. | 8.0 | 30 |
| 1972 | A Review on the Current Status of Icing Physics and Mitigation in Aviation. Aerospace, 2021, 8, 188. | 2.2 | 35 |
| 1973 | Drops Sliding on Non-SLIPS Structures. Langmuir, 2021, 37, 9053-9058. | 3. 5 | 3 |
| 1974 | Bioinspired Oil-Infused Slippery Surfaces with Water and Ion Barrier Properties. ACS Applied Materials & Lamp; Interfaces, 2021, 13, 33464-33476. | 8.0 | 10 |
| 1975 | Discriminatory Detection of ssDNA by Surface-Enhanced Raman Spectroscopy (SERS) and Tree-Based Support Vector Machine (Tr-SVM). Analytical Chemistry, 2021, 93, 9319-9328. | 6.5 | 30 |
| 1976 | Functional fluorination agents for opposite extreme wettability coatings with robustness, water splash inhibition, and controllable oil transport. Chemical Engineering Journal, 2021, 415, 128895. | 12.7 | 14 |
| 1977 | Modeling of Wetting Transition of Liquid Metals on Organic Liquid Surfaces. Langmuir, 2021, 37, 9429-9438. | 3.5 | 8 |
| 1978 | Slippery surfaces: A decade of progress. Physics of Fluids, 2021, 33, . | 4.0 | 43 |
| 1979 | A mechanically robust slippery surface with â€~corn-like' structures fabricated by in-situ growth of TiO2 on attapulgite. Chemical Engineering Journal, 2021, 415, 128953. | 12.7 | 40 |
| 1980 | An engineering-oriented approach to construct rough micro/nano-structures for anticorrosion and antifouling application. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 621, 126590. | 4.7 | 15 |
| 1981 | Nanotextured Surfaces Lead to Differential Wettability of Compound Droplets. Advanced Materials Interfaces, 2021, 8, 2100714. | 3.7 | 0 |
| 1982 | CHá»NG ÄÓNG BÄ,NG TRÊN CÀ BỀ MẶT SỬ Dá»NG KHÃI NIỆM SLIPS (Slippery Liquid-Infused Porous s HỀ, 2021, 7, 14-21. | surfaces). | Khoa |
| 1983 | Designing a Highly Stable Slippery Organogel on Q235 Carbon Steel for Inhibiting Microbiologically Influenced Corrosion. ACS Applied Bio Materials, 2021, 4, 6056-6064. | 4.6 | 12 |
| 1984 | Condensation frosting and passive anti-frosting. Cell Reports Physical Science, 2021, 2, 100474. | 5.6 | 35 |
| 1985 | A critical review on surface modifications mitigating dairy fouling. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 4324-4366. | 11.7 | 9 |
| 1986 | Recent Progress of Bioinspired Scalephobic Surfaces with Specific Barrier Layers. Langmuir, 2021, 37, 8639-8657. | 3.5 | 15 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 1987 | lon beam joining of ceramic and carbon-based nanostructures. Applied Surface Science, 2021, 554, 149616. | 6.1 | 2 |
| 1988 | Nanoscale Coatings Derived from Fluoroalkyl and PDMS Alkoxysilanes on Rough Aluminum Surfaces for Improved Durability and Anti-Icing Properties. ACS Applied Nano Materials, 2021, 4, 7493-7501. | 5.0 | 26 |
| 1989 | Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. Langmuir, 2021, 37, 10071-10078. | 3.5 | 31 |
| 1990 | Functional surface microstructures inspired by nature â€" From adhesion and wetting principles to sustainable new devices. Progress in Materials Science, 2021, 120, 100823. | 32.8 | 117 |
| 1991 | Shape-Deformed Mushroom-like Reentrant Structures for Robust Liquid-Repellent Surfaces. ACS Applied Materials & Deformed Materials & De | 8.0 | 15 |
| 1992 | Liquid Crystal-Infused Porous Polymer Surfaces: A "Slippery―Soft Material Platform for the Naked-Eye Detection and Discrimination of Amphiphilic Species. ACS Applied Materials & 1, 13, 33652-33663. | 8.0 | 5 |
| 1993 | Preventing algae biofilm formation via designing long-term oil storage surfaces for excellent antifouling performance. Applied Surface Science, 2021, 554, 149612. | 6.1 | 16 |
| 1994 | Recent progress and future perspectives for the development of micro-supercapacitors for portable/wearable electronics applications. JPhys Energy, 2021, 3, 032017. | 5.3 | 18 |
| 1995 | Design and applications of surfaces that control the accretion of matter. Science, 2021, 373, . | 12.6 | 114 |
| 1996 | Lubricant-Mediated Strong Droplet Adhesion on Lubricant-Impregnated Surfaces. Langmuir, 2021, 37, 8607-8615. | 3.5 | 9 |
| 1997 | Slippery Antifouling Polysiloxane–Polyurea Surfaces with Matrix Self-Healing and Lubricant Self-Replenishing. ACS Applied Materials & Self-Replenishing. | 8.0 | 31 |
| 1998 | Investigation of vulcanization fouling behavior of biomimetic liquid-infused slippery surfaces. Journal of Materials Science, 2021, 56, 16290-16306. | 3.7 | 5 |
| 1999 | Hybrid lattice-Boltzmann finite-difference simulation of ternary fluids near immersed solid objects of general shapes. Physics of Fluids, 2021, 33, . | 4.0 | 7 |
| 2000 | Self-Stratified Versatile Coatings for Three-Dimensional Printed Underwater Physical Sensors Applications. Nano Letters, 2021, 21, 6820-6827. | 9.1 | 13 |
| 2001 | Furcated droplet motility on crystalline surfaces. Nature Nanotechnology, 2021, 16, 1106-1112. | 31.5 | 36 |
| 2002 | Slippery-Liquid-Infused Electrostatic Flocking Surfaces for Marine Antifouling Application. Langmuir, 2021, 37, 10020-10028. | 3.5 | 9 |
| 2003 | Symmetry-Breaking Drop Bouncing on Superhydrophobic Surfaces with Continuously Changing Curvatures. Polymers, 2021, 13, 2940. | 4.5 | 3 |
| 2004 | Actuating water droplets on liquid infused surfaces: A rickshaw for droplets. Physical Review Fluids, 2021, 6, . | 2.5 | 1 |

| # | Article | IF | CITATIONS |
|------|--|--------------|-----------|
| 2005 | Near-bulge oil meniscus-induced migration and condensation of droplets for water collection: Energy saving, generalization and recyclability. Chemical Engineering Journal, 2021, 417, 129215. | 12.7 | 22 |
| 2006 | Bio-inspired self-replenishing and self-reporting slippery surfaces from colloidal co-assembly templates. Chemical Engineering Journal, 2021, 426, 131641. | 12.7 | 12 |
| 2007 | Sarracenia purpurea glycerolâ€3â€phosphate acyltransferase 5 confers plant tolerance to high humidity in Arabidopsis thaliana. Physiologia Plantarum, 2021, 173, 1221-1229. | 5. 2 | 0 |
| 2008 | Design of Lubricant-Infused Surfaces Based on Mussel-Inspired Nanosilica Coatings: Solving Adhesion by Pre-Adhesion. Langmuir, 2021, 37, 10708-10719. | 3 . 5 | 11 |
| 2009 | Designing Antiâ€Icing Surfaces by Controlling Ice Formation. Advanced Materials Interfaces, 2021, 8, 2100327. | 3.7 | 29 |
| 2010 | Machine Learning Approach to Analyze the Surface Properties of Biological Materials. ACS Biomaterials Science and Engineering, 2021, 7, 4614-4625. | 5.2 | 9 |
| 2011 | Rapid and coagulation-independent haemostatic sealing by a paste inspired by barnacle glue. Nature Biomedical Engineering, 2021, 5, 1131-1142. | 22.5 | 146 |
| 2012 | Bioinspired Universal Approaches for Cavity Regulation during Cylinder Impact Processes for Drag Reduction in Aqueous Media: Macrogeometry Vanquishing Wettability. ACS Applied Materials & Samp; Interfaces, 2021, 13, 38808-38815. | 8.0 | 7 |
| 2013 | Interfacial phenomena in snow from its formation to accumulation and shedding. Advances in Colloid and Interface Science, 2021, 294, 102480. | 14.7 | 12 |
| 2014 | Harnessing nano oil reservoir network for generating low friction and wear in self-mating alumina. Materials and Design, 2021, 206, 109821. | 7. 0 | 2 |
| 2015 | Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. ACS Nano, 2021, 15, 14305-14315. | 14.6 | 23 |
| 2016 | Ice-resistant surface with three dimensional spherical halloysite aerogel: Construction and anti-icing mechanism. Ceramics International, 2021, 47, 22976-22984. | 4.8 | 3 |
| 2017 | Programmable droplet sliding on slippery surface with tunability in both surface microstructure and lubricant. Advanced Composites and Hybrid Materials, 2022, 5, 195-208. | 21.1 | 5 |
| 2018 | Scalable Slippery Omniphobic Covalently Attached Liquid Coatings for Flow Fouling Reduction. ACS Applied Materials & Diterfaces, 2021, 13, 38666-38679. | 8.0 | 20 |
| 2020 | Antibacterial Gel Coatings Inspired by the Cryptic Function of a Mussel Byssal Peptide. Advanced Materials, 2021, 33, e2103677. | 21.0 | 46 |
| 2021 | Highly Efficient Self-Repairing Slippery Liquid-Infused Surface with Promising Anti-Icing and Anti-Fouling Performance. ACS Applied Materials & Samp; Interfaces, 2021, 13, 40032-40041. | 8.0 | 44 |
| 2022 | Architecturing materials at mesoscale: some current trends. Materials Research Letters, 2021, 9, 399-421. | 8.7 | 51 |
| 2023 | Corrosion behavior of a slippery liquid infused porous surface on anodized stainless steel. Materials Letters, 2021, 296, 129892. | 2.6 | 11 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 2024 | Excellent coating of collagen fiber/chitosan-based materials that is water- and oil-resistant and fluorine-free. Carbohydrate Polymers, 2021, 266, 118173. | 10.2 | 21 |
| 2025 | Tailoring Materials with Specific Wettability in Biomedical Engineering. Advanced Science, 2021, 8, e2100126. | 11.2 | 52 |
| 2026 | Nano-Al doped-MoO3 high-energy composite films with excellent hydrophobicity and thermal stability. Ceramics International, 2021, 47, 24039-24046. | 4.8 | 5 |
| 2027 | Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. Langmuir, 2021, 37, 10914-10923. | 3.5 | 54 |
| 2028 | Approaches to inhibit biofilm formation applying natural and artificial silk-based materials. Materials Science and Engineering C, 2021, 131, 112458. | 7.3 | 9 |
| 2029 | Surface Acoustic Waves to Control Droplet Impact onto Superhydrophobic and Slippery Liquid-Infused Porous Surfaces. ACS Applied Materials & Samp; Interfaces, 2021, 13, 46076-46087. | 8.0 | 29 |
| 2030 | A spontaneous one-step fabrication of slippery gel coatings. Applied Surface Science, 2022, 572, 151341. | 6.1 | 4 |
| 2031 | Nature-inspired slippery polymer thin film for ice-repellent applications. Bioinspired, Biomimetic and Nanobiomaterials, 2021, 10, 107-113. | 0.9 | 5 |
| 2032 | Slippery Liquid-Infused Porous Surfaces on Aluminum for Corrosion Protection with Improved Self-Healing Ability. ACS Applied Materials & Self-Healing Ability. | 8.0 | 20 |
| 2033 | Effective Approach to Render Stable Dynamic Omniphobicity and Icephobicity to Ultrasmooth Metal Surfaces. Langmuir, 2021, 37, 11771-11780. | 3.5 | 2 |
| 2034 | Bio-inspired slippery surfaces with multifunctional anti-icing performance. Science China Technological Sciences, 2021, 64, 2110-2118. | 4.0 | 11 |
| 2035 | Superhydrophobic micro-tube fabricated via one-step plasma polymerization for lossless droplet transfer. Surface and Coatings Technology, 2021, 421, 127272. | 4.8 | 6 |
| 2036 | Development of natural deep eutectic solvents (NADESs) as anti-freezing agents for the frozen food industry: Water-tailoring effects, anti-freezing mechanisms and applications. Food Chemistry, 2022, 371, 131150. | 8.2 | 38 |
| 2037 | Rational engineering and applications of functional bioadhesives in biomedical engineering. Biotechnology Journal, 2021, 16, e2100231. | 3.5 | 9 |
| 2038 | Moth-eye-inspired texturing surfaces enabled self-cleaning aluminum to achieve photothermal anti-icing. Optics and Laser Technology, 2021, 141, 107115. | 4.6 | 44 |
| 2039 | A Simple Approach for Flexible and Stretchable Anti-icing Lubricant-Infused Tape. ACS Applied Materials & Samp; Interfaces, 2021, 13, 45105-45115. | 8.0 | 9 |
| 2040 | Photoâ€Polymerization Induced Hierarchical Pattern via Selfâ€Wrinkling. Advanced Functional Materials, 2021, 31, 2106754. | 14.9 | 17 |
| 2041 | The Device Using a Polydimethylsiloxane Membrane and the Phase Transition of Water. Coatings, 2021, 11, 1102. | 2.6 | 0 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 2042 | Lubricant-Infused Three-Dimensional Frame Composed of a Micro/Nanospinous Ball Cluster Structure with Salient Durability and Superior Fog Harvesting Capacity. ACS Applied Materials & Diterfaces, 2021, 13, 46192-46201. | 8.0 | 10 |
| 2043 | Reduction of Ice Adhesion Using Surface Acoustic Waves: Nanoscale Vibration and Interface Heating Effects. Langmuir, 2021, 37, 11851-11858. | 3.5 | 12 |
| 2044 | External-field-induced directional droplet transport: A review. Advances in Colloid and Interface Science, 2021, 295, 102502. | 14.7 | 22 |
| 2045 | Icephobic properties of anti-wetting coatings for aeronautical applications. Surface and Coatings Technology, 2021, 421, 127363. | 4.8 | 6 |
| 2046 | Recent advances in hydrogel-based anti-infective coatings. Journal of Materials Science and Technology, 2021, 85, 169-183. | 10.7 | 40 |
| 2047 | Citrus-peel-like durable slippery surfaces. Chemical Engineering Journal, 2021, 420, 129599. | 12.7 | 21 |
| 2048 | Recent progress on sorption/desorption-based atmospheric water harvesting powered by solar energy. Solar Energy Materials and Solar Cells, 2021, 230, 111233. | 6.2 | 45 |
| 2049 | Dynamic Antiâ€lcing Surfaces (DAIS). Advanced Science, 2021, 8, e2101163. | 11.2 | 49 |
| 2050 | Flow and Drop Transport Along Liquid-Infused Surfaces. Annual Review of Fluid Mechanics, 2022, 54, 83-104. | 25.0 | 42 |
| 2051 | Durable, self-healing superhydrophobic nanofibrous membrane with self-cleaning ability for highly-efficient oily wastewater purification. Journal of Membrane Science, 2021, 634, 119402. | 8.2 | 132 |
| 2052 | Evaluation of the Durability of Slippery, Liquid-Infused Porous Surfaces in Different Aggressive Environments: Influence of the Chemical-Physical Properties of Lubricants. Coatings, 2021, 11, 1170. | 2.6 | 8 |
| 2053 | 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 |
| 2054 | Dropwise condensation: From fundamentals of wetting, nucleation, and droplet mobility to performance improvement by advanced functional surfaces. Advances in Colloid and Interface Science, 2021, 295, 102503. | 14.7 | 34 |
| 2055 | Super liquid repellent surfaces for anti-foaming and froth management. Nature Communications, 2021, 12, 5358. | 12.8 | 20 |
| 2056 | Stable, superfast and self-healing fluid coating with active corrosion resistance. Advances in Colloid and Interface Science, 2021, 295, 102494. | 14.7 | 23 |
| 2057 | Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. Journal of Cleaner Production, 2021, 315, 127862. | 9.3 | 32 |
| 2058 | Self-healing materials: A pathway to immortal products or a risk to circular economy systems?. Journal of Cleaner Production, 2021, 315, 128193. | 9.3 | 22 |
| 2059 | Recent advances of organogels: from fabrications and functions to applications. Progress in Organic Coatings, 2021, 159, 106417. | 3.9 | 44 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2060 | Lubricant-grafted omniphobic surfaces with anti-biofouling and drag-reduction performances constructed by reactive organic–inorganic hybrid microspheres. Chemical Engineering Journal, 2021, 422, 130113. | 12.7 | 18 |
| 2061 | Novel environment-friendly grease-infused porous surface exhibiting long-term cycle effective antifouling performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127196. | 4.7 | 8 |
| 2062 | A novel directional repairing rGO-Fe3O4/Oil coating with magnetic driving for metal protection and self-healing. Chemical Engineering Journal, 2021, 421, 129597. | 12.7 | 18 |
| 2063 | Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. Nano Today, 2021, 40, 101283. | 11.9 | 61 |
| 2064 | Liquid crystal–based open surface microfluidics manipulate liquid mobility and chemical composition on demand. Science Advances, 2021, 7, eabi7607. | 10.3 | 39 |
| 2065 | Bionic design of tools in cutting: Reducing adhesion, abrasion or friction. Wear, 2021, 482-483, 203955. | 3.1 | 30 |
| 2066 | A Quadruple-Biomimetic surface for spontaneous and efficient fog harvesting. Chemical Engineering Journal, 2021, 422, 130119. | 12.7 | 63 |
| 2067 | Potential use of smart coatings for icephobic applications: A review. Surface and Coatings Technology, 2021, 424, 127656. | 4.8 | 30 |
| 2068 | Are telechelic polysiloxanes better than hemi-telechelic for self-cleaning applications?. Journal of Colloid and Interface Science, 2021, 600, 174-186. | 9.4 | 4 |
| 2069 | Functionalized superhydrophobic quartz fabric with electro-photo-thermal conversion performance: Designed for low-cost and efficient self-heating deicing. Surface and Coatings Technology, 2021, 425, 127646. | 4.8 | 17 |
| 2070 | Preparation and self-cleaning property of a superhydrophobic coating based on micro–nano integrated TiO2 microspheres. Ceramics International, 2021, 47, 32456-32459. | 4.8 | 12 |
| 2071 | When SLIPS meets TIPS: An endogenous lubricant-infused surface by taking the diluent as the lubricant. Chemical Engineering Journal, 2021, 425, 130600. | 12.7 | 12 |
| 2072 | Dropwise condensation of acetone and ethanol for a high-performance lubricant-impregnated thermosyphon. International Journal of Heat and Mass Transfer, 2021, 181, 121871. | 4.8 | 6 |
| 2073 | Liquid-like transparent and flexible coatings for anti-graffiti applications. Progress in Organic Coatings, 2021, 161, 106476. | 3.9 | 8 |
| 2074 | Water-repellent surfaces of metallic glasses: fabrication and application. Materials Today Advances, 2021, 12, 100164. | 5.2 | 8 |
| 2075 | Self-healing dual biomimetic liquid-infused slippery surface in a partition matrix: Fabrication and anti-corrosion capability for magnesium alloy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127585. | 4.7 | 16 |
| 2076 | Novel corrosion-resistant behavior and mechanism of a biomimetic surface with switchable wettability on Mg alloy. Chemical Engineering Journal, 2021, 425, 130450. | 12.7 | 18 |
| 2077 | Bioinspired nonwetting surfaces for corrosion inhibition over a range of temperature and corrosivity. Journal of Colloid and Interface Science, 2022, 607, 323-333. | 9.4 | 23 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2078 | Construction of ultra-long service life self-cleaning slippery surface on superhydrophobicity functionalized by ATRP treatment. Chemical Engineering Journal, 2022, 428, 130997. | 12.7 | 9 |
| 2079 | NIR-driven fast construction of patterned-wettability on slippery lubricant infused surface for droplet manipulation. Chemical Engineering Journal, 2022, 428, 131141. | 12.7 | 19 |
| 2080 | Dewetting of non-polar thin lubricating films underneath polar liquid drops on slippery surfaces. Journal of Colloid and Interface Science, 2022, 607, 530-537. | 9.4 | 7 |
| 2081 | Equilibrium droplet shapes on chemically patterned surfaces: theoretical calculation, phase-field simulation, and experiments. Journal of Colloid and Interface Science, 2022, 606, 1077-1086. | 9.4 | 18 |
| 2082 | Sea slug inspired smart marine antifouling coating with reversible chemical bonds: Controllable UV-responsive coumarin releasing and efficient UV-healing properties. Chemical Engineering Journal, 2022, 429, 132471. | 12.7 | 36 |
| 2083 | The role of support layer properties on the fabrication and performance of thin-film composite membranes: The significance of selective layer-support layer connectivity. Separation and Purification Technology, 2021, 278, 119451. | 7.9 | 25 |
| 2084 | Controlling the directional sliding velocity of a liquid through an omniphobic nano-bump surface. Applied Surface Science, 2022, 571, 151404. | 6.1 | 7 |
| 2085 | How water wets and self-hydrophilizes nanopatterns of physisorbed hydrocarbons. Journal of Colloid and Interface Science, 2022, 606, 57-66. | 9.4 | 1 |
| 2086 | Fast-response, no-pretreatment, and robustness air-water/oil amphibious superhydrophilic-superoleophobic surface for oil/water separation and oil-repellent fabrics. Chemical Engineering Journal, 2022, 427, 132043. | 12.7 | 39 |
| 2087 | Anti-biofouling materials and surfaces based on mussel-inspired chemistry. Materials Advances, 2021, 2, 2216-2230. | 5.4 | 8 |
| 2088 | Directional anchoring patterned liquid-infused superamphiphobic surfaces for high-throughput droplet manipulation. Lab on A Chip, 2021, 21, 1373-1384. | 6.0 | 17 |
| 2089 | Polysiloxane Nanofilaments Infused with Silicone Oil Prevent Bacterial Adhesion and Suppress Thrombosis on Intranasal Splints. ACS Biomaterials Science and Engineering, 2021, 7, 541-552. | 5.2 | 21 |
| 2090 | Synergistic effect of copolymeric resin grafted 1,2-benzisothiazol-3(2 <i>H</i>)-one and heterocyclic groups as a marine antifouling coating. RSC Advances, 2021, 11, 18787-18796. | 3.6 | 6 |
| 2091 | Bio-inspired semi-infused adaptive surface with reconfigurable topography for on-demand droplet manipulation. Materials Chemistry Frontiers, 2021, 5, 5382-5389. | 5.9 | 1 |
| 2092 | Gels as emerging anti-icing materials: a mini review. Materials Horizons, 2021, 8, 3266-3280. | 12.2 | 49 |
| 2093 | Slippery liquid infused porous surfaces with corrosion resistance potential on aluminum alloy. RSC Advances, 2021, 11, 847-855. | 3.6 | 8 |
| 2094 | Designing Flexible but Tough Slippery Track for Underwater Gas Manipulation. Small, 2021, 17, e2007803. | 10.0 | 35 |
| 2095 | Stable and biocompatible slippery lubricant-infused anode-oxidated titanium nanotube surfaces <i>via</i> a grafted polydimethylsiloxane brush. New Journal of Chemistry, 2021, 45, 17493-17502. | 2.8 | 2 |

| # | Article | IF | CITATIONS |
|------|--|--------------|-----------|
| 2096 | Gradient Quasiâ€Liquid Surface Enabled Selfâ€Propulsion of Highly Wetting Liquids. Advanced Functional Materials, 2021, 31, 2008614. | 14.9 | 41 |
| 2097 | Capillary Bridges on Liquid-Infused Surfaces. Langmuir, 2021, 37, 908-917. | 3 . 5 | 3 |
| 2098 | A fishbone-inspired liquid splitter enables directional droplet transportation and spontaneous separation. Journal of Materials Chemistry A, 2021, 9, 9719-9728. | 10.3 | 31 |
| 2099 | Electrospinning nanofibers and nanomembranes for oil/water separation. Journal of Materials Chemistry A, 2021, 9, 21659-21684. | 10.3 | 121 |
| 2100 | Fluoropolymers in biomedical applications: state-of-the-art and future perspectives. Chemical Society Reviews, 2021, 50, 5435-5467. | 38.1 | 151 |
| 2101 | Recent Progress and Future Directions of Multifunctional (Super)Wetting Smooth/Structured Surfaces and Coatings. Advanced Functional Materials, 2020, 30, 1907772. | 14.9 | 53 |
| 2102 | Direct Imaging of Superwetting Behavior on Solid–Liquid–Vapor Triphase Interfaces. Advanced Materials, 2017, 29, 1703009. | 21.0 | 10 |
| 2103 | Multiple Liquid Manipulations on Patterned Surfaces with Tunable Adhesive Property. Advanced Materials Interfaces, 2017, 4, 1700490. | 3.7 | 14 |
| 2104 | Fabrication of Unmodified Bionic Copper Surfaces with Highly Stable Hydrophobicity and Antiâ€lcing Properties via a Transfer with Zrâ€Based Metallic Glasses. Advanced Materials Interfaces, 2021, 8, 2001743. | 3.7 | 4 |
| 2105 | Cellâ€Inspired Allâ€Aqueous Microfluidics: From Intracellular Liquid–Liquid Phase Separation toward Advanced Biomaterials. Advanced Science, 2020, 7, 1903359. | 11.2 | 111 |
| 2106 | Smart Nanofibrous Membranes with Controllable Porous Structure and Surface Wettability for High Efficient Separation Materials., 2014, , 1-23. | | 2 |
| 2107 | Recent progress on developing anti-frosting and anti-fouling functional surfaces for air source heat pumps. Energy and Buildings, 2020, 223, 110139. | 6.7 | 20 |
| 2108 | Composite Structured Surfaces for Durable Dropwise Condensation. International Journal of Heat and Mass Transfer, 2020, 156, 119890. | 4.8 | 25 |
| 2109 | Self-healing and self-cleaning clear coating. Journal of Colloid and Interface Science, 2020, 577, 311-318. | 9.4 | 33 |
| 2110 | Recycled PET as a PDMS-Functionalized electrospun fibrous membrane for oil-water separation. Journal of Environmental Chemical Engineering, 2020, 8, 103921. | 6.7 | 51 |
| 2111 | Preparation and properties of transparent solid–liquid hybrid materials using porous silica with silicone oil or ionic liquid. Materials Research Bulletin, 2020, 130, 110902. | 5.2 | 2 |
| 2112 | Preparation of a wear-resistant, superhydrophobic SiO2/silicone-modified polyurethane composite coating through a two-step spraying method. Progress in Organic Coatings, 2020, 146, 105710. | 3.9 | 33 |
| 2113 | Wettability, durability and corrosion properties of slippery laser-textured aluminum alloy surface under water impact. Surface and Coatings Technology, 2020, 394, 125856. | 4.8 | 14 |

| # | Article | IF | CITATIONS |
|------|---|--------------|-----------|
| 2115 | Wicking Nanofence-Activated Boundary Layer to Enhance Two-Phase Transport in Microchannels. Langmuir, 2020, 36, 15536-15542. | 3 . 5 | 10 |
| 2116 | Boosting Electrically Actuated Manipulation of Water Droplets on Lubricated Surfaces through a Corona Discharge. Langmuir, 2021, 37, 400-405. | 3.5 | 11 |
| 2117 | Dynamic Wettability on the Lubricant-Impregnated Surface: From Nucleation to Growth and Coalescence. ACS Applied Materials & Samp; Interfaces, 2020, 12, 26555-26565. | 8.0 | 33 |
| 2118 | Doubly Reentrant Cavities Prevent Catastrophic Wetting Transitions on Intrinsically Wetting Surfaces. ACS Applied Materials & Surfaces, 2017, 9, 21532-21538. | 8.0 | 64 |
| 2119 | Antiscaling Magnetic Slippery Surfaces. ACS Applied Materials & Samp; Interfaces, 2017, 9, 21025-21033. | 8.0 | 47 |
| 2120 | Cotton Modified with Silica Nanoparticles, N,F Codoped TiO ₂ Nanoparticles, and Octadecyltrimethoxysilane for Textiles with Self-Cleaning and Visible Light-Based Cleaning Properties. ACS Applied Nano Materials, 2021, 4, 877-885. | 5.0 | 21 |
| 2121 | Prewetting dichloromethane induced aqueous solution adhered on Cassie superhydrophobic substrates to fabricate efficient fog-harvesting materials inspired by Namib Desert beetles and mussels. Nanoscale, 2018, 10, 13045-13054. | 5.6 | 68 |
| 2124 | Thermocapillary motion on lubricant-impregnated surfaces. Physical Review Fluids, 2016, 1, . | 2.5 | 101 |
| 2125 | Effect of viscosity ratio on the shear-driven failure of liquid-infused surfaces. Physical Review Fluids, 2016, 1, . | 2.5 | 75 |
| 2126 | "Fluid bearing―effect of enclosed liquids in grooves on drag reduction in microchannels. Physical Review Fluids, 2016, 1, . | 2.5 | 14 |
| 2127 | Controlled liquid entrapment over patterned sidewalls in confined geometries. Physical Review Fluids, 2017, 2, . | 2.5 | 10 |
| 2128 | Seeking simplicity for the understanding of multiphase flows. Physical Review Fluids, 2017, 2, . | 2.5 | 5 |
| 2129 | Wetting over pre-existing liquid films. Physical Review Fluids, 2018, 3, . | 2.5 | 9 |
| 2130 | Ice wicking. Physical Review Fluids, 2019, 4, . | 2.5 | 11 |
| 2131 | Effect of streamwise cross-sectional variation on liquid retention in liquid-infused substrates under an external flow. Physical Review Fluids, 2019, 4, . | 2.5 | 2 |
| 2132 | Turbulent drag reduction by rotating rings and wall-distributed actuation. Physical Review Fluids, 2019, 4, . | 2.5 | 2 |
| 2133 | Universality of friction laws on liquid-infused materials. Physical Review Fluids, 2020, 5, . | 2.5 | 38 |
| 2134 | Natural oscillations of a sessile drop on flat surfaces with mobile contact lines. Physical Review Fluids, 2020, 5, . | 2.5 | 13 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 2135 | Experimental Study of Refrigerant (R-134a) Condensation Heat Transfer and Retention Behavior on Paraffin-Coated Vertical Plates and Fin Structures. Journal of Heat Transfer, 2020, 142, . | 2.1 | 2 |
| 2136 | On Hydrophobic and Icephobic Properties of TiO2-Doped Silicon Rubber Coatings. International Journal of Theoretical and Applied Nanotechnology, 0, , . | 0.0 | 5 |
| 2137 | Bioinspired shape-memory graphene film with tunable wettability. Science Advances, 2017, 3, e1700004. | 10.3 | 210 |
| 2138 | SLIPS-LABâ€"A bioinspired bioanalysis system for metabolic evaluation of urinary stone disease. Science Advances, 2020, 6, eaba8535. | 10.3 | 26 |
| 2139 | Bioinspired Ultra-Low Adhesive Energy Interface for Continuous 3D Printing: Reducing Curing Induced Adhesion. Research, 2018, 2018, 4795604. | 5.7 | 49 |
| 2140 | Optical Sum Frequency Generation Spectra of Water Molecules on a Polycarbonate Film Exposed to O ₂ Plasma. E-Journal of Surface Science and Nanotechnology, 2014, 12, 414-417. | 0.4 | 1 |
| 2141 | Superhydrophobic coatings using nanomaterials for anti-frost applications - review. Nanosystems: Physics, Chemistry, Mathematics, 2016, , 650-656. | 0.4 | 7 |
| 2142 | Functional Texture Design and Texturing Processes. International Journal of Automation Technology, 2016, 10, 4-15. | 1.0 | 19 |
| 2143 | Current Developments in Antimicrobial Surface Coatings for Biomedical Applications. Current Medicinal Chemistry, 2015, 22, 2116-2129. | 2.4 | 123 |
| 2144 | Progress and Prospects in Translating Nanobiotechnology in Medical Theranostics. Current Nanoscience, 2020, 16, 685-707. | 1.2 | 12 |
| 2145 | A Novel Simple Anti-Ice Aluminum Coating: Synthesis and In-Lab Comparison with a Superhydrophobic Hierarchical Surface. Coatings, 2020, 10, 111. | 2.6 | 8 |
| 2146 | Tuning Superhydrophobic Materials with Negative Surface Energy Domains. Research, 2019, 2019, 1391804. | 5.7 | 15 |
| 2147 | Bioinspired Edible Lubricant-Infused Surface with Liquid Residue Reduction Properties. Research, 2019, 2019, 1649427. | 5.7 | 25 |
| 2148 | Self-Healing Microcapsule-Thickened Oil Barrier Coatings. Research, 2019, 2019, 3517816. | 5.7 | 14 |
| 2149 | Patterned Slippery Surface for Bubble Directional Transportation and Collection Fabricated via a Facile Method. Research, 2019, 2019, 9139535. | 5.7 | 8 |
| 2150 | Maintenance of Endothelial Cell Function in Liquid Based Antithrombotic Surface Coating. Biology and Medicine (Aligarh), 2017, 09, . | 0.3 | 1 |
| 2151 | Abscess Formation as a Complication of Injectable Fillers. Modern Plastic Surgery, 2015, 05, 14-18. | 0.2 | 2 |
| 2152 | An Experimental Investigation of a Wind-Driven Water Droplet over the Slippery Liquid Infused Porous Surface., 0,,. | | 1 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2153 | An Experimental Study to Evaluate the Droplet Impinging Erosion Characteristics of an Icephobic, Elastic Soft Surface., 0,,. | | 1 |
| 2154 | Development of environmentally-friendly surface modification technology. Synthesiology, 2014, 7, 190-198. | 0.2 | 2 |
| 2155 | Development of environmentally-friendly surface modification technology. Synthesiology, 2014, 7, 185-193. | 0.2 | 1 |
| 2156 | Bioinspired multiscale interfacial materials with superwettability. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 186801. | 0.5 | 4 |
| 2157 | Fabrication of Superoleophobic Surface with Anisotropic Wettability Using Silicon Wafer. Journal of the Korean Society of Manufacturing Technology Engineers, 2014, 23, 533-538. | 0.2 | 2 |
| 2158 | Functional nanomaterials, synergisms, and biomimicry for environmentally benign marine antifouling technology. Materials Horizons, 2021, 8, 3201-3238. | 12.2 | 44 |
| 2159 | Bio-inspired strategies for next-generation perovskite solar mobile power sources. Chemical Society Reviews, 2021, 50, 12915-12984. | 38.1 | 15 |
| 2160 | Architecture-Driven Fast Droplet Transport without Mass Loss. Langmuir, 2021, 37, 12519-12528. | 3.5 | 14 |
| 2161 | Enhanced Water Nucleation and Growth Based on Microdroplet Mobility on Lubricant-Infused Surfaces. Langmuir, 2021, 37, 12790-12801. | 3.5 | 11 |
| 2162 | Enhanced air stability of ridged superhydrophobic surface with nanostructure. AIP Advances, 2021, 11, . | 1.3 | 4 |
| 2163 | Effect of Micro-Structural Geometry on Lubricant Infiltration and Property of Slippery Liquid-Infused Porous Surfaces. Surface Review and Letters, 0, , . | 1.1 | 0 |
| 2164 | Superhydrophobic drag reduction in turbulent flows: a critical review. Experiments in Fluids, 2021, 62, 1. | 2.4 | 44 |
| 2165 | Solid–Liquid Host–Guest Composites: The Marriage of Porous Solids and Functional Liquids. Advanced Materials, 2021, 33, e2104851. | 21.0 | 37 |
| 2166 | Coral-like silicone nanofilament coatings with extremely low ice adhesion. Scientific Reports, 2021, 11, 20427. | 3.3 | 4 |
| 2167 | Heterogeneously-wetting glass with enhanced anti-fingerprint properties. Chemical Engineering Journal, 2022, 430, 132902. | 12.7 | 8 |
| 2168 | HOT WATER-REPELLENT SUPERHYDROPHOBIC SURFACES WITH LONG-TERM STABILITY. Surface Review and Letters, 2022, 29, . | 1.1 | 0 |
| 2169 | Scalable wear resistant 3D printed slippery liquid infused porous surfaces (SLIPS). Additive Manufacturing, 2021, 48, 102379. | 3.0 | 6 |
| 2170 | Fabrication of a robust slippery liquid infused porous surface on Q235 carbon steel for inhibiting microbiologically influenced corrosion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127696. | 4.7 | 27 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2171 | Liquid and liquid-like surfaces/coatings that readily slide fluids. Progress in Polymer Science, 2021, 123, 101468. | 24.7 | 49 |
| 2172 | Introduction to Current Surface Science Course. Journal of the Japan Society of Colour Material, 2012, 85, 343-348. | 0.1 | 0 |
| 2173 | Surface Modifications Not Requiring Perfluorinated Compounds. Journal of the Japan Society of Colour Material, 2013, 86, 403-408. | 0.1 | 0 |
| 2174 | APRENDIZADOS PROVENIENTES DA FAUNA E DA FLORA PARA A INDÊSTRIA DEHIDROCARBONETOS: MAPEAMENTO DE TECNOLOGIAS BIOMIMÉTICAS. Cadernos De Prospecção, 2014, 7, 561-568. | 0.1 | 0 |
| 2175 | Smart Nanofibrous Membranes with Controllable Porous Structure and Surface Wettability for High Efficient Separation Materials., 2015,, 891-918. | | 0 |
| 2176 | First principles study of the electronic properties of MgO under pressure. , 0, , . | | 0 |
| 2177 | Chapter 16. Superwettability of Polymer Surfaces. RSC Polymer Chemistry Series, 2016, , 523-554. | 0.2 | 0 |
| 2178 | CHAPTER 7. "Slippery―Liquid-Infused Surfaces Inspired by Nature. RSC Smart Materials, 2016, , 185-208. | 0.1 | 0 |
| 2179 | Chapter 3. Synthesis of Non-natural Polymers with Controlled Primary Structures. RSC Polymer Chemistry Series, 2016, , 66-106. | 0.2 | 0 |
| 2180 | Biomimetic Liquid Repellent Materials Learned from Biological Self-reparing Functionalities. Seikei-Kakou, 2017, 29, 72-75. | 0.0 | 0 |
| 2183 | Functional Surfaces and Their Production Processes. Journal of the Japan Society for Precision Engineering, 2018, 84, 38-41. | 0.1 | 1 |
| 2184 | Progress on the Application of Slippery Liquid Infused Porous Surface. Material Sciences, 2018, 08, 438-446. | 0.0 | 0 |
| 2185 | Self-Healing Microcapsule-Thickened Oil Barrier Coatings. Research, 2019, 2019, 1-9. | 5.7 | 3 |
| 2186 | Self-Lubricating Gels: SLUGs. , 2019, , 113-124. | | 0 |
| 2187 | Control of Surface Wettability by Layer-by-Layer Self-Assembly. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2019, 70, 343-348. | 0.2 | 0 |
| 2188 | Hydrophobic and Oleophobic Surfaces. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 186-186. | 0.2 | 0 |
| 2191 | Frictional Properties of the Wax Coverings in Nepenthes alata Slippery Zone: Results from AFM Scanning. Sains Malaysiana, 2020, 49, 1491-1498. | 0.5 | 1 |
| 2192 | Recent Study Topics on the Static and Dynamic Wettability of Water Droplets on Various Hydrophobic Solid Surfaces. Journal of the Japan Society of Colour Material, 2020, 93, 252-260. | 0.1 | 0 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2193 | Paperboard as a substrate for biocompatible slippery liquid-infused porous surfaces. Nordic Pulp and Paper Research Journal, 2020, 35, 479-489. | 0.7 | 2 |
| 2194 | Lift induced by slip inhomogeneities in lubricated contacts. Physical Review Fluids, 2020, 5, . | 2.5 | 6 |
| 2195 | Strong histamine torsion Raman spectrum enables direct, rapid, and ultrasensitive detection of allergic diseases. IScience, 2021, 24, 103384. | 4.1 | 5 |
| 2196 | Nature Inspired Substrateâ€Independent Omniphobic and Antimicrobial Slippery Surfaces. Advanced Engineering Materials, 0, , . | 3.5 | 4 |
| 2197 | Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. Chemical Engineering Journal, 2022, 431, 133206. | 12.7 | 11 |
| 2198 | Ultrasmall Volume Single-Droplet Viscometry: Monitoring Cornering Instabilities on Omniphobic Polydimethylsiloxane Brushes. Langmuir, 2021, 37, 12812-12818. | 3.5 | 2 |
| 2199 | Rapid and Robust Surface Treatment for Simultaneous Solid and Liquid Repellency. ACS Applied Materials & Samp; Interfaces, 2021, 13, 53171-53180. | 8.0 | 15 |
| 2200 | Mimicking nature to control bio-material surface wetting and adhesion. International Materials Reviews, 2022, 67, 658-681. | 19.3 | 50 |
| 2201 | Self-assembly of supraparticles on a lubricated-superamphiphobic patterned surface. Applied Surface Science, 2022, 576, 151684. | 6.1 | 14 |
| 2202 | Design of Icephobic Surfaces by Lowering Ice Adhesion Strength: A Mini Review. Coatings, 2021, 11, 1343. | 2.6 | 34 |
| 2203 | Superhydrophobic Coatings with Photothermal Self-Healing Chemical Composition and Microstructure for Efficient Corrosion Protection of Magnesium Alloy. Langmuir, 2021, 37, 13527-13536. | 3.5 | 41 |
| 2204 | Smart Control for Water Droplets on Temperature and Force Dual-Responsive Slippery Surfaces. Langmuir, 2021, 37, 578-584. | 3.5 | 9 |
| 2205 | Anisotropic Motion of Aqueous Drops on Lubricated Chemically Heterogenous Slippery Surfaces. Advanced Materials Interfaces, 2021, 8, 2001916. | 3.7 | 5 |
| 2206 | Tribological performance of microstructured surfaces with different wettability from superhydrophilic to superhydrophobic. Biosurface and Biotribology, 2020, 6, 118-123. | 1.5 | 5 |
| 2207 | Predicting Hemiwicking Dynamics on Textured Substrates. Langmuir, 2021, 37, 188-195. | 3.5 | 5 |
| 2208 | Solvent-free fabrication of slippery coatings from edible raw materials for reducing yogurt adhesion. Progress in Organic Coatings, 2022, 162, 106590. | 3.9 | 5 |
| 2209 | A novel earthworm-inspired smart lubrication material with self-healing function. Tribology International, 2022, 165, 107303. | 5.9 | 10 |
| 2210 | Magneto-responsive photothermal composite cilia for active anti-icing and de-icing. Composites Science and Technology, 2022, 217, 109086. | 7.8 | 31 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2211 | A mechanical hand-like functional surface capable of efficiently grasping and non-destructively releasing droplets. Chemical Engineering Journal, 2022, 430, 132749. | 12.7 | 11 |
| 2212 | Bioinspired ultra-low fouling coatings on medical devices to prevent device-associated infections and thrombosis. Journal of Colloid and Interface Science, 2022, 608, 1015-1024. | 9.4 | 26 |
| 2213 | Ice adhesion of PDMS surfaces with balanced elastic and water-repellent properties. Journal of Colloid and Interface Science, 2022, 608, 792-799. | 9.4 | 35 |
| 2214 | High Performance Super-Hydrophobic Flower-Like CeO ₂ Micro/Nano-Structure Fabricated by Hydro-Thermal Method. Advances in Material Chemistry, 2020, 08, 15-22. | 0.0 | 0 |
| 2215 | Investigation of Anticorrosive Performance of Oil-infused Slippery and Superhydrophobic Brass Surfaces by Laser Texturing. Journal of Bionic Engineering, 2021, 18, 1157-1167. | 5.0 | 10 |
| 2216 | Multifunctional Switchable Nanocoated Membranes for Efficient Integrated Purification of Oil/Water Emulsions. ACS Applied Materials & Samp; Interfaces, 2021, 13, 54315-54323. | 8.0 | 24 |
| 2217 | Droplet trapping in bendotaxis caused by contact angle hysteresis. Physical Review Fluids, 2021, 6, . | 2.5 | 4 |
| 2218 | Spatial Control of Condensation: The Past, the Present, and the Future. Advanced Materials Interfaces, 2021, 8, 2100815. | 3.7 | 5 |
| 2219 | Multifunctional Biomedical Materials Derived from Biological Membranes. Advanced Materials, 2022, 34, e2107406. | 21.0 | 26 |
| 2221 | Durable slippery lubricant-infused multiscale-textured surfaces for repelling highly adhesive liquids. Materials Research Express, 2020, 7, 106409. | 1.6 | 1 |
| 2222 | Designing Lubricant-Impregnated Surfaces for Corrosion Protection. Corrosion, 2020, 76, . | 1.1 | 0 |
| 2223 | Perfluorinated compounds are not necessary: pegylated organosilanes can endow good water sliding/removal properties. Journal of Hazardous Materials, 2020, 398, 122625. | 12.4 | 7 |
| 2224 | Bioinspired functional SLIPSs and wettability gradient surfaces and their synergistic cooperation and opportunities for enhanced condensate and fluid transport. Advances in Colloid and Interface Science, 2022, 299, 102564. | 14.7 | 27 |
| 2225 | Bioinspired marine antifouling coatings: Status, prospects, and future. Progress in Materials Science, 2022, 124, 100889. | 32.8 | 181 |
| 2226 | Dropwise Condensation by Nanoengineered Surfaces: Design, Mechanism, and Enhancing Strategies. Advanced Materials Interfaces, 2021, 8, 2101603. | 3.7 | 8 |
| 2227 | Preventing <i>Pseudomonas aeruginosa </i> Biofilms on Indwelling Catheters by Surface-Bound Enzymes. ACS Applied Bio Materials, 2021, 4, 8248-8258. | 4.6 | 16 |
| 2228 | Water vapor condensation on binary mixed substrates: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2022, 184, 122281. | 4.8 | 8 |
| 2229 | Fabrication of Slippery Liquid-Infused Coatings in Flexible Narrow-Bore Tubing. ACS Applied Materials & Samp; Interfaces, 2021, 13, 55621-55632. | 8.0 | 6 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2230 | Non-wetting Liquid-Infused Slippery Paper. Langmuir, 2021, 37, 13627-13636. | 3.5 | 11 |
| 2231 | Tunning Intermolecular Interaction of Peptide-Conjugated AlEgen in Nano-Confined Space for Quantitative Detection of Tumor Marker Secreted from Cells. Analytical Chemistry, 2021, 93, 16257-16263. | 6.5 | 19 |
| 2232 | Sustainable icephobicity on durable quasi-liquid surface. Chemical Engineering Journal, 2022, 431, 133475. | 12.7 | 37 |
| 2233 | NanoTraPPEDâ€"A New Method for Determining the Surface Energy of Nanoparticles via Pickering Emulsion Polymerization. Nanomaterials, 2021, 11, 3200. | 4.1 | 7 |
| 2234 | Bioinspired Compartmentalization Strategy for Coating Polymers with Self-Organized Prismatic Films. Chemistry of Materials, 2021, 33, 9240-9251. | 6.7 | 7 |
| 2235 | Amphiphilic Perforated Honeycomb Films for Gravimetric Liquid Separation. Advanced Materials Interfaces, 2022, 9, 2101954. | 3.7 | 10 |
| 2236 | Development of novel icephobic surfaces using siloxane-modified epoxy nanocomposites. Chemical Engineering Journal, 2022, 433, 133637. | 12.7 | 17 |
| 2237 | Self-Healing of a Covalently Cross-Linked Polymer Electrolyte Membrane by Diels-Alder Cycloaddition and Electrolyte Embedding for Lithium Ion Batteries. Polymers, 2021, 13, 4155. | 4.5 | 4 |
| 2238 | Liquidâ€Assisted Singleâ€Layer Janus Membrane for Efficient Unidirectional Liquid Penetration. Advanced Science, 2022, 9, e2103765. | 11.2 | 22 |
| 2239 | Icephobic and Anticorrosion Coatings Deposited by Electrospinning on Aluminum Alloys for Aerospace Applications. Polymers, 2021, 13, 4164. | 4.5 | 15 |
| 2240 | Recent Advances in Photocatalysis Based on Bioinspired Superwettabilities. ACS Catalysis, 2021, 11, 14751-14771. | 11.2 | 59 |
| 2241 | The effect of mechanical and thermal stresses on the performance of lubricated icephobic coatings during cyclic icing/deicing tests. Progress in Organic Coatings, 2022, 163, 106614. | 3.9 | 11 |
| 2242 | Stretch-Enhanced Anisotropic Wetting on Transparent Elastomer Film for Controlled Liquid Transport. ACS Nano, 2021, 15, 19981-19989. | 14.6 | 15 |
| 2243 | Nepenthes pitcher-inspired lubricant-infused slippery surface with superior anti-corrosion durability, hot water repellency and scratch resistance. Journal of Industrial and Engineering Chemistry, 2022, 107, 259-267. | 5.8 | 13 |
| 2244 | Slippery liquid-infused microphase separation surface enables highly robust anti-fouling, anti-corrosion, anti-icing and anti-scaling coating on diverse substrates. Chemical Engineering Journal, 2022, 431, 133945. | 12.7 | 16 |
| 2245 | Liquid Gating Meniscusâ€Shaped Deformable Magnetoelastic Membranes with Selfâ€Driven Regulation of Gas/Liquid Release. Advanced Materials, 2022, 34, e2107327. | 21.0 | 24 |
| 2246 | Asymmetric Mass Transport through Dense Heterogeneous Polymer Membranes: Fundamental Principles, Lessons from Nature, and Artificial Systems. Macromolecular Rapid Communications, 2022, 43, e2100654. | 3.9 | 1 |
| 2247 | A hydrophobic antifouling surface coating on bioprosthetic heart valves for enhanced antithrombogenicity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1082-1092. | 3.4 | 3 |

| # | Article | IF | CITATIONS |
|------|---|-------------|-----------|
| 2248 | Chapter 5. Inorganic Biomaterials to Support the Formation and Repair of Bone Tissue. Inorganic Materials Series, 2021, , 242-304. | 0.7 | 0 |
| 2249 | Patterned macro-/microstructures based on colloidal droplets evaporation. , 2021, , . | | 0 |
| 2250 | Slippery nanoemulsion-infused porous surfaces (SNIPS): anti-fouling coatings that can host and sustain the release of water-soluble agents. Chemical Communications, 2021, 57, 12691-12694. | 4.1 | 3 |
| 2251 | Fluid Drag Reduction by Magnetic Confinement. Langmuir, 2022, 38, 719-726. | 3.5 | 2 |
| 2252 | Applicability of anti-corrosion for slippery liquid-infused porous surface using a double-layer ZnO nanostructure on Al foil. Journal of Materials Science, 2022, 57, 3746-3756. | 3.7 | 4 |
| 2253 | Bioinspired nanoscale hierarchical pillars for extreme superhydrophobicity and wide angular transmittance. Nanoscale Advances, 2022, 4, 761-771. | 4. 6 | 3 |
| 2254 | Recent Developments in Artificial Super-Wettable Surfaces Based on Bioinspired Polymeric Materials for Biomedical Applications. Polymers, 2022, 14, 238. | 4.5 | 14 |
| 2255 | Opportunities in Nano-Engineered Surface Designs for Enhanced Condensation Heat and Mass Transfer. Journal of Heat Transfer, 2022, 144, . | 2.1 | 18 |
| 2256 | One-step fabrication of eco-friendly superhydrophobic fabrics for high-efficiency oil/water separation and oil spill cleanup. Nanoscale, 2022, 14, 1296-1309. | 5.6 | 101 |
| 2257 | Construction of ultrasmooth PTFE membrane for preventing bacterial adhesion and cholestasis. Colloids and Surfaces B: Biointerfaces, 2022, 213, 112332. | 5.0 | 7 |
| 2258 | Universal polysiloxane additives for UV curable self-cleaning engineered surfaces. Progress in Organic Coatings, 2022, 163, 106686. | 3.9 | 2 |
| 2259 | Lubricant-enhanced self-transport of condensed nanodroplets trapped in Wenzel state. Journal of Molecular Liquids, 2022, 348, 118206. | 4.9 | 2 |
| 2260 | Synergistic reinforced superhydrophobic paper with green, durability, and antifouling function. Applied Surface Science, 2022, 579, 152144. | 6.1 | 18 |
| 2261 | Easily fabricated icephobic surface with external and self-replenishing properties. Applied Surface Science, 2022, 579, 152069. | 6.1 | 6 |
| 2262 | Self-healing antifouling polymer brushes: Effects of degree of fluorination. Applied Surface Science, 2022, 579, 152264. | 6.1 | 7 |
| 2263 | Monte-Carlo evaluation of bias and variance in Hurst exponents computed from power spectral analysis of atomic force microscopy topographic images. Applied Surface Science, 2022, 581, 152092. | 6.1 | 2 |
| 2264 | Condensation heat transfer on phase change slippery liquid-infused porous surfaces. International Journal of Heat and Mass Transfer, 2022, 185, 122384. | 4.8 | 17 |
| 2265 | Phase Equilibria of a Brush-Bearing Coating Swollen with a Lubricant and Regulation of Its Composition to Facilitate Ice Shedding. ACS Applied Polymer Materials, 2020, 2, 4814-4824. | 4.4 | 9 |

| # | Article | IF | CITATIONS |
|------|---|-------------|-----------|
| 2266 | Microfluidics-Enabled Soft Manufacture of Materials with Tailorable Wettability. Chemical Reviews, 2022, 122, 7010-7060. | 47.7 | 44 |
| 2267 | Bioinspired Fatty Acid Amideâ€Based Slippery Oleogels for Shearâ€Stable Lubrication. Advanced Science, 2022, 9, e2105528. | 11.2 | 12 |
| 2268 | A New Concept for an Adhesive Material Inspired by Clingfish Sucker Nanofilaments. Langmuir, 2022, 38, 1215-1222. | 3. 5 | 9 |
| 2269 | Oscillation Dynamics of Drops on Immiscible Thin Liquid Films. Langmuir, 2022, 38, 1243-1251. | 3.5 | 3 |
| 2270 | Study of the Droplet Pinning Force in the Transition from Dry to Liquid-Infused Thin Polymer Films. Langmuir, 2022, 38, 1114-1123. | 3.5 | 1 |
| 2271 | How Swelling, Cross-Linking, and Aging Affect Drop Pinning on Lubricant-Infused, Low Modulus Elastomers. ACS Applied Polymer Materials, 2022, 4, 3013-3022. | 4.4 | 9 |
| 2272 | Turning traditionally nonwetting surfaces wetting for even ultra-high surface energy liquids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 10 |
| 2273 | Antibacterial surfaces: Strategies and applications. Science China Technological Sciences, 2022, 65, 1000-1010. | 4.0 | 20 |
| 2274 | Sustaining Robust Cavities with Slippery Liquid–Liquid Interfaces. Advanced Science, 2022, 9, e2103568. | 11.2 | 8 |
| 2275 | Exploiting Molecular Dynamics in Composite Coatings to Design Robust Superâ€Repellent Surfaces. Advanced Science, 2022, 9, e2104331. | 11.2 | 9 |
| 2276 | Development of a setup to characterize capillary liquid bridges between liquid infused surfaces. AIP Advances, 2022, 12, . | 1.3 | 1 |
| 2277 | Highly Transparent and Selfâ€Healable Solar Thermal Antiâ€∫Deicing Surfaces: When Ultrathin MXene Multilayers Marry a Solid Slippery Selfâ€Cleaning Coating. Advanced Materials, 2022, 34, e2108232. | 21.0 | 76 |
| 2278 | Stimuliâ∈Responsive Liquidâ€Crystalâ€Infused Porous Surfaces for Manipulation of Underwater Gas Bubble Transport and Adhesion. Advanced Materials, 2022, 34, e2110085. | 21.0 | 21 |
| 2279 | Spontaneous dewetting transitions of droplets during icing & melting cycle. Nature Communications, 2022, 13, 378. | 12.8 | 113 |
| 2280 | Slippery magnetic track inducing droplet and bubble manipulation. Chemical Communications, 2022, 58, 1207-1210. | 4.1 | 7 |
| 2281 | Underoil Directional Self-Transportation of Water Droplets on a TiO ₂ -Coated Conical Spine. ACS Applied Materials & Lamp; Interfaces, 2022, 14, 6274-6282. | 8.0 | 5 |
| 2282 | Driving Droplets on Liquid Repellent Surfaces via Lightâ€Driven Marangoni Propulsion. Advanced Functional Materials, 2022, 32, . | 14.9 | 35 |
| 2283 | Slippery Liquid-Like Solid Surfaces with Promising Antibiofilm Performance under Both Static and Flow Conditions. ACS Applied Materials & Samp; Interfaces, 2022, 14, 6307-6319. | 8.0 | 35 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2284 | Reactive Multilayers and Coatings Fabricated by Spray Assembly: Influence of Polymer Structure and Process Parameters on Multiscale Structure and Interfacial Properties. Chemistry of Materials, 2022, 34, 1245-1258. | 6.7 | 11 |
| 2285 | Fabrication of slippery lubricant-infused porous surface for inhibition of microorganism adhesion on the porcelain surface. Journal of Industrial and Engineering Chemistry, 2022, 108, 308-320. | 5.8 | 5 |
| 2286 | Electrically Induced Underwater Superaerophilicity/Superaerophobicity Switching on Polypyrroleâ€Coated Mesh Films for Selective Bubble Permeation. ChemPlusChem, 2022, 87, e202100491. | 2.8 | 1 |
| 2287 | Anisotropic Sliding Behaviors of Gas Bubbles upon Ferrofluidâ€Infused Orthonormal Tracks (FOTs) Under Magnetic Stimuli. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 4 |
| 2288 | Performance prediction of magnetorheological fluidâ€based liquid gating membrane by kriging machine learning method., 2022, 1, 157-169. | | 17 |
| 2289 | Anti-gas hydrate surfaces: perspectives, progress and prospects. Journal of Materials Chemistry A, 2022, 10, 379-406. | 10.3 | 14 |
| 2290 | Laser Fabrication of Titanium Alloy-Based Photothermal Responsive Slippery Surface. Applied Sciences (Switzerland), 2022, 12, 608. | 2.5 | 1 |
| 2291 | Medical gloves modified by a one-minute spraying process with blood-repellent, antibacterial and wound-healing abilities. Biomaterials Science, 2022, 10, 939-946. | 5.4 | 4 |
| 2292 | Nanobubbles explain the large slip observed on lubricant-infused surfaces. Nature Communications, 2022, 13, 351. | 12.8 | 34 |
| 2293 | Continuous Fabrication of Slippery Liquid-Infused Coatings on Rolls of Flexible Materials. ACS Applied Polymer Materials, 2022, 4, 787-795. | 4.4 | 12 |
| 2294 | Life Span of Slippery Lubricant Infused Surfaces. ACS Applied Materials & Samp; Interfaces, 2022, 14, 4598-4611. | 8.0 | 32 |
| 2295 | Solar Selective Absorber for Emerging Sustainable Applications. Advanced Energy and Sustainability Research, 2022, 3, . | 5.8 | 34 |
| 2296 | Design Optimization of Perfluorinated Liquidâ€Infused Surfaces for Bloodâ€Contacting Applications. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 8 |
| 2297 | Liquid-Infused Membranes Exhibit Stable Flux and Fouling Resistance. ACS Applied Materials & Samp; Interfaces, 2022, 14, 6148-6156. | 8.0 | 6 |
| 2298 | Parameter Study for the Ice Adhesion Centrifuge Test. Applied Sciences (Switzerland), 2022, 12, 1583. | 2.5 | 8 |
| 2299 | Ultraâ€Stretchable and Fast Selfâ€Healing Ionic Hydrogel in Cryogenic Environments for Artificial Nerve Fiber. Advanced Materials, 2022, 34, e2105416. | 21.0 | 110 |
| 2300 | Contact angle hysteresis. Current Opinion in Colloid and Interface Science, 2022, 59, 101574. | 7.4 | 81 |
| 2301 | Hydrophobic coatings prepared using various dipodal silane-functionalized polymer precursors. Applied Surface Science Advances, 2022, 7, 100207. | 6.8 | 6 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 2302 | Preparation of slippery liquid-infused porous surface based on MgAlLa-layered double hydroxide for effective corrosion protection on AZ31 Mg alloy. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104176. | 5.3 | 17 |
| 2303 | Multiphase media superwettability regulated by coexisting prewetting phase. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128505. | 4.7 | 2 |
| 2304 | Biomimetic modified polypropylene membranes based on tea polyphenols for efficient oil/water separation. Progress in Organic Coatings, 2022, 164, 106723. | 3.9 | 15 |
| 2305 | Exudation behavior and pinning effect of the droplet on slippery liquid-infused porous surfaces (SLIPS). Surface and Coatings Technology, 2022, 433, 128062. | 4.8 | 8 |
| 2306 | Overview of the development of slippery surfaces: Lubricants from presence to absence. Advances in Colloid and Interface Science, 2022, 301, 102602. | 14.7 | 33 |
| 2307 | Dynamically actuating nanospike composites as a bioinspired antibiofilm material. Composites Science and Technology, 2022, 220, 109267. | 7.8 | 9 |
| 2308 | High quality anti-adhesion conductive electrotome. Materials Letters, 2022, 313, 131750. | 2.6 | 7 |
| 2309 | Slippery 3-dimensional porous bioabsorbable membranes with anti-adhesion and bactericidal properties as substitute for vaseline gauze. Colloids and Surfaces B: Biointerfaces, 2022, 212, 112341. | 5.0 | 8 |
| 2310 | Unravelling the anisotropic wetting properties of banana leaves with water and human urine. Surfaces and Interfaces, 2022, 29, 101742. | 3.0 | 1 |
| 2311 | 3D-printed mesh membranes with controllable wetting state for directional droplet transportation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 638, 128143. | 4.7 | 7 |
| 2312 | Ultraslippery/hydrophilic patterned surfaces for efficient fog harvest. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128398. | 4.7 | 28 |
| 2313 | Super-alcohol-repellent coatings. Journal of Colloid and Interface Science, 2022, 613, 146-154. | 9.4 | 3 |
| 2314 | A dual-mode laser-textured ice-phobic slippery surface: low-voltage-powered switching transmissivity and wettability for thermal management. Nanoscale, 2022, 14, 4474-4483. | 5.6 | 8 |
| 2315 | Slippery, Waterâ€Infused Membrane with Grooved Nanotrichomes for Lubricatingâ€Induced Oil Repellency. Advanced Science, 2022, 9, e2103950. | 11.2 | 4 |
| 2316 | Fabrication of novel self-healable ultraslippery surface for preventing marine microbiologically influenced corrosion. Journal of Industrial and Engineering Chemistry, 2022, 109, 320-329. | 5.8 | 12 |
| 2317 | Functional Bioelectronic Materials for Long-Term Biocompatibility and Functionality. ACS Applied Electronic Materials, 2022, 4, 1449-1468. | 4.3 | 15 |
| 2318 | Bio-inspired eutectogels enabled by binary natural deep eutectic solvents (NADESs): Interfacial anti-frosting, freezing-tolerance, and mechanisms. Food Hydrocolloids, 2022, 128, 107568. | 10.7 | 29 |
| 2319 | Selfâ€Repairing Performance of Slippery Liquid Infused Porous Surfaces for Durable Antiâ€Icing. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 25 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 2320 | Escaping the Labyrinth of Bioinspiration: Biodiversity as Key to Successful Product Innovation. Advanced Functional Materials, 0, , 2110235. | 14.9 | 13 |
| 2321 | Nature-Inspired Superwettability Achieved by Femtosecond Lasers. Ultrafast Science, 2022, 2022, . | 11.2 | 50 |
| 2322 | Robust fabrication of double-ring mushroom structure for reliable omniphobic surfaces. Surfaces and Interfaces, 2022, 29, 101778. | 3.0 | 2 |
| 2323 | Interlaced wetting surfaces with switchable wettability for manipulating underwater oil droplets. Chemical Engineering Journal, 2022, 437, 135007. | 12.7 | 13 |
| 2324 | Laser-induced morphology-switchable slanted shape memory microcones for maneuvering liquid droplets and dry adhesion. Applied Physics Letters, 2022, 120, . | 3.3 | 13 |
| 2325 | Fabrication of anisotropic superhydrophobic surface based on the <i>Nepenthes</i> slippery zone. Bioinspired, Biomimetic and Nanobiomaterials, 2022, 11, 10-16. | 0.9 | 2 |
| 2326 | Reversible Control between Sliding and Pinning on Femtosecond Laser-Treated Nickel Foam Slippery Surfaces. Langmuir, 2022, , . | 3.5 | 3 |
| 2327 | Electrospun Liquid-Infused Membranes for Emulsified Oil/Water Separation. Langmuir, 2022, 38, 2301-2313. | 3.5 | 14 |
| 2328 | Rational design of PDMS/paraffin infused surface with enhanced corrosion resistance and interface erosion mechanism. Materials and Design, 2022, 215, 110450. | 7.0 | 23 |
| 2329 | Towards efficient and sustaining condensation via hierarchical meshed surfaces: A 3D LBM study. International Communications in Heat and Mass Transfer, 2022, 132, 105919. | 5.6 | 6 |
| 2330 | Superhydrophobic and icephobic polyurethane coatings: Fundamentals, progress, challenges and opportunities. Progress in Organic Coatings, 2022, 165, 106715. | 3.9 | 22 |
| 2331 | Transparent non-fluorinated superhydrophobic coating with enhanced anti-icing performance. Progress in Organic Coatings, 2022, 165, 106758. | 3.9 | 25 |
| 2332 | Robust Silane Self-Assembled Monolayer Coatings on Plasma-Engineered Copper Surfaces Promoting Dropwise Condensation. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2333 | Dual-responsive zwitterion-modified nanopores: a mesoscopic simulation study. Journal of Materials Chemistry B, 2022, 10, 2740-2749. | 5.8 | 6 |
| 2334 | Biofouling (macro-fouling) in seawater intake systems. , 2022, , 565-587. | | 1 |
| 2335 | Experimental and Theoretical Study of Electrowetting Dynamics on Slippery Lubricant-Infused Porous Surfaces. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2336 | Nanostructured Copper Oxide-Based Interfaces for Liquid/Liquid and Liquid/Gas Separations. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2337 | Well-Ordered Microstructures from Droplet Self-Assembly. , 2022, , 195-216. | | O |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2338 | Syntheses, mechanisms, and applications of bio-inspired self-cleaning surfaces., 2022, , 367-392. | | 1 |
| 2340 | Dispersion-based, scalable fabrication of repellent superhydrophobic and liquid-infused coatings under ambient conditions. Green Chemistry, 2022, 24, 3009-3016. | 9.0 | 9 |
| 2341 | Designing an Oil-Impregnated Surface on Carbon Steel with Superior Corrosion Resistance to Oil-Water Alternating Flows. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2343 | Rugotaxis: Droplet motion without external energy supply. Europhysics Letters, 2022, 137, 43002. | 2.0 | 5 |
| 2344 | Transparent and Highly Flexible Hierarchically Structured Polydimethylsiloxane Surfaces Suppress Bacterial Attachment and Thrombosis Under Static and Dynamic Conditions. Small, 2022, 18, e2108112. | 10.0 | 4 |
| 2345 | Permeation of vegetable oils and slippery properties of extrusion coated paperboard. Packaging Technology and Science, 0, , . | 2.8 | 2 |
| 2346 | Thermal Spray Coatings for Protection Against Microbiologically Induced Corrosion: Recent Advances and Future Perspectives. Journal of Thermal Spray Technology, 2022, 31, 829-847. | 3.1 | 8 |
| 2347 | Supramolecular Oleogel-Impregnated Macroporous Polyimide for High Capacity of Oil Storage and Recyclable Smart Lubrication. ACS Applied Materials & Samp; Interfaces, 2022, 14, 10936-10946. | 8.0 | 16 |
| 2348 | Icephobic approach on hierarchical structure polymer thin-film. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 015004. | 1.5 | 5 |
| 2349 | Wood-Inspired Compressible Superhydrophilic Sponge for Efficient Removal of Micron-Sized Water Droplets from Viscous Oils. ACS Applied Materials & Samp; Interfaces, 2022, 14, 11789-11802. | 8.0 | 17 |
| 2350 | Bilayer Lubricantâ€Infused Particulate Films as Slippery Protective Coatings with Durable Anticorrosion and Antifouling Performance. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 8 |
| 2351 | Pressure-Driven Phase Separation Based on Modified Porous Mesh for Liquid Management in Microgravity. Langmuir, 2022, 38, 2919-2927. | 3.5 | 4 |
| 2353 | Strong robust superhydrophobic C/silicone monolith for photothermal ice removal. Journal of Materials Science, 2022, 57, 6963-6970. | 3.7 | 8 |
| 2354 | Friction Coefficients for Droplets on Solids: The Liquid–Solid Amontons' Laws. Langmuir, 2022, 38, 4425-4433. | 3.5 | 23 |
| 2355 | Enhanced Flexibility of the Segmented Honey Bee Tongue with Hydrophobic Tongue Hairs. ACS Applied Materials & Samp; Interfaces, 2022, 14, 12911-12919. | 8.0 | 8 |
| 2356 | Multifunctional Hard Yet Flexible Coatings Fabricated Using a Universal Stepâ€byâ€Step Strategy. Advanced Science, 2022, 9, e2200268. | 11.2 | 18 |
| 2357 | Solar Deicing Nanocoatings Adaptive to Overhead Power Lines. Advanced Functional Materials, 2022, 32, . | 14.9 | 38 |
| 2358 | Micrometric array integrated with slippery liquid-infused porous surface for improved anti-icing durability. Journal of Coatings Technology Research, 2022, 19, 1211-1218. | 2.5 | 5 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2359 | An orthogonal dual-regulation strategy for sensitive biosensing applications. National Science Review, 2022, 9 , . | 9.5 | 13 |
| 2360 | Endogenous Ionicâ€Liquidâ€Infused Coatings by Phase Separation for Antiâ€Icing and Antiâ€Bacterial Applications. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 4 |
| 2361 | Innovation in Additive Manufacturing Using Polymers: A Survey on the Technological and Material Developments. Polymers, 2022, 14, 1351. | 4.5 | 16 |
| 2362 | Droplet Bouncing: Fundamentals, Regulations, and Applications. Small, 2022, 18, e2200277. | 10.0 | 34 |
| 2363 | Transparent, Photothermal, and Icephobic Surfaces via Layerâ€byâ€Layer Assembly. Advanced Science, 2022, 9, e2105986. | 11.2 | 14 |
| 2364 | Designing a Network of Crystalline Polymers for a Scalable, Nonfluorinated, Healable and Amphiphobic Solid Slippery Interface. Angewandte Chemie, 2022, 134, . | 2.0 | 3 |
| 2365 | Designing a Network of Crystalline Polymers for a Scalable, Nonfluorinated, Healable and Amphiphobic Solid Slippery Interface. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 8 |
| 2366 | Study on Lubrication-Photothermal Synergistic Deicing of CNT Coating on Wind Turbine Blades. International Journal of Photoenergy, 2022, 2022, 1-8. | 2.5 | 4 |
| 2367 | Assembly of Graphene Platelets for Bioinspired, Stimuli-Responsive, Low Ice Adhesion Surfaces. ACS Omega, 2022, 7, 10225-10234. | 3.5 | 0 |
| 2368 | Novel Slippery Liquid-Infused Porous Surfaces (SLIPS) Based on Electrospun Polydimethylsiloxane/Polystyrene Fibrous Structures Infused with Natural Blackseed Oil. International Journal of Molecular Sciences, 2022, 23, 3682. | 4.1 | 4 |
| 2369 | Intrinsic and apparent slip at gas-enriched liquid–liquid interfaces: a molecular dynamics study. Journal of Fluid Mechanics, 2022, 938, . | 3.4 | 1 |
| 2370 | From Sticky to Slippery: Self-Functionalizing Lubricants for <i>In Situ</i> Fabrication of Liquid-Infused Surfaces. ACS Applied Materials & Samp; Interfaces, 2022, 14, 16735-16745. | 8.0 | 4 |
| 2371 | Durably Self-Sustained Droplet on a Fully Miscible Liquid Film. Langmuir, 2022, 38, 3993-4000. | 3.5 | 2 |
| 2372 | Simple but Efficient Method To Transport Droplets on Arbitrarily Controllable Paths. Langmuir, 2022, 38, 3917-3924. | 3.5 | 5 |
| 2373 | Quasi-Liquid Surfaces for Sustainable High-Performance Steam Condensation. ACS Applied Materials & Lamp; Interfaces, 2022, 14, 13932-13941. | 8.0 | 32 |
| 2374 | "Liquidâ€Like―Surface Topography Waterborne Polyurethane Coatings with Bioâ€Based and Easyâ€Sliding Oil Repellency. Macromolecular Materials and Engineering, 2022, 307, . | 3.6 | 4 |
| 2375 | Novel Intrinsic Selfâ€Healing Polyâ€Siliconeâ€Urea with Superâ€Low Ice Adhesion Strength. Small, 2022, 18, e2200532. | 10.0 | 10 |
| 2376 | Combinatorial Polyacrylamide Hydrogels for Preventing Biofouling on Implantable Biosensors. Advanced Materials, 2022, 34, e2109764. | 21.0 | 56 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2377 | Strong Out-of-Plane Vibrations and Ultrasensitive Detection of Dopamine-like Neurotransmitters. Journal of Physical Chemistry Letters, 2022, 13, 3325-3331. | 4.6 | 3 |
| 2378 | Enhancement of super-hydrophilic/underwater super-oleophobic performance of ceramic membrane with TiO2 nanowire array prepared via low temperature oxidation. Ceramics International, 2022, 48, 9426-9433. | 4.8 | 21 |
| 2379 | Design of stable liquid infused surfaces: Influence of oil viscosity on stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 646, 128923. | 4.7 | 8 |
| 2380 | Slippery Antifouling Polymer Coatings Fabricated Entirely from Biodegradable and Biocompatible Components. ACS Applied Materials & Samp; Interfaces, 2022, 14, 17940-17949. | 8.0 | 10 |
| 2381 | Oscillatory motion of viscoelastic drops on slippery lubricated surfaces. Communications Physics, 2022, 5, . | 5.3 | 6 |
| 2382 | Hagfishâ€inspired Smart SLIPS Marine Antifouling Coating Based on Supramolecular: Lubrication Modes Responsively Switching and Selfâ€healing Properties. Advanced Functional Materials, 2022, 32, . | 14.9 | 59 |
| 2383 | Energy saving thermal adaptive liquid gating system. Innovation(China), 2022, 3, 100231. | 9.1 | 4 |
| 2384 | Recent developments in slippery liquid-infused porous surface. Progress in Organic Coatings, 2022, 166, 106806. | 3.9 | 21 |
| 2385 | Metal-organic framework (MOF)-based slippery liquid-infused porous surface (SLIPS) for purely physical antibacterial applications. Applied Materials Today, 2022, 27, 101430. | 4.3 | 9 |
| 2386 | A water collection system with ultra-high harvest rate and ultra-low energy consumption by integrating triboelectric plasma. Nano Energy, 2022, 96, 107081. | 16.0 | 15 |
| 2387 | Biodegradable, biomimetic, and nanonet-engineered membranes enable high-flux and highly-efficient oil/water separation. Journal of Hazardous Materials, 2022, 434, 128858. | 12.4 | 39 |
| 2388 | Liquid-solid triboelectric nanogenerators for a wide operation window based on slippery lubricant-infused surfaces (SLIPS). Chemical Engineering Journal, 2022, 439, 135688. | 12.7 | 19 |
| 2389 | Oleophobic interaction mediated slippery organogels with ameliorated mechanical performance and satisfactory fouling-resistance. Journal of Materials Science and Technology, 2022, 121, 227-235. | 10.7 | 9 |
| 2390 | Grouped-seq for integrated phenotypic and transcriptomic screening of patient-derived tumor organoids. Nucleic Acids Research, 2022, 50, e28-e28. | 14.5 | 8 |
| 2391 | Patterned Hydrophilic Patches on Slippery Surfaces with Anticounterfeit Applications. ACS Applied Polymer Materials, 2022, 4, 100-110. | 4.4 | 6 |
| 2392 | Hydrophobic Composites Designed by a Nonwoven Cellulose-Based Material and Polymer/CaCO ₃ Patterns with Biomedical Applications. Biomacromolecules, 2022, 23, 89-99. | 5.4 | 7 |
| 2393 | Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion. Advanced Functional Materials, 2022, 32, . | 14.9 | 10 |
| 2394 | Bioinspired cellulose-based membranes in oily wastewater treatment. Frontiers of Environmental Science and Engineering, 2022, 16, 1. | 6.0 | 17 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2395 | Shear-driven drainage of lubricant in a spherical cavity of lubricant-infused surface. Physics of Fluids, $2021, 33, \ldots$ | 4.0 | 5 |
| 2396 | THE UNIVERSITY OF OXFORD BOTANIC GARDEN: SHARING THE SCIENTIFIC WONDER AND IMPORTANCE OF PLANTS WITH THE WORLD. Curtis's Botanical Magazine, 2021, 38, 438-450. | 0.3 | 3 |
| 2397 | Green Superlubricity Enabled by Only One Water Droplet on Plant Oil-Infused Surfaces. Langmuir, 2021, 37, 14878-14888. | 3.5 | 4 |
| 2398 | Efficient Bubble Transport on Bioinspired Topological Ultraslippery Surfaces. ACS Applied Materials & Lamp; Interfaces, 2021, 13, 61780-61788. | 8.0 | 16 |
| 2399 | Selfâ€repairing oilâ€impregnated gel coatings based on reversible physical crossâ€linking for antiâ€fouling and antiâ€corrosion. Journal of Applied Polymer Science, 2022, 139, 51999. | 2.6 | 1 |
| 2400 | Nanotechnology: Lessons from NatureDiscoveries, Research, and Applications. Synthesis Lectures on Engineering Science and Technology, 2021, 3, 1-151. | 0.2 | 0 |
| 2401 | Contact angle of <i>Nepenthes</i> slippery zone: results from measurement and model analysis. Bioinspired, Biomimetic and Nanobiomaterials, 2021, 10, 114-122. | 0.9 | 2 |
| 2402 | Material Strategies for Ice Accretion Prevention and Easy Removal. , 2022, 4, 246-262. | | 38 |
| 2403 | Enhanced Surface Icephobicity on an Elastic Substrate. Langmuir, 2022, 38, 18-35. | 3.5 | 25 |
| 2404 | Slippery Surface with Petal-like Structure for Protecting Al Alloy: Anti-corrosion, Anti-fouling and Anti-icing. Journal of Bionic Engineering, 2022, 19, 83-91. | 5.0 | 7 |
| 2405 | Wetting ridge assisted programmed magnetic actuation of droplets on ferrofluid-infused surface. Nature Communications, 2021, 12, 7136. | 12.8 | 51 |
| 2406 | Dynamic Contact Angle Measurement on a Microscopic Area and Application to Wettability Characterization of a Single Fiber. Langmuir, 2022, 38, 72-78. | 3.5 | 3 |
| 2407 | Directional and Adaptive Oil Selfâ€Transport on a Multiâ€Bioinspired Grooved Conical Spine. Advanced Functional Materials, 2022, 32, . | 14.9 | 34 |
| 2408 | Nanotechnology in the Olympic Winter Games and Beyond. ACS Nano, 2022, 16, 4981-4988. | 14.6 | 7 |
| 2409 | Special Wettability Materials Inspired by Multiorganisms for Fog Collection. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 9 |
| 2410 | On the maximal spreading of drops impacting onto a no-slip substrate. Physics of Fluids, 2022, 34, . | 4.0 | 7 |
| 2411 | Influence of different silicone oils on properties of MWCNTs-OH/PDMS coatings. Surface Engineering, 2022, 38, 191-198. | 2.2 | 7 |
| 2412 | Underwater Directional and Continuous Manipulation of Gas Bubbles on Superaerophobic Magnetically Responsive Microcilia Array. Advanced Functional Materials, 2022, 32, . | 14.9 | 19 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 2413 | Intrusion of liquids into liquid-infused surfaces with nanoscale roughness. Physical Review E, 2022, 105, 044803. | 2.1 | 2 |
| 2414 | Bioinspired interfacial design for gravity-independent fluid transport control. Giant, 2022, 10, 100100. | 5.1 | 5 |
| 2415 | Foaming process-induced porous silicone-based organogel for low biofouling adhesion with improved long-term stability. Progress in Organic Coatings, 2022, 167, 106864. | 3.9 | 2 |
| 2416 | 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 |
| 2419 | Effect of nutrient types on the hydration of cementitious materials with co-cultured bacteria. Case Studies in Construction Materials, 2022, , e01124. | 1.7 | 0 |
| 2420 | Nanoporous SiOx plasma polymer films as carrier for liquidâ€infused surfaces. Plasma Processes and Polymers, 2022, 19, . | 3.0 | 4 |
| 2421 | Bioinspired Functional Surfaces for Medical Devices. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, . | 3.7 | 6 |
| 2422 | Wetting behavior of silicon nanowires array fabricated by Metal-assisted chemical etching. Materials Today: Proceedings, 2022, 62, 5917-5922. | 1.8 | 5 |
| 2423 | <i>In vitro</i> hemocompatibility screening of a slippery liquid impregnated surface coating for extracorporeal organ support applications. Perfusion (United Kingdom), 2024, 39, 76-84. | 1.0 | 4 |
| 2424 | Surface design strategies for mitigating ice and snow accretion. Matter, 2022, 5, 1423-1454. | 10.0 | 31 |
| 2425 | Scalable and Robust Bio-inspired Organogel Coating by Spraying Method Towards Dynamic Anti-scaling. Chemical Research in Chinese Universities, 2023, 39, 127-132. | 2.6 | 2 |
| 2426 | Patterned Liquid-Infused Nanocoating Integrating a Sensitive Bacterial Sensing Ability to an Antibacterial Surface. ACS Applied Materials & Samp; Interfaces, 2022, 14, 23129-23138. | 8.0 | 13 |
| 2427 | Electroâ€∤Photoâ€Thermal Promoted Antiâ€Icing Materials: A New Strategy Combined with Passive Antiâ€Icing and Active Deâ€Icing. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 38 |
| 2428 | Development and assessment of the interface lattice Boltzmann flux solvers for multiphase flows. International Journal of Modern Physics C, 2022, 33, . | 1.7 | 2 |
| 2429 | Fabrication of UV-curable Anti-fouling coating based on fluorinated polyoxetane and long Side-Chain Polysilcone. European Polymer Journal, 2022, 172, 111227. | 5.4 | 4 |
| 2430 | Durable Liquid- and Solid-Repellent Elastomeric Coatings Infused with Partially Crosslinked Lubricants. ACS Applied Materials & Elastomeric Coatings Infused with Partially Crosslinked Lubricants. ACS Applied Materials & Elastomeric Coatings Infused with Partially Crosslinked | 8.0 | 7 |
| 2431 | Robust icephobic nanocomposite coatings with superior abrasion resistance. Applied Materials Today, 2022, 27, 101480. | 4.3 | 1 |
| 2432 | Review of droplet dynamics and dropwise condensation enhancement: Theory, experiments and applications. Advances in Colloid and Interface Science, 2022, 305, 102684. | 14.7 | 27 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2433 | Transparent polyurethane coating with synergistically enhanced antibacterial mechanism composed of low surface free energy and biocide. Chemical Engineering Journal, 2022, 445, 136716. | 12.7 | 15 |
| 2434 | Slippery coating without loss of lubricant. Chemical Engineering Journal, 2022, 444, 136606. | 12.7 | 35 |
| 2435 | Bioinspired Anisotropic Slippery Cilia for Stiffness-Controllable Bubble Transport. ACS Nano, 2022, 16, 9348-9358. | 14.6 | 19 |
| 2436 | Force-based dynamic contact angles on lubricant-infused surfaces. Experiments in Fluids, 2022, 63, . | 2.4 | 3 |
| 2437 | Flexible and Precise Droplet Manipulation by a Laser-Induced Shape Temperature Field on a Lubricant-Infused Surface. Langmuir, 2022, 38, 6731-6740. | 3.5 | 3 |
| 2438 | Advances in the development of superhydrophobic and icephobic surfaces. International Journal of Mechanics and Materials in Design, 2022, 18, 509-547. | 3.0 | 9 |
| 2439 | On the nature of wetting transition on high-aspect-ratio pNIPAAm micropillar structures. Surfaces and Interfaces, 2022, 31, 102062. | 3.0 | 1 |
| 2440 | Hydrophobically/oleophilically guarded powder metallurgical structures and liquid impregnation for ice mitigation. Chemical Engineering Journal, 2022, 446, 137115. | 12.7 | 5 |
| 2441 | Fabrication of polydimethylsiloxane-attached solid slippery surface with high underwater transparency towards the antifouling of optical window for marine instruments. Journal of Colloid and Interface Science, 2022, 623, 832-844. | 9.4 | 8 |
| 2442 | Deliverable Microparticles Coated with Nano-Forest Like Structure to Improve Dispersion and Biofouling Resistance. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2443 | Nanostructured Copper Hydroxide-Based Interfaces for Liquid/Liquid and Liquid/Gas Separations. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2444 | Directional Transport Behavior of Droplets on the Surfaces with ÂAsymmetric Slanted Cone Arrays. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2445 | Sustainable Thin-Film Condensation with Free Surface Flow Through Water Film Network. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2446 | Recent Progress in Functionalized Coatings for Corrosion Protection of Magnesium Alloys—A Review. Materials, 2022, 15, 3912. | 2.9 | 13 |
| 2447 | Magnetic manipulation of diamagnetic droplet on slippery liquid-infused porous surface. Physical Review Fluids, 2022, 7, . | 2.5 | 6 |
| 2448 | Three-Dimensional Droplet Manipulation with Electrostatic Levitation. Analytical Chemistry, 2022, 94, 8217-8225. | 6.5 | 12 |
| 2449 | A slippery hydrogel coating with durable oil-repellent property and self-regeneration capacity. Science China Technological Sciences, 2022, 65, 1819-1827. | 4.0 | 2 |
| 2450 | Recent Advances in Water Harvesting: A Review of Materials, Devices and Applications. Sustainability, 2022, 14, 6244. | 3.2 | 1 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 2451 | Selfâ€Lubricative Organic–Inorganic Hybrid Coating with Antiâ€Icing and Antiâ€Waxing Performances by Grafting Liquidâ€Like Polydimethylsiloxane. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 14 |
| 2452 | Bioinspired Multiâ€Transformability of Superhydrophobic Nanoâ€Magnetite Swarm for Adaptive Object Transportation. Advanced Functional Materials, 2022, 32, . | 14.9 | 3 |
| 2453 | Droplets on lubricated surfaces: The slow dynamics of skirt formation. Physical Review Fluids, 2022, 7, | 2.5 | 6 |
| 2454 | Nanochitin and Nanochitosan: Chitin Nanostructure Engineering with Multiscale Properties for Biomedical and Environmental Applications. Advanced Materials, 2023, 35, . | 21.0 | 33 |
| 2455 | Nanostructured block copolymer muscles. Nature Nanotechnology, 2022, 17, 752-758. | 31.5 | 53 |
| 2456 | Eco-friendly Dopamine-Modified Silica Nanoparticles for Oil-Repellent Coatings: Implications for Underwater Self-Cleaning and Antifogging Applications. ACS Applied Nano Materials, 2022, 5, 8038-8047. | 5.0 | 11 |
| 2457 | Robust silane self-assembled monolayer coatings on plasma-engineered copper surfaces promoting dropwise condensation. International Journal of Heat and Mass Transfer, 2022, 194, 123028. | 4.8 | 8 |
| 2458 | Droplet wettability and repellency on fluorinated lubricant-infused surfaces: A molecular dynamics study. Applied Surface Science, 2022, 598, 153782. | 6.1 | 7 |
| 2460 | Incorporation of Superamphiphobic and Slippery Patterned Materials for Water Collection Inspired from Beetle, Cactus, and Nepenthes. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2461 | Robust yet flexible slippery layered composite surfaces with a programmable pressure-resistance response under extreme environmental conditions. Journal of Materials Chemistry A, 2022, 10, 14933-14942. | 10.3 | 4 |
| 2462 | Role of chemistry in bio-inspired liquid wettability. Chemical Society Reviews, 2022, 51, 5452-5497. | 38.1 | 53 |
| 2464 | Waterborne superamphiphobic coatings with network structure for enhancing mechanical durability. RSC Advances, 2022, 12, 16510-16516. | 3.6 | 1 |
| 2465 | A bio-inspired solid–liquid compositing fluid-infused surface for prohibiting abiotic and microbiologically induced corrosion. Journal of Materials Science, 2022, 57, 10100-10117. | 3.7 | 3 |
| 2466 | Bio-inspired hemocompatible surface modifications for biomedical applications. Progress in Materials Science, 2022, 130, 100997. | 32.8 | 23 |
| 2467 | Omniâ€Liquid Droplet and Bubble Manipulation Platform Using Functional Organogel Blocks. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 2 |
| 2468 | Improvement of superhydrophobicity and durability of EP+PDMS/SiO2 composite coatings by adjusting laser curing powers. Materials Chemistry and Physics, 2022, 289, 126428. | 4.0 | 14 |
| 2469 | Evaporation-Induced Self-Assembly of Metal Oxide Inverse Opals: From Synthesis to Applications. Accounts of Chemical Research, 2022, 55, 1809-1820. | 15.6 | 23 |
| 2470 | A Multidisciplinary Experiment to Characterize Antifouling Biocompatible Interfaces via Quantification of Surface Protein Adsorption. Journal of Chemical Education, 2022, 99, 2667-2676. | 2.3 | 5 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2471 | Microscale Confinement and Wetting Contrast Enable Enhanced and Tunable Condensation. ACS Nano, 2022, 16, 9510-9522. | 14.6 | 14 |
| 2472 | Rational Design of Durable Anti-fouling Coatings with High Transparency, Hardness, and Flexibility. ACS Applied Materials & Samp; Interfaces, 2022, 14, 29156-29166. | 8.0 | 19 |
| 2473 | Mechanical Durability of Low Ice Adhesion Polydimethylsiloxane Surfaces. ACS Omega, 2022, 7, 20741-20749. | 3.5 | 6 |
| 2474 | Electrochemical Control of Biofilm Formation and Approaches to Biofilm Removal. Applied Sciences (Switzerland), 2022, 12, 6320. | 2.5 | 3 |
| 2475 | Nontoxic Liquid-Infused Slippery Coating Prepared on Steel Substrates Inhibits Corrosion and Biofouling Adhesion. ACS Applied Materials & Samp; Interfaces, 2022, 14, 29386-29397. | 8.0 | 16 |
| 2476 | Effective Icephobicity of Silicone Oil-Infused Oleamide–Polydimethylsiloxane with Enhanced Lubrication Lifetime. ACS Omega, 2022, 7, 21156-21162. | 3.5 | 2 |
| 2477 | Reactive Multilayer Coating As Versatile Nanoarchitectonics for Customizing Various Bioinspired Liquid Wettabilities. ACS Applied Materials & Samp; Interfaces, 2023, 15, 25232-25247. | 8.0 | 8 |
| 2478 | Laser-induced jigsaw-like graphene structure inspired by Oxalis corniculata Linn. leaf. Bio-Design and Manufacturing, 2022, 5, 700-713. | 7.7 | 7 |
| 2479 | Drag reduction ability of slippery liquid-infused surfaces: A review. Progress in Organic Coatings, 2022, 170, 106970. | 3.9 | 8 |
| 2480 | The effect of superhydrophobic coating composition on the topography and ice adhesion. Cold Regions Science and Technology, 2022, 201, 103623. | 3.5 | 8 |
| 2481 | Programmable microfluidic manipulations for biomedical applications. Engineered Regeneration, 2022, 3, 258-261. | 6.0 | 26 |
| 2482 | Self-oscillating polymer membranes with chemically fueled pore size oscillation mediated by pH-responsive polymer. Journal of Membrane Science, 2022, 658, 120742. | 8.2 | 3 |
| 2483 | PDMS and POSS-dangling zwitterionic polyurethane coatings with enhanced anti-icing performance. Progress in Organic Coatings, 2022, 170, 106972. | 3.9 | 5 |
| 2484 | Robust photothermal superhydrophobic coatings with dual-size micro/nano structure enhance anti-/de-icing and chemical resistance properties. Chemical Engineering Journal, 2022, 446, 137461. | 12.7 | 30 |
| 2485 | Improving Surface Performance of Composite Insulators by Multifunctional Nano-Coating. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 2486 | Vapor Lubrication for Reducing Water and Ice Adhesion on Poly(dimethylsiloxane) Brushes. Advanced Materials, 2022, 34, . | 21.0 | 17 |
| 2487 | Role of Molecular Chains Arrangement and Surface Energy State in the Low Ice Adhesion on Poly(tetrafluoroethylene). Journal of Physical Chemistry Letters, 2022, 13, 6117-6122. | 4.6 | 0 |
| 2488 | On the lifetimes of two-dimensional droplets on smooth wetting patterns. Journal of Engineering Mathematics, 2022, 135, . | 1.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2489 | Binary Cooperative Complementary Membranes: A Perspective. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 0 |
| 2490 | Universal and Stable Slippery Coatings: Chemical Combination Induced Adhesive‣ubricant Cooperation. Small, 2022, 18, . | 10.0 | 8 |
| 2491 | Large-area, daily, on-site-applicable antiadhesion coatings formed via ambient self-crosslinking. Chemical Engineering Journal, 2022, 450, 138156. | 12.7 | 2 |
| 2492 | Bioinspired Antiâ€Fogging and Antiâ€Fouling Artificial Compound Eyes. Advanced Optical Materials, 2022, 10, . | 7.3 | 13 |
| 2493 | Two birds with one stone: The route from waste printed circuit board electronic trash to multifunctional biomimetic slippery liquid-infused coating. Journal of Industrial and Engineering Chemistry, 2022, 114, 233-241. | 5.8 | 10 |
| 2494 | Light-induced charged slippery surfaces. Science Advances, 2022, 8, . | 10.3 | 63 |
| 2495 | Optofluidic Platform for the Manipulation of Water Droplets on Engineered LiNbO ₃ Surfaces. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 18 |
| 2496 | Singleâ€Step Wetâ€Process Formation of Dualâ€Layer Superslippery Coating with Transparency and Robust Omniphobicity. Advanced Materials Interfaces, 0, , 2200497. | 3.7 | 2 |
| 2497 | Droplet bouncing on topological nonwetting surfaces via laser fabrication. Journal of Intelligent Manufacturing and Special Equipment, 2022, 3, 192. | 0.8 | 0 |
| 2498 | Recent Progress on Bioinspired Antibacterial Surfaces for Biomedical Application. Biomimetics, 2022, 7, 88. | 3.3 | 12 |
| 2499 | Ultrascalable Surface Structuring Strategy of Metal Additively Manufactured Materials for Enhanced Condensation. Advanced Science, 2022, 9, . | 11.2 | 8 |
| 2500 | Spontaneous Self-healing Bio-inspired Lubricant-infused Coating on Pipeline Steel Substrate with Reinforcing Anti-corrosion, Anti-fouling, and Anti-scaling Properties. Journal of Bionic Engineering, 2022, 19, 1601-1614. | 5.0 | 5 |
| 2501 | Controllable Droplet Sliding on a Smart Shapeâ∈Memory Slippery Surface. Chemistry - an Asian Journal, 0, , . | 3.3 | 1 |
| 2502 | Durable Icephobic Slippery Liquid-Infused Porous Surfaces (SLIPS) Using Flame- and Cold-Spraying. Sustainability, 2022, 14, 8422. | 3.2 | 7 |
| 2503 | Flame Retardant and Conductive Superhydrophobic Cotton Fabric with Excellent Electrothermal Property for Efficient Crudeâ€Oil/Water Mixture Separation and Fast Deicing. Advanced Engineering Materials, 2022, 24, . | 3.5 | 5 |
| 2504 | Electron transfer dominated triboelectrification at the hydrophobic/slippery substrateâ€"water interfaces. Friction, 0, , . | 6.4 | 2 |
| 2505 | Synergistic Poly(lactic acid) Antibacterial Surface Combining Superhydrophobicity for Antiadhesion and Chlorophyll for Photodynamic Therapy. Langmuir, 2022, 38, 8987-8998. | 3.5 | 10 |
| 2506 | Experimental and theoretical study of electrowetting dynamics on slippery lubricant-infused porous surfaces. Sensors and Actuators A: Physical, 2022, 344, 113734. | 4.1 | 1 |

| # | Article | IF | Citations |
|------|--|------|-----------|
| 2507 | Anti-icing strategies are on the way. Innovation(China), 2022, 3, 100278. | 9.1 | 3 |
| 2508 | Slippery concrete for sanitation. Progress in Organic Coatings, 2022, 171, 107022. | 3.9 | 8 |
| 2509 | Nanostructured copper hydroxide-based interfaces for liquid/liquid and liquid/gas separations. Separation and Purification Technology, 2022, 298, 121573. | 7.9 | 7 |
| 2510 | Functional microdroplet self-dislodging icephobic surfaces: A review from mechanism to synergic morphology. Applied Thermal Engineering, 2022, 215, 118928. | 6.0 | 4 |
| 2511 | Sustainable thin-film condensation with free surface flow through water film network. International Journal of Heat and Mass Transfer, 2022, 196, 123222. | 4.8 | 3 |
| 2512 | Programmable droplet transport on multi-bioinspired slippery surface with tridirectionally anisotropic wettability. Chemical Engineering Journal, 2022, 449, 137831. | 12.7 | 35 |
| 2513 | Bubble freeze casting artificial rattan. Chemical Engineering Journal, 2022, 449, 137870. | 12.7 | 9 |
| 2514 | Au Nanoparticles on Superhydrophobic Scaffolds for Large-Area Surface-Enhanced Raman Scattering Substrates. ACS Applied Nano Materials, 2022, 5, 11080-11090. | 5.0 | 2 |
| 2515 | Transparent and robust omniphobic surface using colloidal polymer layers. Journal of the Iranian Chemical Society, 0, , . | 2.2 | 0 |
| 2516 | Design of Metal-Based Slippery Liquid-Infused Porous Surfaces (SLIPSs) with Effective Liquid Repellency Achieved with a Femtosecond Laser. Micromachines, 2022, 13, 1160. | 2.9 | 4 |
| 2517 | Liquid-Repellent Surfaces. Langmuir, 2022, 38, 9073-9084. | 3.5 | 16 |
| 2518 | Necrobotics: Biotic Materials as Readyâ€toâ€Use Actuators. Advanced Science, 2022, 9, . | 11.2 | 8 |
| 2519 | Recent progress of bioinspired interfacial materials towards efficient and sustainable scale resistance. Giant, 2022, 11, 100116. | 5.1 | 2 |
| 2520 | Nanostructure-based Wettability Modification of TiAl6V4 Alloy Surface for Modulating Biofilm Production: Superhydrophilic, Superhydrophobic, and Slippery Surfaces. Journal of Alloys and Compounds, 2022, , 166492. | 5.5 | 2 |
| 2521 | An integrated mesh with an anisotropic surface for unidirectional liquid manipulation. Chemical Communications, 2022, 58, 9544-9547. | 4.1 | 0 |
| 2522 | Bioinspired Lubricated Slippery Magnetic Responsive Microplate Array for High Performance Multiâ€Substance Transport. Advanced Functional Materials, 2022, 32, . | 14.9 | 24 |
| 2523 | Bioinspired materials for droplet manipulation: Principles, methods and applications., 2022, 1, 11-37. | | 65 |
| 2524 | Thermo-driven oleogel-based self-healing slippery surface behaving superior corrosion inhibition to Mg-Li alloy. Journal of Magnesium and Alloys, 2023, 11, 4710-4723. | 11.9 | 13 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2525 | Tailoring the Hydrophilicity for Delayed Condensation Frosting in Antifogging Coatings. ACS Applied Materials & Samp; Interfaces, 2022, 14, 35064-35073. | 8.0 | 9 |
| 2526 | Anti-smudge and self-cleaning characteristics of waterborne polyurethane coating and its construction. Journal of Colloid and Interface Science, 2022, 628, 1070-1081. | 9.4 | 29 |
| 2527 | Ultralow-adhesion icephobic surfaces: Combining superhydrophobic and liquid-like properties in the same surface. Nano Research, 2023, 16, 589-598. | 10.4 | 12 |
| 2528 | Topographical Design and Thermal-Induced Organization of Interfacial Water Structure to Regulate the Wetting State of Surfaces. Jacs Au, 2022, 2, 1989-2000. | 7.9 | 4 |
| 2529 | The Liquid Young's Law on SLIPS: Liquid–Liquid Interfacial Tensions and Zisman Plots. Langmuir, 2022, 38, 10032-10042. | 3.5 | 13 |
| 2530 | Recent Developments in Multifunctional Antimicrobial Surfaces and Applications toward Advanced Nitric Oxide-Based Biomaterials. ACS Materials Au, 2022, 2, 525-551. | 6.0 | 23 |
| 2531 | Lubricant skin on diverse biomaterials with complex shapes via polydopamine-mediated surface functionalization for biomedical applications. Bioactive Materials, 2023, 25, 555-568. | 15.6 | 7 |
| 2532 | Two local slip modes at the liquid–liquid interface over liquid-infused surfaces. Physics of Fluids, 2022, 34, . | 4.0 | 4 |
| 2533 | Discontinuous streaming potential via liquid gate. EScience, 2022, 2, 615-622. | 41.6 | 8 |
| 2534 | Laser-Induced Slippery Liquid-Infused Surfaces with Anticorrosion and Wear Resistance Properties on Aluminum Alloy Substrates. ACS Omega, 2022, 7, 28160-28172. | 3.5 | 3 |
| 2535 | Leveraging Solidification Dynamics to Design Robust Ice-Shedding Surfaces. ACS Applied Materials & Leverage & | 8.0 | 4 |
| 2536 | Bio-inspired manufacturing of superwetting surfaces for fog collection and anti-icing applications. Science China Technological Sciences, 2022, 65, 1975-1994. | 4.0 | 3 |
| 2537 | Biphasic Microdroplet–Microdroplet Extraction for Ultraâ€Trace Enriching Analysis. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 3 |
| 2538 | Contamination and carryover free handling of complex fluids using lubricant-infused pipette tips. Scientific Reports, 2022, 12, . | 3.3 | 5 |
| 2539 | Bioinspired Surface Design for Magnesium Alloys with Corrosion Resistance. Metals, 2022, 12, 1404. | 2.3 | 3 |
| 2540 | Robust and Transparent Lossless Directional Omniphobic Ultra-Thin Sticker-Type Film with Re-entrant Micro-Stripe Arrays. ACS Applied Materials & Interfaces, 2022, 14, 39646-39653. | 8.0 | 4 |
| 2541 | Oscillations of Drops with Mobile Contact Lines on the International Space Station: Elucidation of Terrestrial Inertial Droplet Spreading. Physical Review Letters, 2022, 129, . | 7.8 | 7 |
| 2542 | Bioinspired zwitterionic microgel-based coating: Controllable microstructure, high stability, and anticoagulant properties. Acta Biomaterialia, 2022, 151, 290-303. | 8.3 | 10 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2543 | Low friction of superslippery and superlubricity: A review. Friction, 2023, 11, 1121-1137. | 6.4 | 18 |
| 2544 | Self-Assembled, Hierarchical Structured Surfaces for Applications in (Super)hydrophobic Antiviral Coatings. Langmuir, 0, , . | 3.5 | 2 |
| 2545 | Biomimetic superhydrophobic metal/nonmetal surface manufactured by etching methods: A mini review. Frontiers in Bioengineering and Biotechnology, $0,10,10$ | 4.1 | 18 |
| 2546 | Achieving ultra-stable and superior electricity generation by integrating transistor-like design with lubricant armor. Innovation(China), 2022, 3, 100301. | 9.1 | 8 |
| 2547 | Recent advances of bio-inspired anti-icing surfaces. Advances in Colloid and Interface Science, 2022, 308, 102756. | 14.7 | 32 |
| 2548 | Wettability tailored superhydrophobic and oil-infused slippery aluminium surface for improved anti-corrosion performance. Materials Chemistry and Physics, 2022, 290, 126517. | 4.0 | 12 |
| 2549 | An extreme environment-tolerant anti-icing coating. Chemical Engineering Science, 2022, 262, 118010. | 3.8 | 6 |
| 2550 | Castor oil-based transparent and omniphobic polyurethane coatings with high hardness, anti-smudge and anti-corrosive properties. Progress in Organic Coatings, 2022, 172, 107120. | 3.9 | 8 |
| 2551 | Capillary pressure mediated long-term dynamics of thin soft films. Journal of Colloid and Interface Science, 2022, 628, 788-797. | 9.4 | 2 |
| 2552 | Improving surface performance of silicone rubber for composite insulators by multifunctional Nano-coating. Chemical Engineering Journal, 2023, 451, 138679. | 12.7 | 16 |
| 2553 | Carnivorous plants inspired shape-morphing slippery surfaces. Opto-Electronic Advances, 2023, 6, 210163-210163. | 13.3 | 14 |
| 2554 | Silica-nanoparticle reinforced lubricant-infused copper substrates with enhanced lubricant retention for maintenance-free heat exchangers. Chemical Engineering Journal, 2023, 451, 138657. | 12.7 | 4 |
| 2555 | Slippery lubricant-infused porous surface based on porous aluminum oxide used for anti-fouling and passive defrosting performance. Journal of Materials Science, 2022, 57, 16665-16674. | 3.7 | 2 |
| 2556 | Characteristics of droplet exudation on slippery liquid-infused porous surfaces considering thermal effect. Surface and Coatings Technology, 2022, 447, 128833. | 4.8 | 2 |
| 2557 | On the wetting behavior of laser-microtextured stainless steel using Direct Laser Interference Patterning. Surface and Coatings Technology, 2022, 447, 128869. | 4.8 | 4 |
| 2558 | Recent developments in antibacterial or antibiofilm compound coating for biliary stents. Colloids and Surfaces B: Biointerfaces, 2022, 219, 112837. | 5.0 | 6 |
| 2559 | Water-repellent and corrosion resistance properties of epoxy-resin-based slippery liquid-infused porous surface. Progress in Organic Coatings, 2022, 172, 107152. | 3.9 | 7 |
| 2560 | Multi-liquid repellent, fluorine-free, heat stable SLIPS via layer-by-layer assembly. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 654, 130076. | 4.7 | 3 |

| # | Article | IF | CITATIONS |
|------|---|--------------|-----------|
| 2561 | TiO2-based slippery liquid-infused porous surfaces with excellent ice-phobic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 654, 129994. | 4.7 | 11 |
| 2562 | Super-omniphobic surface prepared from a multicomponent coating of fluoro-containing polymer and silica nanoparticles. Progress in Organic Coatings, 2022, 173, 107174. | 3.9 | 3 |
| 2563 | Oil Retention Properties of Elastomer Based Slippery Liquid Infused Surfaces Under Extreme Conditions. SSRN Electronic Journal, 0 , , . | 0.4 | 0 |
| 2564 | Fracture-controlled surfaces as extremely durable ice-shedding materials. Materials Horizons, 2022, 9, 2524-2532. | 12.2 | 11 |
| 2565 | Responsive and reactive layer-by-layer coatings for deriving functional interfaces. Materials Advances, 2023, 4, 35-51. | 5 . 4 | 1 |
| 2566 | Hydro-/ice-phobic coatings and materials for wind turbine icing mitigation. , 2022, , 135-168. | | O |
| 2567 | Sustainable scale resistance on a bioinspired synergistic microspine coating with a collectible liquid barrier. Materials Horizons, 0, , . | 12.2 | 0 |
| 2568 | Bioinspired ionic hydrogel materials with excellent antifouling properties and high conductivity in dry and cold environments. Polymer Chemistry, 2022, 13, 4711-4716. | 3.9 | 1 |
| 2569 | Robust and durable liquid-repellent surfaces. Chemical Society Reviews, 2022, 51, 8476-8583. | 38.1 | 105 |
| 2570 | Low ice adhesion anti-icing coatings based on PEG release from mesoporous silica particle loaded SBS. Materials Advances, 2022, 3, 8168-8177. | 5.4 | 4 |
| 2571 | Respiratory mucosa-inspired "sticky-slippery coating―with transparency and structure adaptation based on comb-polymer nanogel. Chemical Engineering Journal, 2023, 452, 139478. | 12.7 | 8 |
| 2572 | Photothermal responsive slippery surfaces based on laser-structured graphene@PVDF composites. Journal of Colloid and Interface Science, 2023, 629, 582-592. | 9.4 | 21 |
| 2573 | Hydrophilic reentrant SLIPS enabled flow separation for rapid water harvesting. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 18 |
| 2574 | Spreading of water on a liquid-infused solid. Physical Review Fluids, 2022, 7, . | 2.5 | 0 |
| 2575 | Research on Metal Corrosion Resistant Bioinspired Special Wetting Surface Based on Laser Texturing Technology: A Review. Micromachines, 2022, 13, 1431. | 2.9 | 7 |
| 2576 | Foodâ€Based Capacitive Sensors Using a Dynamic Permittivity Change with Hydrogels Responsive to Hydrogen Peroxide. Advanced Materials Technologies, 2022, 7, . | 5.8 | 6 |
| 2577 | Active Manipulation of Functional Droplets on Slippery Surface. Advanced Functional Materials, 2022, 32, . | 14.9 | 12 |
| 2578 | Lubricant-entrenched slippery surface-based nanocarriers to avoid macrophage uptake and improve drug utilization. Journal of Advanced Research, 2023, 48, 61-74. | 9.5 | 6 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2579 | Structural and Interfacial Effects on Drug Release Kinetics of Liquid-Based Fibrous Catheter. Advanced Fiber Materials, 2022, 4, 1645-1655. | 16.1 | 6 |
| 2580 | Bio-inspired materials to control and minimise insect attachment. Bioinspiration and Biomimetics, 2022, 17, 051001. | 2.9 | 3 |
| 2581 | Visible-Light-Driven Photocatalysts for Self-Cleaning Transparent Surfaces. Langmuir, 2022, 38, 11641-11649. | 3.5 | 6 |
| 2582 | Laser-Enabled Surface Treatment of Disposable Endoscope Lens with Superior Antifouling and Optical Properties. Langmuir, 2022, 38, 11392-11405. | 3.5 | 6 |
| 2583 | Superhydrophobic Coating Deposited on Foamed Concrete with Superâ€robust Mechanical and Selfâ€repairing Properties. Physica Status Solidi (A) Applications and Materials Science, 0, , . | 1.8 | 0 |
| 2584 | Ideas Inspired by Nature to Combat Marine Biofouling and Corrosion. Coatings, 2022, 12, 1434. | 2.6 | 5 |
| 2585 | A review on control of droplet motion based on wettability modulation: principles, design strategies, recent progress, and applications. Science and Technology of Advanced Materials, 2022, 23, 473-497. | 6.1 | 10 |
| 2586 | Introducing the Latest Self-healing Polymer Based on Thioctic Acid into the Undergraduate Chemistry Laboratory. Journal of Chemical Education, 2022, 99, 3488-3496. | 2.3 | 3 |
| 2587 | Smooth Transparent Omniphobic Coatings with Remarkable Liquid Repellence. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 2 |
| 2588 | The Modulation of Electrokinetic Streaming Potentials of Silicon-Based Surfaces through Plasma-Based Surface Processing. Langmuir, 2022, 38, 11837-11844. | 3.5 | 1 |
| 2589 | Smallâ€Scale Robotics with Tailored Wettability. Advanced Materials, 2023, 35, . | 21.0 | 14 |
| 2590 | Thermo-responsive Fluorinated Organogels Showing Anti-fouling and Long-Lasting/Repeatable Icephobic Properties. Langmuir, 2022, 38, 11362-11371. | 3.5 | 6 |
| 2591 | A review on nature-inspired gating membranes: From concept to design and applications. Journal of Chemical Physics, 2022, 157 , . | 3.0 | 8 |
| 2592 | Mucosa-interfacing electronics. Nature Reviews Materials, 2022, 7, 908-925. | 48.7 | 35 |
| 2593 | Preparation and anti-icing performance of liquid lubricant micro-nano composite coating based on modified nano-SiO ₂ . Journal of Adhesion Science and Technology, 2023, 37, 2139-2153. | 2.6 | 3 |
| 2594 | Manipulation of droplets and bubbles for thermal applications. , 2022, 1, 80-91. | | 26 |
| 2595 | Copper capillaries with lubricant-infused walls: fabrication and drag reduction performance. Microfluidics and Nanofluidics, 2022, 26, . | 2.2 | 2 |
| 2596 | Bioinspired liquid-infused surface for biomedical and biosensing applications. Frontiers in Bioengineering and Biotechnology, 0, 10 , . | 4.1 | 3 |

| # | Article | IF | CITATIONS |
|------|--|-------------|-----------|
| 2597 | Cloaking Transition of Droplets on Lubricated Brushes. Journal of Physical Chemistry B, 2022, 126, 7047-7058. | 2.6 | 6 |
| 2598 | 3D Optical Heterostructure Patterning by Spatially Allocating Nanoblocks on a Printed Matrix. ACS Nano, 2022, 16, 14838-14848. | 14.6 | 14 |
| 2599 | lodine-Oxidized Diene-Based Rubbers as Anti-icing and Deicing Polymer Coatings. Langmuir, 2022, 38, 12382-12389. | 3. 5 | 4 |
| 2600 | Development of Slippery Liquid-Infused Porous Surface on AZ31 Mg Alloys for Corrosion Protection. Acta Metallurgica Sinica (English Letters), 2023, 36, 229-236. | 2.9 | 1 |
| 2601 | Special Superwetting Materials from Bioinspired to Intelligent Surface for Onâ€Demand Oil/Water Separation: A Comprehensive Review. Small, 2022, 18, . | 10.0 | 44 |
| 2602 | Slippery or sticky nanoâ€porous silica coatings impregnated with squalane: The role of oil overâ€layer. Lubrication Science, 0, , . | 2.1 | 2 |
| 2603 | Patterning Wettability for Open-Surface Fluidic Manipulation: Fundamentals and Applications. Chemical Reviews, 2022, 122, 16752-16801. | 47.7 | 28 |
| 2604 | Spontaneous Charging of Drops on Lubricant-Infused Surfaces. Langmuir, 2022, 38, 12610-12616. | 3.5 | 2 |
| 2605 | A substrate-friendly, sepiolite-based porous surface infused with slippery liquid with outstanding liquid repellency and metal corrosion resistance. Surface and Coatings Technology, 2022, 449, 128935. | 4.8 | 2 |
| 2606 | Bioinspired metal-organic framework-based liquid-infused surface (MOF-LIS) with corrosion and biofouling prohibition properties. Surfaces and Interfaces, 2022, 34, 102363. | 3.0 | 4 |
| 2607 | Slippery liquid-infused porous surface (SLIPS) with super-repellent and contact-killing antimicrobial performances. Colloids and Surfaces B: Biointerfaces, 2022, 220, 112878. | 5.0 | 6 |
| 2608 | Superhydrophobic microstructures for better anti-icing performances: open-cell or closed-cell?. Materials Horizons, 2023, 10, 209-220. | 12.2 | 20 |
| 2609 | Slip of submerged two-dimensional liquid-infused surfaces in the presence of surfactants. Journal of Fluid Mechanics, 2022, 950, . | 3.4 | 6 |
| 2610 | Droplets in soft materials. , 2022, 1, 110-138. | | 9 |
| 2611 | Enhanced Anticorrosion and Antifouling Properties of Lubricantâ€Infused Pyramidal Polydimethylsiloxane Coating. Macromolecular Materials and Engineering, 2023, 308, . | 3.6 | 2 |
| 2613 | Bioinspired superwetting materials for water manipulation. , 2022, 1, 139-169. | | 53 |
| 2614 | Superhydrophobic Biological Fluidâ€Repellent Surfaces: Mechanisms and Applications. Small Methods, 2022, 6, . | 8.6 | 13 |
| 2615 | Robust and Highly Transparent Photocurable Fluorinated Polyurethane Coating Prepared via Thiol-Click Reactions and What Essentially Influences Omniphobic Coating's Anti-Graffiti Properties. ACS Applied Polymer Materials, 2022, 4, 8386-8395. | 4.4 | 7 |

| # | Article | IF | Citations |
|------|---|------|-----------|
| 2616 | Green Fabrication of Anti-friction Slippery Liquid-Infused Metallic Surface with Sub-millimeter-Scale Asymmetric Bump Arrays and Its Application. International Journal of Precision Engineering and Manufacturing - Green Technology, 2023, 10, 1281-1298. | 4.9 | 2 |
| 2617 | Ultrastable Super-Hydrophobic Surface with an Ordered Scaly Structure for Decompression and Guiding Liquid Manipulation. ACS Nano, 2022, 16, 16843-16852. | 14.6 | 19 |
| 2618 | Light-Driven Liquid Conveyors: Manipulating Liquid Mobility and Transporting Solids on Demand. ACS Nano, 2022, 16, 16353-16362. | 14.6 | 9 |
| 2619 | Wettability-based ultrasensitive detection of amphiphiles through directed concentration at disordered regions in self-assembled monolayers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 10 |
| 2620 | Investigation on the Anisotropic Wetting Properties of Water Droplets on Bio-Inspired Groove Structures Fabricated by 3D Printing and Surface Modifications. Biomimetics, 2022, 7, 174. | 3.3 | 1 |
| 2621 | Design of a Liquidâ€Driven Laser Scanner with Low Voltage Based on Liquidâ€Infused Membrane. Advanced Intelligent Systems, 2023, 5, . | 6.1 | 1 |
| 2622 | Gradient droplet distribution promotes spontaneous formation of frost-free zone. Communications Materials, 2022, 3, . | 6.9 | 7 |
| 2623 | Review on formation of biofouling in the marine environment and functionalization of new marine antifouling coatings. Journal of Materials Science, 2022, 57, 18221-18242. | 3.7 | 17 |
| 2624 | Effect of Lubricant Viscosity on Wetting Behaviors and Durability of Anti-icing Slippery Liquid-Infused Porous Surfaces. Journal of Physics: Conference Series, 2022, 2351, 012004. | 0.4 | 3 |
| 2625 | Study on the Mechanism of Elastic Instability Caused by Natural Growth in Orthotropic Material. Materials, 2022, 15, 7059. | 2.9 | 0 |
| 2626 | Double-Layer Superhydrophobic Anti-Icing Coating Based on Carbon Nanoparticles. Crystals, 2022, 12, 1501. | 2.2 | 2 |
| 2627 | Anti-wetting surfaces with self-healing property: Fabrication strategy and application. Journal of Industrial and Engineering Chemistry, 2023, 117, 54-69. | 5.8 | 5 |
| 2628 | High-flux bacterial cellulose ultrafiltration membrane with controllable pore structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 656, 130428. | 4.7 | 9 |
| 2629 | Microporous Structure Formation of Poly(methyl methacrylate) via Polymerization-Induced Phase Separation in the Presence of Poly(ethylene glycol). ACS Omega, 2022, 7, 38933-38941. | 3.5 | 2 |
| 2630 | Biology and nature: Bionic superhydrophobic surface and principle. Frontiers in Bioengineering and Biotechnology, 0, 10 , . | 4.1 | 10 |
| 2631 | The reduction in ice adhesion using controlled topography superhydrophobic coatings. Journal of Coatings Technology Research, 0, , . | 2.5 | 0 |
| 2632 | Biomimetic liquid infused surface based on nano-porous array: Corrosion resistance for tin metal and self-healing property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 656, 130482. | 4.7 | 5 |
| 2633 | Superhydrophobic and superoleophilic fabrics with self-healing property and durability based on a waterborne aqueous solution. Materials Today Communications, 2022, 33, 104701. | 1.9 | 1 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2634 | Experimental and numerical study on freezing process of water droplets under surfaces with different wettability. Applied Thermal Engineering, 2023, 219, 119516. | 6.0 | 13 |
| 2635 | A facile method for fabricating super-slippery surface with long term and high-efficiency sustained release performance. Progress in Organic Coatings, 2023, 174, 107275. | 3.9 | 3 |
| 2636 | Lubricating organohydrogel with ultrahigh durability and super-weatherability enabled by molecular chains aligned strategy for drag-reduction coating. Chemical Engineering Journal, 2023, 454, 140057. | 12.7 | 5 |
| 2637 | Novel solid-infused durable nonwetting surfaces for sustained condensation heat transfer enhancement. Applied Thermal Engineering, 2023, 219, 119458. | 6.0 | 3 |
| 2638 | Solvent Volatilization-Induced Cross-Linking of PDMS Coatings for Large-Scale Deicing Applications. ACS Applied Polymer Materials, 2023, 5, 57-66. | 4.4 | 4 |
| 2639 | Durable drag reduction and anti-corrosion for liquid flows inside lubricant-infused aluminum/copper capillaries. Chemical Engineering Science, 2023, 266, 118275. | 3.8 | 1 |
| 2640 | Water-Repellent Coatings on Corrosion Resistance by Femtosecond Laser Processing. Coatings, 2022, 12, 1736. | 2.6 | 6 |
| 2641 | Bio-inspired water-driven electricity generators: From fundamental mechanisms to practical applications., 2023, 2, e9120042. | | 39 |
| 2642 | Total Liquid Transfer with Enhanced Contact Line Slippage. Langmuir, 2022, 38, 14238-14248. | 3.5 | 0 |
| 2643 | Biomimetic slippery liquid-infused porous surface on the basis of hierarchical ZIF-67@Cu dendrite: Preparation and corrosion inhibition. Journal of Industrial and Engineering Chemistry, 2023, 118, 298-308. | 5.8 | 7 |
| 2644 | Growth-Induced Wrinkles and Dotlike Patterns of a Swollen Fluoroalkylated Thin Film by the Reaction of Surface-Attached Polymethylhydrosiloxane. Langmuir, 2022, 38, 14140-14152. | 3.5 | 2 |
| 2645 | Biological self-healing strategies from mechanically robust heterophasic liquid metals. Matter, 2023, 6, 226-238. | 10.0 | 5 |
| 2646 | Improved Recovery of Captured Airborne Bacteria and Viruses with Liquid-Coated Air Filters. ACS Applied Materials & Coated Air Filters. ACS Access Acces | 8.0 | 7 |
| 2647 | Highly reliable transparent superhydrophobic composite by organosilane/denture base resin-modified alkylated silica nanoparticles against contaminants. Surfaces and Interfaces, 2022, 35, 102460. | 3.0 | 3 |
| 2648 | Slippery Epidural ECoG Electrode for High-Performance Neural Recording and Interface. Biosensors, 2022, 12, 1044. | 4.7 | 0 |
| 2649 | Immobilizing Ionic Liquids onto Functionalized Surfaces for Sensing Volatile Organic Compounds. Langmuir, 2022, 38, 14550-14562. | 3.5 | 7 |
| 2650 | Evaporative drying of a water droplet on liquid infused sticky surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 657, 130514. | 4.7 | 5 |
| 2651 | Sebaceous gland-inspired self-lubricated de-icing coating by continuously secreting lubricants. Progress in Organic Coatings, 2023, 174, 107311. | 3.9 | 2 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2652 | How to Select Phase Change Materials for Tuning Condensation and Frosting?. Advanced Functional Materials, 2023, 33, . | 14.9 | 4 |
| 2653 | Incorporation of superamphiphobic and slippery patterned materials for water collection inspired by beetle, cactus, and <i>Nepenthes</i> . New Journal of Chemistry, 2023, 47, 1962-1972. | 2.8 | 1 |
| 2654 | A smart underoil"water diodeâ€Janus TiO2 mesh membrane. Chemical Engineering Journal, 2023, 456, 141038. | 12.7 | 3 |
| 2655 | A facile method to fabricate the durable and self-protective coating for marine applications. Surface and Coatings Technology, 2023, 452, 129124. | 4.8 | 5 |
| 2656 | Advances in micro and nanoengineered surfaces for enhancing boiling and condensation heat transfer: a review. Nanoscale Advances, 2023, 5, 1232-1270. | 4.6 | 18 |
| 2657 | A paraffin-wax-infused porous membrane with thermo-responsive properties for fouling-release microfiltration. Journal of Membrane Science, 2023, 668, 121284. | 8.2 | 6 |
| 2658 | Slippery liquid infused porous surfaces with anti-icing performance fabricated by direct laser interference lithography. Progress in Organic Coatings, 2023, 175, 107308. | 3.9 | 10 |
| 2659 | High-hydrophobic ZIF-67@PLA honeycomb aerogel for efficient oil–water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130768. | 4.7 | 10 |
| 2660 | Dynamic evolution of oil–water interface during displacement in microcavities. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130698. | 4.7 | 0 |
| 2661 | Fecalphobic oil-coated femtosecond-laser-processed PTFE surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 659, 130742. | 4.7 | 0 |
| 2662 | Effect of Marangoni condensation on the heat transfer performance of two-phase closed thermosyphons. International Journal of Heat and Mass Transfer, 2023, 202, 123669. | 4.8 | 0 |
| 2663 | Radiative cooling layer boosting hydrophilic-hydrophobic patterned surface for efficient water harvesting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130584. | 4.7 | 6 |
| 2664 | Bioinspired slippery asymmetric bumps of candle soot coating for condensation and directional transport of water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130574. | 4.7 | 0 |
| 2665 | Microporous metallic scaffolds supported liquid infused icephobic construction. Journal of Colloid and Interface Science, 2023, 634, 369-378. | 9.4 | 5 |
| 2666 | Synergistic effect of helically-finned directional tracks and lubricant viscosity on droplet dynamics and condensation heat transfer of bioinspired slippery surfaces. International Journal of Heat and Mass Transfer, 2023, 203, 123757. | 4.8 | 3 |
| 2667 | Tailoring micro/nano-materials with special wettability for biomedical devices., 2023, 2, 15-30. | | 10 |
| 2668 | Interfaces with Fluorinated Amphiphiles: Superstructures and Microfluidics. Angewandte Chemie - International Edition, 2023, 62, . | 13.8 | 8 |
| 2669 | A review of superwetting membranes and nanofibers for efficient oil/water separation. Journal of Materials Science, 2023, 58, 3-33. | 3.7 | 22 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2670 | Meniscus-Induced Directional Self-Transport of Submerged Bubbles on a Slippery Oil-Infused Pillar Array with Height-Gradient. Langmuir, 2022, 38, 15001-15007. | 3.5 | 2 |
| 2671 | GrenzflÃ z hen mit fluorierten Amphiphilen: Überstrukturen und Mikrofluidik. Angewandte Chemie, 2023, 135, . | 2.0 | 0 |
| 2672 | Lubrication effects on droplet manipulation by electrowetting-on-dielectric (EWOD). Journal of Applied Physics, 2022, 132, . | 2.5 | 6 |
| 2673 | Polystyrene-Based Slippery Surfaces Enable the Generation and Easy Retrieval of Tumor Spheroids. ACS Applied Bio Materials, 2022, 5, 5582-5594. | 4.6 | 4 |
| 2674 | Highly Stable Hierarchically Structured All-Polymeric Lubricant-Infused Films Prevent Thrombosis and Repel Multidrug-Resistant Pathogens. ACS Applied Materials & 2022, 14, 53535-53545. | 8.0 | 4 |
| 2675 | Liquid/air dynamic behaviors and regulation mechanisms for bioinspired surface. Applied Physics Reviews, 2022, 9, . | 11.3 | 7 |
| 2676 | Durable Nanofluidsâ€Infused Hierarchical Surfaces with High Corrosion and Abrasion Resistance. Advanced Engineering Materials, 2023, 25, . | 3.5 | 1 |
| 2677 | Multifunctional dropletâ€surface interaction effected by bulk properties. , 2023, 2, . | | 10 |
| 2678 | Freezing as a Path to Build Microâ€Nanostructured Icephobic Coatings. Advanced Functional Materials, 2023, 33, . | 14.9 | 10 |
| 2679 | Magnetocontrollable droplet mobility on liquid crystal-infused porous surfaces. Nano Research, 2023, 16, 5098-5107. | 10.4 | 2 |
| 2680 | Strategies to Mitigate and Treat Orthopaedic Device-Associated Infections. Antibiotics, 2022, 11, 1822. | 3.7 | 9 |
| 2681 | Biomimetic Superhydrophobic Materials Construct from Binary Structure: A Review on Design, Properties, and Applications. Advanced Materials Interfaces, 2023, 10, . | 3.7 | 5 |
| 2682 | Nature-inspired reentrant surfaces. Progress in Materials Science, 2023, 133, 101064. | 32.8 | 17 |
| 2683 | Atomic Insights of Selfâ€Healing in Silicon Nanowires. Advanced Functional Materials, 2023, 33, . | 14.9 | 3 |
| 2684 | Bioinspired Strategies for Functionalization of Mg-Based Stents. Crystals, 2022, 12, 1761. | 2.2 | 1 |
| 2685 | In Situ Opto-Hydrodynamic Characterization of Lubricant-Infused Surface Degradation. Langmuir, 2023, 39, 367-376. | 3.5 | 2 |
| 2686 | Lubricant controlled release silicone fouling release coatings based on mesoporous molecular sieves. Journal of Coatings Technology Research, 0, , . | 2.5 | 0 |
| 2687 | Slippery quartz surfaces for antiâ€fouling optical windows. , 2023, 2, . | | 3 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2688 | Slippery lubricant-infused intertwining superhydrophobic matrix: preparation and enhanced resistance against abiotic corrosion and microbiologically influenced corrosion. Journal of Coatings Technology Research, 2023, 20, 647-660. | 2.5 | 2 |
| 2689 | Multiscale landscaping of droplet wettability on fibrous layers of facial masks. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 1 |
| 2690 | Superslippery Longâ€Chain Entangled Polydimethylsiloxane Gel with Sustainable Selfâ€Replenishment. Advanced Engineering Materials, 2023, 25, . | 3.5 | 1 |
| 2691 | Sustainable Droplet Manipulation on Ultrafast Lubricant Selfâ€Mediating Photothermal Slippery Surfaces. Advanced Functional Materials, 2023, 33, . | 14.9 | 12 |
| 2692 | An Extremeâ€Environmentâ€Resistant Selfâ€Healing Antiâ€Icing Coating. Small, 2023, 19, . | 10.0 | 16 |
| 2693 | Interfacial Instabilityâ€Induced (31) Adhesives through "Mediatorâ€-Solvent Diffusion for Robust Underoil Adhesion. Advanced Materials, 2023, 35, . | 21.0 | 5 |
| 2694 | Temperature-gradient-induced enhanced fog collection on polymer brush surfaces. Chemical Engineering Journal, 2023, 455, 140785. | 12.7 | 3 |
| 2695 | Self-Healing Superwetting Surfaces, Their Fabrications, and Properties. Chemical Reviews, 2023, 123, 663-700. | 47.7 | 18 |
| 2696 | Sustainable Repellent Coatings Based on Renewable Drying and Nondrying Oils. Advanced Materials Interfaces, 2023, 10, . | 3.7 | 1 |
| 2697 | Nanodroplet wetting and electrowetting behavior on liquid-infused surfaces: A molecular simulation study. Journal of Molecular Liquids, 2023, 371, 121157. | 4.9 | 2 |
| 2698 | A Review of Smart Superwetting Surfaces Based on Shapeâ€Memory Micro/Nanostructures. Small, 2023, 19, . | 10.0 | 15 |
| 2699 | Computational study of early-time droplet impact dynamics on textured and lubricant-infused surfaces. International Journal of Multiphase Flow, 2023, 161, 104398. | 3.4 | 1 |
| 2700 | Vapor-phase synthesis of a robust polysulfide film for transparent, biocompatible, and long-term stable anti-biofilm coating. Korean Journal of Chemical Engineering, 2023, 40, 412-418. | 2.7 | 1 |
| 2701 | Perspiring Soft Robotics Skin Constituted by Dynamic Polarityâ€Switching Porous Liquid Crystal Membrane. Advanced Materials, 2023, 35, . | 21.0 | 9 |
| 2702 | Mosaic Patterned Surfaces toward Generating Hardlyâ€Volatile Capsular Droplet Arrays for Highâ€Precision Dropletâ€Based Storage and Detection. Small, 2023, 19, . | 10.0 | 14 |
| 2703 | Mechanical properties, icephobicity, and durability assessment of HT-PDMS nanocomposites: Effectiveness of sol–gel silica precipitation content. Journal of Sol-Gel Science and Technology, 2023, 105, 348-359. | 2.4 | 4 |
| 2704 | Numerical and experimental investigation of static wetting morphologies of aqueous drops on lubricated slippery surfaces using a quasi-static approach. Soft Matter, 0, , . | 2.7 | 1 |
| 2705 | Pushing the Limit of Beetleâ€Inspired Condensation on Biphilic Quasiâ€Liquid Surfaces. Advanced Functional Materials, 2023, 33, . | 14.9 | 16 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2706 | Superâ€Slippery Poly(Dimethylsiloxane) Brush Surfaces: From Fabrication to Practical Application. ChemPlusChem, 2023, 88, . | 2.8 | 7 |
| 2707 | Fabrication of Self-Healable, Robust, and Superhydrophobic Nanocomposite Films. Journal of Korean Institute of Metals and Materials, 2023, 61, 54-59. | 1.0 | O |
| 2708 | Magnetically controlled super-wetting surface switching between ultra-low and ultra-high droplet adhesion. Chemical Engineering Journal, 2023, 456, 141093. | 12.7 | 3 |
| 2709 | 3D Microprinting of Superâ€Repellent Microstructures: Recent Developments, Challenges, and Opportunities. Advanced Functional Materials, 2023, 33, . | 14.9 | 7 |
| 2710 | Fluid manipulation <i>via</i> multifunctional lubricant infused slippery surfaces: principle, design and applications. Soft Matter, 2023, 19, 588-608. | 2.7 | 7 |
| 2711 | Hydro- and Icephobic Properties and Durability of Epoxy Gelcoat Modified with Double-Functionalized Polysiloxanes. Materials, 2023, 16, 875. | 2.9 | 5 |
| 2712 | Nature-Inspired Surface Structures Design for Antimicrobial Applications. International Journal of Molecular Sciences, 2023, 24, 1348. | 4.1 | 3 |
| 2713 | Electrically Manipulated Vapor Condensation on the Dimpled Surface: Insights from Molecular Dynamics Simulations. Langmuir, 2023, 39, 829-840. | 3.5 | 6 |
| 2714 | Recent advances of slippery liquid-infused porous surfaces with anti-corrosion. Chemical Communications, 2023, 59, 2182-2198. | 4.1 | 10 |
| 2715 | Omniphobic liquid-like surfaces. Nature Reviews Chemistry, 2023, 7, 123-137. | 30.2 | 55 |
| 2716 | Development of mechanically robust and anticorrosion slippery PEO coating with metal–organic framework (MOF) of magnesium alloy. Chemical Engineering Journal, 2023, 458, 141397. | 12.7 | 23 |
| 2717 | Micro-seepage directed evaporation and salt nucleation of a brine droplet on oil-impregnated steel surfaces. Surface and Coatings Technology, 2023, 455, 129160. | 4.8 | 1 |
| 2718 | Proper matching of lubricants and modifiers: Another key factor for durable anti-icing performance of lubricated surfaces. Surfaces and Interfaces, 2023, 37, 102653. | 3.0 | 5 |
| 2719 | Dynamics of Droplets Impacting on Aerogel, Liquid Infused, and Liquid-Like Solid Surfaces. ACS Applied Materials & Solid Surfaces, 2023, 15, 2301-2312. | 8.0 | 6 |
| 2720 | Key Factors Affecting Durable Anti-Icing of Slippery Surfaces: Pore Size and Porosity. ACS Applied Materials & Samp; Interfaces, 2023, 15, 3599-3612. | 8.0 | 18 |
| 2721 | Bioinspired shape shifting of liquid-infused ribbed sheets. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 3 |
| 2722 | Unique ice dendrite morphology on state-of-the-art oil-impregnated surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 5 |
| 2723 | Staying Dry and Clean: An Insect's Guide to Hydrophobicity. Insects, 2023, 14, 42. | 2.2 | 4 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2724 | Biomimetics in smart coatings. , 2023, , 263-285. | | 1 |
| 2725 | Translucent Lignin-Based Omniphobic Polyurethane Coating with Antismudge and UV-Blocking Dual Functionalities. ACS Sustainable Chemistry and Engineering, 2023, 11, 2613-2622. | 6.7 | 6 |
| 2726 | Characterization of the Liquid–Lubricant Interface in a Dovetail Cavity for a Viscous Laminar Flow. Industrial & Engineering Chemistry Research, 2023, 62, 2944-2958. | 3.7 | 2 |
| 2727 | Oil-Grafted Track-Assisted Directional Transport of Water Droplets and Submerged Air Bubbles on Solid Surfaces. Langmuir, 2023, 39, 1987-1996. | 3.5 | 2 |
| 2728 | Introduction of smart coatings in various directions. , 2023, , 219-238. | | 1 |
| 2729 | The Rising Aerogel Fibers: Status, Challenges, and Opportunities. Advanced Science, 2023, 10, . | 11.2 | 26 |
| 2730 | Water-Droplet Impact and Sliding Behaviors on Slippery Surfaces with Various Weber Numbers and Surface Inclinations. Coatings, 2023, 13, 264. | 2.6 | 2 |
| 2731 | Activity-Based Self-Enriched SERS Sensor for Blood Metabolite Monitoring. ACS Applied Materials & Lamp; Interfaces, 2023, 15, 4895-4902. | 8.0 | 10 |
| 2732 | Bioinspired nanotopographical design of drug delivery systems. , 2023, 1, 139-152. | | 22 |
| 2733 | Recent innovative developments on additive manufacturing technologies using polymers. , 2023, , 69-86. | | 0 |
| 2734 | Boosting the Durability of Triboelectric Nanogenerators: A Critical Review and Prospect. Advanced Functional Materials, 2023, 33, . | 14.9 | 9 |
| 2735 | Fibrinogen Deposition on Silicone Oil-Infused Silver-Releasing Urinary Catheters Compromises Antibiofilm and Anti-Encrustation Properties. Langmuir, 2023, 39, 1562-1572. | 3.5 | 1 |
| 2736 | Crack-Initiated Durable Low-Adhesion Trilayer Icephobic Surfaces with Microcone-Array Anchored Porous Sponges and Polydimethylsiloxane Cover. ACS Applied Materials & Samp; Interfaces, 2023, 15, 6025-6034. | 8.0 | 9 |
| 2737 | Reâ€Entrant Microstructures for Robust Liquid Repellent Surfaces. Advanced Materials Technologies, 2023, 8, . | 5.8 | 6 |
| 2738 | Daphnia-inspired dynamic slippery chemically bonded liquid surface for the active prevention of covalently attached foulant adhesion. Journal of Materials Chemistry B, O, , . | 5.8 | 0 |
| 2739 | Deicing of Sessile Droplets Using Surface Acoustic Waves. Langmuir, 2023, 39, 3934-3941. | 3.5 | 3 |
| 2740 | Review of polymer technologies for improving the recycling and upcycling efficiency of plastic waste. Chemosphere, 2023, 320, 138089. | 8.2 | 55 |
| 2741 | Preparation of Multiscale Slippery Liquidâ€Infused Porous Surface Based on Ti6Al4V Alloy with Selfâ€Cleaning, Stability, and Selfâ€Healing Properties. Advanced Engineering Materials, 2023, 25, . | 3.5 | 1 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2742 | The preparation of slippery liquid-infused surface and the droplets bounce behavior. Journal of Materials Research, 0 , , . | 2.6 | 0 |
| 2743 | Fabrication of Slippery Surfaces on Aluminum Alloy and Its Anti-Icing Performance in Glaze Ice. Coatings, 2023, 13, 732. | 2.6 | 1 |
| 2744 | Transparent and anti-fouling perfluoropolyether coating with superior wear resistance. Applied Surface Science, 2023, 620, 156813. | 6.1 | 4 |
| 2745 | Designing an oil-impregnated surface on carbon steel with superior corrosion resistance to oil-water alternating flows., 2023, 224, 211527. | | 2 |
| 2746 | Load-responsive bionic kirigami structures for high-efficient fog harvesting. Chemical Engineering Journal, 2023, 464, 142549. | 12.7 | 7 |
| 2747 | Superhydrophobicity mechanism of refoliated quaking aspen leaves after complete defoliation by LDD (gypsy, spongy) moth caterpillars. Plant Science, 2023, 330, 111659. | 3.6 | O |
| 2748 | Slippery contact on organogel enabling droplet energy harvest. Nano Energy, 2023, 109, 108286. | 16.0 | 8 |
| 2749 | Asymmetric electrodes for droplet directional actuation by a square wave on an open surface. Results in Physics, 2023, 48, 106401. | 4.1 | 1 |
| 2750 | Mechanistic insight into a graphene-like stimulus-responsive desalination membrane from molecular dynamics and first principles. Diamond and Related Materials, 2023, 136, 109910. | 3.9 | 0 |
| 2751 | Biomimetic slippery liquid-infused porous surfaces fabricated by porous fluorinated polyurethane films for anti-icing property. Progress in Organic Coatings, 2023, 179, 107524. | 3.9 | 2 |
| 2752 | A facile approach to fabricate omniphobic and robust polyurethane coatings for anti-smudge, anti-ink. Progress in Organic Coatings, 2023, 179, 107488. | 3.9 | 2 |
| 2753 | Stiffening surface lowers ice adhesion strength by stress concentration sites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 666, 131334. | 4.7 | 3 |
| 2754 | Synthesis and characterization of new CNT-loaded CeO2 nanoparticles for antibacterial applications. Biochemical Engineering Journal, 2023, 195, 108931. | 3.6 | 1 |
| 2755 | Microstructured silicon substrates impregnated with bis(2,4,4-trimethylpentyl) phosphinic acid for selective scandium recovery. Applied Surface Science, 2023, 622, 156852. | 6.1 | 3 |
| 2756 | Experimental investigation of surface wettability induced runback water flow and heat transfer behavior. International Journal of Heat and Mass Transfer, 2023, 209, 124164. | 4.8 | 1 |
| 2757 | Stable photothermal solid slippery surface with enhanced anti-icing and de-icing properties. Applied Surface Science, 2023, 624, 157178. | 6.1 | 9 |
| 2758 | Cloaking effect on the thermocapillary motion of droplet on slippery liquid-infused porous surface. International Journal of Thermal Sciences, 2023, 190, 108319. | 4.9 | 2 |
| 2759 | A silicone-based slippery polymer coating with humidity–dependent nanoscale topography. Journal of Colloid and Interface Science, 2023, 642, 724-735. | 9.4 | 1 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2760 | Preparation of liquid-infused surface on epoxy resin for improved tribological and anti-corrosion performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 668, 131472. | 4.7 | 1 |
| 2761 | Environmentally adapted slippery-superhydrophobic switchable interfaces for anti-icing. Applied Surface Science, 2023, 626, 157201. | 6.1 | 3 |
| 2762 | Di-particles-derived slippery lubricant-infused porous surface with broad anti-adhesion performance. Applied Surface Science, 2023, 616, 156462. | 6.1 | 3 |
| 2763 | Enhanced anti-biofilm and anti-protein adsorption properties of liquid-infused silver-polytetrafluoroethylene coatings. Applied Surface Science, 2023, 616, 156463. | 6.1 | 5 |
| 2764 | Photothermal Solid Slippery Surfaces with Rapid Selfâ€Healing, Improved Anti/Deâ€Icing and Excellent Stability. Macromolecular Rapid Communications, 2023, 44, . | 3.9 | 4 |
| 2765 | Low modulus of polydimethylsiloxane organogel coatings induced low ice adhesion. Progress in Organic Coatings, 2023, 177, 107435. | 3.9 | 6 |
| 2766 | Laminar drag reduction ability of liquid-infused microchannels by considering different infused lubricants. Journal of Chemical Physics, 2023, 158, . | 3.0 | 6 |
| 2767 | Reduced Ice Adhesion Using Amphiphilic Poly(Ionic Liquid)-Based Surfaces. ACS Applied Materials & lnterfaces, 2023, 15, 7454-7465. | 8.0 | 11 |
| 2768 | Special wettability for sensing: Drawing inspiration from nature. Chemical Engineering Journal, 2023, 459, 141615. | 12.7 | 7 |
| 2769 | Hemp-Based Sustainable Slippery Surfaces: Icephobic and Antithrombotic Properties. ACS Sustainable Chemistry and Engineering, 2023, 11, 2397-2403. | 6.7 | 3 |
| 2770 | Construction of robust slippery lubricant-infused epoxy-nanocomposite coatings for marine antifouling application. Progress in Organic Coatings, 2023, 177, 107458. | 3.9 | 4 |
| 2771 | Omniphobic, ice-repellent, anti-bacterial, slippery liquid-infused porous surface (SLIPS) using sprayable chitin nanofiber coating. Macromolecular Research, 2023, 31, 65-74. | 2.4 | 1 |
| 2772 | Bionic surface diode for droplet steering. , 2023, 2, . | | 7 |
| 2773 | Unidirectional Droplet Propulsion onto Gradient Brushes without External Energy Supply. Langmuir, 2023, 39, 2818-2828. | 3.5 | 6 |
| 2774 | Freezing-induced wetting transitions on superhydrophobic surfaces. Nature Physics, 2023, 19, 649-655. | 16.7 | 23 |
| 2775 | SiO2 nanoparticles-containing slippery-liquid infused porous surface for corrosion and wear resistance of AZ31 Mg alloy. Materials and Design, 2023, 227, 111721. | 7.0 | 5 |
| 2776 | The transition from Elastoâ€Hydrodynamic to Mixed Regimes in Lubricated Friction of Soft Solid Surfaces. Advanced Materials, 2023, 35, . | 21.0 | 1 |
| 2777 | Functional liquid-infused PDMS sponge-based catheter with antithrombosis, antibacteria, and anti-inflammatory properties. Colloids and Surfaces B: Biointerfaces, 2023, 224, 113208. | 5.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2778 | Multifunction of Biomimetic Liquid Infused Systems Derived from SLIPS Theory: A Review. Advanced Materials Interfaces, 2023, 10 , . | 3.7 | 4 |
| 2779 | Numerical study of drop impact on slippery lubricated surfaces. Physics of Fluids, 2023, 35, . | 4.0 | 4 |
| 2780 | Wettingâ€Enabled Threeâ€Dimensional Interfacial Polymerization (WETâ€DIP) for Bioinspired Antiâ€Dehydration Hydrogels. Small, 2023, 19, . | 10.0 | 2 |
| 2781 | Effect of meniscus curvature on phase-change performance during capillary-enhanced filmwise condensation in porous media. , 0, 3, . | | 0 |
| 2782 | Improved Liquid Collection on a Dualâ€Asymmetric Superhydrophilic Origami. Advanced Materials, 2023, 35, . | 21.0 | 22 |
| 2783 | Sustainable Drag Reduction of Fatty Acid Amideâ€Based Oleogel Surface Under Highâ€6peed Shear Flows. Advanced Materials Interfaces, 2023, 10, . | 3.7 | 1 |
| 2784 | Preparation and Multifunctional Applications of Solid Surfaces with Extreme Surface Wettability. Hans Journal of Nanotechnology, 2023, 13, 35-50. | 0.0 | 0 |
| 2785 | Backswimmer-inspired intelligent diving devices for water and wave-energy exploitation in the ocean. Matter, 2023, 6, 1249-1264. | 10.0 | 5 |
| 2786 | Endoskeletal coacervates with mobile-immobile duality for long-term utility. Chemical Engineering Journal, 2023, 462, 142165. | 12.7 | 0 |
| 2787 | Study on anti-icing performance of carbon fiber composite superhydrophobic surface. Materials Today Chemistry, 2023, 29, 101421. | 3.5 | 6 |
| 2788 | Effect of Nanoparticle-Filled Lubricant Layer on Fluoropolymer Slippery Liquid-Infused Porous Surface. Polymer Science - Series B, 2022, 64, 897-905. | 0.8 | 2 |
| 2789 | Durability and Degradation Mechanisms of Antifrosting Surfaces. ACS Applied Materials & Samp; Interfaces, 2023, 15, 13711-13723. | 8.0 | 7 |
| 2790 | Advanced polymer processing technologies for micro―and nanostructured surfaces: A review. Polymer Engineering and Science, 2023, 63, 1057-1081. | 3.1 | 5 |
| 2791 | Advancements in droplet reactor systems represent new opportunities in chemical reactor engineering: A perspective. Canadian Journal of Chemical Engineering, 2023, 101, 5189-5207. | 1.7 | 1 |
| 2792 | Engulfment of a drop on solids coated by thin and thick fluid films. Journal of Fluid Mechanics, 2023, 958, . | 3.4 | 5 |
| 2793 | Infusing Silicone and Camellia Seed Oils into Micro-/Nanostructures for Developing Novel Anti-Icing/Frosting Surfaces for Food Freezing Applications. ACS Applied Materials & Samp; Interfaces, 0, , . | 8.0 | 7 |
| 2794 | Bio-inspired and metal-derived superwetting surfaces: Function, stability and applications. Advances in Colloid and Interface Science, 2023, 314, 102879. | 14.7 | 12 |
| 2795 | Interfacial friction at action: Interactions, regulation, and applications. Friction, 2023, 11, 2153-2180. | 6.4 | 8 |

| # | Article | IF | CITATIONS |
|------|---|--------------|-----------|
| 2796 | Recent research advances on corrosion mechanism and protection, and novel coating materials of magnesium alloys: a review. RSC Advances, 2023, 13, 8427-8463. | 3.6 | 17 |
| 2797 | Photothermal MOF-Based Multifunctional Coating with Passive and Active Protection Synergy. , 2023, 1, 1058-1068. | | 3 |
| 2798 | Regulating droplet impact symmetry by surface engineering. , 2023, 2, . | | 14 |
| 2799 | In-situ fabricated hierarchical nanostructure on titanium alloy as highly stable and durable super-lubricated surface for anti-biofouling in marine engineering. Chemical Engineering Journal, 2023, 463, 142389. | 12.7 | 10 |
| 2800 | Slippery surface for enhancing surface robustness and chemical stability. Journal of Materials Science, 2023, 58, 5837-5847. | 3.7 | 5 |
| 2801 | Slippery Alkoxysilane Coatings for Antifouling Applications. ACS Applied Materials & Distribution (2023, 15, 17353-17363. | 8.0 | 7 |
| 2802 | Facile designing a superhydrophobic anti-icing surface applied for reliable long-term deicing. Chinese Chemical Letters, 2023, 34, 108353. | 9.0 | 7 |
| 2803 | Versatile Microfluidics Separation of Colloids by Combining External Flow with Lightâ€induced Chemical Activity. Advanced Materials, 0, , . | 21.0 | 0 |
| 2804 | Improving the Durability of Triboelectric Nanogenerator., 2023,, 1-37. | | 0 |
| 2805 | Wetting ridges on slippery liquid-infused porous surfaces. Reports on Progress in Physics, 2023, 86, 066601. | 20.1 | 7 |
| 2806 | Robust Polyurethane Coatings with Lightly Cross-Linked Surfaces for Ice Shedding. ACS Applied Polymer Materials, 2023, 5, 3119-3128. | 4.4 | 2 |
| 2807 | Molecular insights into the hydration of zwitterionic polymers. Molecular Systems Design and Engineering, 2023, 8, 1040-1048. | 3.4 | 2 |
| 2808 | Design of medical tympanostomy conduits with selective fluid transport properties. Science Translational Medicine, 2023, 15, . | 12.4 | 0 |
| 2809 | Laser Structuring for Biomedical Applications. Springer Series in Optical Sciences, 2023, , 1105-1165. | 0.7 | 1 |
| 2810 | Spinning Liquid Metal Droplets on Ice. Small, 2023, 19, . | 10.0 | 1 |
| 2811 | Active Droplet Transport Induced by Moving Meniscus on a Slippery Magnetic Responsive Micropillar Array. Langmuir, 0, , . | 3.5 | 4 |
| 2812 | Droplet Memory on Liquid-Infused Surfaces. Langmuir, 0, , . | 3 . 5 | 0 |
| 2813 | Ficus religiosa-inspired microstructure-controlled low surface energy coatings with long-term antifouling effect. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 670, 131482. | 4.7 | 2 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2814 | Advances and challenges in slippery covalently-attached liquid surfaces. Advances in Colloid and Interface Science, 2023, 315, 102906. | 14.7 | 14 |
| 2815 | Synergistic Benefits of Micro/Nanostructured Oil-Impregnated Surfaces in Reducing Fouling while Enhancing Heat Transfer. Langmuir, 2023, 39, 6705-6712. | 3.5 | 1 |
| 2816 | Fabrication of Omniphobicâ€Omniphilic Micropatterns using GPOSSâ€PDMS Coating. Advanced Materials Interfaces, 0, , . | 3.7 | 0 |
| 2817 | Fabrication of liquid-infused porous slippery coating with stability, self-cleaning and corrosion resistance properties for carbon steel. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 669, 131495. | 4.7 | 5 |
| 2818 | Dropwise Condensation in Ambient on a Depleted Lubricant-Infused Surface. ACS Applied Materials & Depleted Lubricant-Infused Surfaces, O, , . | 8.0 | 0 |
| 2819 | Gastrointestinalâ€Peristalsisâ€Inspired Hydrogel Actuators for NIRâ€Controlled Transport of Viscous Liquids. Advanced Materials, 2023, 35, . | 21.0 | 3 |
| 2822 | Inhibition of Defect-Induced Ice Nucleation, Propagation, and Adhesion by Bioinspired Self-Healing Anti-Icing Coatings. Research, 2023, 6, . | 5.7 | 5 |
| 2823 | Solid‣ike Slippery Coating with Highly Comprehensive Performance. Advanced Functional Materials, 2023, 33, . | 14.9 | 25 |
| 2825 | Sliding and rolling of yield stress fluid droplets on highly slippery lubricated surfaces. Journal of Colloid and Interface Science, 2023, 644, 487-495. | 9.4 | 2 |
| 2826 | Fabrication of slippery liquid-infused porous surfaces on magnesium alloys with durable anti-corrosion and anti-tribocorrosion properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 670, 131549. | 4.7 | 1 |
| 2827 | Bioinspired Superwetting Open Microfluidics: From Concepts, Phenomena to Applications. Advanced Functional Materials, 2023, 33, . | 14.9 | 6 |
| 2828 | Interfacial Regulation for 3D Printing based on Sliceâ€Based Photopolymerization. Advanced Materials, 2023, 35, . | 21.0 | 3 |
| 2829 | Green and effective fabrication of porous surfaces with adjustable cell structure by foaming at incomplete healed polymer–polymer interface. Journal of Colloid and Interface Science, 2023, 645, 743-751. | 9.4 | 2 |
| 2830 | Lubricantâ€Interface Induced Mobile Crystallization for Hypersaline Wastewater Management. Advanced Functional Materials, 2023, 33, . | 14.9 | 1 |
| 2831 | Why does SLIPS inhibit P.aeruginosa initial adhesion in static condition?. Journal of Industrial and Engineering Chemistry, 2023, , . | 5.8 | 1 |
| 2832 | Electric Field Driven Reversible Spinodal Dewetting of Thin Liquid Films on Slippery Surfaces. Advanced Materials Interfaces, 2023, 10, . | 3.7 | 2 |
| 2833 | High-throughput screening of lipase inhibitors as anti-obesity drugs on liquid crystal-infused porous surfaces. Sensors and Actuators B: Chemical, 2023, 387, 133837. | 7.8 | 1 |
| 2834 | Nanoscale polymer-based coatings for applications in marine antifouling. , 2023, , 501-546. | | 1 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2835 | Nanomaterials and nanocomposites for surface protection. , 2023, , 19-40. | | 0 |
| 2836 | Laminar drag reduction in surfactant-contaminated superhydrophobic channels. Journal of Fluid Mechanics, 2023, 963, . | 3.4 | 1 |
| 2837 | Liquid NanoBiosensors Enable Oneâ€Pot Electrochemical Detection of Bacteria in Complex Matrices. Advanced Science, 2023, 10, . | 11.2 | 4 |
| 2838 | Effects of multiple wetting incidents, shear and sliding friction on lubricant stability in SLIPS. Cold Regions Science and Technology, 2023, 211, 103878. | 3.5 | 0 |
| 2839 | Enhanced fog collection of hydrogel-coated wires inspired by water film-trapping characteristics of Tillandsia. Chemical Engineering Journal, 2023, 466, 143185. | 12.7 | 1 |
| 2840 | Transitioning towards environmentally benign marine antifouling coatings. Frontiers in Marine Science, 0, 10 , . | 2.5 | 3 |
| 2841 | Antifouling induced by surface wettability of poly(dimethyl siloxane) and its nanocomposites. Nanotechnology Reviews, 2023, 12, . | 5.8 | 3 |
| 2842 | Antifouling mechanisms in and beyond nature: leverages in realization of bioinspired biomimetic antifouling coatings., 2023,, 329-362. | | 1 |
| 2843 | Durable solid lubricant wind turbine blade anti-icing coating based on saturated chain polyhydrocarbons. Journal of Adhesion Science and Technology, 2023, 37, 3485-3500. | 2.6 | 1 |
| 2844 | Bionic marine antifouling coating. , 2023, , 31-61. | | 0 |
| 2845 | Self-Sensing Scanning Superlens for Three-Dimensional Noninvasive Visible-Light Nanoscale Imaging on Complex Surfaces. Nano Letters, 2023, 23, 4311-4317. | 9.1 | 2 |
| 2846 | Setting a comprehensive strategy to face the runback icing phenomena. Surface and Coatings Technology, 2023, 465, 129585. | 4.8 | 4 |
| 2847 | Dependence of Slippery and Elastic Properties of Thin Polymer Films on the Grafted Flexible Sidechain Amount. Langmuir, 2023, 39, 7029-7045. | 3.5 | 2 |
| 2848 | Hybrid electrodes effective for both electrowetting―and dielectrowettingâ€driven digital microfluidics. , 2023, 2, . | | 5 |
| 2849 | Maximum Spreading Diameter of Bouncing Droplets at Ultralow Weber Numbers. Langmuir, 2023, 39, 7922-7929. | 3.5 | 1 |
| 2850 | Multifunctional Fluorinated Lubricantâ€Infused Poly(4â€Hydroxybutyrate) (P4HB) Membranes for Fullâ€Thickness Abdominal Wall Defect Repair. Macromolecular Bioscience, 2023, 23, . | 4.1 | 2 |
| 2851 | Droplet Manipulation on Bioinspired Slippery Surfaces: From Design Principle to Biomedical Applications. Small Methods, 0, , . | 8.6 | 4 |
| 2852 | Construction of the Mussel-Inspired PDAM/Lysine/Heparin Composite Coating Combining Multiple Anticoagulant Strategies. ACS Applied Materials & Samp; Interfaces, 2023, 15, 27719-27731. | 8.0 | 5 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2853 | Durable and Versatile Liquid-like Surfaces via the Base-Triggered Synthesis of Polysiloxane. ACS Applied Polymer Materials, 2023, 5, 4578-4587. | 4.4 | 2 |
| 2854 | Hyper-anti-freezing bionic functional surface to â^'90°C. , 2023, 2, . | | 4 |
| 2855 | Electrothermal/photothermal superhydrophobic coatings based on micro/nano graphite flakes for efficient anti-icing and de-icing. Progress in Organic Coatings, 2023, 182, 107696. | 3.9 | 2 |
| 2856 | Step by step progress to achieve an icephobic siliconeâ€epoxy hybrid coating: Tailoring matrix composition and additives. Journal of Applied Polymer Science, 2023, 140, . | 2.6 | 2 |
| 2857 | Lubricant-infused iron palmitate surfaces with high durability and stable condensation heat transfer. Physics of Fluids, 2023, 35, . | 4.0 | 0 |
| 2858 | Predictive model of ice adhesion on non-elastomeric materials. Journal of Colloid and Interface Science, 2023, 648, 481-487. | 9.4 | 3 |
| 2859 | Dynamically adjustable wet ridge for directional liquid movement and controllable coating distribution. Chemical Engineering Journal, 2023, 469, 143998. | 12.7 | 6 |
| 2860 | Emerging Penetrating Neural Electrodes: In Pursuit of Large Scale and Longevity. Annual Review of Biomedical Engineering, 2023, 25, 185-205. | 12.3 | 0 |
| 2861 | A robust and reusable lubricant-infused surface with anticorrosion and anti-icing properties. Progress in Organic Coatings, 2023, 183, 107711. | 3.9 | 2 |
| 2862 | Water droplet impact on perfluoropolyether-based liquid-like surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 674, 131837. | 4.7 | 1 |
| 2863 | Biomimetic Superhydrophobic Materials through 3D Printing: Progress and Challenges. Micromachines, 2023, 14, 1216. | 2.9 | 3 |
| 2864 | A novel durable anti-icing slippery surfaces with dendritic porous structure. Materials Today Physics, 2023, 35, 101137. | 6.0 | 3 |
| 2865 | Design, fabrication, and applications of bioinspired slippery surfaces. Advances in Colloid and Interface Science, 2023, 318, 102948. | 14.7 | 10 |
| 2866 | Surface Modification Strategies for Biomedical Applications: Enhancing Cell–Biomaterial Interfaces and Biochip Performances. Biochip Journal, 2023, 17, 174-191. | 4.9 | 8 |
| 2868 | Durability of Slippery Liquid-Infused Surfaces: Challenges and Advances. Coatings, 2023, 13, 1095. | 2.6 | 15 |
| 2869 | A Rapid Selfâ€Pumping Organohydrogel Dressing with Hydrophilic Fractal Microchannels to Promote Burn Wound Healing. Advanced Materials, 2023, 35, . | 21.0 | 12 |
| 2870 | Photothermal strategies for ice accretion prevention and ice removal. Applied Physics Reviews, 2023, 10, . | 11.3 | 5 |
| 2871 | Enhanced corrosion resistance of slippery liquid infused porous aluminum surfaces prepared by anodizing in simulated marine atmosphere. Materials Chemistry and Physics, 2023, 306, 128073. | 4.0 | 2 |

| # | Article | IF | CITATIONS |
|------|--|--------------|-----------|
| 2872 | Coalescence behavior and mechanism of autopoietic droplets on slippery liquid-infused porous surfaces (SLIPS). Fuel, 2023, 351, 129037. | 6.4 | 0 |
| 2873 | Bioinspired rapid self-replenishing liquid-infused surfaces for stable anti-adhesion of electrosurgical electrodes. Chemical Engineering Journal, 2023, 470, 144173. | 12.7 | 3 |
| 2874 | Porous membrane with highly stable liquid-filled surface based on aerogel structure for oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 674, 131913. | 4.7 | 0 |
| 2875 | Entropic repulsion of cholesterol-containing layers counteracts bioadhesion. Nature, 2023, 618, 733-739. | 27.8 | 2 |
| 2876 | Silicone-Based Lubricant-Infused Slippery Coating Covalently Bound to Aluminum Substrates for Underwater Applications. ACS Applied Materials & Eamp; Interfaces, 0, , . | 8.0 | 0 |
| 2877 | Bioinspired corrosion inhibition for printed circuit board: implications of dendritic Sn-ZIF-LIS coating on Cu metal. Journal of Materials Science, 2023, 58, 10539-10554. | 3.7 | 2 |
| 2878 | Slippery Graphene-Bridging Liquid Metal Layered Heterostructure Nanocomposite for Stable High-Performance Electromagnetic Interference Shielding. ACS Nano, 2023, 17, 12616-12628. | 14.6 | 26 |
| 2879 | An automated algorithm for the determination of oil absorption strategy of magnetic nanoparticles from SEM images. Micron, 2023, 172, 103505. | 2.2 | 0 |
| 2880 | Nano-wrinkled polyamide membrane preparation via heterogeneous surface-regulated interfacial polymerization for enhanced desalination performance. Desalination, 2023, 564, 116801. | 8.2 | 3 |
| 2881 | Active steering of omni-droplets on slippery cross-scale arrays by bi-directional vibration. Applied Physics Letters, 2023, 122, . | 3.3 | 3 |
| 2882 | Sustainability of the plastron on nano-grass-covered micro-trench superhydrophobic surfaces in high-speed flows of open water. Journal of Fluid Mechanics, 2023, 962, . | 3 . 4 | 3 |
| 2883 | Water Drop Evaporation on Slippery Liquid-Infused Porous Surfaces (SLIPS): Effect of Lubricant Thickness, Viscosity, Ridge Height, and Pattern Geometry. Langmuir, 2023, 39, 6514-6528. | 3.5 | 2 |
| 2884 | Scalable preparation of efficiently self-healing and highly transparent omniphobic coating for glass. Progress in Organic Coatings, 2023, 182, 107606. | 3.9 | 0 |
| 2885 | A Review on Ultrafast Laser Enabled Excellent Superhydrophobic Anti-Icing Performances. Applied Sciences (Switzerland), 2023, 13, 5478. | 2.5 | 5 |
| 2886 | Enhanced cutting performance of electrosurgical units by oil-infused laser-textured surfaces. International Journal of Mechanical Sciences, 2023, 254, 108422. | 6.7 | 1 |
| 2887 | Bioinspired low-friction surface coating with lubricant-infused spherical cavities for sustainable drag reduction. Applied Surface Science, 2023, 628, 157365. | 6.1 | 5 |
| 2888 | Facile fabrication of high performance hydrophilic anti-icing polyurethane methacrylate coatings cured via UV irradiation. Progress in Organic Coatings, 2023, 182, 107657. | 3.9 | 5 |
| 2889 | Current Advances in Immunomodulatory Biomaterials for Cell Therapy and Tissue Engineering. Advanced Therapeutics, 2023, 6, . | 3.2 | 7 |

| # | ARTICLE | IF | Citations |
|------|--|------|-----------|
| 2890 | Novel Schemes of No-Slip Boundary Conditions for the Discrete Unified Gas Kinetic Scheme Based on the Moment Constraints. Entropy, 2023, 25, 780. | 2.2 | 0 |
| 2891 | Nucleation-enhanced condensation and fast shedding on self-lubricated silicone organogels. Soft Matter, 2023, 19, 4458-4469. | 2.7 | 2 |
| 2892 | Droplet impacting dynamics: Recent progress and future aspects. Advances in Colloid and Interface Science, 2023, 317, 102919. | 14.7 | 14 |
| 2893 | Inclinationâ€Enabled Generalized Microfluid Rectifiers via Anisotropic Slippery Hollow Tracks. Advanced Materials Technologies, 2023, 8, . | 5.8 | 13 |
| 2894 | A Simple Poly(Vinyl Sulfonate) Coating for Allâ€Purpose, Selfâ€Cleaning Applications: Molecular Packing Density–Defined Surface Superhydrophilicity. Advanced Functional Materials, 2023, 33, . | 14.9 | 2 |
| 2895 | Fast Fabrication of Porous Amphiphilic Polyamides via Nonconventional Evaporation Induced Phase Separation. ACS Macro Letters, 2023, 12, 697-702. | 4.8 | 1 |
| 2896 | Multi-functional approach in the design of smart surfaces to mitigate bacterial infections: a review. Frontiers in Cellular and Infection Microbiology, $0,13,13$ | 3.9 | 2 |
| 2897 | Photothermal self-lubricating anti-icing coating based on flower-like CuS and PDMS. Progress in Organic Coatings, 2023, 182, 107666. | 3.9 | 0 |
| 2898 | Virtual Highâ€Throughput Screening of Vaporâ€Deposited Amphiphilic Polymers for Inhibiting Biofilm Formation. Advanced Materials Technologies, 2023, 8, . | 5.8 | 3 |
| 2899 | Motion of Droplets in Lyophilic Axially Varying Geometry-Gradient Tubes. Langmuir, 2023, 39, 7901-7911. | 3.5 | 0 |
| 2900 | Super-Repellent and Flexible Lubricant-Infused Bacterial Nanocellulose Membranes with Superior Antithrombotic, Antibacterial, and Fatigue Resistance Properties. ACS Applied Materials & Emp; Interfaces, 2023, 15, 26417-26430. | 8.0 | 2 |
| 2901 | Rational Design and Fabrication Method for Bioinspired Directional Droplet Sliding Surfaces. Advanced Materials Technologies, 0, , . | 5.8 | 0 |
| 2902 | Interdependence of Surface Roughness on Icephobic Performance: A Review. Materials, 2023, 16, 4607. | 2.9 | 3 |
| 2903 | Probing surface wetting across multiple force, length and time scales. Communications Physics, 2023, 6, . | 5.3 | 9 |
| 2904 | Heat-driven self-cleaning glass based on fast thermal response for automotive sensors. Physica Scripta, 2023, 98, 085932. | 2.5 | 1 |
| 2905 | Droplet splashing and retraction dynamics on micro/nano-textured surfaces with or without infused lubricants: an experimental approach. Journal of Mechanical Science and Technology, 0, , . | 1.5 | O |
| 2906 | Multi-bioinspired Janus-shedding fabric: One-way sweat transport and rapid sweat removal for improved personal moisture management. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 675, 131974. | 4.7 | 2 |
| 2907 | Solar-assisted solid slippery surface for all-day ice free at extreme-weather. Chemical Engineering Journal, 2023, 471, 144518. | 12.7 | 3 |

| # | Article | IF | CITATIONS |
|------|---|--------------|-----------|
| 2908 | Anti-Icing Mechanism for a Novel Slippery Aluminum Stranded Conductor. ACS Applied Materials & Interfaces, 2023, 15, 34215-34229. | 8.0 | 6 |
| 2909 | Designing a slippery/superaerophobic hierarchical open channel for reliable and versatile underwater gas delivery. Materials Horizons, 2023, 10, 3351-3359. | 12.2 | 9 |
| 2910 | Design of a Liquid Impregnated Surface with a Stable Lubricant Layer in a Mixed Water/Oil Environment for Low Hydrate Adhesion. Langmuir, 2023, 39, 11964-11974. | 3. 5 | 1 |
| 2911 | Research progress on construction strategy and technical evaluation of aircraft icing accretion protection system. Chinese Journal of Aeronautics, 2023, 36, 1-23. | 5. 3 | 5 |
| 2912 | Introducing a graphical user interface for dynamic contact angle determination. Physics of Fluids, 2023, 35, . | 4.0 | 1 |
| 2913 | Dual-bionic superwetting gears with liquid directional steering for oil-water separation. Nature Communications, 2023, 14, . | 12.8 | 11 |
| 2914 | Omniphobic coatings based on functional acrylic polymer. Progress in Organic Coatings, 2023, 183, 107764. | 3.9 | 0 |
| 2915 | A UVâ€Resistant Heterogeneous Wettabilityâ€Patterned Surface. Advanced Materials, 2023, 35, . | 21.0 | 2 |
| 2916 | Microchannel Surface Structures for Drag Reduction. Journal of Engineering Thermophysics, 2023, 32, 214-241. | 1.4 | 0 |
| 2917 | Formulation of Matrine Oil-Based Suspension Concentrate for Improving the Wetting of Droplets and Spraying Performance. Agronomy, 2023, 13, 1895. | 3.0 | 2 |
| 2918 | Double Immobilized Superhydrophobic and Lubricated Slippery Surface with Antibacterial and Antifouling Properties. ACS Applied Bio Materials, 0, , . | 4.6 | 1 |
| 2919 | Bioinspired Scalable Lubricated Bicontinuous Porous Composites with Self-Recoverability and Exceptional Outdoor Durability. ACS Applied Materials & Samp; Interfaces, 2023, 15, 36839-36855. | 8.0 | 1 |
| 2920 | Facile fabricant of slippery lubricant-infused porous foam-like surface for efficient fog harvesting. Materials Chemistry and Physics, 2023, 307, 128199. | 4.0 | 0 |
| 2921 | Cassie's Law Reformulated: Composite Surfaces from Superspreading to Superhydrophobic. Langmuir, 2023, 39, 11028-11035. | 3 . 5 | 2 |
| 2922 | Let the TV on! Audience Behaviour Patterns during  First Wave' of Covid-19 in the Czech Republic. , 0, 96, 119-135. | | 0 |
| 2923 | Development of a Robust Slippery Liquid-Infused Porous Surface with Grafted Polymer Brushes and Its Anti-Biofouling Applications in Marine Engineering. ACS Applied Polymer Materials, 0, , . | 4.4 | 0 |
| 2924 | Liquid-like polymer lubricating surfaces: Mechanism and applications. Nano Research, 2024, 17, 476-491. | 10.4 | 2 |
| 2925 | Studying Liquid-Infused Surfaces with Affordable Surface Features Infiltrated with Various Lubricants from Corrosion, Biofouling, and Fluid Drag Viewpoints. Langmuir, 0, , . | 3.5 | 1 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2926 | Wettability studies of layer-by-layer films of Nafion/ Polyethylenemine/SiO2 nanoparticles. Journal of Polymer Research, 2023, 30, . | 2.4 | 0 |
| 2927 | Solid-like Slippery Surface with Excellent Comprehensive Performance. Langmuir, 0, , . | 3.5 | 1 |
| 2928 | Sewage Water-Repellent PDMS and Magnetic Silicone Composites: Lab to Commercialization. ACS Applied Polymer Materials, 2023, 5, 6161-6175. | 4.4 | 0 |
| 2929 | Biological and biomedical applications of fluoropolymer nanocomposites. , 2023, , 755-785. | | O |
| 2930 | Biomimetic super slippery surface with excellent and durable anti-icing property for immovable heritage conservation. Progress in Organic Coatings, 2023, 184, 107818. | 3.9 | 1 |
| 2931 | A bio-inspired slippery coating with mechanochemical robustness for anti-ice and anti-corrosion. Applied Surface Science, 2023, 639, 158143. | 6.1 | 1 |
| 2932 | Robust and durable self-lubricated surface by facile fabrication for anti-icing/deicing. Journal of Applied Physics, 2023, 134, . | 2.5 | 0 |
| 2933 | Three-Dimensional Imaging of Emulsion Separation through Liquid-Infused Membranes Using Confocal Laser Scanning Microscopy. Langmuir, 2023, 39, 11468-11480. | 3.5 | 1 |
| 2934 | Abrasionâ€Resistant and Enhanced Superâ€Slippery Flush Toilets Fabricated by a Selective Laser Sintering 3D Printing Technology. Advanced Engineering Materials, 0, , . | 3.5 | 1 |
| 2935 | Mechanical Stability of Liquidâ€Infused Surfaces Based on Musselâ€Inspired Polydopamine Chemistry. Macromolecular Materials and Engineering, 2023, 308, . | 3.6 | 0 |
| 2936 | One-step electrodeposition enables bioinspired SLIPS coating for corrosion inhibition of Mg-Li alloy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 676, 132208. | 4.7 | 3 |
| 2937 | Design of an anticorrosion/bactericidal dual functional organic coating based on the slippery liquid-infused porous surface. Applied Surface Science, 2023, 639, 158214. | 6.1 | 3 |
| 2938 | A facile and high-efficient method to fabricate slippery liquid-infused porous surface with enhanced functionality. Surface and Coatings Technology, 2023, 472, 129897. | 4.8 | 7 |
| 2939 | Plant-Based Sustainable Self-Cleaners in Nanotechnology Era: From Mechanism to Assembling. , 0, , . | | 0 |
| 2940 | Photoelectric synergistic anisotropic slippery interface for directional droplets manipulation. Nanoscale, 2023, 15, 14523-14530. | 5.6 | 1 |
| 2941 | Ice-Inspired Polymeric Slippery Surface with Excellent Smoothness, Stability, and Antifouling Properties. ACS Applied Materials & D. Interfaces, 2023, 15, 41193-41200. | 8.0 | 3 |
| 2942 | Frictionless multiphasic interface for near-ideal aero-elastic pressure sensing. Nature Materials, 2023, 22, 1352-1360. | 27.5 | 8 |
| 2943 | Icephobic behavior of a slippery coating containing nanoporous particles as lubricant-loaded carriers. Surfaces and Interfaces, 2023, 41, 103306. | 3.0 | 0 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2944 | Ultralong Inhibition of heterogeneous ice nucleation by robust Anti-Freezing coating with Self-Lubricating ionic salts layer. Chemical Engineering Journal, 2023, 474, 145537. | 12.7 | 1 |
| 2945 | Highly stable fluorine-free slippery liquid infused surfaces. Surfaces and Interfaces, 2023, 42, 103296. | 3.0 | 0 |
| 2946 | Antibiofouling Slippery Liquid Impregnated Pulsed Plasma Poly(styrene) Surfaces. Advanced Materials Interfaces, 2023, 10, . | 3.7 | 0 |
| 2947 | Fluorinated Silane-Modified Filtroporation Devices Enable Gene Knockout in Human Hematopoietic Stem and Progenitor Cells. ACS Applied Materials & Stem and Progenitor Cells. ACS Applied Materials & Stem and Progenitor Cells. | 8.0 | 0 |
| 2948 | Photothermal superhydrophobic copper nanowire assemblies: fabrication and deicing/defrosting applications. International Journal of Extreme Manufacturing, 2023, 5, 045501. | 12.7 | 1 |
| 2949 | Improving the Durability of Triboelectric Nanogenerator. , 2023, , 349-385. | | 0 |
| 2950 | TiO2 nanofluid infused nanocoating for long-term anti-corrosion. Chemical Physics Letters, 2023, 830, 140800. | 2.6 | 0 |
| 2951 | Liquid-solid contact electrification through the lens of surface and interface science. Nano Energy, 2023, 116, 108834. | 16.0 | 3 |
| 2952 | Damped Oscillatory Dynamics of a Drop Impacting over Oil-Infused Slippery Interfaces─Does the Oil Viscosity Slow it Down?. Langmuir, 0, , . | 3.5 | 2 |
| 2953 | Recent Advances in the Support Layer, Interlayer and Active Layer of TFC and TFN Organic Solvent Nanofiltration (OSN) Membranes: A Review. Chemical Record, 2023, 23, . | 5.8 | 1 |
| 2954 | Heterogenous Slippery Surfaces: Enabling Spontaneous and Rapid Transport of Viscous Liquids with Viscosities Exceeding 10 000 mPa s. Small, 2023, 19, . | 10.0 | 1 |
| 2955 | Construction and performance of waterborne organosilicon anti-fouling coating based on hydrosilylation. Progress in Organic Coatings, 2023, 185, 107918. | 3.9 | 2 |
| 2956 | Perspectives on superhydrophobic surface durability. Applied Physics Letters, 2023, 123, . | 3.3 | 6 |
| 2957 | Very High-Aspect-Ratio Polymeric Micropillars Made by Two-Photon Polymerization. Micromachines, 2023, 14, 1602. | 2.9 | 1 |
| 2958 | Potential and motion design of droplets in a wetting-programable nanoporous surface. AIP Advances, 2023, 13, . | 1.3 | 0 |
| 2959 | Droplet evaporation on superhydrophobic surfaces. Applied Physics Letters, 2023, 123, . | 3.3 | 7 |
| 2960 | A fluffy all-siloxane bottlebrush architecture for liquid-like slippery surfaces. Journal of Materials Chemistry A, 2023, 11, 22167-22177. | 10.3 | 1 |
| 2961 | Nature's Blueprint in Bioinspired Materials for Robotics. Advanced Functional Materials, 0, , . | 14.9 | 3 |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 2962 | A stretchable slippery surface fabricated by femtosecond laser direct writing. Applied Physics Letters, 2023, 123, . | 3.3 | 1 |
| 2963 | On-demand switchable superamphiphilic nanofiber membrane reinforced by PET braided tube for efficient wastewater purification and photocatalytic regeneration. Applied Catalysis B: Environmental, 2024, 341, 123300. | 20.2 | 4 |
| 2964 | Theoretical and Three-Dimensional Molecular Dynamics Study of Droplet Wettability and Mobility on Lubricant-Infused Porous Surfaces. Langmuir, 2023, 39, 13371-13385. | 3.5 | 0 |
| 2965 | Nanoparticle Assembly: From Selfâ€Organization to Controlled Micropatterning for Enhanced Functionalities. Small, 2024, 20, . | 10.0 | 0 |
| 2966 | Revolutionizing biosensing with superwettability: Designs, mechanisms, and applications. Nano Today, 2023, 53, 102008. | 11.9 | 3 |
| 2967 | Temperature Dependency of the Apolar Surface Tension Component for Water and Its Role in Classifying Apolar and Polar Interfacial Interactions. Journal of Physical Chemistry C, 2023, 127, 18167-18175. | 3.1 | O |
| 2968 | Photothermal and superhydrophobic composite coatings with sandwich and interlocking structure for effective anti-icing and de-icing. Surfaces and Interfaces, 2023, 42, 103410. | 3.0 | 0 |
| 2969 | Preparation of bio-inspired liquid-infused surface on epoxy resin coating for reliable hydrophobic and anti-corrosion properties. Progress in Organic Coatings, 2023, 184, 107851. | 3.9 | 1 |
| 2970 | Anti-Fouling Properties of Phosphonium Ionic Liquid Coatings in the Marine Environment. Polymers, 2023, 15, 3677. | 4.5 | 0 |
| 2971 | Bio-inspired microfluidics: A review. Biomicrofluidics, 2023, 17, . | 2.4 | 0 |
| 2972 | Lubricant-Infused Surface Enabled by Coral-like Microstructure Based on Flocking Powder and Its Anti-icing and Anticorrosion Performance. Industrial & Engineering Chemistry Research, 2023, 62, 13488-13497. | 3.7 | 1 |
| 2973 | Construction of the Stable Lubricant Film on One-Dimensional Cone-Structured Surfaces for Directional Liquid Transport. ACS Applied Materials & Samp; Interfaces, 2023, 15, 39017-39024. | 8.0 | 0 |
| 2974 | Healable Anti-Corrosive and Wear-Resistant Silicone-Oil-Impregnated Porous Oxide Layer of Aluminum Alloy by Plasma Electrolytic Oxidation. Nanomaterials, 2023, 13, 2582. | 4.1 | 0 |
| 2975 | Slippery lubricant-infused silica nanoparticulate film processing for anti-biofouling applications. Journal of Applied Biomaterials and Functional Materials, 2023, 21, . | 1.6 | 0 |
| 2976 | Sweating-like engineered ultra-low friction coating by a template assisted method. Tribology International, 2023, 189, 109006. | 5.9 | 1 |
| 2977 | Designing of anisotropic gradient surfaces for directional liquid transport: Fundamentals, construction, and applications. Innovation(China), 2023, 4, 100508. | 9.1 | 3 |
| 2978 | Influence of Light Conditions on the Antibacterial Performance and Mechanism of Waterborne Fluorescent Coatings Based on Waterproof Long Afterglow Phosphors/PDMS Composites. Polymers, 2023, 15, 3873. | 4.5 | 0 |
| 2979 | Metallic hierarchical structures uniformly covered with WC@PDMS composite coatings toward comprehensively durable superhydrophobic surfaces. Chemical Engineering Science, 2023, 282, 119248. | 3.8 | 1 |

| # | Article | IF | CITATIONS |
|------|--|------------------|-----------------|
| 2980 | Covalent organic framework functionalized smart membranes with under-liquid dual superlyophobicity for efficient separation of oil/water emulsions. Science of the Total Environment, 2023, 904, 166895. | 8.0 | 3 |
| 2981 | Honeybee comb-inspired stiffness gradient-amplified catapult for solid particle repellency. Nature Nanotechnology, 2024, 19, 219-225. | 31.5 | 1 |
| 2982 | High-Performance Supramolecular Organogel Adhesives for Antimicrobial Applications in Diverse Conditions. ACS Applied Materials & Samp; Interfaces, 2023, 15, 44194-44204. | 8.0 | 2 |
| 2983 | Surface Passivation Method for the Super-repellence of Aqueous Macromolecular Condensates. Langmuir, 2023, 39, 14626-14637. | 3.5 | 2 |
| 2984 | Droplet slipperiness despite surface heterogeneity at molecular scale. Nature Chemistry, 0, , . | 13.6 | 0 |
| 2985 | Infusing paraffin-based lubricant into micro-/nanostructures for constructing slippery marine antifouling coatings. Progress in Organic Coatings, 2023, 185, 107919. | 3.9 | О |
| 2986 | Oil sands in glacial till as a driver of fast flow and instability in the former Laurentide Ice Sheet: Alberta, Canada. Earth Surface Processes and Landforms, 2023, 48, 3347-3362. | 2.5 | 0 |
| 2987 | Method to Measure Surface Tension of Microdroplets Using Standard AFM Cantilever Tips. Langmuir, 2023, 39, 10367-10374. | 3.5 | 1 |
| 2988 | Evaporation-driven Supraparticle Synthesis by Self-Lubricating Colloidal Dispersion Microdrops. ACS Applied Materials & Samp; Interfaces, 2023, 15, 38986-38995. | 8.0 | 3 |
| 2989 | Facile fabrication of transparent slippery coatings with dual self-healing ability. Applied Surface Science, 2023, 639, 158207. | 6.1 | 4 |
| 2990 | Flexible fluid-based encapsulation platform for water-sensitive materials. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 2 |
| 2991 | Droplet attraction and coalescence mechanism on textured oil-impregnated surfaces. Nature Communications, 2023, 14, . | 12.8 | 4 |
| 2992 | Designing air-entrapment interfaces for near-ideal pressure sensors. Nature Materials, 0, , . | 27.5 | 0 |
| 2993 | Highly Efficient Photothermal Icephobic/deâ€kcing MOFâ€Based Micro and Nanostructured Surface. Advanced Science, 2023, 10, . | 11.2 | 3 |
| 2994 | Antidurotaxis Droplet Motion onto Gradient Brush Substrates. Langmuir, 0, , . | 3.5 | 0 |
| 2995 | Mechanics reveals the role of peristome geometry in prey capture in carnivorous pitcher plants () Tj $ETQq1\ 1\ 0.78$ 2023, 120, . | 4314 rgBT 7.1 | Overlock 2 |
| 2996 | Design and fabrication of rewritable surfaces with high durability. Chemical Engineering Journal, 2023, 474, 145699. | 12.7 | 0 |
| 2998 | Frequency-Dependent Dewetting of Thin Liquid Films Using External ac Electric Field. Langmuir, 2023, 39, 13512-13520. | 3.5 | О |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 2999 | Eco-friendly polysaccharide coatings for antifouling and drag-reduction and potential application for marine devices. Friction, 2024, 12, 726-744. | 6.4 | 2 |
| 3001 | Velocityâ€Switched Droplet Rebound Direction on Anisotropic Superhydrophobic Surfaces. Small, 2024, 20, . | 10.0 | 1 |
| 3002 | Vapor-etching honeycomb-like zinc plating layer for constructing anti-corrosion lubricant-infused surfaces. Frontiers in Chemistry, 0, 11 , . | 3.6 | 1 |
| 3003 | Investigation on the Corrosion Resistance Properties of Cobalt–Chromium–Molybdenum Alloy Artificial Human Body Components with Robust Biomimetic Superhydrophobic and Slippery Surfaces Based on Laser Texturing. Langmuir, 2023, 39, 14996-15013. | 3.5 | 1 |
| 3004 | Multifunctional slippery photothermal coating. Journal of Colloid and Interface Science, 2024, 653, 1548-1556. | 9.4 | 2 |
| 3005 | Innovative Solid Slippery Coating: Uniting Mechanical Durability, Optical Transparency, Anti-Icing, and Anti-Graffiti Traits. Polymers, 2023, 15, 3983. | 4.5 | 3 |
| 3006 | Bioinspired coating based on fluid: Electrochemical fabrication and corrosion protection for steel. Journal of the Taiwan Institute of Chemical Engineers, 2023, 152, 105167. | 5.3 | 3 |
| 3007 | Photo-responsive droplet manipulation slippery lubricant-infused porous surface with ultra-high durability(西北å§å¦ç‰©ç†ç™¾å年专辑专尊). Chinese Physics B, 0, , . | 1.4 | 0 |
| 3008 | Interaction of Blood and Bacteria with Slippery Hydrophilic Surfaces. Advanced Materials Interfaces, 2024, 11, . | 3.7 | 0 |
| 3009 | Spontaneous Separation of Immiscible Organic Droplets on Asymmetric Wedge Channels with Hierarchical Microchannels. ACS Applied Materials & Samp; Interfaces, 2023, 15, 49762-49773. | 8.0 | 0 |
| 3010 | Recent progress in bio-inspired macrostructure array materials with special wettabilityâ€"from surface engineering to functional applications. International Journal of Extreme Manufacturing, 2024, 6, 012008. | 12.7 | 1 |
| 3011 | Settlement behavior and mechanism of Navicula sp. on WLAP/PDMS composite coating under simulative diurnal alternation, constant light and dark conditions. Surfaces and Interfaces, 2023, 42, 103527. | 3.0 | 0 |
| 3012 | Droplet detachment force and its relation to Young–Dupre adhesion. Soft Matter, 0, , . | 2.7 | 0 |
| 3013 | Device updates in pediatric and neonatal ECMO. Seminars in Pediatric Surgery, 2023, 32, 151334. | 1.1 | 1 |
| 3014 | Hexagonal boron nitride based slippery liquid infused porous surface with anti-corrosion, anti-contaminant and anti-icing properties for protecting magnesium alloy. Chinese Chemical Letters, 2024, 35, 109224. | 9.0 | 0 |
| 3015 | Droplet Self-Propulsion on Slippery Liquid-Infused Surfaces with Dual-Lubricant Wedge-Shaped Wettability Patterns. Langmuir, 2023, 39, 15676-15689. | 3.5 | 1 |
| 3016 | Tackling catheterâ€associated urinary tract infections with nextâ€generation antimicrobial technologies. Journal of Biomedical Materials Research - Part A, 2024, 112, 312-335. | 4.0 | 0 |
| 3017 | Superhydrophobic coating with a micro- and nano-sized MnO ₂ /PDMS composite structure for passive anti-icing/active de-icing and photothermal applications. Journal of Materials Chemistry C, 2023, 11, 15443-15453. | 5.5 | 1 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 3018 | Robust superhydrophobic silicone/epoxy functional coating with excellent chemical stability and self-cleaning ability. Nanoscale, 2023, 15, 17793-17807. | 5.6 | 1 |
| 3019 | Statically Very Hydrophilic but Dynamically Hydrophobic Surfaces Showing Surprising Water Sliding Performance. Advanced Functional Materials, 2024, 34, . | 14.9 | 1 |
| 3020 | Progress in Marine Antifouling Coatings: Current Status and Prospects. Coatings, 2023, 13, 1893. | 2.6 | O |
| 3021 | Night-time radiative warming using the atmosphere. Light: Science and Applications, 2023, 12, . | 16.6 | 6 |
| 3023 | A robust dynamic dewetting coating with omniphobicity, wear resistance, and scratch repairability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 679, 132659. | 4.7 | 0 |
| 3024 | Improving antifouling functions of titanium alloys by robust slippery liquid-infused porous surfaces with tailored multiscale structures. Chemical Engineering Journal, 2023, 478, 147342. | 12.7 | 0 |
| 3025 | <i>P. pavoninus</i> à€Inspired Smart Slips Marine Antifouling Coating Based on Coumarin: Antifouling Durability and Adaptive Adjustability of Lubrication. Advanced Functional Materials, 2024, 34, . | 14.9 | 3 |
| 3026 | Wetting behaviors of water on nano-/micro-structured surfaces. Scientia Sinica Chimica, 2023, , . | 0.4 | 0 |
| 3027 | Blue-ringed Octopus inspired slippery coating with physico-chemical synergistic antifouling properties. Chemical Engineering Journal, 2023, 477, 147177. | 12.7 | 1 |
| 3028 | Carnivorous plants: Unlocking the secrets of Âperistome geometry in pitcher plants. Current Biology, 2023, 33, R1155-R1157. | 3.9 | O |
| 3029 | Micro-nano reactors and their catalytic mechanism at the micro/nano interface. Scientia Sinica Chimica, 2023, , . | 0.4 | 0 |
| 3030 | Enhanced droplet repellency and jumping condensation on superhydrophobic lubricant-infused surfaces at high subcooling temperatures. Applied Physics A: Materials Science and Processing, 2023, 129, . | 2.3 | 0 |
| 3031 | Liquid marbles: review of recent progress in physical properties, formation techniques, and lab-in-a-marble applications in microreactors and biosensors. Nanoscale, 2023, 15, 18980-18998. | 5.6 | 2 |
| 3032 | Robust solid slippery coating for anti-icing and anti-sticking. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 682, 132853. | 4.7 | 1 |
| 3033 | The morphology regulation mechanism of microdroplet printing based on heterogeneous wettability surfaces. International Journal of Heat and Mass Transfer, 2024, 219, 124830. | 4.8 | 0 |
| 3034 | Droplet Transportation on Liquid-Infused Asymmetrically Structured Surfaces by Mechanical Oscillation and Viscosity Control. Langmuir, 2023, 39, 16315-16327. | 3.5 | 1 |
| 3035 | Mechanochemical Activation of Silicone for Large-Scale Fabrication of Anti-Biofouling Liquid-like Surfaces. ACS Applied Materials & Surfaces, 2023, 15, 54060-54072. | 8.0 | 1 |
| 3036 | Modulation of the electrokinetic streaming potential, as a function of the zeta potential and fluid slip. Chemical Physics Letters, 2024, 834, 140986. | 2.6 | O |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 3037 | Robust polyurea icephobic coatings with static large-scale de-icing and dynamic anti-icing performance. Chemical Engineering Journal, 2023, 478, 147339. | 12.7 | 2 |
| 3038 | Unveiling the nanoscale world: Exploring surface tension measurements with atomic force nanoindenters. Current Opinion in Colloid and Interface Science, 2024, 69, 101769. | 7.4 | O |
| 3039 | A novel fabrication method of slippery lubricant-infused porous surface by thiol-ene click chemistry reaction for anti-fouling and anti-corrosion applications. E-Polymers, 2023, 23, . | 3.0 | 0 |
| 3040 | Interfacial mechanism of hydrogel with controllable thickness for stable drag reduction. Friction, 2024, 12, 231-244. | 6.4 | 0 |
| 3041 | Review on 3D Printing of Bioinspired Structures for Surface/Interface Applications. Advanced Functional Materials, 2024, 34, . | 14.9 | 1 |
| 3042 | Structural engineered living materials. Nano Research, 2024, 17, 715-733. | 10.4 | 1 |
| 3043 | On the Rosensweig instability of ferrofluid-infused surfaces under a uniform magnetic field. Physics of Fluids, 2023, 35, . | 4.0 | 0 |
| 3045 | Bioinspired durable interpenetrating network anti-icing coatings enabled by binders and hydrophobic-ion specific synergies. Chemical Engineering Journal, 2024, 479, 147836. | 12.7 | 3 |
| 3046 | Fluorine-free superhydrophobic PDMS-coated silica particles for oil–water separation and liquid marbles. Journal of Materials Science, 0, , . | 3.7 | 0 |
| 3047 | A Low Cost, Green Sustainable and Biodegradable Biomass-based Fluorine-free Water and Oil Repellent. Chinese Journal of Polymer Science (English Edition), 0, , . | 3.8 | 0 |
| 3048 | Recent Progress on the Airâ€Stable Battery Materials for Solidâ€State Lithium Metal Batteries. Advanced Science, 2024, 11, . | 11.2 | 0 |
| 3049 | Slippery Porousâ€Liquidâ€Infused Porous Surface (SPIPS) with Onâ€Demand Responsive Switching between "Defensive―and "Offensive―Antifouling Modes. Advanced Materials, 2024, 36, . | 21.0 | 2 |
| 3050 | Superior shear-stable slippery surface of porous carbon nanospheres (PCN)-oleogel. Chemical Engineering Journal, 2023, 477, 147062. | 12.7 | 0 |
| 3051 | Enhancing corrosion inhibition of zinc with biomimetic slippery liquid-infused porous surfaces (SLIPS): An on-site fabrication strategy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 681, 132779. | 4.7 | 1 |
| 3052 | Superhydrophobic Coating Based on Decorated Carbon Nanoparticles. Glass Physics and Chemistry, 2023, 49, 526-534. | 0.7 | 0 |
| 3053 | Enhanced Anticoagulation of Hierarchy Liquid Infused Surfaces in Blood Flow. ACS Applied Materials & Samp; Interfaces, 2023, 15, 55447-55455. | 8.0 | 0 |
| 3054 | Visualizing a Nanoscale Lubricant Layer under Blood Flow. ACS Applied Materials & Samp; Interfaces, 2023, 15, 56433-56441. | 8.0 | 0 |
| 3056 | Multifunctional Oilâ€Entangled Matrix Spray for Maritime Sustainability. Advanced Materials Technologies, 2023, 8, . | 5.8 | O |

| # | ARTICLE | IF | CITATIONS |
|------|---|----------------------|-----------------------|
| 3059 | Antifouling and Self-Healing Performance of Marine Coatings Based on Hydrogen-Bond Interactions. ACS Applied Materials & Distribution (Coatings Based on Hydrogen-Bond Interactions). | 8.0 | 0 |
| 3060 | Oil-infused feed spacers for biofouling inhibition. Desalination, 2024, 573, 117210. | 8.2 | O |
| 3061 | ãf•ã,\$ãfãf^ç\$'ãf′ãf«ã,¹ãf¬ãf¼ã,¶ãf¼ã,'å^©ç"¨ã⊷ãŸPDMSã®è¶…æ'¥æ°′性ã∵æ°∙柱ã®å½¢æ^œŠ'å^¶ã«ã∰,ã┥ | . ʃoːu rnal o | of o he Japano |
| 3062 | Transparent anti-fingerprint glass surfaces: comprehensive insights into theory, design, and prospects. Nanoscale, 2024, 16, 2695-2712. | 5.6 | O |
| 3063 | Electric Power Generated from Magnetic Nanofluid Droplets Sliding upon Superslippery Surfaces. ACS Applied Materials & Droplets Sliding upon Superslippery Surfaces. | 8.0 | 0 |
| 3064 | Design, preparation, and characterization of lubricating polymer brushes for biomedical applications. Acta Biomaterialia, 2024, 175, 76-105. | 8.3 | 2 |
| 3065 | Lubricant-infused anodic aluminum oxide surface (AAO-LIS) for durable slipperiness under harsh conditions. Surface and Coatings Technology, 2024, 477, 130283. | 4.8 | 0 |
| 3066 | Electronics-Free Soft Robotic Knee Brace for Dynamic Unloading During Gait for Knee Osteoarthritis: A Proof-of-Concept Study. Journal of Medical Devices, Transactions of the ASME, 0, , 1-44. | 0.7 | 0 |
| 3067 | Behavior of a sessile droplet over dielectric infused hydrophobic surface under direct current electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 683, 133050. | 4.7 | 0 |
| 3068 | Flow charts as a method to transfer self-sealing from plant models into programmable materials and related challenges. , $2023,1,$ | | 0 |
| 3069 | Facile Fabrication of Robust Superhydrophobic Ice Shedding Coating with Superior Corrosion Resistance and Temperature Durability. ACS Applied Polymer Materials, 0, , . | 4.4 | 1 |
| 3070 | Tetradecanoate in situ reaction prepares a stable and efficient 3D framework for fog collection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 683, 132994. | 4.7 | 0 |
| 3071 | A Review of Icing Research and Development of Icing Mitigation Techniques for Fixed-Wing UAVs. Drones, 2023, 7, 709. | 4.9 | 0 |
| 3072 | Electrowetting and Surface Tension of Chromonic Liquid Crystals. Crystals, 2024, 14, 1. | 2.2 | 0 |
| 3073 | Durable, Ultrathin, and Antifouling Polymer Brush Coating for Efficient Condensation Heat Transfer. ACS Applied Materials & Durable, Ultrathin, and Antifouling Polymer Brush Coating for Efficient Condensation Heat Transfer. | 8.0 | 0 |
| 3074 | Recent advances in photothermal anti-/de-icing materials. Chemical Engineering Journal, 2024, 481, 148265. | 12.7 | 1 |
| 3075 | Earthworm skin inspired rapid secretion of continuous liquid slippery film via nanochannels. Tribology International, 2024, 192, 109220. | 5.9 | 1 |
| 3076 | A bubble energy generator featuring lubricant-impregnated surface with high durability and efficiency. Nano Energy, 2024, 121, 109238. | 16.0 | 0 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 3077 | Degradable Superhydrophobic Coatings Using the Solid–Liquid Transition of a Multilayer Structure near Body Temperature. ACS Food Science & Technology, 0, , . | 2.7 | 0 |
| 3078 | Simple fabrication of anisotropic slippery lubricant-infused surface for directional transportation and anti-corrosion by metal-metal laminated composites. Materials Today Communications, 2024, 38, 107979. | 1.9 | 0 |
| 3079 | Understanding the role of infusing lubricant composition in the interfacial interactions and properties of slippery surface. Journal of Colloid and Interface Science, 2024, 659, 289-298. | 9.4 | 2 |
| 3080 | On the Durability of Icephobic Coatings: A Review. Materials, 2024, 17, 235. | 2.9 | 1 |
| 3081 | Chemically robust superhydrophobic surfaces with a selfâ€replenishing nanoscale liquid coating. , 2024, 3, . | | 0 |
| 3082 | Nanorough Is Not Slippery Enough: Implications on Shedding and Heat Transfer. ACS Applied Materials & Samp; Interfaces, 2024, 16, 1779-1793. | 8.0 | 0 |
| 3083 | A mechanically durable slippery liquid-infused porous surface based on distinctive †jaboticaba-like' TiO2/sepiolite nanocomposites with superior hot water repellency and anti-corrosion for protecting various substrates. Chemical Engineering Journal, 2024, 481, 148667. | 12.7 | 0 |
| 3084 | Anti-freeze hydrogel-based sensors for intelligent wearable human-machine interaction. Chemical Engineering Journal, 2024, 481, 148526. | 12.7 | 3 |
| 3085 | Liquid-infused interfacial floatable porous membrane as movable gate for ultrafast immiscible oil/water separation. Scientific Reports, 2024, 14, . | 3.3 | 0 |
| 3086 | Micro-nano-engineered slippery liquid-infused porous surface coating with highly sustainable superhydrophobicity and omniphobicity. Progress in Organic Coatings, 2024, 187, 108182. | 3.9 | 0 |
| 3087 | Surface modification of mechanical heart valves: A review. European Polymer Journal, 2024, 205, 112726. | 5.4 | 0 |
| 3088 | Durable anti-icing coating with stability based on self-regulating oil storage layer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 685, 133028. | 4.7 | 0 |
| 3089 | Endowing durable icephobicity by combination of a rough powder coating and a superamphiphobic coating. Chemical Engineering Journal, 2024, 482, 149001. | 12.7 | 0 |
| 3090 | A comprehensive review on anticorrosive/antifouling superhydrophobic coatings: Fabrication, assessment, applications, challenges and future perspectives. Advances in Colloid and Interface Science, 2024, 324, 103090. | 14.7 | 3 |
| 3091 | Preparation of superhydrophobic surfaces and slippery liquid-infused porous surfaces based on core-cross-linked nanostructured materials obtained by living coordination block copolymerization through PISA process. Polymer, 2024, 294, 126686. | 3.8 | 0 |
| 3092 | Transforming Auxetic Metamaterials into Superhydrophobic Surfaces. Small Structures, 2024, 5, . | 12.0 | 0 |
| 3093 | Fabrication of photocurable liquid-like easy-cleaning coatings based on a polydimethylsiloxane-modified silicone resin. Progress in Organic Coatings, 2024, 187, 108169. | 3.9 | 0 |
| 3094 | Enhancing the lubricity and wear resistance of shape-memory-polymer via titanium carbide-based MAX and MXene. Carbon, 2024, 219, 118790. | 10.3 | 0 |

| # | Article | IF | CITATIONS |
|------|--|------|-----------|
| 3095 | Analytical models for pressure-driven Stokes flow through superhydrophobic and liquid-infused tubes and annular pipes. Journal of Fluid Mechanics, 2024, 978, . | 3.4 | 2 |
| 3096 | Factors influencing initial bacterial adhesion to antifouling surfaces studied by single-cell force spectroscopy. IScience, 2024, 27, 108803. | 4.1 | O |
| 3097 | Superhydrophobic surfaces: Fundamentals, manufacture, and applications. Applied Physics Letters, 2024, 124, . | 3.3 | 0 |
| 3098 | Electric-Field-Induced Selective Directed Transport of Diverse Droplets. ACS Applied Materials & Samp; Interfaces, 2024, 16, 4126-4137. | 8.0 | O |
| 3099 | Trifurcated Splitting of Water Droplets on Engineered Lithium Niobate Surfaces. ACS Applied Materials & Samp; Interfaces, 2024, 16, 4271-4282. | 8.0 | 0 |
| 3100 | Reduced Sliding Friction of Lubricant-Impregnated Catheters. ACS Omega, 0, , . | 3.5 | O |
| 3101 | Facilitating Interskin Communication in Artificial Polymer Systems through Liquid Transfer. Advanced Materials, 2024, 36, . | 21.0 | 0 |
| 3102 | Transition from the Wenzel to Cassie–Baxter state by PFOTES/TiO ₂ nanoparticles leading to a mechanically robust and damage/contamination-recoverable surface. Journal of Materials Chemistry A, 2024, 12, 3886-3895. | 10.3 | O |
| 3103 | Progress in mechanism design of functional composites for anti-ice/deicing materials. , 2024, 2, . | | 0 |
| 3104 | Robust solid slippery surface for anti-corrosion: Experimental and simulation. Progress in Organic Coatings, 2024, 188, 108250. | 3.9 | 1 |
| 3105 | Scalable and sustainable hierarchical-morphology coatings for passive daytime radiative cooling. Advanced Composites and Hybrid Materials, 2024, 7, . | 21.1 | 0 |
| 3106 | Tuning contact line dynamics on slippery silicone oil grafted surfaces for sessile droplet evaporation. Scientific Reports, 2024, 14, . | 3.3 | 0 |
| 3107 | Bioinspired slippery antifouling Co-CeO2/MoS2 coatings with excellent mechanical robustness and corrosion resistance. Journal of Solid State Electrochemistry, 0, , . | 2.5 | 0 |
| 3108 | Room-temperature endogenous lubricant-infused slippery surfaces by evaporation induced phase separation. Chemical Communications, 2024, 60, 2050-2053. | 4.1 | 0 |
| 3109 | Bioactivated lubricant-infused surfaces: A dual-action strategy for enhancing osseointegration and preventing implant-associated infections. Chemical Engineering Journal, 2024, 482, 149043. | 12.7 | 0 |
| 3110 | Superhydrophobic nanosized metal–organic framework composites for the targeted removal of hydrophobic pharmaceuticals with outstanding bacterial anti-adhesion properties. Environmental Science: Nano, 2024, 11, 1233-1244. | 4.3 | O |
| 3111 | A Superhydrophobicity–Slipperiness Switchable Surface with Magneto- and Thermo-responsive Wires for Repelling Complex Droplets. Langmuir, 2024, 40, 2764-2772. | 3.5 | 0 |
| 3112 | Visualization and Experimental Characterization of Wrapping Layer Using Planar Laser-Induced Fluorescence. ACS Nano, 2024, 18, 4068-4076. | 14.6 | 0 |

| # | Article | IF | Citations |
|------|---|--------------|-----------|
| 3113 | Comparative Study of Using Superhydrophobic and Icephobic Surface Coatings for Aircraft Icing Mitigation. AIAA Journal, 2024, 62, 1588-1600. | 2.6 | 0 |
| 3114 | Hydrodynamic drag reduction in ribbed microchannel with infused non-Newtonian lubricants. Physics of Fluids, 2024, 36, . | 4.0 | O |
| 3115 | Recent developments in droplet-based devices. Materials Today Chemistry, 2024, 36, 101943. | 3 . 5 | 0 |
| 3116 | On-chip droplet analysis and cell spheroid screening by capillary wrapping enabled shape-adaptive ferrofluid transporters. Lab on A Chip, 2024, 24, 1782-1793. | 6.0 | 0 |
| 3117 | Porous materials as effective chemiresistive gas sensors. Chemical Society Reviews, 2024, 53, 2530-2577. | 38.1 | 0 |
| 3118 | Emergent Collective Motion of Self-Propelled Condensate Droplets. Physical Review Letters, 2024, 132, | 7.8 | 1 |
| 3119 | Transparent and Durable Antismudge Polyurethane Coatings with Octadecyl Chlorosilane-Enhanced Bihydroxypropyl PDMS Polymer Brushes. ACS Applied Polymer Materials, 2024, 6, 2349-2358. | 4.4 | 0 |
| 3120 | Reconfigurable liquid devices from liquid building blocks. , 2024, 1, 149-158. | | 1 |
| 3121 | A lubricant-infused coating based on expandable microspheres and its multiple functions. Surface and Coatings Technology, 2024, 479, 130521. | 4.8 | 0 |
| 3122 | Superhydrophobic coating with electro-photo-thermal conversion properties for all-weather anti-icing. Solar Energy, 2024, 270, 112384. | 6.1 | 0 |
| 3124 | The impact, freezing, and melting processes of a supercooled water droplet onto a cold slippery liquid-infused porous surface. International Journal of Heat and Mass Transfer, 2024, 224, 125306. | 4.8 | 0 |
| 3125 | <scp>Coralâ€tentacleâ€inspired</scp> antifouling membrane spacer: A natural solution for biofouling prevention. AICHE Journal, 2024, 70, . | 3.6 | 0 |
| 3126 | Robust and Multifunctional Wetting Resistance of de novo Engineered Nonfluorinated Metal–Organic Nanocrystals for Environmental Sustainability. Advanced Engineering Materials, 2024, 26, . | 3.5 | 0 |
| 3127 | Transparent PDMS Surfaces with Covalently Attached Lubricants for Enhanced Anti-adhesion Performance. ACS Applied Materials & Enhanced Anti-adhesion Performance. ACS Applied Materials & Enhanced Anti-adhesion Performance. | 8.0 | 0 |
| 3128 | Organic encapsulants for bioresorbable medical electronics. MRS Bulletin, 2024, 49, 247-255. | 3.5 | 0 |
| 3129 | Biomimetic self-lubricating silicone composite based on biochar for antifouling with improved long-term release. Progress in Organic Coatings, 2024, 189, 108306. | 3.9 | 0 |
| 3130 | Fluid Slip and Drag Reduction on Liquid-Infused Surfaces under High Static Pressure. Langmuir, 2024, 40, 4460-4467. | 3. 5 | 0 |
| 3131 | Water collection and transportation on superhydrophilic/superhydrophobic bioinspiredÂheterogeneous wettability surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 687, 133472. | 4.7 | O |

| # | Article | IF | CITATIONS |
|------|---|------|-----------|
| 3132 | Icephobic Coating Based on Novel SLIPS Made of Infused PTFE Fibers for Aerospace Application. Polymers, 2024, 16, 571. | 4.5 | 0 |
| 3133 | Anti-corrosion properties of bio-inspired surfaces: a systematic review of recent research developments. Materials Advances, 2024, 5, 2689-2718. | 5.4 | 0 |
| 3134 | Unraveling the role of vaporization momentum in self-jumping dynamics of freezing supercooled droplets at reduced pressures. Nature Communications, 2024, 15, . | 12.8 | 0 |
| 3135 | Clean and effective construction of SLIPS from porous polymer surface prepared by supercritical CO2 foaming technology. Journal of Cleaner Production, 2024, 446, 141398. | 9.3 | 0 |
| 3136 | Liquid-Infused bionic microstructures on High-Frequency electrodes for enhanced spark effects and reduced tissue adhesion. Chemical Engineering Journal, 2024, 485, 149907. | 12.7 | 0 |
| 3137 | Bioinspired Gas Manipulation for Regulating Multiphase Interactions in Electrochemistry. Advanced Materials, 0, , . | 21.0 | 0 |
| 3138 | A simple fabrication of liquid-like polydimethylsiloxane coating for resisting ice adhesion. Journal of Chemical Physics, 2024, 160, . | 3.0 | 0 |
| 3139 | Multi-component liquid-infused systems: a new approach to functional coatings. , 0, , . | | 0 |
| 3140 | Silicon gels with sustainable self-replenishment: Fluid drag reduction through viscosity dependency. Tribology International, 2024, 194, 109460. | 5.9 | 0 |
| 3141 | A PDMS coating with excellent durability for large-scale deicing. Journal of Materials Research and Technology, 2024, 29, 4526-4536. | 5.8 | 0 |
| 3142 | Towards high performance and durable soft tactile actuators. Chemical Society Reviews, 2024, 53, 3485-3535. | 38.1 | 0 |
| 3143 | High-density zwitterionic polymer brushes exhibit robust lubrication properties and high antithrombotic efficacy in blood-contacting medical devices. Acta Biomaterialia, 2024, 178, 111-123. | 8.3 | 0 |
| 3144 | Nature-inspired anti-fouling strategies for combating marine biofouling. Progress in Organic Coatings, 2024, 189, 108349. | 3.9 | 0 |
| 3145 | Influencing role of anisotropic metal microstructures on friction force. Molecular Crystals and Liquid Crystals, 2024, 768, 158-167. | 0.9 | 0 |
| 3146 | Bio-inspired design of flexible semitransparent encapsulation toward self-cleaning and anti-reflective quantum dot light-emitting diodes. Ceramics International, 2024, 50, 18741-18749. | 4.8 | 0 |
| 3147 | Comparison of Anti-Icing, Antifouling, and Anticorrosion Performances of the Superhydrophobic and Lubricant-Infused Coatings Based on a Hollow-Structured Kapok Fiber. Langmuir, 2024, 40, 5420-5432. | 3.5 | 0 |
| 3148 | Robust multifunctional coatings with omniphobic and antistatic properties to repel liquids and solid particles. Applied Surface Science, 2024, 659, 159800. | 6.1 | 0 |
| 3149 | A novel superhydrophobic Al conductor with excellent anti-icing performance and its mechanism. Surfaces and Interfaces, 2024, 46, 104138. | 3.0 | 0 |

| # | Article | IF | CITATIONS |
|------|--|---------------------|-----------------------|
| 3150 | Underwater Bubble Manipulation on Surfaces with Patterned Regions with Infused Lubricants. ACS Applied Materials & Samp; Interfaces, 2024, 16, 14275-14287. | 8.0 | 0 |
| 3152 | One-step synthesis of functional slippery lubricated coating with substrate independence, anti-fouling property, fog collection, corrosion resistance, and icephobicity. Journal of Colloid and Interface Science, 2024, 664, 228-237. | 9.4 | О |
| 3153 | A conical shaped self-healing slippery film for enhanced fog harvesting in windy environment. Chemical Engineering Science, 2024, 292, 119980. | 3.8 | 0 |
| 3154 | Experimental study on the impact behaviors of a water drop on immiscible oil surfaces: bouncing, compound central jet formation and crater evolution. Experiments in Fluids, 2024, 65, . | 2.4 | O |
| 3155 | Fabrication of dual functional marine antifouling coatings by infusing epoxy silicone oil modification of quaternary ammonium. European Polymer Journal, 2024, 210, 112947. | 5.4 | 0 |
| 3156 | Small functional hydrogels with big engineering applications. Materials Today Physics, 2024, 43, 101397. | 6.0 | О |
| 3157 | Solid-like slippery surface for anti-icing and efficient fog collection. Materials Today Sustainability, 2024, 26, 100754. | 4.1 | 0 |
| 3158 | Controllable selfâ€ŧransport of bouncing droplets on ultraslippery surfaces with wedgeâ€shaped grooves. , 2024, 3, . | | O |
| 3160 | Liquid-based electronic materials for bioelectronics: current trends and challenges. , 0, , . | | 0 |
| 3161 | 飞秒æį€å‰ä»į生调控æœ−™è;¨é¢æµ'润性:当å‰èį›å±•与挑æ^ï¼^特é,€ï¼‰. Zhongguo | Ji gu ang/Cl | ni o ese Journ |
| 3162 | Study on durable icephobic surfaces modified with phase change oil impregnation. Surface and Coatings Technology, 2024, 481, 130646. | 4.8 | 0 |
| 3163 | Nature-inspired interfacial engineering for energy harvesting. , 2024, 1, 218-233. | | 0 |
| 3164 | Engineered Sustainable Omniphobic Coatings to Control Liquid Spreading on Food-Contact Materials. ACS Applied Materials & Samp; Interfaces, 2024, 16, 15657-15686. | 8.0 | 0 |
| 3165 | Chemical and structural heterogeneity of olive leaves and their trichomes. Communications Biology, 2024, 7, . | 4.4 | O |