

# ZhiGuang Guo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

|                    |                          |                |                 |
|--------------------|--------------------------|----------------|-----------------|
| 328<br>papers      | 12,472<br>citations      | 58<br>h-index  | 100<br>g-index  |
| 336<br>ext. papers | 14,929<br>ext. citations | 7.2<br>avg, IF | 7.71<br>L-index |

| #   | Paper                                                                                                                                                                                                                                                                                                           | IF   | Citations |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 328 | Overview of the development of slippery surfaces: Lubricants from presence to absence.. <i>Advances in Colloid and Interface Science</i> , <b>2022</b> , 301, 102602                                                                                                                                            | 14.3 | 5         |
| 327 | What are the Progresses and Challenges, from the Electrical Properties of Current-Carrying Friction System to Tribological Performance, for a Stable Current-Carrying Interface?. <i>Journal of Bio- and Tribo-Corrosion</i> , <b>2022</b> , 8, 1                                                               | 2.9  | 0         |
| 326 | Design of a Venation-like Patterned Surface with Hybrid Wettability for Highly Efficient Fog Harvesting.. <i>Nano Letters</i> , <b>2022</b> ,                                                                                                                                                                   | 11.5 | 3         |
| 325 | Icephobic/anti-icing properties of superhydrophobic surfaces.. <i>Advances in Colloid and Interface Science</i> , <b>2022</b> , 304, 102658                                                                                                                                                                     | 14.3 | 3         |
| 324 | Preparation of an electrically conductive, flame-retardant, and superhydrophobic recycled paper. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 642, 128671                                                                                                            | 5.1  |           |
| 323 | A special underoil superhydrophilic (UOSHL) membrane: Growing of copper phosphate (Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ) nanosheet to achieve self-cleaning and efficient oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 645, 128904 | 5.1  | 0         |
| 322 | Slippery Surface with Petal-like Structure for Protecting Al Alloy: Anti-corrosion, Anti-fouling and Anti-icing. <i>Journal of Bionic Engineering</i> , <b>2022</b> , 19, 83-91                                                                                                                                 | 2.7  | 0         |
| 321 | Mucilage-inspired robust antifouling coatings under liquid mediums. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136949                                                                                                                                                                                  | 14.7 |           |
| 320 | Functionalized paper with intelligent response to humidity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 127844                                                                                                                                                      | 5.1  | 0         |
| 319 | Multifunctional Janus Materials for Rapid One-Way Water Transportation and Fog Collection. <i>Langmuir</i> , <b>2021</b> , 37, 13778-13786                                                                                                                                                                      | 4    | 4         |
| 318 | Robust moisture-proof coating applied to the protection and storage of bulk metal glass transformer core in mine-environment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 635, 128049                                                                               | 5.1  |           |
| 317 | Fog collection behavior of bionic surface and large fog collector: A review.. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 300, 102583                                                                                                                                                      | 14.3 | 4         |
| 316 | Anisotropic Janus materials: from micro-/nanostructures to applications. <i>Nanoscale</i> , <b>2021</b> , 13, 18839-18864                                                                                                                                                                                       | 14.3 | 5         |
| 315 | Recent advances in biomimetic surfaces inspired by creatures for fog harvesting. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 21125-21150                                                                                                                                                                | 3.6  | 1         |
| 314 | Enhanced Performance and Stability of Carbon Counter Electrode-Based MAPbI <sub>3</sub> Perovskite Solar Cells with p-Methylphenylamine Iodate Additives. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 11314-11324                                                                                    | 6.1  | 0         |
| 313 | Superhydrophobic materials used for anti-icing Theory, application, and development. <i>IScience</i> , <b>2021</b> , 24, 103357                                                                                                                                                                                 | 6.1  | 10        |
| 312 | Janus Membranes with Asymmetric Wettability Applied in Oil/Water Emulsion Separations. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2000253                                                                                                                                                           | 5.9  | 6         |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 311 | Artificial Leaf for Switchable Droplet Manipulation. <i>Langmuir</i> , <b>2021</b> , 37, 5745-5752                                                                                                                                                 | 4    | 3  |
| 310 | How to Efficiently Prepare Transparent Lubricant-Infused Surfaces: Inspired by Candle Soot. <i>Langmuir</i> , <b>2021</b> , 37, 4869-4878                                                                                                          | 4    | 1  |
| 309 | A solvent-responsive robust superwetting titanium dioxide-based metal rubber for oil-water separation and dye degradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 614, 126179                     | 5.1  | 3  |
| 308 | Bio-inspired Fog Harvesting Materials: Basic Research and Bionic Potential Applications. <i>Journal of Bionic Engineering</i> , <b>2021</b> , 18, 501-533                                                                                          | 2.7  | 9  |
| 307 | Water droplet transport on a nylon mesh with graded structures by facile PMMA spraying and etching process inspired by spider silk. <i>Materials Letters</i> , <b>2021</b> , 291, 129546                                                           | 3.3  | 3  |
| 306 | Reed leaf-inspired anisotropic slippery lubricant-infused surface for water collection and bubble transportation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128495                                                                  | 14.7 | 12 |
| 305 | . <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 506-525                                                                                                                                                                                   | 4.7  | 13 |
| 304 | Substrate-free water film for liquid directional transportation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128464                                                                                                                   | 14.7 | 3  |
| 303 | Stable and Durable Conductive Superhydrophobic Coatings Prepared by Double-Layer Spray Coating Method. <i>Nanomaterials</i> , <b>2021</b> , 11,                                                                                                    | 5.4  | 3  |
| 302 | WO-based slippery coatings with long-term stability for efficient fog harvesting. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 591, 418-428                                                                                     | 9.3  | 8  |
| 301 | Multibioinspired Janus membranes with superwetttable performance for unidirectional transportation and fog collection. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126515                                                             | 14.7 | 23 |
| 300 | A robust and repairable copper-based superhydrophobic microfiltration membrane for high-efficiency water-in-oil emulsion separation. <i>Separation and Purification Technology</i> , <b>2021</b> , 256, 117751                                     | 8.3  | 8  |
| 299 | Graphene and its derivative composite materials with special wettability: Potential application in oil-water separation. <i>Carbon</i> , <b>2021</b> , 172, 647-681                                                                                | 10.4 | 27 |
| 298 | Is superhydrophobicity equal to underwater superoleophilicity? Hydrophilic wetting defects on a superhydrophobic matrix with switchable superdewetting in both air and water. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1471-1479 | 13   | 7  |
| 297 | Durable mixed edible wax coating with stretching superhydrophobicity. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1495-1499                                                                                                         | 13   | 8  |
| 296 | Fabrication of switchable surface wettability with UV-triggered on cotton fabric. <i>Materials Letters</i> , <b>2021</b> , 283, 128767                                                                                                             | 3.3  | 1  |
| 295 | Cellulose acetate/fiber paper composite membrane for separation of an oil-in-water emulsion. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 12351-12355                                                                                       | 3.6  | 5  |
| 294 | Anti-greasy and conductive superamphiphobic coating applied to the carbon brushes/conductive rings of hydro-generators.. <i>RSC Advances</i> , <b>2021</b> , 11, 12381-12391                                                                       | 3.7  | 2  |

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| 293 | Adhesion behaviors on four special wettable surfaces: natural sources, mechanisms, fabrications and applications. <i>Soft Matter</i> , <b>2021</b> , 17, 4895-4928                                                                           | 3.6  | 8  |
| 292 | Bioinspired surfaces with special micro-structures and wettability for drag reduction: which surface design will be a better choice?. <i>Nanoscale</i> , <b>2021</b> , 13, 3463-3482                                                         | 7.7  | 15 |
| 291 | Bioinspired textile with dual-stimuli responsive wettability for body moisture management and signal expression. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 12193-12202                                                             | 3.6  | 1  |
| 290 | Superamphiphobic coatings with antifouling and nonflammable properties using functionalized hydroxyapatite. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 6238-6246                                                                    | 3.6  | 1  |
| 289 | Review on the recent development of durable superhydrophobic materials for practical applications. <i>Nanoscale</i> , <b>2021</b> , 13, 11734-11764                                                                                          | 7.7  | 24 |
| 288 | A robust surface with superhydrophobicity and underwater superoleophobicity for on-demand oil/water separation. <i>Nanoscale</i> , <b>2021</b> , 13, 15334-15342                                                                             | 7.7  | 8  |
| 287 | Near-bulge oil meniscus-induced migration and condensation of droplets for water collection: Energy saving, generalization and recyclability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129215                                | 14.7 | 10 |
| 286 | Fabrication of bioinspired edible liquid marble with phase transition and tunable water barrier property. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 1-13                                                                        | 4.7  | 3  |
| 285 | A robust copper oxide-based superhydrophobic microfiltration membrane for moisture-proof treatment of trace water in transformer oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 625, 126843    | 5.1  | 0  |
| 284 | Lubricant-Infused Three-Dimensional Frame Composed of a Micro/Nanospinous Ball Cluster Structure with Salient Durability and Superior Fog Harvesting Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46192-46201 | 9.5  | 2  |
| 283 | External-field-induced directional droplet transport: A review. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 295, 102502                                                                                                 | 14.3 | 4  |
| 282 | Simple Method for the Fabrication of Multiple Superwetting Surfaces with Photoresponse. <i>Langmuir</i> , <b>2021</b> , 37, 11115-11122                                                                                                      | 4    | 0  |
| 281 | Asymmetric superwetting stainless steel meshes for on-demand and highly effective oil-water emulsion separation. <i>Separation and Purification Technology</i> , <b>2021</b> , 273, 118994                                                   | 8.3  | 15 |
| 280 | PES asymmetric membrane for oil-in-water emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 626, 127096                                                                            | 5.1  | 4  |
| 279 | Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. <i>Nano Today</i> , <b>2021</b> , 40, 101283                                                                                         | 17.9 | 10 |
| 278 | Multi-layer superhydrophobic nickel foam (NF) composite for highly efficient water-in-oil emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 628, 127299                           | 5.1  | 3  |
| 277 | A combined structural and wettability gradient surface for directional droplet transport and efficient fog collection. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 604, 526-536                                          | 9.3  | 8  |
| 276 | Superamphiphilic stainless steel mesh for oil/water emulsion separation on-demand. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 630, 127574                                                       | 5.1  | 2  |

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| 275 | Facile preparation of a superamphiphilic nitrocellulose membrane enabling on-demand and energy-efficient separation of oil/water mixtures and emulsions by prewetting. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5559-5568           | 7.4  | 9  |
| 274 | Stable and biocompatible slippery lubricant-infused anode-oxidated titanium nanotube surfaces via a grafted polydimethylsiloxane brush. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 17493-17502                                   | 3.6  | 1  |
| 273 | One-Step Methods to Fabricate Durable Superhydrophobic Coatings for Flexible Electronic Sensors. <i>Coatings</i> , <b>2021</b> , 11, 95                                                                                                   | 2.9  | 1  |
| 272 | Superhydrophobic Carbon Nanotube/Metal Rubber Composites for Emulsion Separation. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 13643-13654                                                                                        | 5.6  | 1  |
| 271 | Optimal Design of a Fog Collector: Unidirectional Water Transport on a System Integrated by Conical Copper Needles with Gradient Wettability and Hydrophilic Slippery Rough Surfaces. <i>Langmuir</i> , <b>2020</b> , 36, 6801-6810       | 4    | 20 |
| 270 | A CVD-Assisted Modification Approach for Preparing a Dual Superhydrophobic Fabric with In-Air Superhydrophobicity and Underwater Superoleophobicity. <i>Langmuir</i> , <b>2020</b> , 36, 5802-5808                                        | 4    | 9  |
| 269 | A Facile Modifier-free Approach to Fabricate Antistatic Superhydrophobic Composite Coatings with Remarkable Thermal Stability and Corrosion Resistance. <i>Journal of Bionic Engineering</i> , <b>2020</b> , 17, 421-435                  | 2.7  | 11 |
| 268 | Mechano-adjusted anisotropic surface for manipulating water droplets. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125110                                                                                                     | 14.7 | 4  |
| 267 | Tomato-lotus inspired edible superhydrophobic artificial lotus leaf. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125883                                                                                                      | 14.7 | 23 |
| 266 | Fine Switching between Underwater Superoleophilicity and Underwater Superoleophobicity while Maintaining Superhydrophobicity. <i>Langmuir</i> , <b>2020</b> , 36, 3300-3307                                                               | 4    | 1  |
| 265 | Mechanically durable and long-term repairable flexible lubricant-infused monomer for enhancing water collection efficiency by manipulating droplet coalescence and sliding. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1473-1482        | 5.1  | 7  |
| 264 | Robust Superhydrophobic Composite Featuring Three-Dimensional Porous Metal Rubber with an Embedded Carbon Nanofiber Network for Emulsion Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 6172-6182 | 3.9  | 14 |
| 263 | Robust Superhydrophobic Membrane for Solving Water-Accelerated Fatigue of ZDDP-Containing Lubricating Oils. <i>Langmuir</i> , <b>2020</b> , 36, 8560-8569                                                                                 | 4    | 7  |
| 262 | Superomniphobic Silk Fibroin/Ag Nanowires Membrane for Flexible and Transparent Electronic Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10039-10049                                                          | 9.5  | 15 |
| 261 | A superamphiphobic surface with a hydrogen peroxide-triggered switch to antithetic fluid repellence in a liquid-liquid-air three-phase fluid system. <i>Chemical Communications</i> , <b>2020</b> , 56, 4312-4315                         | 5.8  | 2  |
| 260 | A bioinspired lubricant infused surface with transparency, hot liquid boiling resistance and long-term stability for food applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4529-4537                                     | 3.6  | 5  |
| 259 | A fog-collecting surface mimicking the Namib beetle: its water collection efficiency and influencing factors. <i>Nanoscale</i> , <b>2020</b> , 12, 6921-6936                                                                              | 7.7  | 21 |
| 258 | What are the design principles, from the choice of lubricants and structures to the preparation method, for a stable slippery lubricant-infused porous surface?. <i>Materials Horizons</i> , <b>2020</b> , 7, 1697-1726                   | 14.4 | 41 |

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| 257 | Bioinspired surfaces with wettability: biomolecule adhesion behaviors. <i>Biomaterials Science</i> , <b>2020</b> , 8, 1502-1535                                                                                                                                                       | 7.4  | 45 |
| 256 | Sprayed hieratical biomimetic superhydrophilic-superhydrophobic surface for efficient fog harvesting. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124283                                                                                                                 | 14.7 | 35 |
| 255 | Integration of bubble phobicity, gas sensing and friction alleviation into a versatile MoS/SnO/CNF heterostructure by an impressive, simple and effective method. <i>Nanoscale</i> , <b>2020</b> , 12, 18629-18639                                                                    | 7.7  | 0  |
| 254 | Tribological performance of ionic liquid-lubricated carbon brush/collector ring current-carrying friction system. <i>Biosurface and Biotribology</i> , <b>2020</b> , 6, 104-113                                                                                                       | 1    | 0  |
| 253 | Robust superhydrophobic polyurea@cellulose nanocrystal coating. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11739-11745                                                                                                                                                       | 3.6  | 3  |
| 252 | Water deteriorates lubricating oils: removal of water in lubricating oils using a robust superhydrophobic membrane. <i>Nanoscale</i> , <b>2020</b> , 12, 11703-11710                                                                                                                  | 7.7  | 15 |
| 251 | Highly fluorinated F-APP-TiO particle with hierarchical core-shell structure and its application in multifunctional superamphiphobic surface: Mechanical robustness, self-recovery and flame retardancy. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 777-786 | 9.3  | 15 |
| 250 | Wear-resistant and robust superamphiphobic coatings with hierarchical TiO <sub>2</sub> /SiO <sub>2</sub> composite particles and inorganic adhesives. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 1194-1203                                                                   | 3.6  | 14 |
| 249 | Hybrid Hydrophilic-Hydrophobic CuO@TiO-Coated Copper Mesh for Efficient Water Harvesting. <i>Langmuir</i> , <b>2020</b> , 36, 64-73                                                                                                                                                   | 4    | 15 |
| 248 | A Hybrid Stainless-steel Mesh with Nano-array Structure Applied for Efficient Fog Harvesting by Tuning Wetting. <i>Chemistry Letters</i> , <b>2020</b> , 49, 79-82                                                                                                                    | 1.7  | 1  |
| 247 | Excellent fog droplets collector via an extremely stable hybrid hydrophobic-hydrophilic surface and Janus copper foam integrative system with hierarchical micro/nanostructures. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 561, 730-740                         | 9.3  | 24 |
| 246 | The fabrication of hierarchically porous carbon-coated nickel oxide nanomaterials with enhanced electrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 20641-20653                                                             | 2.1  | 1  |
| 245 | Flexible 3D porous superhydrophobic composites for oil-water separation and organic solvent detection. <i>Materials and Design</i> , <b>2020</b> , 196, 109144                                                                                                                        | 8.1  | 18 |
| 244 | Programming Multiphase Media Superwetting States in the Oil-Water-Air System: Evolutions in Hydrophobic-Hydrophilic Surface Heterogeneous Chemistry. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004875                                                                           | 24   | 22 |
| 243 | New insights into unusual droplets: from mediating the wettability to manipulating the locomotion modes. <i>Chemical Communications</i> , <b>2020</b> , 56, 14757-14788                                                                                                               | 5.8  | 9  |
| 242 | Facile Fabrication of Slippery Lubricant-Infused CuO-Coated Surfaces with Different Morphologies for Efficient Water Collection and Excellent Slippery Stability. <i>Langmuir</i> , <b>2020</b> , 36, 8983-8992                                                                       | 4    | 11 |
| 241 | Biomimetic fog collection and its influencing factors. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 20495-20519                                                                                                                                                                | 3.6  | 7  |
| 240 | Designing novel superwetting surfaces for high-efficiency oil/water separation: design principles, opportunities, trends and challenges. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16831-16853                                                                       | 13   | 73 |



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| 239 | A comparison between superhydrophobic surfaces (SHS) and slippery liquid-infused porous surfaces (SLIPS) in application. <i>Nanoscale</i> , <b>2020</b> , 12, 22398-22424                                                                       | 7.7  | 17  |
| 238 | An ionic liquid-infused slippery surface for temperature stability, shear resistance and corrosion resistance. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24075-24085                                                           | 13   | 13  |
| 237 | Facile preparation of a superamphiphobic fabric coating with hierarchical TiO <sub>2</sub> particles. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 19192-19200                                                                           | 3.6  | 4   |
| 236 | Bioinspired materials for water-harvesting: focusing on microstructure designs and the improvement of sustainability. <i>Materials Advances</i> , <b>2020</b> , 1, 2592-2613                                                                    | 3.3  | 7   |
| 235 | Bionic smart recycled paper endowed with amphiphobic, photochromic, and UV rewritable properties. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4813-4821                                                                                        | 5.1  | 4   |
| 234 | Site-specific Positioning of MoS <sub>2</sub> on Fabric Weaves by Post Treatment or In-situ Method for Hydrophobic Stability and Photoluminescence Enhancement. <i>Chemistry Letters</i> , <b>2020</b> , 49, 1376-1378                          | 1.7  |     |
| 233 | A paper-making transformation: from cellulose-based superwetting paper to biomimetic multifunctional inorganic paper. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20238-20259                                                    | 13   | 6   |
| 232 | Robust multi-functional slippery surface with hollow ZnO nanotube structures. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15483-15491                                                                                                   | 3.6  | 7   |
| 231 | Effective sugar-derived organic gelator for three different types of lubricant oils to improve tribological performance. <i>Friction</i> , <b>2020</b> , 8, 1025-1038                                                                           | 5.6  | 8   |
| 230 | Novel and cutting-edge applications for a solvent-responsive superoleophobic/superhydrophilic surface: Water-infused omniphobic surface and separating organic liquid mixtures. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122629 | 14.7 | 22  |
| 229 | Subtractive manufacturing of stable hierarchical micro-nano structures on AA5052 sheet with enhanced water repellence and durable corrosion resistance. <i>Materials and Design</i> , <b>2019</b> , 183, 108152                                 | 8.1  | 121 |
| 228 | A different wettable Janus material with universal floatability for anti-turnover and lossless transportation of crude oil. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 15213-15221                                                     | 3.6  | 2   |
| 227 | Directional Penetration of Underwater Bubbles on Janus Surfaces. <i>Chemistry Letters</i> , <b>2019</b> , 48, 1254-1257                                                                                                                         | 1.7  | 3   |
| 226 | Kevlar fiber-reinforced multifunctional superhydrophobic paper for oil/water separation and liquid transportation. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 15453-15461                                                              | 3.6  | 13  |
| 225 | Triple-network hydrogels with high strength, low friction and self-healing by chemical-physical crosslinking. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 549-556                                                      | 9.3  | 26  |
| 224 | Biomimetic high-intensity superhydrophobic metal rubber with anti-corrosion property for industrial oil/water separation. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1894-1899                                                         | 3.6  | 13  |
| 223 | Water super-repellent behavior of semicircular micro/nanostructured surfaces. <i>Nanoscale</i> , <b>2019</b> , 11, 3725-3732                                                                                                                    | 5.7  | 12  |
| 222 | Energy-effective superhydrophobic nanocoating based on recycled eggshell. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 568, 20-28                                                                    | 5.1  | 14  |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 221 | Wettability of graphene: from influencing factors and reversible conversions to potential applications. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 339-364                                                                                                           | 10.8 | 68 |
| 220 | Facile synthesis of superhydrophobic three-metal-component layered double hydroxide films on aluminum foils for highly improved corrosion inhibition. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 2289-2298                                                    | 3.6  | 20 |
| 219 | Miniature Bioreactors: On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications (Adv. Sci. 10/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970061                                                                                         | 13.6 | 78 |
| 218 | One-step fabrication of thermal resistant, corrosion resistant metal rubber for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 573, 157-164                                                             | 5.1  | 10 |
| 217 | A scalable, self-healing and hot liquid repelling superamphiphobic spray coating with remarkable mechanochemical robustness for real-life applications. <i>Nanoscale</i> , <b>2019</b> , 11, 13853-13862                                                               | 7.7  | 31 |
| 216 | A hybrid bioinspired fiber trichome with special wettability for water collection, friction reduction and self-cleaning. <i>Nanoscale</i> , <b>2019</b> , 11, 11774-11781                                                                                              | 7.7  | 22 |
| 215 | A facile coating with water-repellent and flame-retardant properties on cotton fabric. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 10183-10189                                                                                                                 | 3.6  | 18 |
| 214 | Anti-solvent spin-coating for improving morphology of lead-free (CH <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> perovskite films. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1                                                       | 1.8  | 6  |
| 213 | Surface topographies of biomimetic superamphiphobic materials: design criteria, fabrication and performance. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 269, 87-121                                                                              | 14.3 | 19 |
| 212 | Superwetting Janus membranes: focusing on unidirectional transport behaviors and multiple applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12921-12950                                                                                         | 13   | 94 |
| 211 | Bubble shapes and their changes on slippery surfaces during directional transportation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 84-90                                                                                                     | 9.3  | 17 |
| 210 | In situ growth of ZIF-8 on CoAl layered double hydroxide/carbon fiber composites for highly efficient absorptive removal of hexavalent chromium from aqueous solutions. <i>Applied Clay Science</i> , <b>2019</b> , 175, 115-123                                       | 5.2  | 13 |
| 209 | Preparation and performance testing of superhydrophobic flame retardant cotton fabric. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 5839-5848                                                                                                                   | 3.6  | 17 |
| 208 | On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. <i>Advanced Science</i> , <b>2019</b> , 6, 1802033                                                                                                                                    | 13.6 | 24 |
| 207 | Multifunctional WS <sub>2</sub> /M-AgNPs superhydrophobic conductive sponges for application in various sensors. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 5287-5296                                                                                         | 3.6  | 4  |
| 206 | An alternating nanoscale (hydrophilic/hydrophobic)/hydrophilic Janus cooperative copper mesh fabricated by a simple liquidus modification for efficient fog harvesting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8405-8413                           | 13   | 52 |
| 205 | Controllable preparation of multiple superantiwetting surfaces: From dual to quadruple superhydrophobicity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 463-469                                                                                           | 14.7 | 17 |
| 204 | Fabrication of biocompatible super stable lubricant-immobilized slippery surfaces by grafting a polydimethylsiloxane brush: excellent boiling water resistance, hot liquid repellency and long-term slippery stability. <i>Nanoscale</i> , <b>2019</b> , 11, 8870-8881 | 7.7  | 30 |



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| 203 | Tribological Properties of Molybdenum Disulfide and Helical Carbon Nanotube Modified Epoxy Resin. <i>Materials</i> , <b>2019</b> , 12,                                                                                                  | 3.5 | 6  |
| 202 | Facile fabrication of ultraviolet light cured fluorinated polymer layer for smart superhydrophobic surface with excellent durability and flame retardancy. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 547, 153-161 | 9.3 | 19 |
| 201 | Fabrication of durable self-repairing superhydrophobic fabrics via a fluorinate-free waterborne biomimetic silicification strategy. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 5032-5038                                       | 3.6 | 7  |
| 200 | An all superantwetting surface in water-air systems. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6957-6962                                                                                                               | 9.2 | 12 |
| 199 | Drop/bubble transportation and controllable manipulation on patterned slippery lubricant infused surfaces with tunable wettability. <i>Soft Matter</i> , <b>2019</b> , 15, 6803-6810                                                    | 3.6 | 19 |
| 198 | Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. <i>Chemical Communications</i> , <b>2019</b> , 55, 10820-10843                                                                                      | 5.8 | 21 |
| 197 | Durable Lubricant-Impregnated Surfaces for Water Collection under Extremely Severe Working Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35949-35958                                                    | 9.5 | 31 |
| 196 | Hierarchical fibers for water collection inspired by spider silk. <i>Nanoscale</i> , <b>2019</b> , 11, 15448-15463                                                                                                                      | 7.7 | 26 |
| 195 | A Novel Method to Fabricate Nitrogen and Oxygen Co-Doped Flexible Cotton-Based Electrode for Wearable Supercapacitors. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4049-4058                                                              | 4.3 | 4  |
| 194 | Fabrications and Applications of Slippery Liquid-infused Porous Surfaces Inspired from Nature: A Review. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 769-793                                                               | 2.7 | 30 |
| 193 | Bioinspired Edible Lubricant-Infused Surface with Liquid Residue Reduction Properties. <i>Research</i> , <b>2019</b> , 2019, 1649427                                                                                                    | 7.8 | 14 |
| 192 | Patterned Slippery Surface for Bubble Directional Transportation and Collection Fabricated via a Facile Method. <i>Research</i> , <b>2019</b> , 2019, 9139535                                                                           | 7.8 | 6  |
| 191 | Underwater manipulation of oil droplets and bubbles on superhydrophobic surfaces via switchable adhesion. <i>Chemical Communications</i> , <b>2019</b> , 55, 3394-3397                                                                  | 5.8 | 16 |
| 190 | Underwater Superoleophobic Crucian Fish Scale: Influence of Ontogeny on Surface Morphologies and Wettability. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 1061-1067                                                        | 2.7 | 3  |
| 189 | Superhydrophobic and slippery cotton fabrics with robust nanolayers for stable wettability, anti-fouling and anti-icing properties. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 16656-16663                                     | 3.6 | 16 |
| 188 | Bioinspired surfaces with wettability for antifouling application. <i>Nanoscale</i> , <b>2019</b> , 11, 22636-22663                                                                                                                     | 7.7 | 66 |
| 187 | A highly fluorinated SiO <sub>2</sub> particle assembled, durable superhydrophobic and superoleophobic coating for both hard and soft materials. <i>Nanoscale</i> , <b>2019</b> , 11, 18338-18346                                       | 7.7 | 25 |
| 186 | A dual underliquid superlyophobic surface in organic media for on-demand separation of immiscible organic liquid mixtures. <i>Chemical Communications</i> , <b>2019</b> , 55, 13876-13879                                               | 5.8 | 11 |

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| 185 | Liquid infused surfaces with anti-icing properties. <i>Nanoscale</i> , <b>2019</b> , 11, 22615-22635                                                                                                                   | 7.7  | 32  |
| 184 | Polysulfide microspheres with chemical modification for generation of interfaces with macroscopic colour variation and biomimetic superhydrophobicity. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 281-290            | 5.1  | 4   |
| 183 | Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 52-76                                                       | 10.8 | 132 |
| 182 | Elastic Lubricious Effect of Solidlike Boundary Films in Oil-Starvation Lubrication. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1677-1691                                                             | 3.8  | 3   |
| 181 | Facile fabrication of superhydrophobic filter paper with high water adhesion. <i>Materials Letters</i> , <b>2019</b> , 236, 732-735                                                                                    | 3.3  | 17  |
| 180 | A study of synthesizing stable super-slip carbon nanotubes by grafting octadecylamine. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 540, 126-133                                                    | 9.3  | 3   |
| 179 | Biomimetic Janus Paper with Controllable Swelling for Shape Memory and Energy Conversion. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 1-12                                                                | 2.7  | 7   |
| 178 | Superhydrophobic Plant Leaves: The Variation in Surface Morphologies and Wettability during the Vegetation Period. <i>Langmuir</i> , <b>2019</b> , 35, 1047-1053                                                       | 4    | 12  |
| 177 | Lubricant-infused slippery surfaces: Facile fabrication, unique liquid repellence and antireflective properties. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 536, 507-515                          | 9.3  | 49  |
| 176 | Robust Mg(OH) <sub>2</sub> /epoxy resin superhydrophobic coating applied to composite insulators. <i>Applied Surface Science</i> , <b>2019</b> , 466, 126-132                                                          | 6.7  | 19  |
| 175 | An all-water-based system for robust superhydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 130-136                                                                           | 9.3  | 38  |
| 174 | Robust silicon dioxide @ epoxy resin micronanosheet superhydrophobic omnipotent protective coating for applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 550, 9-19 | 5.1  | 20  |
| 173 | Modifier-free fabrication of durable and multifunctional superhydrophobic paper with thermostability and anti-microbial property. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 94-103                      | 14.7 | 29  |
| 172 | Characteristics of binary WO@CuO and ternary WO@PDA@CuO based on impressive sensing acetone odor. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 524, 32-41                                           | 9.3  | 15  |
| 171 | How does substrate roughness affect the service life of a superhydrophobic coating?. <i>Applied Surface Science</i> , <b>2018</b> , 441, 491-499                                                                       | 6.7  | 22  |
| 170 | Flourishing Bioinspired Antifogging Materials with Superwettability: Progresses and Challenges. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704652                                                                 | 24   | 110 |
| 169 | Superhydrophobic Surfaces from Nature and Beyond Nature <b>2018</b> , 25-57                                                                                                                                            |      | 2   |
| 168 | Biomimetic Superhydrophobic Materials Applied for Oil/Water Separation (II) <b>2018</b> , 249-271                                                                                                                      |      |     |

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| 167 | Introduction for Biomimetic Superhydrophobic Materials <b>2018</b> , 1-24                                                                                                                                                                                   |      | 1  |
| 166 | Advances in the Theory of Superhydrophobic Surfaces and Interfaces <b>2018</b> , 59-84                                                                                                                                                                      |      |    |
| 165 | Fabrications of Noncoated Superhydrophobic Surfaces and Interfaces <b>2018</b> , 85-115                                                                                                                                                                     |      |    |
| 164 | Biomimetic Superhydrophobic Nanocoatings: From Materials to Fabrications and to Applications <b>2018</b> , 117-160                                                                                                                                          |      |    |
| 163 | Adhesion Behaviors on Superhydrophobic Surfaces and Interfaces <b>2018</b> , 161-189                                                                                                                                                                        |      |    |
| 162 | Smart Biomimetic Superhydrophobic Materials with Switchable Wettability <b>2018</b> , 191-227                                                                                                                                                               |      |    |
| 161 | Biomimetic Superhydrophobic Materials Applied for Oil/Water Separation (I) <b>2018</b> , 229-247                                                                                                                                                            |      |    |
| 160 | Transparent slippery liquid-infused nanoparticulate coatings. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 462-470                                                                                                                              | 14.7 | 67 |
| 159 | Underoil superhydrophilic surfaces: water adsorption in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1692-1699                                                                                                      | 13   | 50 |
| 158 | Facile modification of NH <sub>2</sub> -MIL-125(Ti) to enhance water stability for efficient adsorptive removal of crystal violet from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 541, 58-67 | 5.1  | 36 |
| 157 | Biomimetic Superhydrophobic Materials Applied for Anti-icing/Frosting <b>2018</b> , 273-371                                                                                                                                                                 |      |    |
| 156 | Biomimetic photonic structures with tunable structural colours: From natural to biomimetic to applications. <i>Journal of Bionic Engineering</i> , <b>2018</b> , 15, 1-33                                                                                   | 2.7  | 11 |
| 155 | A robust and stretchable superhydrophobic PDMS/PVDF@KNFs membrane for oil/water separation and flame retardancy. <i>Nanoscale</i> , <b>2018</b> , 10, 6695-6703                                                                                             | 7.7  | 66 |
| 154 | Nonflammable superhydrophobic paper with biomimetic layered structure exhibiting boiling-water resistance and repairable properties for emulsion separation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7042-7052                           | 13   | 44 |
| 153 | Bioinspired fish-scale-like stainless steel surfaces with robust underwater anti-crude-oil-fouling and self-cleaning properties. <i>Separation and Purification Technology</i> , <b>2018</b> , 202, 111-118                                                 | 8.3  | 16 |
| 152 | Mechanical stability, corrosion resistance of superhydrophobic steel and repairable durability of its slippery surface. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 512, 239-248                                                        | 9.3  | 62 |
| 151 | A facile and effective method to improve the dispersibility of WS <sub>2</sub> nanosheets in PAO8 for the tribological performances. <i>Tribology International</i> , <b>2018</b> , 118, 60-70                                                              | 4.9  | 24 |
| 150 | Stable Janus superhydrophilic/hydrophobic nickel foam for directional water transport. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 509, 346-352                                                                                         | 9.3  | 20 |

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| 149 | A facile method to mussel-inspired superhydrophobic thiol-textiles@polydopamine for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 554, 253-260                  | 5.1  | 25  |
| 148 | Creation of a multifunctional superhydrophobic coating for composite insulators. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 774-781                                                                               | 14.7 | 30  |
| 147 | Well Dispersive TiO <sub>2</sub> Nanoparticles as Additives for Improving the Tribological Performance of Polyalphaolefin Gel Lubricant. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 10379-10390 | 3.9  | 12  |
| 146 | In situ growth of durable superhydrophobic Mg/Al layered double hydroxides nanoplatelets on aluminum alloys for corrosion resistance. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 767, 382-391                       | 5.7  | 51  |
| 145 | Understanding how surface chemistry and topography enhance fog harvesting based on the superwetting surface with patterned hemispherical bulges. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 525, 234-242   | 9.3  | 49  |
| 144 | Biomimetic super durable and stable surfaces with superhydrophobicity. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16731-16768                                                                                   | 13   | 98  |
| 143 | Diving-floating locomotion induced by capturing and manipulating bubbles in an aqueous environment. <i>Chemical Communications</i> , <b>2018</b> , 54, 11713-11716                                                              | 5.8  | 13  |
| 142 | Facile Fabrication of Superhydrophobic and Underwater Superoleophobic Coatings. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4894-4899                                                                                  | 5.6  | 25  |
| 141 | Novel fabrication of polymer/carbon nanotube composite coated Janus paper for humidity stress sensor. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 517-526                                              | 9.3  | 24  |
| 140 | Fundamentals of icing and common strategies for designing biomimetic anti-icing surfaces. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13549-13581                                                                | 13   | 118 |
| 139 | Robust and self-repairing superamphiphobic coating from all-water-based spray. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 553, 645-651                                             | 5.1  | 27  |
| 138 | Robust and multi-repaired superhydrophobic surfaces via one-step method on copper and aluminum alloys. <i>Materials Letters</i> , <b>2018</b> , 213, 290-293                                                                    | 3.3  | 11  |
| 137 | Multifunctional superamphiphobic SiO <sub>2</sub> coating for crude oil transportation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 1584-1593                                                                      | 14.7 | 38  |
| 136 | Self-Organization of Amorphous Carbon Nanocapsules into Diamond Nanocrystals Driven by Self-Nanoscale Excessive Pressure under Moderate Electron Irradiation without External Heating. <i>Small</i> , <b>2018</b> , 14, 1702072 | 11   | 4   |
| 135 | Biomimetic multi-functional superhydrophobic stainless steel and copper meshes for water environment applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17625-17635                                              | 3.6  | 8   |
| 134 | Biomimetic self-slippery and transferable transparent lubricant-infused functional surfaces. <i>Nanoscale</i> , <b>2018</b> , 10, 19879-19889                                                                                   | 7.7  | 25  |
| 133 | Simple fabrication of a multifunctional inorganic paper with high efficiency separations for both liquids and particles. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21524-21531                                 | 13   | 22  |
| 132 | An easy preparation of photo-response TiO <sub>2</sub> @copper wire mesh with quick on/off switchable superwetting for high efficiency oil/water separation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17563-17573    | 3.6  | 19  |

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| 131 | The wettability of gas bubbles: from macro behavior to nano structures to applications. <i>Nanoscale</i> , <b>2018</b> , 10, 19659-19672                                                                                                                                               | 7.7 | 27 |
| 130 | A facile approach to achieve bioinspired PDMS@Fe <sub>3</sub> O <sub>4</sub> fabric with switchable wettability for liquid transport and water collection. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22741-22748                                                      | 13  | 38 |
| 129 | Efficient Fog Harvesting Based on 1D Copper Wire Inspired by the Plant Pitaya. <i>Langmuir</i> , <b>2018</b> , 34, 15259-15266                                                                                                                                                         | 11  | 67 |
| 128 | Organic Media Superwettability: On-Demand Liquid Separation by Controlling Surface Chemistry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37634-37642                                                                                                            | 9.5 | 24 |
| 127 | Bionic boron/silicon-modified phenolic resin system with multifunctional groups: synthesis, thermal properties and ablation mechanism. <i>Biosurface and Biotribology</i> , <b>2018</b> , 4, 85-93                                                                                     | 1   | 6  |
| 126 | Durable superhydrophobic and underwater superoleophobic cotton fabrics growing zinc oxide nanoarrays for application in separation of heavy/light oil and water mixtures as need. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 559, 115-126 | 5.1 | 35 |
| 125 | The chitosan hydrogels: from structure to function. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17162-17180                                                                                                                                                                    | 3.6 | 51 |
| 124 | Superhydrophobic Plant Leaves with Micro-line Structures: An Optimal Biomimetic Objective in Bionic Engineering. <i>Journal of Bionic Engineering</i> , <b>2018</b> , 15, 851-858                                                                                                      | 2.7 | 12 |
| 123 | A study on the manufacture of Kevlar membrane modified by inorganic nanoparticles with universal applicability in separating diffident types of emulsions. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 326-335                                                             | 9.6 | 12 |
| 122 | pH-Responsive Superwetting Fabric for On-demand Oil-Water Separation. <i>Chemistry Letters</i> , <b>2018</b> , 47, 923-926                                                                                                                                                             | 1.7 | 2  |
| 121 | Dual superlyophobic surfaces with superhydrophobicity and underwater superoleophobicity. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11682-11687                                                                                                                        | 13  | 42 |
| 120 | Ag nanoparticles loading of polypyrrole-coated superwetting mesh for on-demand separation of oil-water mixtures and catalytic reduction of aromatic dyes. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 527, 187-194                                                 | 9.3 | 23 |
| 119 | Spontaneous directional transportations of water droplets on surfaces driven by gradient structures. <i>Nanoscale</i> , <b>2018</b> , 10, 13814-13831                                                                                                                                  | 7.7 | 58 |
| 118 | Robust superhydrophobic and self-lubricating PTES-TiO <sub>2</sub> @UHMWPE fabric and its tribological properties. <i>RSC Advances</i> , <b>2017</b> , 7, 9169-9175                                                                                                                    | 3.7 | 10 |
| 117 | Recent Advances in the Fabrication of Superhydrophobic Surfaces. <i>Chemistry Letters</i> , <b>2017</b> , 46, 152-152                                                                                                                                                                  | 1.7 | 1  |
| 116 | Multifunctional hollow superhydrophobic SiO <sub>2</sub> microspheres with robust and self-cleaning and separation of oil/water emulsions properties. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 494, 54-63                                                       | 9.3 | 63 |
| 115 | Superhydrophobic sand: a hope for desert water storage and transportation projects. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6416-6423                                                                                                                               | 13  | 34 |
| 114 | Green fabrication of coloured superhydrophobic paper from native cotton cellulose. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 497, 284-289                                                                                                                        | 9.3 | 35 |

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| 113 | Biomimetic polymeric superhydrophobic surfaces and nanostructures: from fabrication to applications. <i>Nanoscale</i> , <b>2017</b> , 9, 3338-3366                                                                           | 7.7  | 185 |
| 112 | Hydrophobic and tribological behaviors of a poly(p-phenylene benzobisoxazole) fabric composite reinforced with nano-TiO <sub>2</sub> . <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45077                  | 2.9  |     |
| 111 | Effect of surface topography and wettability on the Leidenfrost effect. <i>Nanoscale</i> , <b>2017</b> , 9, 6219-6236                                                                                                        | 7.7  | 31  |
| 110 | Stable and self-healing superhydrophobic MnO@fabrics: Applications in self-cleaning, oil/water separation and wear resistance. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 503, 124-130                  | 9.3  | 70  |
| 109 | A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. <i>Separation and Purification Technology</i> , <b>2017</b> , 184, 72-78                                                            | 8.3  | 61  |
| 108 | Outmatching superhydrophobicity: bio-inspired re-entrant curvature for mighty superamphiphobicity in air. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14480-14507                                             | 13   | 57  |
| 107 | Different post-treatment processes and different gas sensing behaviors of hierarchical hollow tungsten trioxide shell. <i>Materials Letters</i> , <b>2017</b> , 203, 93-96                                                   | 3.3  | 4   |
| 106 | Stable Superwetting Meshes for On-Demand Separation of Immiscible Oil/Water Mixtures and Emulsions. <i>Langmuir</i> , <b>2017</b> , 33, 3702-3710                                                                            | 4    | 69  |
| 105 | Computational investigation of the lubrication behaviors of dioxides and disulfides of molybdenum and tungsten in vacuum. <i>Friction</i> , <b>2017</b> , 5, 23-31                                                           | 5.6  | 20  |
| 104 | Bio-inspired one-pot route to prepare robust and repairable micro-nanoscale superhydrophobic coatings. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 498, 182-193                                          | 9.3  | 25  |
| 103 | Inorganic Adhesives for Robust Superwetting Surfaces. <i>ACS Nano</i> , <b>2017</b> , 11, 1113-1119                                                                                                                          | 16.7 | 162 |
| 102 | Biomimetic superwetable materials with structural colours. <i>Chemical Communications</i> , <b>2017</b> , 53, 12990-12991                                                                                                    | 13.0 | 24  |
| 101 | Superhydrophobic sand grains structured with aligned Cu(OH) <sub>2</sub> nano-needles for efficient oily water treatment. <i>Materials and Design</i> , <b>2017</b> , 135, 377-384                                           | 8.1  | 15  |
| 100 | Simple one-pot approach toward robust and boiling-water resistant superhydrophobic cotton fabric and the application in oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21866-21874         | 13   | 84  |
| 99  | Bioinspired silica-based superhydrophobic materials. <i>Applied Surface Science</i> , <b>2017</b> , 426, 1-18                                                                                                                | 6.7  | 30  |
| 98  | Superwetting meshes with grass-like structures in the pores for highly efficient separation of oil-in-water emulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 529, 1030-1036 | 5.1  | 13  |
| 97  | Biomimetic superhydrophobic surfaces with transition metals and their oxides: A review. <i>Journal of Bionic Engineering</i> , <b>2017</b> , 14, 401-439                                                                     | 2.7  | 59  |
| 96  | Versatile superamphiphobic cotton fabrics fabricated by coating with SiO <sub>2</sub> /FOTS. <i>Applied Surface Science</i> , <b>2017</b> , 426, 271-278                                                                     | 6.7  | 33  |



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| 95 | Robust, heat-resistant and multifunctional superhydrophobic coating of carbon microflowers with molybdenum trioxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 506, 649-658              | 9.3  | 17  |
| 94 | Low cost and non-fluoride flowerlike superhydrophobic particles fabricated for both emulsions separation and dyes adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 421-428                   | 9.3  | 16  |
| 93 | Inorganic adhesives for robust, self-healing, superhydrophobic surfaces. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19297-19305                                                                              | 13   | 89  |
| 92 | Robust micro-nanoscale flowerlike ZnO/epoxy resin superhydrophobic coating with rapid healing ability. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1152-1159                                                    | 14.7 | 96  |
| 91 | <b>2017</b> ,                                                                                                                                                                                                                |      | 3   |
| 90 | Tuning SnO <sub>2</sub> architectures with unitary or composite microstructure for the application of gas sensors. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 462, 140-7                                | 9.3  | 19  |
| 89 | A study on the fabrication of porous PVDF membranes by in-situ elimination and their applications in separating oil/water mixtures and nano-emulsions. <i>Journal of Membrane Science</i> , <b>2016</b> , 520, 760-768       | 9.6  | 67  |
| 88 | Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15749-15770                                                              | 13   | 138 |
| 87 | High-efficiency water collection on biomimetic material with superwetttable patterns. <i>Chemical Communications</i> , <b>2016</b> , 52, 12415-12417                                                                         | 5.8  | 71  |
| 86 | Controlled Growth of Tungsten Oxide Films by Hydrothermal Synthesis for Underwater Superoleophobicity Regulation. <i>Chemistry Letters</i> , <b>2016</b> , 45, 146-148                                                       | 1.7  | 1   |
| 85 | Characterizing a lubricant additive for 1,3,4-tri-(2-octyldodecyl) cyclopentane: Computational study and experimental verification. <i>Friction</i> , <b>2016</b> , 4, 257-265                                               | 5.6  | 1   |
| 84 | A Robust Epoxy Resins @ Stearic Acid-Mg(OH) <sub>2</sub> Micronanosheet Superhydrophobic Omnipotent Protective Coating for Real-Life Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16511-20 | 9.5  | 129 |
| 83 | Robust superhydrophobic tungsten oxide coatings with photochromism and UV durability properties. <i>Applied Surface Science</i> , <b>2016</b> , 387, 412-418                                                                 | 6.7  | 30  |
| 82 | Polyaniline coated membranes for effective separation of oil-in-water emulsions. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 467, 261-270                                                                | 9.3  | 70  |
| 81 | Engineering NiO sensitive materials and its ultra-selective detection of benzaldehyde. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 467, 192-202                                                          | 9.3  | 27  |
| 80 | Fabrication of stable and durable superhydrophobic surface on copper substrates for oil-water separation and ice-over delay. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 466, 36-43                      | 9.3  | 83  |
| 79 | Inspired smart materials with external stimuli responsive wettability: a review. <i>RSC Advances</i> , <b>2016</b> , 6, 36623-36641                                                                                          | 3.7  | 110 |
| 78 | Facile Fabrication of Multifunctional Hybrid Silk Fabrics with Controllable Surface Wettability and Laundering Durability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5653-60                          | 9.5  | 31  |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 77 | Biomimetic water-collecting materials inspired by nature. <i>Chemical Communications</i> , <b>2016</b> , 52, 3863-79                                                                                                                                            | 5.8  | 141 |
| 76 | Understanding the separations of oil/water mixtures from immiscible to emulsions on super-wettable surfaces. <i>Journal of Bionic Engineering</i> , <b>2016</b> , 13, 1-29                                                                                      | 2.7  | 77  |
| 75 | Bio-inspired writable multifunctional recycled paper with outer and inner uniform superhydrophobicity. <i>RSC Advances</i> , <b>2016</b> , 6, 30776-30784                                                                                                       | 3.7  | 14  |
| 74 | The Tribological Property and Microstructure of Ni-Ti Coating Prepared by Electrodeposition and Heat Treatment. <i>Advances in Materials Science and Engineering</i> , <b>2016</b> , 2016, 1-6                                                                  | 1.5  | 5   |
| 73 | Electrochemical route to prepare polyaniline-coated meshes with controllable pore size for switchable emulsion separation. <i>Chemical Engineering Journal</i> , <b>2016</b> , 304, 115-120                                                                     | 14.7 | 59  |
| 72 | Bio-inspired design of a transparent TiO <sub>2</sub> /SiO <sub>2</sub> composite gel coating with adjustable wettability. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 7545-7553                                                                    | 4.3  | 11  |
| 71 | Eco-friendly functionalized superhydrophobic recycled paper with enhanced flame-retardancy. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 477, 74-82                                                                                          | 9.3  | 33  |
| 70 | Wetting characterizations of oilseed rapes. <i>Journal of Bionic Engineering</i> , <b>2016</b> , 13, 213-219                                                                                                                                                    | 2.7  | 10  |
| 69 | Hybrid engineered materials with high water-collecting efficiency inspired by Namib Desert beetles. <i>Chemical Communications</i> , <b>2016</b> , 52, 6809-12                                                                                                  | 5.8  | 62  |
| 68 | Hybrid MWCNTs membrane with well-tunable wettability. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 484, 173-182                                                                                                                              | 9.3  | 6   |
| 67 | Biomimetic Multi-Functional Superamphiphobic FOTS-TiO Particles beyond Lotus Leaf. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27188-27198                                                                                                 | 9.5  | 106 |
| 66 | Anisotropic wetting properties on various shape of parallel grooved microstructure. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 453, 142-150                                                                                                | 9.3  | 19  |
| 65 | Iron impurities as the active sites for peroxidase-like catalytic reaction on graphene and its derivatives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15403-13                                                                           | 9.5  | 31  |
| 64 | pH-Manipulated Underwater-Oil Adhesion Wettability Behavior on the Micro/Nanoscale Semicircular Structure and Related Thermodynamic Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10641-9                                          | 9.5  | 23  |
| 63 | A two-step reduction method for synthesizing graphene nanocomposites with a low loading of well-dispersed platinum nanoparticles for use as counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 4412-4421 | 4.3  | 11  |
| 62 | Significant advantages of low-oxygen graphene nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9738-9744                                                                                                                                  | 13   | 10  |
| 61 | Stable underwater superoleophobic conductive polymer coated meshes for high-efficiency oil/water separation. <i>RSC Advances</i> , <b>2015</b> , 5, 33077-33082                                                                                                 | 3.7  | 35  |
| 60 | A multifunctional transparent superhydrophobic gel nanocoating with self-healing properties. <i>Chemical Communications</i> , <b>2015</b> , 51, 16794-7                                                                                                         | 5.8  | 80  |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 59 | Design and understanding of a high-performance gas sensing material based on copper oxide nanowires exfoliated from a copper mesh substrate. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20477-20481                        | 13.1 | 24   |
| 58 | Optimal design of superhydrophobic surfaces using a semicircular protrusion microtexture. <i>RSC Advances</i> , <b>2015</b> , 5, 8446-8454                                                                                                 | 3.7  | 5    |
| 57 | Biomimetic superoleophobic surfaces: focusing on their fabrication and applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1811-1827                                                                                  | 13   | 180  |
| 56 | Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. <i>Chemical Communications</i> , <b>2015</b> , 51, 1775-94                                                                                            | 5.8  | 168  |
| 55 | Biomimetic super-lyophobic and super-lyophilic materials applied for oil/water separation: a new strategy beyond nature. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 336-61                                                        | 58.5 | 1104 |
| 54 | Nanoparticles: Bioinspired Superhydrophobic Fe <sub>3</sub> O <sub>4</sub> @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill (Adv. Mater. Interfaces 13/2015). <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, | 4.6  | 2    |
| 53 | Superwetting Materials of Oil/Water Emulsion Separation. <i>Chemistry Letters</i> , <b>2015</b> , 44, 874-883                                                                                                                              | 1.7  | 68   |
| 52 | A Tunable Superwetting Copper Film between Superhydrophobicity and Superhydrophilicity. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1527-1529                                                                                             | 1.7  | 1    |
| 51 | A Facile Fabrication for Amphiphobic Aluminum Surface. <i>Chemistry Letters</i> , <b>2015</b> , 44, 324-326                                                                                                                                | 1.7  | 6    |
| 50 | Bioinspired Superhydrophobic Fe <sub>3</sub> O <sub>4</sub> @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500234                                         | 4.6  | 67   |
| 49 | Fabrication of functional superhydrophobic engineering materials via an extremely rapid and simple route. <i>Chemical Communications</i> , <b>2015</b> , 51, 6493-5                                                                        | 5.8  | 29   |
| 48 | Comparison of the enhanced gas sensing properties of tin dioxide samples doped with different catalytic transition elements. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 448, 265-74                                   | 9.3  | 28   |
| 47 | Superhydrophobic surfaces based on polypyrrole with corrosion resistance and the separation of oil/water mixture properties. <i>RSC Advances</i> , <b>2015</b> , 5, 107880-107888                                                          | 3.7  | 22   |
| 46 | A facile approach to transform stainless steel mesh into pH-responsive smart material. <i>RSC Advances</i> , <b>2015</b> , 5, 13635-13642                                                                                                  | 3.7  | 11   |
| 45 | Superhydrophobic nanocoatings: from materials to fabrications and to applications. <i>Nanoscale</i> , <b>2015</b> , 7, 5922-46                                                                                                             | 7.7  | 258  |
| 44 | Characterization of Micro-Morphology and Wettability of Lotus Leaf, Waterlily Leaf and Biomimetic ZnO Surface. <i>Journal of Bionic Engineering</i> , <b>2015</b> , 12, 88-97                                                              | 2.7  | 24   |
| 43 | Well-dispersed PEDOT:PSS/graphene nanocomposites synthesized by in situ polymerization as counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 2148-2157                             | 4.3  | 28   |
| 42 | Adhesion behaviors on superhydrophobic surfaces. <i>Chemical Communications</i> , <b>2014</b> , 50, 3900-13                                                                                                                                | 5.8  | 169  |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 41 | Bio-inspired encapsulation and functionalization of living cells with artificial shells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 113, 483-500                                                               | 6   | 29  |
| 40 | Design of underwater superoleophobic TiO <sub>2</sub> coatings with additional photo-induced self-cleaning properties by one-step route bio-inspired from fish scales. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 183703 | 3.4 | 45  |
| 39 | Self-assembly and tribological properties of a novel organic/inorganic nanocomposite film on silicon using polydopamine as the adhesion layer. <i>RSC Advances</i> , <b>2014</b> , 4, 948-953                                     | 3.7 | 12  |
| 38 | A simple route to transform normal hydrophilic cloth into a superhydrophobic/superhydrophilic hybrid surface. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7845-7852                                                | 13  | 48  |
| 37 | Optimal design of superhydrophobic surfaces using a paraboloid microtexture. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 436, 19-28                                                                           | 9.3 | 17  |
| 36 | Underwater superoleophobic graphene oxide coated meshes for the separation of oil and water. <i>Chemical Communications</i> , <b>2014</b> , 50, 5586-9                                                                            | 5.8 | 209 |
| 35 | pH-responsive smart fabrics with controllable wettability in different surroundings. <i>RSC Advances</i> , <b>2014</b> , 4, 14684                                                                                                 | 3.7 | 45  |
| 34 | Interfacial effects of superhydrophobic plant surfaces: A review. <i>Journal of Bionic Engineering</i> , <b>2014</b> , 11, 325-345                                                                                                | 2.7 | 84  |
| 33 | Transparent and Superhydrophobic Co <sub>3</sub> O <sub>4</sub> Microfiber Films. <i>Chemistry Letters</i> , <b>2014</b> , 43, 100-101                                                                                            | 1.7 | 16  |
| 32 | pH-Responsive Wettable Fabrics with Hierarchical Structures. <i>Chemistry Letters</i> , <b>2014</b> , 43, 553-555                                                                                                                 | 1.7 | 5   |
| 31 | Robust Superhydrophobic Zinc Oxide Film. <i>Chemistry Letters</i> , <b>2014</b> , 43, 305-306                                                                                                                                     | 1.7 | 14  |
| 30 | A Superhydrophobic Copper Mesh with Microrod Structure for Oil/Water Separation Inspired from Ramee Leaf. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1645-1647                                                                  | 1.7 | 23  |
| 29 | Micromechanics of Lotus Fibers. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1137-1139                                                                                                                                            | 1.7 | 13  |
| 28 | Theoretical investigation of atomic oxygen erosion mechanisms of 1,3-didecyl cyclopentane, 1,3-dioctyldodecyl cyclopentane and alkylated cyclopentane. <i>RSC Advances</i> , <b>2014</b> , 4, 50486-50493                         | 3.7 | 3   |
| 27 | Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 063704                              | 3.4 | 67  |
| 26 | A robust transparent and anti-fingerprint superhydrophobic film. <i>Chemical Communications</i> , <b>2013</b> , 49, 7310-2                                                                                                        | 5.8 | 42  |
| 25 | Biomimetic photonic materials with tunable structural colors. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 406, 1-17                                                                                           | 9.3 | 94  |
| 24 | Stable superhydrophobic and superoleophilic soft porous materials for oil/water separation. <i>RSC Advances</i> , <b>2013</b> , 3, 16469                                                                                          | 3.7 | 85  |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 23 | pH-responsive bidirectional oil-water separation material. <i>Chemical Communications</i> , <b>2013</b> , 49, 9416-8                                                                                                                                                          | 5.8  | 151 |
| 22 | Graphene oxide/Iron complex: synthesis, characterization and visible-light-driven photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 644-650                                                                                                          | 13   | 46  |
| 21 | Methodology for robust superhydrophobic fabrics and sponges from in situ growth of transition metal/metal oxide nanocrystals with thiol modification and their applications in oil/water separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1827-39 | 9.5  | 225 |
| 20 | Conductive and transparent superhydrophobic films on various substrates by in situ deposition. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 203703                                                                                                                     | 3.4  | 23  |
| 19 | Thermo-responsive hollow silica microgels with controlled drug release properties. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 111, 7-14                                                                                                                    | 6    | 30  |
| 18 | Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9774                                                                                                 |      | 210 |
| 17 | Recent progress of double-structural and functional materials with special wettability. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 799-815                                                                                                                     |      | 161 |
| 16 | Advances in the theory of superhydrophobic surfaces. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20112                                                                                                                                                          |      | 148 |
| 15 | Electricity-driven wettability with a low threshold voltage. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 082106                                                                                                                                                        | 3.4  | 11  |
| 14 | Superhydrophobic surfaces: from natural to biomimetic to functional. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 353, 335-55                                                                                                                              | 9.3  | 747 |
| 13 | Formation mechanism of robust silver nanoparticle film with superhydrophobicity. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 243701                                                                                                                                    | 3.4  | 11  |
| 12 | Why so strong for the lotus leaf?. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 201909                                                                                                                                                                                  | 3.4  | 34  |
| 11 | Fabrication of Co(3)O(4) hierarchically superhydrophobic boat-like hollow cages at the silicon surface. <i>Nanotechnology</i> , <b>2008</b> , 19, 445608                                                                                                                      | 3.4  | 17  |
| 10 | Biomimic from the superhydrophobic plant leaves in nature: Binary structure and unitary structure. <i>Plant Science</i> , <b>2007</b> , 172, 1103-1112                                                                                                                        | 5.3  | 399 |
| 9  | Effects of system parameters on making aluminum alloy lotus. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 303, 298-305                                                                                                                                     | 9.3  | 110 |
| 8  | Stable biomimetic super-hydrophobic engineering materials. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15670-1                                                                                                                                       | 16.4 | 447 |
| 7  | The gorgeous transformation of paper: from cellulose paper to inorganic paper to 2D paper materials with multifunctional properties. <i>Journal of Materials Chemistry A</i> ,                                                                                                | 13   | 2   |
| 6  | Simple preparation of a durable and low-cost load-bearing three-dimensional porous material for emulsion separation. <i>New Journal of Chemistry</i> ,                                                                                                                        | 3.6  | 2   |

- 5 Lubricant self-replenishing slippery surface with prolonged service life for fog harvesting. *Friction*, 13, 5.6 1
- 4 The intrigue of directional water collection interface: mechanisms and strategies. *Journal of Materials Chemistry A*, 13, 3
- 3 Natural polysaccharide-based aerogels and their applications in oil/water separations: a review. *Journal of Materials Chemistry A*, 13, 2
- 2 Special Wettability Materials Inspired by Multiorganisms for Fog Collection. *Advanced Materials Interfaces*, 2102484, 4.6 1
- 1 Endowment of high buoyancy and antifouling properties upon a simple superamphiphobic cotton fabric. *Materials Advances*, 3, 3