ZhiGuang Guo

List of Publications by Citations

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

#	Paper	IF	Citations
328	Biomimetic super-lyophobic and super-lyophilic materials applied for oil/water separation: a new strategy beyond nature. *Chemical Society Reviews*, **2015**, 44, 336-61	58.5	1104
327	Superhydrophobic surfaces: from natural to biomimetic to functional. *Journal of Colloid and Interface Science*, **2011**, 353, 335-55	9.3	747
326	Stable biomimetic super-hydrophobic engineering materials. *Journal of the American Chemical Society*, **2005**, 127, 15670-1	16.4	447
325	Biomimic from the superhydrophobic plant leaves in nature: Binary structure and unitary structure. *Plant Science*, **2007**, 172, 1103-1112	5.3	399
324	Superhydrophobic nanocoatings: from materials to fabrications and to applications. *Nanoscale*, **2015**, 7, 5922-46	7.7	258
323	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. *ACS Applied Materials & Interfaces*, **2013**, 5, 1827-39	9.5	225
322	Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. *Journal of Materials Chemistry*, **2012**, 22, 9774		210
321	Underwater superoleophobic graphene oxide coated meshes for the separation of oil and water. *Chemical Communications*, **2014**, 50, 5586-9	5.8	209
320	Biomimetic polymeric superhydrophobic surfaces and nanostructures: from fabrication to applications. *Nanoscale*, **2017**, 9, 3338-3366	7.7	185
319	Biomimetic superoleophobic surfaces: focusing on their fabrication and applications. *Journal of Materials Chemistry A*, **2015**, 3, 1811-1827	13	180
318	Adhesion behaviors on superhydrophobic surfaces. *Chemical Communications*, **2014**, 50, 3900-13	5.8	169
317	Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. *Chemical Communications*, **2015**, 51, 1775-94	5.8	168
316	Inorganic Adhesives for Robust Superwetting Surfaces. *ACS Nano*, **2017**, 11, 1113-1119	16.7	162
315	Recent progress of double-structural and functional materials with special wettability. *Journal of Materials Chemistry*, **2012**, 22, 799-815		161
314	pH-responsive bidirectional oil-water separation material. *Chemical Communications*, **2013**, 49, 9416-8	5.8	151
313	Advances in the theory of superhydrophobic surfaces. *Journal of Materials Chemistry*, **2012**, 22, 20112		148
312	Biomimetic water-collecting materials inspired by nature. *Chemical Communications*, **2016**, 52, 3863-79	5.8	141

311	Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. *Journal of Materials Chemistry A*, **2016**, 4, 15749-15770	13	138
310	Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. *Nanoscale Horizons*, **2019**, 4, 52-76	10.8	132
309	A Robust Epoxy Resins @ Stearic Acid-Mg(OH)2 Micronanosheet Superhydrophobic Omnipotent Protective Coating for Real-Life Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 16511-20	9.5	129
308	Subtractive manufacturing of stable hierarchical micro-nano structures on AA5052 sheet with enhanced water repellence and durable corrosion resistance. *Materials and Design*, **2019**, 183, 108152	8.1	121
307	Fundamentals of icing and common strategies for designing biomimetic anti-icing surfaces. *Journal of Materials Chemistry A*, **2018**, 6, 13549-13581	13	118
306	Flourishing Bioinspired Antifogging Materials with Superwettability: Progresses and Challenges. *Advanced Materials*, **2018**, 30, e1704652	24	110
305	Inspired smart materials with external stimuli responsive wettability: a review. *RSC Advances*, **2016**, 6, 36623-36641	3.7	110
304	Effects of system parameters on making aluminum alloy lotus. *Journal of Colloid and Interface Science*, **2006**, 303, 298-305	9.3	110
303	Biomimetic Multi-Functional Superamphiphobic FOTS-TiO Particles beyond Lotus Leaf. *ACS Applied Materials & Interfaces*, **2016**, 8, 27188-27198	9.5	106
302	Biomimetic super durable and stable surfaces with superhydrophobicity. *Journal of Materials Chemistry A*, **2018**, 6, 16731-16768	13	98
301	Robust micro-nanoscale flowerlike ZnO/epoxy resin superhydrophobic coating with rapid healing ability. *Chemical Engineering Journal*, **2017**, 313, 1152-1159	14.7	96
300	Superwetting Janus membranes: focusing on unidirectional transport behaviors and multiple applications. *Journal of Materials Chemistry A*, **2019**, 7, 12921-12950	13	94
299	Biomimetic photonic materials with tunable structural colors. *Journal of Colloid and Interface Science*, **2013**, 406, 1-17	9.3	94
298	Inorganic adhesives for robust, self-healing, superhydrophobic surfaces. *Journal of Materials Chemistry A*, **2017**, 5, 19297-19305	13	89
297	Stable superhydrophobic and superoleophilic soft porous materials for oil/water separation. *RSC Advances*, **2013**, 3, 16469	3.7	85
296	Simple one-pot approach toward robust and boiling-water resistant superhydrophobic cotton fabric and the application in oil/water separation. *Journal of Materials Chemistry A*, **2017**, 5, 21866-21874	13	84
295	Interfacial effects of superhydrophobic plant surfaces: A review. *Journal of Bionic Engineering*, **2014** , 11, 325-345	2.7	84
294	Fabrication of stable and durable superhydrophobic surface on copper substrates for oil-water separation and ice-over delay. *Journal of Colloid and Interface Science*, **2016**, 466, 36-43	9.3	83

293	A multifunctional transparent superhydrophobic gel nanocoating with self-healing properties. *Chemical Communications*, **2015**, 51, 16794-7	5.8	80
292	Miniature Bioreactors: On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications (Adv. Sci. 10/2019). *Advanced Science*, **2019**, 6, 1970061	13.6	78
291	Understanding the separations of oil/water mixtures from immiscible to emulsions on super-wettable surfaces. *Journal of Bionic Engineering*, **2016**, 13, 1-29	2.7	77
290	Designing novel superwetting surfaces for high-efficiency oil□water separation: design principles, opportunities, trends and challenges. *Journal of Materials Chemistry A*, **2020**, 8, 16831-16853	13	73
289	High-efficiency water collection on biomimetic material with superwettable patterns. *Chemical Communications*, **2016**, 52, 12415-12417	5.8	71
288	Stable and self-healing superhydrophobic MnO@fabrics: Applications in self-cleaning, oil/water separation and wear resistance. *Journal of Colloid and Interface Science*, **2017**, 503, 124-130	9.3	70
287	Polyaniline coated membranes for effective separation of oil-in-water emulsions. *Journal of Colloid and Interface Science*, **2016**, 467, 261-270	9.3	70
286	Stable Superwetting Meshes for On-Demand Separation of Immiscible Oil/Water Mixtures and Emulsions. *Langmuir*, **2017**, 33, 3702-3710	4	69
285	Wettability of graphene: from influencing factors and reversible conversions to potential applications. *Nanoscale Horizons*, **2019**, 4, 339-364	10.8	68
284	Superwetting Materials of Oil□Water Emulsion Separation. *Chemistry Letters*, **2015**, 44, 874-883	1.7	68
283	Transparent slippery liquid-infused nanoparticulate coatings. *Chemical Engineering Journal*, **2018**, 337, 462-470	14.7	67
282	A study on the fabrication of porous PVDF membranes by in-situ elimination and their applications in separating oil/water mixtures and nano-emulsions. *Journal of Membrane Science*, **2016**, 520, 760-768	9.6	67
281	Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. *Applied Physics Letters*, **2013**, 103, 063704	3.4	67
280	Bioinspired Superhydrophobic Fe3O4@Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. *Advanced Materials Interfaces*, **2015**, 2, 1500234	4.6	67
279	A robust and stretchable superhydrophobic PDMS/PVDF@KNFs membrane for oil/water separation and flame retardancy. *Nanoscale*, **2018**, 10, 6695-6703	7.7	66
278	Bioinspired surfaces with wettability for antifouling application. *Nanoscale*, **2019**, 11, 22636-22663	7.7	66
277	Multifunctional hollow superhydrophobic SiO microspheres with robust and self-cleaning and separation of oil/water emulsions properties. *Journal of Colloid and Interface Science*, **2017**, 494, 54-63	9.3	63
276	Mechanical stability, corrosion resistance of superhydrophobic steel and repairable durability of its slippery surface. *Journal of Colloid and Interface Science*, **2018**, 512, 239-248	9.3	62

275	Hybrid engineered materials with high water-collecting efficiency inspired by Namib Desert beetles. *Chemical Communications*, **2016**, 52, 6809-12	5.8	62
274	A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. *Separation and Purification Technology*, **2017**, 184, 72-78	8.3	61
273	Biomimetic superhydrophobic surfaces with transition metals and their oxides: A review. *Journal of Bionic Engineering*, **2017**, 14, 401-439	2.7	59
272	Electrochemical route to prepare polyaniline-coated meshes with controllable pore size for switchable emulsion separation. *Chemical Engineering Journal*, **2016**, 304, 115-120	14.7	59
271	Spontaneous directional transportations of water droplets on surfaces driven by gradient structures. *Nanoscale*, **2018**, 10, 13814-13831	7.7	58
270	Outmatching superhydrophobicity: bio-inspired re-entrant curvature for mighty superamphiphobicity in air. *Journal of Materials Chemistry A*, **2017**, 5, 14480-14507	13	57
269	An alternating nanoscale (hydrophilic–hydrophobic)/hydrophilic Janus cooperative copper mesh fabricated by a simple liquidus modification for efficient fog harvesting. *Journal of Materials Chemistry A*, **2019**, 7, 8405-8413	13	52
268	Insitu growth of durable superhydrophobic Mg–Al layered double hydroxides nanoplatelets on aluminum alloys for corrosion resistance. *Journal of Alloys and Compounds*, **2018**, 767, 382-391	5.7	51
267	The chitosan hydrogels: from structure to function. *New Journal of Chemistry*, **2018**, 42, 17162-17180	3.6	51
266	Underoil superhydrophilic surfaces: water adsorption in metal–organic frameworks. *Journal of Materials Chemistry A*, **2018**, 6, 1692-1699	13	50
265	Understanding how surface chemistry and topography enhance fog harvesting based on the superwetting surface with patterned hemispherical bulges. *Journal of Colloid and Interface Science*, **2018**, 525, 234-242	9.3	49
264	Lubricant-infused slippery surfaces: Facile fabrication, unique liquid repellence and antireflective properties. *Journal of Colloid and Interface Science*, **2019**, 536, 507-515	9.3	49
263	A simple route to transform normal hydrophilic cloth into a superhydrophobic–superhydrophilic hybrid surface. *Journal of Materials Chemistry A*, **2014**, 2, 7845-7852	13	48
262	Graphene oxide–iron complex: synthesis, characterization and visible-light-driven photocatalysis. *Journal of Materials Chemistry A*, **2013**, 1, 644-650	13	46
261	Bioinspired surfaces with wettability: biomolecule adhesion behaviors. *Biomaterials Science*, **2020**, 8, 1502-1535	7.4	45
260	Design of underwater superoleophobic TiO2 coatings with additional photo-induced self-cleaning properties by one-step route bio-inspired from fish scales. *Applied Physics Letters*, **2014**, 104, 183703	3.4	45
259	pH-responsive smart fabrics with controllable wettability in different surroundings. *RSC Advances*, **2014**, 4, 14684	3.7	45
258	Nonflammable superhydrophobic paper with biomimetic layered structure exhibiting boiling-water resistance and repairable properties for emulsion separation. *Journal of Materials Chemistry A*, **2018**, 6, 7042-7052	13	44

257	A robust transparent and anti-fingerprint superhydrophobic film. *Chemical Communications*, **2013**, 49, 7310-2	5.8	42
256	Dual superlyophobic surfaces with superhydrophobicity and underwater superoleophobicity. *Journal of Materials Chemistry A*, **2018**, 6, 11682-11687	13	42
255	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	14.4	41
254	An all-water-based system for robust superhydrophobic surfaces. *Journal of Colloid and Interface Science*, **2018**, 519, 130-136	9.3	38
253	Multifunctional superamphiphobic SiO2 coating for crude oil transportation. *Chemical Engineering Journal*, **2018**, 334, 1584-1593	14.7	38
252	A facile approach to achieve bioinspired PDMS@Fe3O4 fabric with switchable wettability for liquid transport and water collection. *Journal of Materials Chemistry A*, **2018**, 6, 22741-22748	13	38
251	Facile modification of NH2-MIL-125(Ti) to enhance water stability for efficient adsorptive removal of crystal violet from aqueous solution. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 541, 58-67	5.1	36
250	Green fabrication of coloured superhydrophobic paper from native cotton cellulose. *Journal of Colloid and Interface Science*, **2017**, 497, 284-289	9.3	35
249	Stable underwater superoleophobic conductive polymer coated meshes for high-efficiency oil–water separation. *RSC Advances*, **2015**, 5, 33077-33082	3.7	35
248	Sprayed hieratical biomimetic superhydrophilic-superhydrophobic surface for efficient fog harvesting. *Chemical Engineering Journal*, **2020**, 388, 124283	14.7	35
247	Durable superhydrophobic and underwater superoleophobic cotton fabrics growing zinc oxide nanoarrays for application in separation of heavy/light oil and water mixtures as need. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 559, 115-126	5.1	35
246	Superhydrophobic sand: a hope for desert water storage and transportation projects. *Journal of Materials Chemistry A*, **2017**, 5, 6416-6423	13	34
245	Why so strong for the lotus leaf?. *Applied Physics Letters*, **2008**, 93, 201909	3.4	34
244	Versatile superamphiphobic cotton fabrics fabricated by coating with SiO2/FOTS. *Applied Surface Science*, **2017**, 426, 271-278	6.7	33
243	Eco-friendly functionalized superhydrophobic recycled paper with enhanced flame-retardancy. *Journal of Colloid and Interface Science*, **2016**, 477, 74-82	9.3	33
242	Liquid infused surfaces with anti-icing properties. *Nanoscale*, **2019**, 11, 22615-22635	7.7	32
241	Effect of surface topography and wettability on the Leidenfrost effect. *Nanoscale*, **2017**, 9, 6219-6236	7.7	31
240	A scalable, self-healing and hot liquid repelling superamphiphobic spray coating with remarkable mechanochemical robustness for real-life applications. *Nanoscale*, **2019**, 11, 13853-13862	7.7	31

239	Iron impurities as the active sites for peroxidase-like catalytic reaction on graphene and its derivatives. *ACS Applied Materials & Interfaces*, **2015**, 7, 15403-13	9.5	31
238	Facile Fabrication of Multifunctional Hybrid Silk Fabrics with Controllable Surface Wettability and Laundering Durability. *ACS Applied Materials & Interfaces*, **2016**, 8, 5653-60	9.5	31
237	Durable Lubricant-Impregnated Surfaces for Water Collection under Extremely Severe Working Conditions. *ACS Applied Materials & Interfaces*, **2019**, 11, 35949-35958	9.5	31
236	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. *Nanoscale*, **2019**, 11, 8870-8881	7.7	30
235	Robust superhydrophobic tungsten oxide coatings with photochromism and UV durability properties. *Applied Surface Science*, **2016**, 387, 412-418	6.7	30
234	Creation of a multifunctional superhydrophobic coating for composite insulators. *Chemical Engineering Journal*, **2018**, 352, 774-781	14.7	30
233	Fabrications and Applications of Slippery Liquid-infused Porous Surfaces Inspired from Nature: A Review. *Journal of Bionic Engineering*, **2019**, 16, 769-793	2.7	30
232	Bioinspired silica-based superhydrophobic materials. *Applied Surface Science*, **2017**, 426, 1-18	6.7	30
231	Thermo-responsive hollow silica microgels with controlled drug release properties. *Colloids and Surfaces B: Biointerfaces*, **2013**, 111, 7-14	6	30
230	Modifier-free fabrication of durable and multifunctional superhydrophobic paper with thermostability and anti-microbial property. *Chemical Engineering Journal*, **2018**, 346, 94-103	14.7	29
229	Bio-inspired encapsulation and functionalization of living cells with artificial shells. *Colloids and Surfaces B: Biointerfaces*, **2014**, 113, 483-500	6	29
228	Fabrication of functional superhydrophobic engineering materials via an extremely rapid and simple route. *Chemical Communications*, **2015**, 51, 6493-5	5.8	29
227	Comparison of the enhanced gas sensing properties of tin dioxide samples doped with different catalytic transition elements. *Journal of Colloid and Interface Science*, **2015**, 448, 265-74	9.3	28
226	Well-dispersed PEDOT:PSS/graphene nanocomposites synthesized by in situ polymerization as counter electrodes for dye-sensitized solar cells. *Journal of Materials Science*, **2015**, 50, 2148-2157	4.3	28
225	Engineering NiO sensitive materials and its ultra-selective detection of benzaldehyde. *Journal of Colloid and Interface Science*, **2016**, 467, 192-202	9.3	27
224	Robust and self-repairing superamphiphobic coating from all-water-based spray. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 553, 645-651	5.1	27
223	Graphene and its derivative composite materials with special wettability: Potential application in oil-water separation. *Carbon*, **2021**, 172, 647-681	10.4	27
222	The wettability of gas bubbles: from macro behavior to nano structures to applications. *Nanoscale*, **2018**, 10, 19659-19672	7.7	27

221	Triple-network hydrogels with high strength, low friction and self-healing by chemical-physical crosslinking. *Journal of Colloid and Interface Science*, **2019**, 556, 549-556	9.3	26
220	Hierarchical fibers for water collection inspired by spider silk. *Nanoscale*, **2019**, 11, 15448-15463	7.7	26
219	Efficient Fog Harvesting Based on 1D Copper Wire Inspired by the Plant Pitaya. *Langmuir*, **2018**, 34, 15259-15267	4	26
218	Bio-inspired one-pot route to prepare robust and repairable micro-nanoscale superhydrophobic coatings. *Journal of Colloid and Interface Science*, **2017**, 498, 182-193	9.3	25
217	A facile method to mussel-inspired superhydrophobic thiol-textiles@polydopamine for oil/water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 554, 253-260	5.1	25
216	Facile Fabrication of Superhydrophobic and Underwater Superoleophobic Coatings. *ACS Applied Nano Materials*, **2018**, 1, 4894-4899	5.6	25
215	A highly fluorinated SiO particle assembled, durable superhydrophobic and superoleophobic coating for both hard and soft materials. *Nanoscale*, **2019**, 11, 18338-18346	7.7	25
214	Biomimetic self-slippery and transferable transparent lubricant-infused functional surfaces. *Nanoscale*, **2018**, 10, 19879-19889	7.7	25
213	Biomimetic superwettable materials with structural colours. *Chemical Communications*, **2017**, 53, 12990-13011	5.8	24
212	On-Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. *Advanced Science*, **2019**, 6, 1802033	13.6	24
211	Design and understanding of a high-performance gas sensing material based on copper oxide nanowires exfoliated from a copper mesh substrate. *Journal of Materials Chemistry A*, **2015**, 3, 20477-20481	13	24
210	A facile and effective method to improve the dispersibility of WS2 nanosheets in PAO8 for the tribological performances. *Tribology International*, **2018**, 118, 60-70	4.9	24
209	Novel fabrication of polymer/carbon nanotube composite coated Janus paper for humidity stress sensor. *Journal of Colloid and Interface Science*, **2018**, 532, 517-526	9.3	24
208	Characterization of Micro-Morphology and Wettability of Lotus Leaf, Waterlily Leaf and Biomimetic ZnO Surface. *Journal of Bionic Engineering*, **2015**, 12, 88-97	2.7	24
207	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	9.3	24
206	Review on the recent development of durable superhydrophobic materials for practical applications. *Nanoscale*, **2021**, 13, 11734-11764	7.7	24
205	Organic Media Superwettability: On-Demand Liquid Separation by Controlling Surface Chemistry. *ACS Applied Materials & Interfaces*, **2018**, 10, 37634-37642	9.5	24
204	pH-Manipulated Underwater-Oil Adhesion Wettability Behavior on the Micro/Nanoscale Semicircular Structure and Related Thermodynamic Analysis. *ACS Applied Materials & Interfaces* , **2015**, 7, 10641-9	9.5	23

203	Tomato-lotus inspired edible superhydrophobic artificial lotus leaf. *Chemical Engineering Journal*, **2020**, 400, 125883	14.7	23
202	A Superhydrophobic Copper Mesh with Microrod Structure for Oil–Water Separation Inspired from Ramee Leaf. *Chemistry Letters*, **2014**, 43, 1645-1647	1.7	23
201	Conductive and transparent superhydrophobic films on various substrates by in situ deposition. *Applied Physics Letters*, **2013**, 102, 203703	3.4	23
200	Multibioinspired Janus membranes with superwettable performance for unidirectional transportation and fog collection. *Chemical Engineering Journal*, **2021**, 404, 126515	14.7	23
199	Ag nanoparticles loading of polypyrrole-coated superwetting mesh for on-demand separation of oil-water mixtures and catalytic reduction of aromatic dyes. *Journal of Colloid and Interface Science*, **2018**, 527, 187-194	9.3	23
198	A hybrid bioinspired fiber trichome with special wettability for water collection, friction reduction and self-cleaning. *Nanoscale*, **2019**, 11, 11774-11781	7.7	22
197	How does substrate roughness affect the service life of a superhydrophobic coating?. *Applied Surface Science*, **2018**, 441, 491-499	6.7	22
196	Superhydrophobic surfaces based on polypyrrole with corrosion resistance and the separation of oil/water mixture properties. *RSC Advances*, **2015**, 5, 107880-107888	3.7	22
195	Programming Multiphase Media Superwetting States in the Oil-Water-Air System: Evolutions in Hydrophobic-Hydrophilic Surface Heterogeneous Chemistry. *Advanced Materials*, **2020**, 32, e2004875	24	22
194	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	14.7	22
193	Simple fabrication of a multifunctional inorganic paper with high efficiency separations for both liquids and particles. *Journal of Materials Chemistry A*, **2018**, 6, 21524-21531	13	22
192	A fog-collecting surface mimicking the Namib beetle: its water collection efficiency and influencing factors. *Nanoscale*, **2020**, 12, 6921-6936	7.7	21
191	Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. *Chemical Communications*, **2019**, 55, 10820-10843	5.8	21
190	Computational investigation of the lubrication behaviors of dioxides and disulfides of molybdenum and tungsten in vacuum. *Friction*, **2017**, 5, 23-31	5.6	20
189	Facile synthesis of superhydrophobic three-metal-component layered double hydroxide films on aluminum foils for highly improved corrosion inhibition. *New Journal of Chemistry*, **2019**, 43, 2289-2298	3.6	20
188	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. *Langmuir*, **2020**, 36, 6801-6810	4	20
187	Robust silicon dioxide @ epoxy resin micronanosheet superhydrophobic omnipotent protective coating for applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 550, 9-19	5.1	20
186	Stable Janus superhydrophilic/hydrophobic nickel foam for directional water transport. *Journal of Colloid and Interface Science*, **2018**, 509, 346-352	9.3	20

185	Tuning SnO2 architectures with unitary or composite microstructure for the application of gas sensors. *Journal of Colloid and Interface Science*, **2016**, 462, 140-7	9.3	19
184	Surface topographies of biomimetic superamphiphobic materials: design criteria, fabrication and performance. *Advances in Colloid and Interface Science*, **2019**, 269, 87-121	14.3	19
183	Facile fabrication of ultraviolet light cured fluorinated polymer layer for smart superhydrophobic surface with excellent durability and flame retardancy. *Journal of Colloid and Interface Science*, **2019**, 547, 153-161	9.3	19
182	Anisotropic wetting properties on various shape of parallel grooved microstructure. *Journal of Colloid and Interface Science*, **2015**, 453, 142-150	9.3	19
181	Drop/bubble transportation and controllable manipulation on patterned slippery lubricant infused surfaces with tunable wettability. *Soft Matter*, **2019**, 15, 6803-6810	3.6	19
180	Robust Mg(OH)2/epoxy resin superhydrophobic coating applied to composite insulators. *Applied Surface Science*, **2019**, 466, 126-132	6.7	19
179	An easy preparation of photo-response TiO2@copper wire mesh with quick on/off switchable superwetting for high efficiency oil□water separation. *New Journal of Chemistry*, **2018**, 42, 17563-17573	3.6	19
178	A facile coating with water-repellent and flame-retardant properties on cotton fabric. *New Journal of Chemistry*, **2019**, 43, 10183-10189	3.6	18
177	Flexible 3D porous superhydrophobic composites for oil-water separation and organic solvent detection. *Materials and Design*, **2020**, 196, 109144	8.1	18
176	Bubble shapes and their changes on slippery surfaces during directional transportation. *Journal of Colloid and Interface Science*, **2019**, 552, 84-90	9.3	17
175	Preparation and performance testing of superhydrophobic flame retardant cotton fabric. *New Journal of Chemistry*, **2019**, 43, 5839-5848	3.6	17
174	Controllable preparation of multiple superantiwetting surfaces: From dual to quadruple superlyophobicity. *Chemical Engineering Journal*, **2019**, 369, 463-469	14.7	17
173	Optimal design of superhydrophobic surfaces using a paraboloid microtexture. *Journal of Colloid and Interface Science*, **2014**, 436, 19-28	9.3	17
172	Robust, heat-resistant and multifunctional superhydrophobic coating of carbon microflowers with molybdenum trioxide nanoparticles. *Journal of Colloid and Interface Science*, **2017**, 506, 649-658	9.3	17
171	Fabrication of Co(3)O(4) hierarchically superhydrophobic boat-like hollow cages at the silicon surface. *Nanotechnology*, **2008**, 19, 445608	3.4	17
170	A comparison between superhydrophobic surfaces (SHS) and slippery liquid-infused porous surfaces (SLIPS) in application. *Nanoscale*, **2020**, 12, 22398-22424	7.7	17
169	Facile fabrication of superhydrophobic filter paper with high water adhesion. *Materials Letters*, **2019**, 236, 732-735	3.3	17
168	Bioinspired fish-scale-like stainless steel surfaces with robust underwater anti-crude-oil-fouling and self-cleaning properties. *Separation and Purification Technology*, **2018**, 202, 111-118	8.3	16

167	Transparent and Superhydrophobic Co3O4 Microfiber Films. *Chemistry Letters*, **2014**, 43, 100-101	1.7	16
166	Low cost and non-fluoride flowerlike superhydrophobic particles fabricated for both emulsions separation and dyes adsorption. *Journal of Colloid and Interface Science*, **2017**, 507, 421-428	9.3	16
165	Underwater manipulation of oil droplets and bubbles on superhydrophobic surfaces via switchable adhesion. *Chemical Communications*, **2019**, 55, 3394-3397	5.8	16
164	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	3.6	16
163	Superhydrophobic sand grains structured with aligned Cu(OH)2 nano-needles for efficient oily water treatment. *Materials and Design*, **2017**, 135, 377-384	8.1	15
162	Superomniphobic Silk Fibroin/Ag Nanowires Membrane for Flexible and Transparent Electronic Sensor. *ACS Applied Materials & Interfaces*, **2020**, 12, 10039-10049	9.5	15
161	Characteristics of binary WO@CuO and ternary WO@PDA@CuO based on impressive sensing acetone odor. *Journal of Colloid and Interface Science*, **2018**, 524, 32-41	9.3	15
160	Water deteriorates lubricating oils: removal of water in lubricating oils using a robust superhydrophobic membrane. *Nanoscale*, **2020**, 12, 11703-11710	7.7	15
159	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. *Journal of Colloid and Interface Science*, **2020**, 560, 777-786	9.3	15
158	Hybrid Hydrophilic-Hydrophobic CuO@TiO-Coated Copper Mesh for Efficient Water Harvesting. *Langmuir*, **2020**, 36, 64-73	4	15
157	Bioinspired surfaces with special micro-structures and wettability for drag reduction: which surface design will be a better choice?. *Nanoscale*, **2021**, 13, 3463-3482	7.7	15
156	Asymmetric superwetting stainless steel meshes for on-demand and highly effective oil-water emulsion separation. *Separation and Purification Technology*, **2021**, 273, 118994	8.3	15
155	Energy-effective superhydrophobic nanocoating based on recycled eggshell. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 568, 20-28	5.1	14
154	Robust Superhydrophobic Composite Featuring Three-Dimensional Porous Metal Rubber with an Embedded Carbon Nanofiber Network for Emulsion Separation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6172-6182	3.9	14
153	Bio-inspired writable multifunctional recycled paper with outer and inner uniform superhydrophobicity. *RSC Advances*, **2016**, 6, 30776-30784	3.7	14
152	Robust Superhydrophobic Zinc Oxide Film. *Chemistry Letters*, **2014**, 43, 305-306	1.7	14
151	Bioinspired Edible Lubricant-Infused Surface with Liquid Residue Reduction Properties. *Research*, **2019**, 2019, 1649427	7.8	14
150	Wear-resistant and robust superamphiphobic coatings with hierarchical TiO2/SiO2 composite particles and inorganic adhesives. *New Journal of Chemistry*, **2020**, 44, 1194-1203	3.6	14

149	Kevlar fiber-reinforced multifunctional superhydrophobic paper for oil–water separation and liquid transportation. *New Journal of Chemistry*, **2019**, 43, 15453-15461	3.6	13
148	Biomimetic high-intensity superhydrophobic metal rubber with anti-corrosion property for industrial oil–water separation. *New Journal of Chemistry*, **2019**, 43, 1894-1899	3.6	13
147	Insitu growth of ZIF-8 on CoAl layered double hydroxide/carbon fiber composites for highly efficient absorptive removal of hexavalent chromium from aqueous solutions. *Applied Clay Science*, **2019**, 175, 115-123	5.2	13
146	Diving-floating locomotion induced by capturing and manipulating bubbles in an aqueous environment. *Chemical Communications*, **2018**, 54, 11713-11716	5.8	13
145	Micromechanics of Lotus Fibers. *Chemistry Letters*, **2014**, 43, 1137-1139	1.7	13
144	Superwetting meshes with grass-like structures in the pores for highly efficient separation of oil-in-water emulsion. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 529, 1030-1036	5.1	13
143	An ionic liquid-infused slippery surface for temperature stability, shear resistance and corrosion resistance. *Journal of Materials Chemistry A*, **2020**, 8, 24075-24085	13	13
142	. *Bio-Design and Manufacturing*, **2021**, 4, 506-525	4.7	13
141	Water super-repellent behavior of semicircular micro/nanostructured surfaces. *Nanoscale*, **2019**, 11, 3725-3732	7.7	12
140	An all superantiwetting surface in water–oil–air systems. *Journal of Materials Chemistry A*, **2019**, 7, 6957-6962	12	12
139	Well Dispersive TiO2 Nanoparticles as Additives for Improving the Tribological Performance of Polyalphaolefin Gel Lubricant. *Industrial & Engineering Chemistry Research*, **2018**, 57, 10379-10390	3.9	12
138	Self-assembly and tribological properties of a novel organic–inorganic nanocomposite film on silicon using polydopamine as the adhesion layer. *RSC Advances*, **2014**, 4, 948-953	3.7	12
137	Reed leaf-inspired anisotropic slippery lubricant-infused surface for water collection and bubble transportation. *Chemical Engineering Journal*, **2021**, 411, 128495	14.7	12
136	Superhydrophobic Plant Leaves: The Variation in Surface Morphologies and Wettability during the Vegetation Period. *Langmuir*, **2019**, 35, 1047-1053	4	12
135	Superhydrophobic Plant Leaves with Micro-line Structures: An Optimal Biomimetic Objective in Bionic Engineering. *Journal of Bionic Engineering*, **2018**, 15, 851-858	2.7	12
134	A study on the manufacture of Kevlar membrane modified by inorganic nanoparticles with universal applicability in separating diffident types of emulsions. *Journal of Membrane Science*, **2018**, 563, 326-335	9.6	12
133	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. *Journal of Materials Science*, **2015**, 50, 4412-4421	4.3	11
132	A Facile Modifier-free Approach to Fabricate Antistatic Superhydrophobic Composite Coatings with Remarkable Thermal Stability and Corrosion Resistance. *Journal of Bionic Engineering*, **2020**, 17, 421-435	2.7	11

131	Biomimetic photonic structures with tunable structural colours: From natural to biomimetic to applications. *Journal of Bionic Engineering*, **2018**, 15, 1-33	2.7	11
130	A facile approach to transform stainless steel mesh into pH-responsive smart material. *RSC Advances*, **2015**, 5, 13635-13642	3.7	11
129	Formation mechanism of robust silver nanoparticle film with superhydrophobicity. *Applied Physics Letters*, **2010**, 97, 243701	3.4	11
128	Electricity-driven wettability with a low threshold voltage. *Applied Physics Letters*, **2011**, 99, 082106	3.4	11
127	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	4	11
126	Bio-inspired design of a transparent TiO2/SiO2 composite gel coating with adjustable wettability. *Journal of Materials Science*, **2016**, 51, 7545-7553	4.3	11
125	A dual underliquid superlyophobic surface in organic media for on-demand separation of immiscible organic liquid mixtures. *Chemical Communications*, **2019**, 55, 13876-13879	5.8	11
124	Robust and muti-repaired superhydrophobic surfaces via one-step method on copper and aluminum alloys. *Materials Letters*, **2018**, 213, 290-293	3.3	11
123	Robust superhydrophobic and self-lubricating PTES-TiO2@UHMWPE fabric and its tribological properties. *RSC Advances*, **2017**, 7, 9169-9175	3.7	10
122	One-step fabrication of thermal resistant, corrosion resistant metal rubber for oil/water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 573, 157-164	5.1	10
121	Significant advantages of low-oxygen graphene nanosheets. *Journal of Materials Chemistry A*, **2015**, 3, 9738-9744	13	10
120	Superhydrophobic materials used for anti-icing Theory, application, and development. *IScience*, **2021**, 24, 103357	6.1	10
119	Wetting characterizations of oilseed rapes. *Journal of Bionic Engineering*, **2016**, 13, 213-219	2.7	10
118	Near-bulge oil meniscus-induced migration and condensation of droplets for water collection: Energy saving, generalization and recyclability. *Chemical Engineering Journal*, **2021**, 417, 129215	14.7	10
117	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. *Nano Today*, **2021**, 40, 101283	17.9	10
116	A CVD-Assisted Modification Approach for Preparing a Dual Superlyophobic Fabric with In-Air Superhydrophobicity and Underwater Superoleophobicity. *Langmuir*, **2020**, 36, 5802-5808	4	9
115	New insights into unusual droplets: from mediating the wettability to manipulating the locomotion modes. *Chemical Communications*, **2020**, 56, 14757-14788	5.8	9
114	Bio-inspired Fog Harvesting Materials: Basic Research and Bionic Potential Applications. *Journal of Bionic Engineering*, **2021**, 18, 501-533	2.7	9

113	Facile preparation of a superamphiphilic nitrocellulose membrane enabling on-demand and energy-efficient separation of oil/water mixtures and emulsions by prewetting. *Biomaterials Science*, **2021**, 9, 5559-5568	7.4	9
112	WO-based slippery coatings with long-term stability for efficient fog harvesting. *Journal of Colloid and Interface Science*, **2021**, 591, 418-428	9.3	8
111	Effective sugar-derived organic gelator for three different types of lubricant oils to improve tribological performance. *Friction*, **2020**, 8, 1025-1038	5.6	8
110	A robust and repairable copper-based superhydrophobic microfiltration membrane for high-efficiency water-in-oil emulsion separation. *Separation and Purification Technology*, **2021**, 256, 117751	8.2	8
109	Durable mixed edible wax coating with stretching superhydrophobicity. *Journal of Materials Chemistry A*, **2021**, 9, 1495-1499	13	8
108	Adhesion behaviors on four special wettable surfaces: natural sources, mechanisms, fabrications and applications. *Soft Matter*, **2021**, 17, 4895-4928	3.6	8
107	A robust surface with superhydrophobicity and underwater superoleophobicity for on-demand oil/water separation. *Nanoscale*, **2021**, 13, 15334-15342	7.7	8
106	Biomimetic multi-functional superhydrophobic stainless steel and copper meshes for water environment applications. *New Journal of Chemistry*, **2018**, 42, 17625-17635	3.6	8
105	A combined structural and wettability gradient surface for directional droplet transport and efficient fog collection. *Journal of Colloid and Interface Science*, **2021**, 604, 526-536	9.3	8
104	Fabrication of durable self-repairing superhydrophobic fabrics via a fluorinate-free waterborne biomimetic silicification strategy. *New Journal of Chemistry*, **2019**, 43, 5032-5038	3.6	7
103	Mechanically durable and long-term repairable flexible lubricant-infused monomer for enhancing water collection efficiency by manipulating droplet coalescence and sliding. *Nanoscale Advances*, **2020**, 2, 1473-1482	5.1	7
102	Robust Superhydrophobic Membrane for Solving Water-Accelerated Fatigue of ZDDP-Containing Lubricating Oils. *Langmuir*, **2020**, 36, 8560-8569	4	7
101	Biomimetic fog collection and its influencing factors. *New Journal of Chemistry*, **2020**, 44, 20495-20519	3.6	7
100	Bioinspired materials for water-harvesting: focusing on microstructure designs and the improvement of sustainability. *Materials Advances*, **2020**, 1, 2592-2613	3.3	7
99	Robust multi-functional slippery surface with hollow ZnO nanotube structures. *New Journal of Chemistry*, **2020**, 44, 15483-15491	3.6	7
98	Biomimetic Janus Paper with Controllable Swelling for Shape Memory and Energy Conversion. *Journal of Bionic Engineering*, **2019**, 16, 1-12	2.7	7
97	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	13	7
96	Anti-solvent spin-coating for improving morphology of lead-free (CH3NH3)3Bi2I9 perovskite films. *SN Applied Sciences*, **2019**, 1, 1	1.8	6

95	Tribological Properties of Molybdenum Disulfide and Helical Carbon Nanotube Modified Epoxy Resin. *Materials*, **2019**, 12,	3.5	6
94	A Facile Fabrication for Amphiphobic Aluminum Surface. *Chemistry Letters*, **2015**, 44, 324-326	1.7	6
93	Patterned Slippery Surface for Bubble Directional Transportation and Collection Fabricated via a Facile Method. *Research*, **2019**, 2019, 9139535	7.8	6
92	A paper-making transformation: from cellulose-based superwetting paper to biomimetic multifunctional inorganic paper. *Journal of Materials Chemistry A*, **2020**, 8, 20238-20259	13	6
91	Janus Membranes with Asymmetric Wettability Applied in Oil/Water Emulsion Separations. *Advanced Sustainable Systems*, **2021**, 5, 2000253	5.9	6
90	Hybrid MWCNTs membrane with well-tunable wettability. *Journal of Colloid and Interface Science*, **2016**, 484, 173-182	9.3	6
89	Bionic boron/silicon-modified phenolic resin system with multifunctional groups: synthesis, thermal properties and ablation mechanism. *Biosurface and Biotribology*, **2018**, 4, 85-93	1	6
88	Optimal design of superhydrophobic surfaces using a semicircular protrusion microtexture. *RSC Advances*, **2015**, 5, 8446-8454	3.7	5
87	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	3.6	5
86	pH-Responsive Wettable Fabrics with Hierarchical Structures. *Chemistry Letters*, **2014**, 43, 553-555	1.7	5
85	Overview of the development of slippery surfaces: Lubricants from presence to absence.. *Advances in Colloid and Interface Science*, **2022**, 301, 102602	14.3	5
84	Anisotropic Janus materials: from micro-/nanostructures to applications. *Nanoscale*, **2021**, 13, 18839-18864	7.7	5
83	The Tribological Property and Microstructure of Ni-Ti Coating Prepared by Electrodeposition and Heat Treatment. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-6	1.5	5
82	Cellulose acetate/fiber paper composite membrane for separation of an oil-in-water emulsion. *New Journal of Chemistry*, **2021**, 45, 12351-12355	3.6	5
81	Different post-treatment processes and different gas sensing behaviors of hierarchical hollow tungsten trioxide shell. *Materials Letters*, **2017**, 203, 93-96	3.3	4
80	Multifunctional WS2&M-AgNPs superhydrophobic conductive sponges for application in various sensors. *New Journal of Chemistry*, **2019**, 43, 5287-5296	3.6	4
79	Mechano-adjusted anisotropic surface for manipulating water droplets. *Chemical Engineering Journal*, **2020**, 395, 125110	14.7	4
78	A Novel Method to Fabricate Nitrogen and Oxygen Co-Doped Flexible Cotton-Based Electrode for Wearable Supercapacitors. *ChemElectroChem*, **2019**, 6, 4049-4058	4.3	4

77	Multifuctional Janus Materials for Rapid One-Way Water Transportation and Fog Collection. *Langmuir*, **2021**, 37, 13778-13786	4	4
76	Fog collection behavior of bionic surface and large fog collector: A review.. *Advances in Colloid and Interface Science*, **2021**, 300, 102583	14.3	4
75	Facile preparation of a superamphiphobic fabric coating with hierarchical TiO2 particles. *New Journal of Chemistry*, **2020**, 44, 19192-19200	3.6	4
74	Bionic smart recycled paper endowed with amphiphobic, photochromic, and UV rewritable properties. *Nanoscale Advances*, **2020**, 2, 4813-4821	5.1	4
73	Polysulfide microspheres with chemical modification for generation of interfaces with macroscopic colour variation and biomimetic superhydrophobicity. *Nanoscale Advances*, **2019**, 1, 281-290	5.1	4
72	Self-Organization of Amorphous Carbon Nanocapsules into Diamond Nanocrystals Driven by Self-Nanoscopic Excessive Pressure under Moderate Electron Irradiation without External Heating. *Small*, **2018**, 14, 1702072	11	4
71	External-field-induced directional droplet transport: A review. *Advances in Colloid and Interface Science*, **2021**, 295, 102502	14.3	4
70	PES asymmetric membrane for oil-in-water emulsion separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 626, 127096	5.1	4
69	Directional Penetration of Underwater Bubbles on Janus Surfaces. *Chemistry Letters*, **2019**, 48, 1254-1257	1.7	3
68	**2017**,		3
67	Theoretical investigation of atomic oxygen erosion mechanisms of 1,3-didecyl cyclopentane, 1,3-dioctyldodecyl cyclopentane and alkylated cyclopentane. *RSC Advances*, **2014**, 4, 50486-50493	3.7	3
66	Robust superhydrophobic polyurea@cellulose nanocrystal coating. *New Journal of Chemistry*, **2020**, 44, 11739-11745	3.6	3
65	Artificial Leaf for Switchable Droplet Manipulation. *Langmuir*, **2021**, 37, 5745-5752	4	3
64	A solvent-responsive robust superwetting titanium dioxide-based metal rubber for oil-water separation and dye degradation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 614, 126179	5.1	3
63	Water droplet transport on a nylon mesh with graded structures by facile PMMA spraying and etching process inspired by spider silk. *Materials Letters*, **2021**, 291, 129546	3.3	3
62	Substrate-free water film for liquid directional transportation. *Chemical Engineering Journal*, **2021**, 411, 128464	14.7	3
61	Stable and Durable Conductive Superhydrophobic Coatings Prepared by Double-Layer Spray Coating Method. *Nanomaterials*, **2021**, 11,	5.4	3
60	Underwater Superoleophobic Crucian Fish Scale: Influence of Ontogeny on Surface Morphologies and Wettability. *Journal of Bionic Engineering*, **2019**, 16, 1061-1067	2.7	3

59	Elastic Lubricious Effect of Solidlike Boundary Films in Oil-Starvation Lubrication. *Journal of Physical Chemistry C*, **2019**, 123, 1677-1691	3.8	3
58	A study of synthesizing stable super-slip carbon nanotubes by grafting octadecylamine. *Journal of Colloid and Interface Science*, **2019**, 540, 126-133	9.3	3
57	Fabrication of bioinspired edible liquid marble with phase transition and tunable water barrier property. *Bio-Design and Manufacturing*, **2021**, 4, 1-13	4.7	3
56	Multi-layer superhydrophobic nickel foam (NF) composite for highly efficient water-in-oil emulsion separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 628, 127299	5.1	3
55	The intrigue of directional water collection interface: mechanisms and strategies. *Journal of Materials Chemistry A*,	13	3
54	Design of a Venation-like Patterned Surface with Hybrid Wettability for Highly Efficient Fog Harvesting.. *Nano Letters*, **2022**,	11.5	3
53	Icephobic/anti-icing properties of superhydrophobic surfaces.. *Advances in Colloid and Interface Science*, **2022**, 304, 102658	14.3	3
52	A different wettable Janus material with universal floatability for anti-turnover and lossless transportation of crude oil. *New Journal of Chemistry*, **2019**, 43, 15213-15221	3.6	2
51	A superamphiphobic surface with a hydrogen peroxide-triggered switch to antithetic fluid repellence in a liquid-liquid-air three-phase fluid system. *Chemical Communications*, **2020**, 56, 4312-4315	5.8	2
50	Superhydrophobic Surfaces from Nature and Beyond Nature **2018**, 25-57		2
49	Nanoparticles: Bioinspired Superhydrophobic Fe3O4@Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill (Adv. Mater. Interfaces 13/2015). *Advanced Materials Interfaces*, **2015**, 2,	4.6	2
48	The gorgeous transformation of paper: from cellulose paper to inorganic paper to 2D paper materials with multifunctional properties. *Journal of Materials Chemistry A*,	13	2
47	Anti-greasy and conductive superamphiphobic coating applied to the carbon brushes/conductive rings of hydro-generators.. *RSC Advances*, **2021**, 11, 12381-12391	3.7	2
46	Simple preparation of a durable and low-cost load-bearing three-dimensional porous material for emulsion separation. *New Journal of Chemistry*,	3.6	2
45	pH-Responsive Superwetting Fabric for On-demand Oil-Water Separation. *Chemistry Letters*, **2018**, 47, 923-926	1.7	2
44	Lubricant-Infused Three-Dimensional Frame Composed of a Micro/Nanospinous Ball Cluster Structure with Salient Durability and Superior Fog Harvesting Capacity. *ACS Applied Materials & Interfaces*, **2021**, 13, 46192-46201	9.5	2
43	Superamphiphilic stainless steel mesh for oil/water emulsion separation on-demand. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 630, 127574	5.1	2
42	Natural polysaccharide-based aerogels and their applications in oil–water separations: a review. *Journal of Materials Chemistry A*,	13	2

41	Recent Advances in the Fabrication of Superhydrophobic Surfaces. *Chemistry Letters*, **2017**, 46, 152-152	1.7	1
40	Fine Switching between Underwater Superoleophilicity and Underwater Superoleophobicity while Maintaining Superhydrophobicity. *Langmuir*, **2020**, 36, 3300-3307	4	1
39	Introduction for Biomimetic Superhydrophobic Materials **2018**, 1-24		1
38	Controlled Growth of Tungsten Oxide Films by Hydrothermal Synthesis for Underwater Superoleophobicity Regulation. *Chemistry Letters*, **2016**, 45, 146-148	1.7	1
37	Characterizing a lubricant additive for 1,3,4-tri-(2-octyldodecyl) cyclopentane: Computational study and experimental verification. *Friction*, **2016**, 4, 257-265	5.6	1
36	A Tunable Superwetting Copper Film between Superhydrophobicity and Superhydrophilicity. *Chemistry Letters*, **2015**, 44, 1527-1529	1.7	1
35	Recent advances in biomimetic surfaces inspired by creatures for fog harvesting. *New Journal of Chemistry*, **2021**, 45, 21125-21150	3.6	1
34	A Hybrid Stainless-steel Mesh with Nano-array Structure Applied for Efficient Fog Harvesting by Tuning Wetting. *Chemistry Letters*, **2020**, 49, 79-82	1.7	1
33	The fabrication of hierarchically porous carbon-coated nickel oxide nanomaterials with enhanced electrochemical properties. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 20641-20653	2.1	1
32	How to Efficiently Prepare Transparent Lubricant-Infused Surfaces: Inspired by Candle Soot. *Langmuir*, **2021**, 37, 4869-4878	4	1
31	Fabrication of switchable surface wettability with UV-triggered on cotton fabric. *Materials Letters*, **2021**, 283, 128767	3.3	1
30	Bioinspired textile with dual-stimuli responsive wettability for body moisture management and signal expression. *New Journal of Chemistry*, **2021**, 45, 12193-12202	3.6	1
29	Superamphiphobic coatings with antifouling and nonflammable properties using functionalized hydroxyapatite. *New Journal of Chemistry*, **2021**, 45, 6238-6246	3.6	1
28	Lubricant self-replenishing slippery surface with prolonged service life for fog harvesting. *Friction*,1	5.6	1
27	Stable and biocompatible slippery lubricant-infused anode-oxidated titanium nanotube surfaces via a grafted polydimethylsiloxane brush. *New Journal of Chemistry*, **2021**, 45, 17493-17502	3.6	1
26	One-Step Methods to Fabricate Durable Superhydrophobic Coatings for Flexible Electronic Sensors. *Coatings*, **2021**, 11, 95	2.9	1
25	Superhydrophobic Carbon Nanotube/Metal Rubber Composites for Emulsion Separation. *ACS Applied Nano Materials*, **2021**, 4, 13643-13654	5.6	1
24	Special Wettability Materials Inspired by Multiorganisms for Fog Collection. *Advanced Materials Interfaces*,2102484	4.6	1

23	Integration of bubble phobicity, gas sensing and friction alleviation into a versatile MoS/SnO/CNF heterostructure by an impressive, simple and effective method. *Nanoscale*, **2020**, 12, 18629-18639	7.7	0
22	What are the Progresses and Challenges, from the Electrical Properties of Current-Carrying Friction System to Tribological Performance, for a Stable Current-Carrying Interface?. *Journal of Bio- and Tribo-Corrosion*, **2022**, 8, 1	2.9	0
21	Functionalized paper with intelligent response to humidity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 127844	5.1	0
20	Tribological performance of ionic liquid-lubricated carbon brush/collector ring current-carrying friction system. *Biosurface and Biotribology*, **2020**, 6, 104-113	1	0
19	Enhanced Performance and Stability of Carbon Counter Electrode-Based MAPbI3 Perovskite Solar Cells with p-Methylphenylamine Iodate Additives. *ACS Applied Energy Materials*, **2021**, 4, 11314-11324	6.1	0
18	A robust copper oxide-based superhydrophobic microfiltration membrane for moisture-proof treatment of trace water in transformer oil. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 625, 126843	5.1	0
17	Simple Method for the Fabrication of Multiple Superwetting Surfaces with Photoresponse. *Langmuir*, **2021**, 37, 11115-11122	4	0
16	A special underoil superhydrophilic (UOSHL) membrane: Growing of copper phosphate (Cu3(PO4)2) nanosheet to achieve self-cleaning and efficient oil-water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 645, 128904	5.1	0
15	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	2.7	0
14	Hydrophobic and tribological behaviors of a poly(p-phenylene benzobisoxazole) fabric composite reinforced with nano-TiO2. *Journal of Applied Polymer Science*, **2017**, 134, 45077	2.9	
13	Biomimetic Superhydrophobic Materials Applied for Oil/Water Separation (II) **2018**, 249-271		
12	Advances in the Theory of Superhydrophobic Surfaces and Interfaces **2018**, 59-84		
11	Fabrications of Noncoated Superhydrophobic Surfaces and Interfaces **2018**, 85-115		
10	Biomimetic Superhydrophobic Nanocoatings: From Materials to Fabrications and to Applications **2018**, 117-160		
9	Adhesion Behaviors on Superhydrophobic Surfaces and Interfaces **2018**, 161-189		
8	Smart Biomimetic Superhydrophobic Materials with Switchable Wettability **2018**, 191-227		
7	Biomimetic Superhydrophobic Materials Applied for Oil/Water Separation (I) **2018**, 229-247		
6	Biomimetic Superhydrophobic Materials Applied for Anti-icing/Frosting **2018**, 273-371		

5	Robust moisture-proof coating applied to the protection and storage of bulk metal glass transformer core in mine-environment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 635, 128049	5.1
4	Site-specific Positioning of MoS2 on Fabric Weaves by Post Treatment or In-situ Method for Hydrophobic Stability and Photoluminescence Enhancement. *Chemistry Letters*, **2020**, 49, 1376-1378	1.7
3	Preparation of an electrically conductive, flame-retardant, and superhydrophobic recycled paper. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 642, 128671	5.1
2	Endowment of high buoyancy and antifouling properties upon a simple superamphiphobic cotton fabric. *Materials Advances*,	3.3
1	Mucilage-inspired robust antifouling coatings under liquid mediums. *Chemical Engineering Journal*, **2022**, 136949	14.7