

Bioinspired self-repairing slippery surfaces with pressure

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Citation Report

#	ARTICLE	IF	CITATIONS
3	The polymorphism linked to the human insulin gene: its lack of association with either IDDM or NIDDM in Japanese. <i>European Journal of Endocrinology</i> , 1986, 113, 268-271.	1.9	13
5	Slippery pre-suffused surfaces. <i>Europhysics Letters</i> , 2011, 96, 56001.	0.7	417
6	Slippery when wetted. <i>Nature</i> , 2011, 477, 412-413.	13.7	175
7	Technology Vision. <i>Surface Engineering</i> , 2012, 28, 1-4.	1.1	3
8	Direct observation of stick-slip movements of water nanodroplets induced by an electron beam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7187-7190.	3.3	97
9	Imbibition of a textured surface decorated by short pillars with rounded edges. <i>Physical Review E</i> , 2012, 86, 020601.	0.8	23
10	Liquid-infused structured surfaces with exceptional anti-biofouling performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13182-13187.	3.3	783
11	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. <i>Nature Nanotechnology</i> , 2012, 7, 825-832.	15.6	1,270
12	Self-Healing Surface Hydrophobicity by Consecutive Release of Hydrophobic Molecules from Mesoporous Silica. <i>Langmuir</i> , 2012, 28, 5845-5849.	1.6	100
14	Incorporation of Penicillin-Producing Fungi into Living Materials to Provide Chemically Active and Antibiotic-Releasing Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11293-11296.	7.2	34
15	Screening Conditions for Rationally Engineered Electrodeposition of Nanostructures (SCREEN): Electrodeposition and Applications of Polypyrrole Nanofibers using Microfluidic Gradients. <i>Small</i> , 2012, 8, 3502-3509.	5.2	8
16	Smooth, transparent and nonperfluorinated surfaces exhibiting unusual contact angle behavior toward organic liquids. <i>RSC Advances</i> , 2012, 2, 9805.	1.7	50
17	How To Reduce Resistance to Movement of Alkane Liquid Drops Across Tilted Surfaces Without Relying on Surface Roughening and Perfluorination. <i>Langmuir</i> , 2012, 28, 17681-17689.	1.6	50
18	Superhydrophobic and Adhesive Properties of Surfaces: Testing the Quality by an Elaborated Scanning Electron Microscopy Method. <i>Langmuir</i> , 2012, 28, 14338-14346.	1.6	14
19	Tunable Water Adhesion on Titanium Oxide Surfaces with Different Surface Structures. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5737-5741.	4.0	30
20	Polymer/nucleotide droplets as bio-inspired functional micro-compartments. <i>Soft Matter</i> , 2012, 8, 6004.	1.2	89
21	Why Superhydrophobic Surfaces Are Not Always Icephobic. <i>ACS Nano</i> , 2012, 6, 8488-8491.	7.3	339
22	Stabilization of Leidenfrost vapour layer by textured superhydrophobic surfaces. <i>Nature</i> , 2012, 489, 274-277.	13.7	467

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23	Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 9774.	6.7	231
24	Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis. <i>Advanced Materials</i> , 2012, 24, 5838-5843.	11.1	288
25	Calcium Carbonate Nanotablets: Bridging Artificial to Natural Nacre. <i>Advanced Materials</i> , 2012, 24, 6277-6282.	11.1	68
26	Extreme wettability and tunable adhesion: biomimicking beyond nature?. <i>Soft Matter</i> , 2012, 8, 2070-2086.	1.2	217
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35	Bio-Inspired Self-Cleaning Surfaces. <i>Annual Review of Materials Research</i> , 2012, 42, 231-263.	4.3	427
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38	Clam's Shell Inspired High-Energy Inorganic Coatings with Underwater Low Adhesive Superoleophobicity. <i>Advanced Materials</i> , 2012, 24, 3401-3405.	11.1	277
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45	Neuronal cells loaded with PEI-coated Fe ₃ O ₄ nanoparticles for magnetically guided nerve regeneration. Journal of Materials Chemistry B, 2013, 1, 3607.	2.9	38
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1015	Rolling and slipping of droplets on superhydrophobic surfaces. <i>Physical Review E</i> , 2018, 98, .	0.8	8

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1673	Evaporating droplets on oil-wetted surfaces: Suppression of the coffee-stain effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16756-16763.	3.3	57
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1824	Bioinspired Unidirectional Liquid Transport Micro-nano Structures: A Review. <i>Journal of Bionic Engineering</i> , 2021, 18, 1-29.	2.7	22
1825	Enduring liquid repellency through slippery ionic liquid-infused organogels. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2357-2366.	5.2	10
1826	Modulation of solid surface with desirable under-liquid wettability based on molecular hydrophilic-lipophilic balance. <i>Chemical Science</i> , 2021, 12, 6136-6142.	3.7	17
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1831	Hydrogen Bond Association to Prepare Flame Retardant Polyvinyl Alcohol Film with High Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5508-5517.	4.0	52
1832	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling" Emulsion Separation via Coalescence Demulsification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4731-4739.	4.0	36
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1838	Bioinspired photocatalytic hedgehog coating for super liquid repellency. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4174-4181.	3.2	6
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1841	From innovation-as-usual towards unusual innovation: using nature as an inspiration. <i>Journal of Innovation and Entrepreneurship</i> , 2021, 10, .	1.8	4
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1844	A hydrogen bond based self-healing superhydrophobic octadecyltriethoxysilane [~] lignocellulose/silica coating. <i>Progress in Organic Coatings</i> , 2021, 151, 106104.	1.9	10
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1848	Antifouling strategies for protecting bioelectronic devices. <i>APL Materials</i> , 2021, 9, .	2.2	20
1849	Recent progress in the anti-icing performance of slippery liquid-infused surfaces. <i>Progress in Organic Coatings</i> , 2021, 151, 106096.	1.9	43
1850	Semi-convertible Hydrogel Enabled Photoresponsive Lubrication. <i>Matter</i> , 2021, 4, 675-687.	5.0	33
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1853	A comparison of bioinspired slippery and superhydrophobic surfaces: Micro-droplet impact. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
1854	Biomimetic Slippery PDMS Film with Papillae-Like Microstructures for Antifogging and Self-Cleaning. <i>Coatings</i> , 2021, 11, 238.	1.2	7
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1861	Facile Fabrication of Novel Multifunctional Lubricant-Infused Surfaces with Exceptional Tribological and Anticorrosive Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6678-6687.	4.0	34
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1863	Silicone nanofilaments grown on aircraft alloys for low ice adhesion. <i>Surface and Coatings Technology</i> , 2021, 410, 126971.	2.2	13
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1865	Control of droplet evaporation on smooth chemical patterns. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	8
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1883	Transparent and mechanically strong hydrogen-bonded polymer complex elastomers with improved self-healability under ambient conditions. Polymer, 2021, 218, 123461.	1.8	4
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1899	Emerging Trends in Immunomodulatory Nanomaterials Toward Cancer Therapy. <i>Synthesis Lectures on Biomedical Engineering</i> , 2021, 16, i-84.	0.1	0
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1901	Skin-Inspired Double-Hydrophobic Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. <i>Advanced Functional Materials</i> , 2021, 31, 2102433.	7.8	96
1902	Elastohydrodynamic friction of robotic and human fingers on soft micropatterned substrates. <i>Nature Materials</i> , 2021, 20, 1707-1711.	13.3	33
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1906	Hydrophilic slippery surface enabled coarsening effect for rapid water harvesting. <i>Cell Reports Physical Science</i> , 2021, 2, 100387.	2.8	37
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1910	Spraying layer-by-layer assembly of tannin-Fe ³⁺ and polyethyleneimine for antibacterial coating. <i>Colloids and Interface Science Communications</i> , 2021, 42, 100422.	2.0	20
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1912	A bio-inspired method to fabricate the substrate-independent Janus membranes with outstanding floatability for precise oil/water separation. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	4
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1915	Slippery liquid-infused porous surface based on MOFs with excellent stability. <i>Chemical Physics Letters</i> , 2021, 771, 138470.	1.2	6
1916	Dual Surface Architectonics for Directed Self-Assembly of Ultrahigh-Resolution Electronics. <i>Small</i> , 2021, 17, e2101754.	5.2	10
1917	Dynamic manipulation of droplets using mechanically tunable microtextured chemical gradients. <i>Nature Communications</i> , 2021, 12, 3114.	5.8	29
1918	Assessment of biogrowth assemblages with depth in a seawater intake system of a coastal power station. <i>Biofouling</i> , 2021, 37, 506-520.	0.8	3
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1920	Bioinspired Omniphobic Microchamber Structure. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100027.	1.9	4
1921	A One-Pot Universal Approach to Fabricate Lubricant-Infused Slippery Surfaces on Solid Substrates. <i>Advanced Functional Materials</i> , 2021, 31, 2101090.	7.8	45
1922	Smart Bionic Surfaces with Switchable Wettability and Applications. <i>Journal of Bionic Engineering</i> , 2021, 18, 473-500.	2.7	14
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1924	Directional Droplet Transport on Functional Surfaces with Superwettabilities. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100043.	1.9	41
1925	Influence of Surface Texture on the Variation of Electrokinetic Streaming Potentials. <i>Langmuir</i> , 2021, 37, 6736-6743.	1.6	4
1926	Reducing the Contact angle hysteresis of thin polymer films by oil impregnation in supercritical carbon dioxide. <i>Progress in Organic Coatings</i> , 2021, 154, 106202.	1.9	5
1927	Liquid-like polymer-based self-cleaning coating for effective prevention of liquid foods contaminations. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 327-335.	5.0	25
1928	Biomimetic modification of freezing facility surfaces to prevent icing and frosting during freezing for the food industry. <i>Trends in Food Science and Technology</i> , 2021, 111, 581-594.	7.8	23
1929	Ultrathin Diamond Nanofilms—Development, Challenges, and Applications. <i>Small</i> , 2021, 17, e2007529.	5.2	61
1930	Dynamically oleophobic epoxy coating with surface enriched in silicone. <i>Progress in Organic Coatings</i> , 2021, 154, 106170.	1.9	9
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1934	Brush-like organic-inorganic hybrid polysiloxane surface with omniphobicity and extreme durability. <i>Progress in Organic Coatings</i> , 2021, 154, 106171.	1.9	11
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1941	Expanding Biomaterial Surface Topographical Design Space through Natural Surface Reproduction. <i>Advanced Materials</i> , 2021, 33, e2102084.	11.1	16
1942	Stimuli-responsive surfaces for switchable wettability and adhesion. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210162.	1.5	38
1943	Fabrication of Frog-Skin-Inspired Slippery Antibiofouling Coatings Through Degradable Block Copolymer Wrinkling. <i>Advanced Functional Materials</i> , 2021, 31, 2104173.	7.8	28
1944	High-Performance Bio-Based Polyurethane Antismudge Coatings Using Castor Oil-Based Hyperbranched Polyol as Superior Cross-Linkers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3612-3622.	2.0	33
1945	Multiple Wetting/Dewetting States of a Water Droplet on Dual-Scale Hierarchical Structured Surfaces. <i>Jacs Au</i> , 2021, 1, 955-966.	3.6	3
1946	A Superhydrophobic Self-Cleaning and Anti-Icing Aluminum Sheet Fabricated by Alkaline Solution. <i>Advanced Engineering Materials</i> , 2021, 23, 2100347.	1.6	9
1947	Anti-icing approach on flexible slippery microstructure thin-film. <i>Cold Regions Science and Technology</i> , 2021, 186, 103280.	1.6	7
1948	Light-responsive and corrosion-resistant gas valve with non-thermal effective liquid-gating positional flow control. <i>Light: Science and Applications</i> , 2021, 10, 127.	7.7	33
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1952	Viscous Oil De-Wetting Surfaces Based on Robust Superhydrophilic Barium Sulfate Nanocoating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27674-27686.	4.0	13
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1954	Toward a Better Regeneration through Implantâ€Mediated Immunomodulation: Harnessing the Immune Responses. <i>Advanced Science</i> , 2021, 8, e2100446.	5.6	71
1955	Research and applications of drag reduction in thermal equipment: A review. <i>International Journal of Heat and Mass Transfer</i> , 2021, 172, 121152.	2.5	21
1956	WO ₃ -based slippery coatings with long-term stability for efficient fog harvesting. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 418-428.	5.0	30
1957	Superhydrophobic Surface and Lubricantâ€Infused Surface: Implementing Two Extremes on Electrodeposited NiTiO ₂ Surface to Drive Optimal Wettability Regimes for Dropletsâ€™ Multifunctional Behaviors. <i>Advanced Engineering Materials</i> , 2021, 23, 2100266.	1.6	8
1959	Reflected Laser Interferometry: A Versatile Tool to Probe Condensation of Low-Surface-Tension Droplets. <i>Langmuir</i> , 2021, 37, 8073-8082.	1.6	6
1960	Liquid gating technology. <i>Pure and Applied Chemistry</i> , 2021, 93, 1353-1370.	0.9	17
1961	Fog Collection Based on Secondary Electrohydrodynamic-Induced Hybrid Structures with Anisotropic Hydrophilicity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27575-27585.	4.0	9
1962	Coupling droplets/bubbles with a liquid film for enhancing phase-change heat transfer. <i>IScience</i> , 2021, 24, 102531.	1.9	8
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1964	Porous Layer-by-Layer Films Assembled Using Polyelectrolyte Blend to Control Wetting Properties. <i>Polymers</i> , 2021, 13, 2116.	2.0	5
1965	Anti-icing efficiency on bio-inspired slippery elastomer surface. <i>Materials Chemistry and Physics</i> , 2021, 265, 124502.	2.0	10
1966	ePTFE functionalization for medical applications. <i>Materials Today Chemistry</i> , 2021, 20, 100412.	1.7	21
1967	A Lubricated Nonimmunogenic Neural Probe for Acute Insertion Trauma Minimization and Longâ€Term Signal Recording. <i>Advanced Science</i> , 2021, 8, e2100231.	5.6	24
1968	Facile fabrication of fluorine-free slippery lubricant-infused cerium stearate surfaces for marine antifouling and anticorrosion application. <i>Surface and Coatings Technology</i> , 2021, 415, 127136.	2.2	23

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1970	Research Progress on Corrosion Resistance of Magnesium Alloys with Bio-inspired Water-repellent Properties: A Review. <i>Journal of Bionic Engineering</i> , 2021, 18, 735-763.	2.7	18
1971	Elucidating the Mechanism of Condensation-Mediated Degradation of Organofunctional Silane Self-Assembled Monolayer Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34923-34934.	4.0	30
1972	A Review on the Current Status of Icing Physics and Mitigation in Aviation. <i>Aerospace</i> , 2021, 8, 188.	1.1	35
1973	Drops Sliding on Non-SLIPS Structures. <i>Langmuir</i> , 2021, 37, 9053-9058.	1.6	3
1974	Bioinspired Oil-Infused Slippery Surfaces with Water and Ion Barrier Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33464-33476.	4.0	10
1975	Discriminatory Detection of ssDNA by Surface-Enhanced Raman Spectroscopy (SERS) and Tree-Based Support Vector Machine (Tr-SVM). <i>Analytical Chemistry</i> , 2021, 93, 9319-9328.	3.2	30
1976	Functional fluorination agents for opposite extreme wettability coatings with robustness, water splash inhibition, and controllable oil transport. <i>Chemical Engineering Journal</i> , 2021, 415, 128895.	6.6	14
1977	Modeling of Wetting Transition of Liquid Metals on Organic Liquid Surfaces. <i>Langmuir</i> , 2021, 37, 9429-9438.	1.6	8
1978	Slippery surfaces: A decade of progress. <i>Physics of Fluids</i> , 2021, 33, .	1.6	43
1979	A mechanically robust slippery surface with "corn-like" structures fabricated by in-situ growth of TiO ₂ on attapulgite. <i>Chemical Engineering Journal</i> , 2021, 415, 128953.	6.6	40
1980	An engineering-oriented approach to construct rough micro/nano-structures for anticorrosion and antifouling application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126590.	2.3	15
1981	Nanotextured Surfaces Lead to Differential Wettability of Compound Droplets. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100714.	1.9	0
1982	CHÁ»NG ÄÄ"NG BÄ,NG TRÄŠN CÄC Bá»€ Má»T Sá»- Dá»NG KHÄ† NIÄ»†M SLIPS (Slippery Liquid-Infused Porous surfaces). <i>Khoa Há»c</i> , 2021, 7, 14-21.	0.0	0
1983	Designing a Highly Stable Slippery Organogel on Q235 Carbon Steel for Inhibiting Microbiologically Influenced Corrosion. <i>ACS Applied Bio Materials</i> , 2021, 4, 6056-6064.	2.3	12
1984	Condensation frosting and passive anti-frosting. <i>Cell Reports Physical Science</i> , 2021, 2, 100474.	2.8	35
1985	A critical review on surface modifications mitigating dairy fouling. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4324-4366.	5.9	9
1986	Recent Progress of Bioinspired Scalephobic Surfaces with Specific Barrier Layers. <i>Langmuir</i> , 2021, 37, 8639-8657.	1.6	15

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1987	Ion beam joining of ceramic and carbon-based nanostructures. <i>Applied Surface Science</i> , 2021, 554, 149616.	3.1	2
1988	Nanoscale Coatings Derived from Fluoroalkyl and PDMS Alkoxysilanes on Rough Aluminum Surfaces for Improved Durability and Anti-Icing Properties. <i>ACS Applied Nano Materials</i> , 2021, 4, 7493-7501.	2.4	26
1989	Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. <i>Langmuir</i> , 2021, 37, 10071-10078.	1.6	31
1990	Functional surface microstructures inspired by nature – From adhesion and wetting principles to sustainable new devices. <i>Progress in Materials Science</i> , 2021, 120, 100823.	16.0	117
1991	Shape-Deformed Mushroom-like Reentrant Structures for Robust Liquid-Repellent Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33618-33626.	4.0	15
1992	Liquid Crystal-Infused Porous Polymer Surfaces: A “Slippery” Soft Material Platform for the Naked-Eye Detection and Discrimination of Amphiphilic Species. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33652-33663.	4.0	5
1993	Preventing algae biofilm formation via designing long-term oil storage surfaces for excellent antifouling performance. <i>Applied Surface Science</i> , 2021, 554, 149612.	3.1	16
1994	Recent progress and future perspectives for the development of micro-supercapacitors for portable/wearable electronics applications. <i>JPhys Energy</i> , 2021, 3, 032017.	2.3	18
1995	Design and applications of surfaces that control the accretion of matter. <i>Science</i> , 2021, 373, .	6.0	114
1996	Lubricant-Mediated Strong Droplet Adhesion on Lubricant-Impregnated Surfaces. <i>Langmuir</i> , 2021, 37, 8607-8615.	1.6	9
1997	Slippery Antifouling Polysiloxane–Polyurea Surfaces with Matrix Self-Healing and Lubricant Self-Replenishing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32149-32160.	4.0	31
1998	Investigation of vulcanization fouling behavior of biomimetic liquid-infused slippery surfaces. <i>Journal of Materials Science</i> , 2021, 56, 16290-16306.	1.7	5
1999	Hybrid lattice-Boltzmann finite-difference simulation of ternary fluids near immersed solid objects of general shapes. <i>Physics of Fluids</i> , 2021, 33, .	1.6	7
2000	Self-Stratified Versatile Coatings for Three-Dimensional Printed Underwater Physical Sensors Applications. <i>Nano Letters</i> , 2021, 21, 6820-6827.	4.5	13
2001	Furcated droplet motility on crystalline surfaces. <i>Nature Nanotechnology</i> , 2021, 16, 1106-1112.	15.6	36
2002	Slippery-Liquid-Infused Electrostatic Flocking Surfaces for Marine Antifouling Application. <i>Langmuir</i> , 2021, 37, 10020-10028.	1.6	9
2003	Symmetry-Breaking Drop Bouncing on Superhydrophobic Surfaces with Continuously Changing Curvatures. <i>Polymers</i> , 2021, 13, 2940.	2.0	3
2004	Actuating water droplets on liquid infused surfaces: A rickshaw for droplets. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	1

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2005	Near-bulge oil meniscus-induced migration and condensation of droplets for water collection: Energy saving, generalization and recyclability. <i>Chemical Engineering Journal</i> , 2021, 417, 129215.	6.6	22
2006	Bio-inspired self-replenishing and self-reporting slippery surfaces from colloidal co-assembly templates. <i>Chemical Engineering Journal</i> , 2021, 426, 131641.	6.6	12
2007	<i>Sarracenia purpurea</i> glycerol-3-phosphate acyltransferase 5 confers plant tolerance to high humidity in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2021, 173, 1221-1229.	2.6	0
2008	Design of Lubricant-Infused Surfaces Based on Mussel-Inspired Nanosilica Coatings: Solving Adhesion by Pre-Adhesion. <i>Langmuir</i> , 2021, 37, 10708-10719.	1.6	11
2009	Designing Anti-Icing Surfaces by Controlling Ice Formation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100327.	1.9	29
2010	Machine Learning Approach to Analyze the Surface Properties of Biological Materials. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4614-4625.	2.6	9
2011	Rapid and coagulation-independent haemostatic sealing by a paste inspired by barnacle glue. <i>Nature Biomedical Engineering</i> , 2021, 5, 1131-1142.	11.6	146
2012	Bioinspired Universal Approaches for Cavity Regulation during Cylinder Impact Processes for Drag Reduction in Aqueous Media: Macrogeometry Vanquishing Wettability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38808-38815.	4.0	7
2013	Interfacial phenomena in snow from its formation to accumulation and shedding. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102480.	7.0	12
2014	Harnessing nano oil reservoir network for generating low friction and wear in self-mating alumina. <i>Materials and Design</i> , 2021, 206, 109821.	3.3	2
2015	Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. <i>ACS Nano</i> , 2021, 15, 14305-14315.	7.3	23
2016	Ice-resistant surface with three dimensional spherical halloysite aerogel: Construction and anti-icing mechanism. <i>Ceramics International</i> , 2021, 47, 22976-22984.	2.3	3
2017	Programmable droplet sliding on slippery surface with tunability in both surface microstructure and lubricant. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 195-208.	9.9	5
2018	Scalable Slippery Omniphobic Covalently Attached Liquid Coatings for Flow Fouling Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38666-38679.	4.0	20
2020	Antibacterial Gel Coatings Inspired by the Cryptic Function of a Mussel Byssal Peptide. <i>Advanced Materials</i> , 2021, 33, e2103677.	11.1	46
2021	Highly Efficient Self-Repairing Slippery Liquid-Infused Surface with Promising Anti-Icing and Anti-Fouling Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40032-40041.	4.0	44
2022	Architecturing materials at mesoscale: some current trends. <i>Materials Research Letters</i> , 2021, 9, 399-421.	4.1	51
2023	Corrosion behavior of a slippery liquid infused porous surface on anodized stainless steel. <i>Materials Letters</i> , 2021, 296, 129892.	1.3	11

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2024	Excellent coating of collagen fiber/chitosan-based materials that is water- and oil-resistant and fluorine-free. <i>Carbohydrate Polymers</i> , 2021, 266, 118173.	5.1	21
2025	Tailoring Materials with Specific Wettability in Biomedical Engineering. <i>Advanced Science</i> , 2021, 8, e2100126.	5.6	52
2026	Nano-Al doped-MoO ₃ high-energy composite films with excellent hydrophobicity and thermal stability. <i>Ceramics International</i> , 2021, 47, 24039-24046.	2.3	5
2027	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. <i>Langmuir</i> , 2021, 37, 10914-10923.	1.6	54
2028	Approaches to inhibit biofilm formation applying natural and artificial silk-based materials. <i>Materials Science and Engineering C</i> , 2021, 131, 112458.	3.8	9
2029	Surface Acoustic Waves to Control Droplet Impact onto Superhydrophobic and Slippery Liquid-Infused Porous Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46076-46087.	4.0	29
2030	A spontaneous one-step fabrication of slippery gel coatings. <i>Applied Surface Science</i> , 2022, 572, 151341.	3.1	4
2031	Nature-inspired slippery polymer thin film for ice-repellent applications. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2021, 10, 107-113.	0.7	5
2032	Slippery Liquid-Infused Porous Surfaces on Aluminum for Corrosion Protection with Improved Self-Healing Ability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45089-45096.	4.0	20
2033	Effective Approach to Render Stable Dynamic Omniphobicity and Icephobicity to Ultrasoother Metal Surfaces. <i>Langmuir</i> , 2021, 37, 11771-11780.	1.6	2
2034	Bio-inspired slippery surfaces with multifunctional anti-icing performance. <i>Science China Technological Sciences</i> , 2021, 64, 2110-2118.	2.0	11
2035	Superhydrophobic micro-tube fabricated via one-step plasma polymerization for lossless droplet transfer. <i>Surface and Coatings Technology</i> , 2021, 421, 127272.	2.2	6
2036	Development of natural deep eutectic solvents (NADESs) as anti-freezing agents for the frozen food industry: Water-tailoring effects, anti-freezing mechanisms and applications. <i>Food Chemistry</i> , 2022, 371, 131150.	4.2	38
2037	Rational engineering and applications of functional bioadhesives in biomedical engineering. <i>Biotechnology Journal</i> , 2021, 16, e2100231.	1.8	9
2038	Moth-eye-inspired texturing surfaces enabled self-cleaning aluminum to achieve photothermal anti-icing. <i>Optics and Laser Technology</i> , 2021, 141, 107115.	2.2	44
2039	A Simple Approach for Flexible and Stretchable Anti-icing Lubricant-Infused Tape. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45105-45115.	4.0	9
2040	Photo-Polymerization Induced Hierarchical Pattern via Self-Wrinkling. <i>Advanced Functional Materials</i> , 2021, 31, 2106754.	7.8	17
2041	The Device Using a Polydimethylsiloxane Membrane and the Phase Transition of Water. <i>Coatings</i> , 2021, 11, 1102.	1.2	0

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2043	Reduction of Ice Adhesion Using Surface Acoustic Waves: Nanoscale Vibration and Interface Heating Effects. <i>Langmuir</i> , 2021, 37, 11851-11858.	1.6	12
2044	External-field-induced directional droplet transport: A review. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102502.	7.0	22
2045	Icephobic properties of anti-wetting coatings for aeronautical applications. <i>Surface and Coatings Technology</i> , 2021, 421, 127363.	2.2	6
2046	Recent advances in hydrogel-based anti-infective coatings. <i>Journal of Materials Science and Technology</i> , 2021, 85, 169-183.	5.6	40
2047	Citrus-peel-like durable slippery surfaces. <i>Chemical Engineering Journal</i> , 2021, 420, 129599.	6.6	21
2048	Recent progress on sorption/desorption-based atmospheric water harvesting powered by solar energy. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111233.	3.0	45
2049	Dynamic Anti-Icing Surfaces (DAIS). <i>Advanced Science</i> , 2021, 8, e2101163.	5.6	49
2050	Flow and Drop Transport Along Liquid-Infused Surfaces. <i>Annual Review of Fluid Mechanics</i> , 2022, 54, 83-104.	10.8	42
2051	Durable, self-healing superhydrophobic nanofibrous membrane with self-cleaning ability for highly-efficient oily wastewater purification. <i>Journal of Membrane Science</i> , 2021, 634, 119402.	4.1	132
2052	Evaluation of the Durability of Slippery, Liquid-Infused Porous Surfaces in Different Aggressive Environments: Influence of the Chemical-Physical Properties of Lubricants. <i>Coatings</i> , 2021, 11, 1170.	1.2	8
2053	Comparison Study of Self-Cleaning, Anti-Icing, and Durable Corrosion Resistance of Superhydrophobic and Lubricant-Infused Ultraslippery Surfaces. <i>Langmuir</i> , 2021, 37, 11061-11071.	1.6	35
2054	Dropwise condensation: From fundamentals of wetting, nucleation, and droplet mobility to performance improvement by advanced functional surfaces. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102503.	7.0	34
2055	Super liquid repellent surfaces for anti-foaming and froth management. <i>Nature Communications</i> , 2021, 12, 5358.	5.8	20
2056	Stable, superfast and self-healing fluid coating with active corrosion resistance. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102494.	7.0	23
2057	Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. <i>Journal of Cleaner Production</i> , 2021, 315, 127862.	4.6	32
2058	Self-healing materials: A pathway to immortal products or a risk to circular economy systems?. <i>Journal of Cleaner Production</i> , 2021, 315, 128193.	4.6	22
2059	Recent advances of organogels: from fabrications and functions to applications. <i>Progress in Organic Coatings</i> , 2021, 159, 106417.	1.9	44

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2061	Novel environment-friendly grease-infused porous surface exhibiting long-term cycle effective antifouling performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127196.	2.3	8
2062	A novel directional repairing rGO-Fe ₃ O ₄ /Oil coating with magnetic driving for metal protection and self-healing. <i>Chemical Engineering Journal</i> , 2021, 421, 129597.	6.6	18
2063	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. <i>Nano Today</i> , 2021, 40, 101283.	6.2	61
2064	Liquid crystal-based open surface microfluidics manipulate liquid mobility and chemical composition on demand. <i>Science Advances</i> , 2021, 7, eabi7607.	4.7	39
2065	Bionic design of tools in cutting: Reducing adhesion, abrasion or friction. <i>Wear</i> , 2021, 482-483, 203955.	1.5	30
2066	A Quadruple-Biomimetic surface for spontaneous and efficient fog harvesting. <i>Chemical Engineering Journal</i> , 2021, 422, 130119.	6.6	63
2067	Potential use of smart coatings for icephobic applications: A review. <i>Surface and Coatings Technology</i> , 2021, 424, 127656.	2.2	30
2068	Are telechelic polysiloxanes better than hemi-telechelic for self-cleaning applications?. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 174-186.	5.0	4
2069	Functionalized superhydrophobic quartz fabric with electro-photo-thermal conversion performance: Designed for low-cost and efficient self-heating deicing. <i>Surface and Coatings Technology</i> , 2021, 425, 127646.	2.2	17
2070	Preparation and self-cleaning property of a superhydrophobic coating based on micro-nano integrated TiO ₂ microspheres. <i>Ceramics International</i> , 2021, 47, 32456-32459.	2.3	12
2071	When SLIPS meets TIPS: An endogenous lubricant-infused surface by taking the diluent as the lubricant. <i>Chemical Engineering Journal</i> , 2021, 425, 130600.	6.6	12
2072	Dropwise condensation of acetone and ethanol for a high-performance lubricant-impregnated thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121871.	2.5	6
2073	Liquid-like transparent and flexible coatings for anti-graffiti applications. <i>Progress in Organic Coatings</i> , 2021, 161, 106476.	1.9	8
2074	Water-repellent surfaces of metallic glasses: fabrication and application. <i>Materials Today Advances</i> , 2021, 12, 100164.	2.5	8
2075	Self-healing dual biomimetic liquid-infused slippery surface in a partition matrix: Fabrication and anti-corrosion capability for magnesium alloy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127585.	2.3	16
2076	Novel corrosion-resistant behavior and mechanism of a biomimetic surface with switchable wettability on Mg alloy. <i>Chemical Engineering Journal</i> , 2021, 425, 130450.	6.6	18
2077	Bioinspired nonwetting surfaces for corrosion inhibition over a range of temperature and corrosivity. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 323-333.	5.0	23

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2079	NIR-driven fast construction of patterned-wettability on slippery lubricant infused surface for droplet manipulation. <i>Chemical Engineering Journal</i> , 2022, 428, 131141.	6.6	19
2080	Dewetting of non-polar thin lubricating films underneath polar liquid drops on slippery surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 530-537.	5.0	7
2081	Equilibrium droplet shapes on chemically patterned surfaces: theoretical calculation, phase-field simulation, and experiments. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1077-1086.	5.0	18
2082	Sea slug inspired smart marine antifouling coating with reversible chemical bonds: Controllable UV-responsive coumarin releasing and efficient UV-healing properties. <i>Chemical Engineering Journal</i> , 2022, 429, 132471.	6.6	36
2083	The role of support layer properties on the fabrication and performance of thin-film composite membranes: The significance of selective layer-support layer connectivity. <i>Separation and Purification Technology</i> , 2021, 278, 119451.	3.9	25
2084	Controlling the directional sliding velocity of a liquid through an omniphobic nano-bump surface. <i>Applied Surface Science</i> , 2022, 571, 151404.	3.1	7
2085	How water wets and self-hydrophilizes nanopatterns of physisorbed hydrocarbons. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 57-66.	5.0	1
2086	Fast-response, no-pretreatment, and robustness air-water/oil amphibious superhydrophilic-superoleophobic surface for oil/water separation and oil-repellent fabrics. <i>Chemical Engineering Journal</i> , 2022, 427, 132043.	6.6	39
2087	Anti-biofouling materials and surfaces based on mussel-inspired chemistry. <i>Materials Advances</i> , 2021, 2, 2216-2230.	2.6	8
2088	Directional anchoring patterned liquid-infused superamphiphobic surfaces for high-throughput droplet manipulation. <i>Lab on A Chip</i> , 2021, 21, 1373-1384.	3.1	17
2089	Polysiloxane Nanofilaments Infused with Silicone Oil Prevent Bacterial Adhesion and Suppress Thrombosis on Intranasal Splints. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 541-552.	2.6	21
2090	Synergistic effect of copolymeric resin grafted 1,2-benzisothiazol-3(2 <i>H</i>)-one and heterocyclic groups as a marine antifouling coating. <i>RSC Advances</i> , 2021, 11, 18787-18796.	1.7	6
2091	Bio-inspired semi-infused adaptive surface with reconfigurable topography for on-demand droplet manipulation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5382-5389.	3.2	1
2092	Gels as emerging anti-icing materials: a mini review. <i>Materials Horizons</i> , 2021, 8, 3266-3280.	6.4	49
2093	Slippery liquid infused porous surfaces with corrosion resistance potential on aluminum alloy. <i>RSC Advances</i> , 2021, 11, 847-855.	1.7	8
2094	Designing Flexible but Tough Slippery Track for Underwater Gas Manipulation. <i>Small</i> , 2021, 17, e2007803.	5.2	35
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2097	Capillary Bridges on Liquid-Infused Surfaces. <i>Langmuir</i> , 2021, 37, 908-917.	1.6	3
2098	A fishbone-inspired liquid splitter enables directional droplet transportation and spontaneous separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9719-9728.	5.2	31
2099	Electrospinning nanofibers and nanomembranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21659-21684.	5.2	121
2100	Fluoropolymers in biomedical applications: state-of-the-art and future perspectives. <i>Chemical Society Reviews</i> , 2021, 50, 5435-5467.	18.7	151
2101	Recent Progress and Future Directions of Multifunctional (Super)Wetting Smooth/Structured Surfaces and Coatings. <i>Advanced Functional Materials</i> , 2020, 30, 1907772.	7.8	53
2102	Direct Imaging of Superwetting Behavior on Solid-Liquid-Vapor Triphase Interfaces. <i>Advanced Materials</i> , 2017, 29, 1703009.	11.1	10
2103	Multiple Liquid Manipulations on Patterned Surfaces with Tunable Adhesive Property. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700490.	1.9	14
2104	Fabrication of Unmodified Bionic Copper Surfaces with Highly Stable Hydrophobicity and Anti-Icing Properties via a Transfer with Zr-Based Metallic Glasses. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001743.	1.9	4
2105	Cell-Inspired All-Aqueous Microfluidics: From Intracellular Liquid-Liquid Phase Separation toward Advanced Biomaterials. <i>Advanced Science</i> , 2020, 7, 1903359.	5.6	111
2106	Smart Nanofibrous Membranes with Controllable Porous Structure and Surface Wettability for High Efficient Separation Materials. , 2014, , 1-23.		2
2107	Recent progress on developing anti-frosting and anti-fouling functional surfaces for air source heat pumps. <i>Energy and Buildings</i> , 2020, 223, 110139.	3.1	20
2108	Composite Structured Surfaces for Durable Dropwise Condensation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119890.	2.5	25
2109	Self-healing and self-cleaning clear coating. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 311-318.	5.0	33
2110	Recycled PET as a PDMS-Functionalized electrospun fibrous membrane for oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103921.	3.3	51
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2112	Preparation of a wear-resistant, superhydrophobic SiO ₂ /silicone-modified polyurethane composite coating through a two-step spraying method. <i>Progress in Organic Coatings</i> , 2020, 146, 105710.	1.9	33
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2116	Boosting Electrically Actuated Manipulation of Water Droplets on Lubricated Surfaces through a Corona Discharge. <i>Langmuir</i> , 2021, 37, 400-405.	1.6	11
2117	Dynamic Wettability on the Lubricant-Impregnated Surface: From Nucleation to Growth and Coalescence. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26555-26565.	4.0	33
2118	Doubly Reentrant Cavities Prevent Catastrophic Wetting Transitions on Intrinsically Wetting Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21532-21538.	4.0	64
2119	Antiscaling Magnetic Slippery Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21025-21033.	4.0	47
2120	Cotton Modified with Silica Nanoparticles, N,F Codoped TiO ₂ Nanoparticles, and Octadecyltrimethoxysilane for Textiles with Self-Cleaning and Visible Light-Based Cleaning Properties. <i>ACS Applied Nano Materials</i> , 2021, 4, 877-885.	2.4	21
2121	Prewetting dichloromethane induced aqueous solution adhered on Cassie superhydrophobic substrates to fabricate efficient fog-harvesting materials inspired by Namib Desert beetles and mussels. <i>Nanoscale</i> , 2018, 10, 13045-13054.	2.8	68
2124	Thermocapillary motion on lubricant-impregnated surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	101
2125	Effect of viscosity ratio on the shear-driven failure of liquid-infused surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	75
2126	“Fluid bearing” effect of enclosed liquids in grooves on drag reduction in microchannels. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	14
2127	Controlled liquid entrapment over patterned sidewalls in confined geometries. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	10
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2129	Wetting over pre-existing liquid films. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	9
2130	Ice wicking. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	11
2131	Effect of streamwise cross-sectional variation on liquid retention in liquid-infused substrates under an external flow. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	2
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2301	Hydrophobic coatings prepared using various dipodal silane-functionalized polymer precursors. <i>Applied Surface Science Advances</i> , 2022, 7, 100207.	2.9	6

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2303	Multiphase media superwettability regulated by coexisting prewetting phase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128505.	2.3	2
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2313	Super-alcohol-repellent coatings. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 146-154.	5.0	3
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2315	Slippery, Water-Infused Membrane with Grooved Nanotrichomes for Lubricating-Induced Oil Repellency. <i>Advanced Science</i> , 2022, 9, e2103950.	5.6	4
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