

Zuankai Wang

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

193
papers

10,725
citations

51
h-index

100
g-index

217
ext. papers

14,277
ext. citations

11.6
avg, IF

6.82
L-index

#	Paper	IF	Citations
193	Pancake bouncing on superhydrophobic surfaces. <i>Nature Physics</i> , 2014 , 10, 515-519	16.2	522
192	High dislocation density-induced large ductility in deformed and partitioned steels. <i>Science</i> , 2017 , 357, 1029-1032	33.3	454
191	Design of robust superhydrophobic surfaces. <i>Nature</i> , 2020 , 582, 55-59	50.4	444
190	Nanograsped Micropyramidal Architectures for Continuous Dropwise Condensation. <i>Advanced Functional Materials</i> , 2011 , 21, 4617-4623	15.6	409
189	A droplet-based electricity generator with high instantaneous power density. <i>Nature</i> , 2020 , 578, 392-396	50.4	391
188	From industrially weavable and knittable highly conductive yarns to large wearable energy storage textiles. <i>ACS Nano</i> , 2015 , 9, 4766-75	16.7	359
187	Nanostructured copper interfaces for enhanced boiling. <i>Small</i> , 2008 , 4, 1084-8	11	340
186	Recurrent filmwise and dropwise condensation on a beetle mimetic surface. <i>ACS Nano</i> , 2015 , 9, 71-81	16.7	326
185	Enhanced cell sorting and manipulation with combined optical tweezer and microfluidic chip technologies. <i>Lab on A Chip</i> , 2011 , 11, 3656-62	7.2	283
184	PDMS/PVDF hybrid electrospun membrane with superhydrophobic property and drop impact dynamics for dyeing wastewater treatment using membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 525, 57-67	9.6	243
183	Bio-inspired reversible underwater adhesive. <i>Nature Communications</i> , 2017 , 8, 2218	17.4	243
182	Symmetry breaking in drop bouncing on curved surfaces. <i>Nature Communications</i> , 2015 , 6, 10034	17.4	234
181	A bioinspired multilegged soft millirobot that functions in both dry and wet conditions. <i>Nature Communications</i> , 2018 , 9, 3944	17.4	233
180	Surface charge printing for programmed droplet transport. <i>Nature Materials</i> , 2019 , 18, 936-941	27	208
179	Directional transport of high-temperature Janus droplets mediated by structural topography. <i>Nature Physics</i> , 2016 , 12, 606-612	16.2	190
178	Ultrathin metal/covalent-organic framework membranes towards ultimate separation. <i>Chemical Society Reviews</i> , 2019 , 48, 3811-3841	58.5	182
177	Topological liquid diode. <i>Science Advances</i> , 2017 , 3, eaao3530	14.3	177

176	Multimode multidrop serial coalescence effects during condensation on hierarchical superhydrophobic surfaces. <i>Langmuir</i> , 2013 , 29, 881-91	4	175
175	Superhydrophobic-like tunable droplet bouncing on slippery liquid interfaces. <i>Nature Communications</i> , 2015 , 6, 7986	17.4	164
174	Polarity-dependent electrochemically controlled transport of water through carbon nanotube membranes. <i>Nano Letters</i> , 2007 , 7, 697-702	11.5	162
173	Bioinspired Interfacial Materials with Enhanced Drop Mobility: From Fundamentals to Multifunctional Applications. <i>Small</i> , 2016 , 12, 1825-39	11	159
172	Wetting of mono and few-layered WS ₂ and MoS ₂ films supported on Si/SiO ₂ substrates. <i>ACS Nano</i> , 2015 , 9, 3023-31	16.7	156
171	Mussel-inspired hydrogels: from design principles to promising applications. <i>Chemical Society Reviews</i> , 2020 , 49, 3605-3637	58.5	153
170	How nanorough is rough enough to make a surface superhydrophobic during water condensation?. <i>Soft Matter</i> , 2012 , 8, 8786	3.6	148
169	Activating the microscale edge effect in a hierarchical surface for frosting suppression and defrosting promotion. <i>Scientific Reports</i> , 2013 , 3, 2515	4.9	147
168	Evaporation of droplets on superhydrophobic surfaces: surface roughness and small droplet size effects. <i>Physical Review Letters</i> , 2012 , 109, 116101	7.4	137
167	Impact dynamics and rebound of water droplets on superhydrophobic carbon nanotube arrays. <i>Applied Physics Letters</i> , 2007 , 91, 023105	3.4	124
166	Harnessing Solar-Driven Photothermal Effect toward the Water-Energy Nexus. <i>Advanced Science</i> , 2019 , 6, 1900883	13.6	104
165	Remote Control over Underwater Dynamic Attachment/Detachment and Locomotion. <i>Advanced Materials</i> , 2018 , 30, e1801595	24	87
164	Mimosa Origami: A nanostructure-enabled directional self-organization regime of materials. <i>Science Advances</i> , 2016 , 2, e1600417	14.3	86
163	Omnidirectional Self-Assembly of Transparent Superoleophobic Nanotextures. <i>ACS Nano</i> , 2017 , 11, 587-596	5.6	84
162	Long-range spontaneous droplet self-propulsion on wettability gradient surfaces. <i>Scientific Reports</i> , 2017 , 7, 7552	4.9	80
161	Combined micro-/nanoscale surface roughness for enhanced hydrophobic stability in carbon nanotube arrays. <i>Applied Physics Letters</i> , 2007 , 90, 143117	3.4	79
160	Electrowetting on liquid-infused film (EWOLF): complete reversibility and controlled droplet oscillation suppression for fast optical imaging. <i>Scientific Reports</i> , 2014 , 4, 6846	4.9	77
159	Microfluidic CD4+ T-cell counting device using chemiluminescence-based detection. <i>Analytical Chemistry</i> , 2010 , 82, 36-40	7.8	77

158	A high-efficiency solar desalination evaporator composite of corn stalk, Mcnts and TiO ₂ : ultra-fast capillary water moisture transportation and porous bio-tissue multi-layer filtration. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 349-357	13	76
157	Biological and Engineered Topological Droplet Rectifiers. <i>Advanced Materials</i> , 2019 , 31, e1806501	24	71
156	Controlling drop bouncing using surfaces with gradient features. <i>Applied Physics Letters</i> , 2015 , 107, 051604	3.4	71
155	Interfacial Engineering of Bimetallic Ag/Pt Nanoparticles on Reduced Graphene Oxide Matrix for Enhanced Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8834-40	9.5	71
154	Supramolecular silicone coating capable of strong substrate bonding, readily damage healing, and easy oil sliding. <i>Science Advances</i> , 2019 , 5, eaaw5643	14.3	71
153	Superhydrophobic surface with hierarchical architecture and bimetallic composition for enhanced antibacterial activity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22108-15	9.5	71
152	Hierarchical hollow MoS ₂ microspheres as materials for conductometric NO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 259-267	8.5	71
151	Tip-induced flipping of droplets on Janus pillars: From local reconfiguration to global transport. <i>Science Advances</i> , 2020 , 6, eabb4540	14.3	69
150	Directed rebounding of droplets by microscale surface roughness gradients. <i>Applied Physics Letters</i> , 2010 , 96, 234103	3.4	66
149	Toward large-scale fabrication of triboelectric nanogenerator (TENG) with silk-fibroin patches film via spray-coating process. <i>Nano Energy</i> , 2017 , 41, 359-366	17.1	65
148	Dopamine-Triggered Hydrogels with High Transparency, Self-Adhesion, and Thermoresponse as Skinlike Sensors. <i>ACS Nano</i> , 2021 , 15, 1785-1794	16.7	63
147	Suppressing Ice Nucleation of Supercooled Condensate with Biphilic Topography. <i>Physical Review Letters</i> , 2018 , 120, 075902	7.4	59
146	Pancake bouncing: simulations and theory and experimental verification. <i>Langmuir</i> , 2014 , 30, 13021-32	4	59
145	Do droplets always move following the wettability gradient?. <i>Applied Physics Letters</i> , 2011 , 98, 204104	3.4	55
144	SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. <i>National Science Review</i> , 2019 , 6, 540-550	10.8	54
143	Underwater Superoleophobic Membrane with Enhanced Oil/Water Separation, Antimicrobial, and Antifouling Activities. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500664	4.6	53
142	Nanogenerators with Superwetting Surfaces for Harvesting Water/Liquid Energy. <i>Advanced Functional Materials</i> , 2020 , 30, 1908252	15.6	50
141	Creep mitigation in composites using carbon nanotube additives. <i>Nanotechnology</i> , 2007 , 18, 185703	3.4	49

140	Three-dimensional capillary ratchet-induced liquid directional steering. <i>Science</i> , 2021 , 373, 1344-1348	33.3	49
139	Multistimuli-Responsive Microstructured Superamphiphobic Surfaces with Large-Range, Reversible Switchable Wettability for Oil. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28478-28486	9.5	46
138	A self-powered acceleration sensor with flexible materials based on triboelectric effect. <i>Nano Energy</i> , 2017 , 31, 469-477	17.1	45
137	A self-powered and high sensitivity acceleration sensor with V-Q-a model based on triboelectric nanogenerators (TEGs). <i>Nano Energy</i> , 2020 , 67, 104228	17.1	45
136	Activation of multiple signaling pathways during the differentiation of mesenchymal stem cells cultured in a silicon nanowire microenvironment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1153-63	6	39
135	Reorganization of cytoskeleton and transient activation of Ca ²⁺ channels in mesenchymal stem cells cultured on silicon nanowire arrays. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13295-304	9.5	39
134	Strain Engineering of Wave-like Nanofibers for Dynamically Switchable Adhesive/Repulsive Surfaces. <i>Advanced Functional Materials</i> , 2016 , 26, 399-407	15.6	39
133	Designing biomimetic liquid diodes. <i>Soft Matter</i> , 2019 , 15, 1902-1915	3.6	38
132	Nanostructured silver nanowires-graphene hybrids for enhanced electrochemical detection of hydrogen peroxide. <i>Applied Physics Letters</i> , 2013 , 102, 213104	3.4	36
131	The rational design of a peptide-based hydrogel responsive to H ₂ S. <i>Chemical Communications</i> , 2015 , 51, 17273-6	5.8	35
130	Droplets Can Rebound toward Both Directions on Textured Surfaces with a Wettability Gradient. <i>Langmuir</i> , 2016 , 32, 346-51	4	35
129	Skin-Integrated Graphene-Embedded Lead Zirconate Titanate Rubber for Energy Harvesting and Mechanical Sensing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900744	6.8	34
128	Wetting and electrowetting properties of carbon nanotube templated parylene films. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4296-9	3.4	34
127	Desuccinylation-Triggered Peptide Self-Assembly: Live Cell Imaging of SIRT5 Activity and Mitochondrial Activity Modulation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18150-18159	16.4	34
126	Multi-Mode Water-Tube-Based Triboelectric Nanogenerator Designed for Low-Frequency Energy Harvesting with Ultrahigh Volumetric Charge Density. <i>Advanced Energy Materials</i> , 2021 , 11, 2100038	21.8	34
125	Force analysis and bubble dynamics during flow boiling in silicon nanowire microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 915-926	4.9	33
124	Self-propelled droplet-based electricity generation. <i>Nanoscale</i> , 2018 , 10, 23164-23169	7.7	33
123	Achieving ultrahigh instantaneous power density of 10 MW/m by leveraging the opposite-charge-enhanced transistor-like triboelectric nanogenerator (OCT-TEG). <i>Nature Communications</i> , 2021 , 12, 5470	17.4	33

122	Highly Solar-Reflective Structures for Daytime Radiative Cooling under High Humidity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51409-51417	9.5	32
121	A universal single electrode droplet-based electricity generator (SE-DEG) for water kinetic energy harvesting. <i>Nano Energy</i> , 2021 , 82, 105735	17.1	32
120	Adhesion of Microdroplets on Water-Repellent Surfaces toward the Prevention of Surface Fouling and Pathogen Spreading by Respiratory Droplets. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6599-6608	9.5	30
119	Nature-Inspired Strategy for Anticorrosion. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801379	3.5	30
118	Electrocatalytic performance of cubic NiS ₂ and hexagonal NiS for oxygen reduction reaction. <i>Journal of Catalysis</i> , 2018 , 359, 223-232	7.3	30
117	Bioinspired footed soft robot with unidirectional all-terrain mobility. <i>Materials Today</i> , 2020 , 35, 42-49	21.8	29
116	Spontaneous Wenzel to Cassie dewetting transition on structured surfaces. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	29
115	In Situ Formation of Bismuth-Based Perovskite Heterostructures for High-Performance Cocatalyst-Free Photocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020 , 30, 2006919	15.6	29
114	Boosting the output performance of volume effect electricity generator (VEEG) with water column. <i>Nano Energy</i> , 2020 , 73, 104748	17.1	28
113	Fe ₃ O ₄ /Au/Fe ₃ O ₄ nanoflowers exhibiting tunable saturation magnetization and enhanced bioconjugation. <i>Nanoscale</i> , 2012 , 4, 747-51	7.7	28
112	Fusion of Slippery Interfaces and Transistor-Inspired Architecture for Water Kinetic Energy Harvesting. <i>Joule</i> , 2020 , 4, 2527-2531	27.8	28
111	Microfluidics Assisted Fabrication of Three-Tier Hierarchical Microparticles for Constructing Bioinspired Surfaces. <i>ACS Nano</i> , 2019 , 13, 3638-3648	16.7	27
110	Interfacial Laser-Induced Graphene Enabling High-Performance Liquid-Solid Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2021 , 33, e2104290	24	27
109	Harvesting ultralow frequency (Nano Energy, 2019 , 65, 104011	17.1	26
108	Macrottextures-induced jumping relay of condensate droplets. <i>Applied Physics Letters</i> , 2019 , 114, 093704	3.4	25
107	Breakdown in the directional transport of droplets on the peristome of pitcher plants. <i>Communications Physics</i> , 2018 , 1,	5.4	25
106	A fluorinated polymer sponge with superhydrophobicity for high-performance biomechanical energy harvesting. <i>Nano Energy</i> , 2021 , 85, 106021	17.1	25
105	Toward advanced sodium-ion batteries: a wheel-inspired yolk-shell design for large-volume-change anode materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13153-13163	13	24

104	Hierarchically Hollow Microfibers as a Scalable and Effective Thermal Insulating Cooler for Buildings. <i>ACS Nano</i> , 2021 , 15, 10076-10083	16.7	24
103	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56060-56067	9.5	23
102	Inhibiting Random Droplet Motion on Hot Surfaces by Engineering Symmetry-Breaking Janus-Mushroom Structure. <i>Advanced Materials</i> , 2020 , 32, e1907999	24	23
101	Highly efficient thermogenesis from Fe ₃ O ₄ nanoparticles for thermoplastic material repair both in air and underwater. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1221-1232	13	22
100	In situ reduction of silver nanoparticles on hybrid polydopamine-copper phosphate nanoflowers with enhanced antimicrobial activity. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5311-5317	7.3	22
99	Beetle and cactus-inspired surface endows continuous and directional droplet jumping for efficient water harvesting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1507-1516	13	22
98	Electronic Skin from High-Throughput Fabrication of Intrinsically Stretchable Lead Zirconate Titanate Elastomer. <i>Research</i> , 2020 , 2020, 1085417	7.8	21
97	Superhydrophobic porous networks for enhanced droplet shedding. <i>Scientific Reports</i> , 2016 , 6, 33817	4.9	20
96	Supercapillary Architecture-Activated Two-Phase Boundary Layer Structures for Highly Stable and Efficient Flow Boiling Heat Transfer. <i>Advanced Materials</i> , 2020 , 32, e1905117	24	20
95	On-site formation of emulsions by controlled air plugs. <i>Small</i> , 2014 , 10, 758-65	11	19
94	A silicon micromachined shock accelerometer with twin-mass-plate structure. <i>Sensors and Actuators A: Physical</i> , 2003 , 107, 50-56	3.9	19
93	Crack engineering for the construction of arbitrary hierarchical architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23909-23914	11.5	18
92	Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling.. <i>Nature</i> , 2022 , 601, 568-572	20.4	18
91	Improved dynamic stability of superomniphobic surfaces and droplet transport on slippery surfaces by dual-scale re-entrant structures. <i>Chemical Engineering Journal</i> , 2020 , 394, 124871	14.7	18
90	-like slippery surface with stable and mobile water/air contact line. <i>National Science Review</i> , 2021 , 8, nwaad183	18.3	17
89	Protein-Substrate Adhesion in Microcontact Printing Regulates Cell Behavior. <i>Langmuir</i> , 2018 , 34, 1750-1759	17.5	16
88	Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator. <i>EcoMat</i> , 2021 , 3, e12116	9.4	16
87	Macrottextures-enabled self-propelling of large condensate droplets. <i>Chemical Engineering Journal</i> , 2021 , 405, 126901	14.7	16

86	Rectification of Mobile Leidenfrost Droplets by Planar Ratchets. <i>Small</i> , 2020 , 16, e1901751	11	15
85	How Universal Is the Wetting Aging in 2D Materials. <i>Nano Letters</i> , 2020 , 20, 5670-5677	11.5	14
84	Electrostatic tweezer for droplet manipulation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	14
83	Patterned Amyloid Materials Integrating Robustness and Genetically Programmable Functionality. <i>Nano Letters</i> , 2019 , 19, 8399-8408	11.5	13
82	Droplet dynamics on slippery surfaces: small droplet, big impact. <i>Biosurface and Biotribology</i> , 2019 , 5, 35-45	1	13
81	Design of ultra-stretchable, highly adhesive and self-healable hydrogels tannic acid-enabled dynamic interactions. <i>Materials Horizons</i> , 2021 , 8, 3409-3416	14.4	13
80	Multi-bioinspired self-cleaning energy-free cooling coatings. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24276-24282	13	13
79	Single-Crystalline UiO-67-Type Porous Network Stable to Boiling Water, Solvent Loss, and Oxidation. <i>Inorganic Chemistry</i> , 2018 , 57, 6198-6201	5.1	13
78	A bulk effect liquid-solid generator with 3D electrodes for wave energy harvesting. <i>Nano Energy</i> , 2021 , 87, 106218	17.1	13
77	Suppression of composite nanoparticle aggregation through steric stabilization and ligand exchange for colorimetric protein detection. <i>RSC Advances</i> , 2013 , 3, 9681	3.7	12
76	Transfer-Free PZT Thin Films for Flexible Nanogenerators Derived from a Single-Step Modified Sol-Gel Process on 2D Mica. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54991-54999	9.5	12
75	Horizontal Motion of a Superhydrophobic Substrate Affects the Drop Bouncing Dynamics. <i>Physical Review Letters</i> , 2021 , 126, 234503	7.4	12
74	Dynamic control of droplet jumping by tailoring nanoparticle concentrations. <i>Applied Physics Letters</i> , 2016 , 109, 021601	3.4	12
73	Robust liquid repellency by stepwise wetting resistance. <i>Applied Physics Reviews</i> , 2021 , 8, 031403	17.3	12
72	Microflower-Decorated Superhydrophobic Copper Surface for Dry Condensation. <i>Langmuir</i> , 2019 , 35, 16275-16280	4	11
71	Single wafer fabrication of a symmetric double-sided beam mass structure using DRIE and wet etching by a novel vertical sidewall protection technique. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 115009	2	11
70	Pressure control model for transport of liquid mercury in carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 144105	3.4	11
69	Rapid and Persistent Suction Condensation on Hydrophilic Surfaces for High-Efficiency Water Collection. <i>Nano Letters</i> , 2021 , 21, 7411-7418	11.5	11

68	Nature-inspired surface topography: design and function. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	11
67	Electrohydrodynamic and Hydroelectric Effects at the Water/Solid Interface: from Fundamentals to Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2000670	4.6	11
66	Biocompatible Vibration-Actuated Omni-Droplets Rectifier with Large Volume Range Fabricated by Femtosecond Laser. <i>Advanced Materials</i> , 2021 , e2108567	24	10
65	Skin-Like Strain Sensors Enabled by Elastomer Composites for Human/Machine Interfaces. <i>Coatings</i> , 2020 , 10, 711	2.9	10
64	Monitoring the intracellular calcium response to a dynamic hypertonic environment. <i>Scientific Reports</i> , 2016 , 6, 23591	4.9	10
63	Theoretical investigation and experimental verification of the self-powered acceleration sensor based on triboelectric nanogenerators (TEENGs). <i>Extreme Mechanics Letters</i> , 2021 , 42, 101021	3.9	10
62	A novel, flexible dual-mode power generator adapted for wide dynamic range of the aqueous salinity. <i>Nano Energy</i> , 2021 , 85, 105970	17.1	10
61	Achievement of safer palladium nanocrystals by enlargement of {100} crystallographic facets. <i>Nanotoxicology</i> , 2017 , 11, 907-922	5.3	9
60	Preparation of nanoscale liquid metal droplet wrapped with chitosan and its tribological properties as water-based lubricant additive. <i>Tribology International</i> , 2020 , 148, 106349	4.9	9
59	Controlled cell patterning on bioactive surfaces with special wettability. <i>Journal of Bionic Engineering</i> , 2017 , 14, 440-447	2.7	9
58	Digital microfluidic meter-on-chip. <i>Lab on A Chip</i> , 2020 , 20, 722-733	7.2	9
57	Surface charges as a versatile platform for emerging applications. <i>Science Bulletin</i> , 2020 , 65, 1052-1054	10.6	9
56	Direct ink writing of fluoropolymer/CNT-based superhydrophobic and corrosion-resistant electrodes for droplet energy harvesters and self-powered electronic skins. <i>Nano Energy</i> , 2021 , 86, 106095	17.1	9
55	Pancake Jumping of Sessile Droplets.. <i>Advanced Science</i> , 2022 , e2103834	13.6	8
54	Toward Self-Powered Inertial Sensors Enabled by Triboelectric Effect. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3072-3087	4	8
53	A flexible and lead-free BCZT thin film nanogenerator for biocompatible energy harvesting. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4682-4689	7.8	8
52	3D Printed, Solid-State Conductive Ionoelastomer as a Generic Building Block for Tactile Applications. <i>Advanced Materials</i> , 2021 , e2105996	24	7
51	Instant and Strong Underwater Adhesion by Coupling Hygroscopicity and In Situ Photocuring. <i>Chemistry of Materials</i> , 2021 , 33, 8822-8830	9.6	7

50	Mangrove Inspired Anti-Corrosion Coatings. <i>Coatings</i> , 2019 , 9, 725	2.9	7
49	Robust Icephobic Performance of Flexible Needles. <i>ChemNanoMat</i> , 2019 , 5, 175-180	3.5	7
48	A leaf-mimic rain energy harvester by liquid-solid contact electrification and piezoelectricity. <i>Nano Energy</i> , 2021 , 90, 106573	17.1	7
47	Complete Prevention of Contact Electrification by Molecular Engineering. <i>Matter</i> , 2021 , 4, 290-301	12.7	7
46	Self-Powered Multifunction Ionic Skins Based on Gradient Polyelectrolyte Hydrogels.. <i>ACS Nano</i> , 2022 ,	16.7	7
45	Filmwise-to-Dropwise Condensation Transition Enabled by Patterned High Wetting Contrast. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	6
44	Publisher's Note: Evaporation of Droplets on Superhydrophobic Surfaces: Surface Roughness and Small Droplet Size Effects [Phys. Rev. Lett. 109, 116101 (2012)]. <i>Physical Review Letters</i> , 2012 , 109,	7.4	6
43	Electrically Controlled Wetting and Dewetting Transition on Silicon Micro-Pillar Arrays. <i>Advanced Science Letters</i> , 2008 , 1, 222-225	0.1	6
42	Explosive Pancake Bouncing on Hot Superhydrophilic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24321-24328	9.5	6
41	Counterintuitive Ballistic and Directional Liquid Transport on a Flexible Droplet Rectifier. <i>Research</i> , 2020 , 2020, 6472313	7.8	5
40	Pressure-Sensitive Adhesive with Enhanced and Phototunable Underwater Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50451-50460	9.5	5
39	Corrosion protection of Aluminium Alloy 2024 through an epoxy coating embedded with smart microcapsules: The responses of smart microcapsules to corrosive entities. <i>Corrosion Communications</i> , 2021 , 1, 1-9		5
38	Condensation frosting and passive anti-frosting. <i>Cell Reports Physical Science</i> , 2021 , 2, 100474	6.1	5
37	Genotyping of Multiple Clinical Samples with a Combined Direct PCR and Magnetic Lateral Flow Assay. <i>iScience</i> , 2018 , 7, 170-179	6.1	5
36	Water Purification/Harvesting: Harnessing Solar-Driven Photothermal Effect toward the Water-Energy Nexus (Adv. Sci. 18/2019). <i>Advanced Science</i> , 2019 , 6, 1970111	13.6	4
35	Evaporation of Condensate Droplets on Structured Surfaces with Gradient Roughness. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	4
34	Superhydrophobic and superoleophilic PH-CNT membrane for emulsified oil-water separation. <i>Desalination</i> , 2022 , 526, 115536	10.3	4
33	Flexible topological liquid diode catheter. <i>Materials Today Physics</i> , 2020 , 12, 100170	8	4

32	Directional Liquid Transport from the Cold Region to the Hot Region on a Topological Surface. <i>Langmuir</i> , 2021 , 37, 5059-5065	4	4
31	Bioinspired Materials: Bioinspired Interfacial Materials with Enhanced Drop Mobility: From Fundamentals to Multifunctional Applications (Small 14/2016). <i>Small</i> , 2016 , 12, 1824-1824	11	4
30	New approach for efficient condensation heat transfer. <i>National Science Review</i> , 2019 , 6, 185-186	10.8	4
29	Strengthening unidirectional liquid pumping using multi-biomimetic structures. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101144	3.9	4
28	Modulation of solid surface with desirable under-liquid wettability based on molecular hydrophilic-lipophilic balance. <i>Chemical Science</i> , 2021 , 12, 6136-6142	9.4	4
27	In situ Reduction of Silver Nanoparticles on Chitosan Hybrid Copper Phosphate Nanoflowers for Highly Efficient Plasmonic Solar-driven Interfacial Water Evaporation. <i>Journal of Bionic Engineering</i> , 2021 , 18, 30-39	2.7	4
26	Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing. <i>Nano Energy</i> , 2022 , 99, 107442	17.1	4
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