

Feng Zhou

List of Publications by Year in descending order

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550
papers

30,944
citations

3874

91
h-index

10679

143
g-index

564
all docs

564
docs citations

564
times ranked

29969
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable dispersibility of bentonite-type additive with gemini ionic liquid intercalation structure for oil-based drilling. <i>Friction</i> , 2023, 11, 201-215.	3.4	6
2	An overview of functional biolubricants. <i>Friction</i> , 2023, 11, 23-47.	3.4	7
3	Dopamine-triggered one-step functionalization of hollow silica nanospheres for simultaneous lubrication and drug release. <i>Friction</i> , 2023, 11, 410-424.	3.4	6
4	Fibers reinforced composite hydrogels with improved lubrication and load-bearing capacity. <i>Friction</i> , 2022, 10, 54-67.	3.4	24
5	Constructing a biomimetic robust bi-layered hydrophilic lubrication coating on surface of silicone elastomer. <i>Friction</i> , 2022, 10, 1046-1060.	3.4	21
6	Bio-inspired smart surface to achieve controllable locomotion through adjustable anisotropic friction. <i>Friction</i> , 2022, 10, 1180-1191.	3.4	4
7	Self-lubricating interpenetrating polymer networks with functionalized nanoparticles enhancement for quasi-static and dynamic antifouling. <i>Chemical Engineering Journal</i> , 2022, 429, 132300.	6.6	15
8	Polymer-based lubricating materials for functional hydration lubrication. <i>Chemical Engineering Journal</i> , 2022, 429, 132324.	6.6	45
9	Self-healing polydimethylsiloxane antifouling coatings based on zwitterionic polyethylenimine-functionalized gallium nanodroplets. <i>Chemical Engineering Journal</i> , 2022, 427, 131019.	6.6	56
10	Anomalous boundary behavior of non-Newtonian fluids on amphiphobic surfaces. <i>Tribology International</i> , 2022, 165, 107261.	3.0	4
11	Supramolecular assembly inspired molecular engineering to dynamically tune non-Newtonian fluid: from quasi-static flowability-free to shear thickening. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1805-1812.	5.0	0
12	Dynamic oil gels constructed by 1,2-dithiolane-containing telechelic polymers: An efficient and versatile platform for fabricating polymer-inorganic composites toward tribological applications. <i>Chemical Engineering Journal</i> , 2022, 430, 133097.	6.6	12
13	Surface engineering and on-site charge neutralization for the regulation of contact electrification. <i>Nano Energy</i> , 2022, 91, 106687.	8.2	6
14	Multi-layer Printable Lithium Ion Micro-Batteries with Remarkable Areal Energy Density and Flexibility for Wearable Smart Electronics. <i>Small</i> , 2022, 18, e2104506.	5.2	13
15	Metal-Organic Frameworks-Based Fabry-Pérot Cavity Encapsulated TiO ₂ Nanoparticles for Selective Chemical Sensing. <i>Advanced Functional Materials</i> , 2022, 32, 2109541.	7.8	17
16	Enhanced lubricity and anti-wear performance of zwitterionic polymer-modified N-enriched porous carbon nanosheets as water-based lubricant additive. <i>Tribology International</i> , 2022, 167, 107421.	3.0	42
17	One-step zwitterionization and quaternization of thick PDMAEMA layer grafted through subsurface-initiated ATRP for robust antibiofouling and antibacterial coating on PDMS. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 234-245.	5.0	22
18	A Universal Strategy for Growing a Tenacious Hydrogel Coating from a Sticky Initiation Layer. <i>Advanced Materials</i> , 2022, 34, e2108889.	11.1	45

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19	Modulus adaptive lubricating prototype inspired by instant muscle hardening mechanism of catfish skin. <i>Nature Communications</i> , 2022, 13, 377.	5.8	47
20	Continuously growing multi-layered hydrogel structures with seamless interlocked interface. <i>Matter</i> , 2022, 5, 634-653.	5.0	32
21	Durable self-polishing antifouling coating based on fluorine-containing pyrrolidone amphiphilic copolymer-functionalized nanosilica. <i>Progress in Organic Coatings</i> , 2022, 165, 106706.	1.9	11
22	Super-lubricating hybrid elastomer with rapid photothermal sterilization and strong anti-cell adhesion. <i>Chemical Engineering Journal</i> , 2022, 434, 134763.	6.6	12
23	Nitrogen-doped porous carbon nanospheres derived from hyper-crosslinked polystyrene as lubricant additives for friction and wear reduction. <i>Tribology International</i> , 2022, 169, 107458.	3.0	36
24	Bioinspired Design of a Cartilage-like Lubricated Composite with Mechanical Robustness. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9899-9908.	4.0	28
25	Bio-Tribology and Corrosion Behaviors of a Si- and N-Incorporated Diamond-like Carbon Film: A New Class of Protective Film for Ti6Al4V Artificial Implants. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1166-1180.	2.6	7
26	Organic-Inorganic Hybrid Polysiloxane Brushes with Improved Lubrication and Load-Bearing Capacity. <i>Langmuir</i> , 2022, 38, 2832-2839.	1.6	4
27	Macro-superlubric triboelectric nanogenerator based on tribovoltaic effect. <i>Matter</i> , 2022, 5, 1532-1546.	5.0	40
28	Molecular Engineering Super-Robust Dry/Wet Adhesive with Strong Interface Bonding and Excellent Mechanical Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12684-12692.	4.0	9
29	Bioinspired Polysaccharide-Derived Zwitterionic Brush-like Copolymer as an Injectable Biolubricant for Arthritis Treatment. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200090.	3.9	16
30	Fluoropolymer grafted Ti3C2Tx MXene as an efficient lubricant additive for fluorine-containing lubricating oil. <i>Tribology International</i> , 2022, 170, 107500.	3.0	30
31	Reversing Hydrogel Adhesion Property via Firmly Anchoring Thin Adhesive Coatings. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
32	Growing Hydrogel Organ Mannequins with Interconnected Cavity Structures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
33	Material Strategies for Ice Accretion Prevention and Easy Removal. , 2022, 4, 246-262.		38
34	Toward a Multifunctional Light-Driven Biomimetic Mudskipper-Like Robot for Various Application Scenarios. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20291-20302.	4.0	25
35	Brush-like Amphiphilic Polymer for Environmental Adaptive Coating. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18901-18909.	4.0	8
36	Repeatedly Regenerating Mechanically Robust Polymer Brushes from Persistent Initiator Coating (PIC). <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11

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37	Repeatedly Regenerating Mechanically Robust Polymer Brushes from Persistent Initiator Coating (PIC). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
38	Water-in-Salt Ambipolar Redox Electrolyte Extraordinarily Boosting High Pseudocapacitive Performance of Micro-supercapacitors. <i>ACS Energy Letters</i> , 2022, 7, 1706-1711.	8.8	16
39	Effects of structure relaxation and surface oxidation on nanoscopic wear behaviors of metallic glass. <i>Acta Materialia</i> , 2022, 232, 117934.	3.8	62
40	Comparative Study on Macro-Tribological Properties of PLL-g-PEG and PSPMA Polymer Brushes. <i>Polymers</i> , 2022, 14, 1917.	2.0	6
41	Bioinspired zwitterionic dopamine-functionalized liquid-metal nanodroplets for antifouling application. <i>Progress in Organic Coatings</i> , 2022, 169, 106922.	1.9	6
42	Self-Assembled Organic-Inorganic Hybrid Coating with Anti-Icing and Anti-Waxing Performances by Grafting Liquid-Like Polydimethylsiloxane. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	14
43	Fabrication of polyelectrolyte brush-functionalized two-dimensional covalent organic frameworks as additives for aqueous lubricants. <i>Tribology International</i> , 2022, 174, 107737.	3.0	16
44	Construction of Core-Shell NanoMOFs@microgel for Aqueous Lubrication and Thermal-Responsive Drug Release. <i>Small</i> , 2022, 18, .	5.2	33
45	Functionalized Ti ₃ C ₂ T _x -based nanocomposite coatings for anticorrosion and antifouling applications. <i>Chemical Engineering Journal</i> , 2022, 448, 137668.	6.6	32
46	Quantifying Wetting Dynamics with Triboelectrification. <i>Advanced Science</i> , 2022, 9, .	5.6	6
47	Biomechanically Compatible Hydrogel Bioprosthetic Valves. <i>Chemistry of Materials</i> , 2022, 34, 6129-6141.	3.2	15
48	POSS-based ionic liquid lubricants with excellent resistance to atomic oxygen irradiation. <i>Tribology International</i> , 2022, 175, 107788.	3.0	3
49	Lignin composite ionic liquid lubricating material as a water-based lubricating fluid additive with excellent lubricating, anti-wear and anti-corrosion properties. <i>Tribology International</i> , 2022, 174, 107742.	3.0	14
50	Instantaneous drag increase on alternate transverse superhydrophobic strips. <i>Tribology International</i> , 2021, 153, 106613.	3.0	2
51	Physicochemical and tribological properties of gemini-type halogen-free dicationic ionic liquids. <i>Friction</i> , 2021, 9, 344-355.	3.4	24
52	Conductive elastic sponge-based triboelectric nanogenerator (TENG) for effective random mechanical energy harvesting and ammonia sensing. <i>Nano Energy</i> , 2021, 79, 105422.	8.2	67
53	Significantly enhancing lubricity and anti-wear performances of glycerol lubricant with urea-functionalized imidazolium-organophosphate ionic liquid as additive. <i>Tribology International</i> , 2021, 153, 106602.	3.0	18
54	Tribological performance and lubrication mechanism of new gemini quaternary phosphonium ionic liquid lubricants. <i>Journal of Molecular Liquids</i> , 2021, 322, 114522.	2.3	19

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55	Molecular dynamics simulations of adsorption behavior of organic friction modifiers on hydrophilic silica surfaces under the effects of surface coverage and contact pressure. <i>Tribology International</i> , 2021, 156, 106826.	3.0	24
56	Gelation mechanism and tribological performances of two-component cholesterol-based supramolecular gel lubricant. <i>Tribology International</i> , 2021, 155, 106777.	3.0	10
57	Supramolecular PFPE gel lubricant with anti-creep capability under irradiation conditions at high vacuum. <i>Chemical Engineering Journal</i> , 2021, 409, 128120.	6.6	21
58	The effect of chemical structure on the tribological performance of perfluorosulfonate IIs as lubricants for Ti-6Al-4V tribopairs. <i>Journal of Molecular Liquids</i> , 2021, 321, 114286.	2.3	12
59	A high-performance rocking-chair lithium-ion battery-supercapacitor hybrid device boosted by doubly matched capacity and kinetics of the faradaic electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 2269-2277.	15.6	63
60	Temperature-Responsive Nanofibrous Membranes Fabricated by Subsurface-Initiated Atom Transfer Radical Polymerization for Controllable Oil/Water Separation. <i>Acta Chimica Sinica</i> , 2021, 79, 353.	0.5	2
61	Metal-Organic Framework-Derived CuS Nanocages for Selective CO ₂ Electroreduction to Formate. <i>CCS Chemistry</i> , 2021, 3, 199-207.	4.6	23
62	New Hydrogen Bonding Enhanced Polyvinyl Alcohol Based Self-Charged Medical Mask with Superior Charge Retention and Moisture Resistance Performances. <i>Advanced Functional Materials</i> , 2021, 31, 2009172.	7.8	83
63	Reversible Temperature-Sensitive Liquid-Solid Triboelectrification with Polycaprolactone Material for Wetting Monitoring and Temperature Sensing. <i>Advanced Functional Materials</i> , 2021, 31, 2010220.	7.8	32
64	Manipulating Electrical Properties of Silica-Based Materials via Atomic Oxygen Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15344-15352.	4.0	13
65	High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System. <i>Advanced Energy Materials</i> , 2021, 11, 2003835.	10.2	53
66	Robust Hybrid Omniphobic Surface for Stain Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14562-14568.	4.0	19
67	Gecko's Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. <i>Chemistry of Materials</i> , 2021, 33, 2785-2795.	3.2	48
68	Concealed Wireless Warning Sensor Based on Triboelectrification and Human-Plant Interactive Induction. <i>Research</i> , 2021, 2021, 9870936.	2.8	15
69	Micro-Supercapacitors: High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System (<i>Adv. Energy Mater.</i> 17/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170065.	10.2	0
70	High performance lubricants prepared from Naphthalene-1,4,5,8-Tetracarboxylic acid: Synthesis, physicochemical and Tribological properties. <i>Journal of Molecular Liquids</i> , 2021, 330, 115609.	2.3	1
71	Graphene oxide/brush-like polysaccharide copolymer nanohybrids as eco-friendly additives for water-based lubrication. <i>Tribology International</i> , 2021, 157, 106895.	3.0	26
72	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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73	3D-Printed Electromagnetic Actuator for Bionic Swimming Robot. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6579-6587.	1.2	11
74	Construction of Functional Superhydrophobic Biochars as Hydrogen Transfer Catalysts for Dehydrogenation of <i>N</i> -Heterocycles. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9062-9077.	3.2	7
75	Ester Oils Prepared from Fully Renewable Resources and Their Lubricant Base Oil Properties. <i>ACS Omega</i> , 2021, 6, 16343-16355.	1.6	10
76	Hydrogen bonding induced enhancement for constructing anisotropic sugarcane composite hydrogels. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51374.	1.3	6
77	Improving Anti-Icing and De-Icing Performances via Thermal-Regulation with Macroporous Xerogel. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37609-37616.	4.0	34
78	All-Day Anti-Icing/De-Icing Coating by Solar-Thermal and Electric-Thermal Effects. <i>Advanced Materials Technologies</i> , 2021, 6, 2100371.	3.0	49
79	Robust Superlubricity and Moiré Lattice's Size Dependence on Friction between Graphdiyne Layers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40901-40908.	4.0	12
80	Controlling the tribological behavior at the friction interface by regulating the triboelectrification. <i>Nano Energy</i> , 2021, 87, 106183.	8.2	17
81	Imparting Strong Antifouling Properties to the Transparent PVB Coating through the Zwitterionic Compound Condensation. <i>Coatings</i> , 2021, 11, 1164.	1.2	1
82	Synthesis of charged chitosan nanoparticles as functional biolubricant. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111973.	2.5	18
83	Physicochemical and tribological performances of GAILs as lubricants for copper and aluminum friction counterfaces. <i>Journal of Molecular Liquids</i> , 2021, 342, 117371.	2.3	0
84	Functionalized phosphate ionic liquids as additives in PEG with excellent tribological properties for boundary/mixed/elastohydrodynamic lubrication. <i>Tribology International</i> , 2021, 164, 107242.	3.0	8
85	Complete Prevention of Contact Electrification by Molecular Engineering. <i>Matter</i> , 2021, 4, 290-301.	5.0	19
86	An effective strategy for hydrogen supply: catalytic acceptorless dehydrogenation of <i>N</i> -heterocycles. <i>Catalysis Science and Technology</i> , 2021, 11, 3990-4007.	2.1	15
87	Near-Infrared-Light-Modulated Lubricating Coating Enabled by Photothermal Microgels. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49322-49330.	4.0	17
88	Transparent Janus Hydrogel Wet Adhesive for Underwater Self-Cleaning. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50505-50515.	4.0	30
89	Green plant-based triboelectricity system for green energy harvesting and contact warning. <i>EcoMat</i> , 2021, 3, e12145.	6.8	13
90	Esophagus-Inspired Actuator for Solid Transportation via the Synergy of Lubrication and Contractile Deformation. <i>Advanced Science</i> , 2021, 8, e2102800.	5.6	10

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91	A sandcastle worm-inspired strategy to functionalize wet hydrogels. <i>Nature Communications</i> , 2021, 12, 6331.	5.8	27
92	MoS ₂ Lubricating Film Meets Supramolecular Gel: A Novel Composite Lubricating System for Space Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58036-58047.	4.0	24
93	Exploration on Aqueous Lubrication of Polymeric Microgels between Titanium Alloy Contacts. <i>ACS Omega</i> , 2021, 6, 32178-32185.	1.6	4
94	Scalable fabrication of printed Zn//MnO ₂ planar micro-batteries with high volumetric energy density and exceptional safety. <i>National Science Review</i> , 2020, 7, 64-72.	4.6	148
95	Lubricating properties of ester oil prepared from bio-based 2,5-furandicarboxylic acid. <i>Friction</i> , 2020, 8, 360-369.	3.4	12
96	Towards superior lubricity and anticorrosion performances of proton-type ionic liquids additives for water-based lubricating fluids. <i>Chemical Engineering Journal</i> , 2020, 383, 123201.	6.6	88
97	The ecotoxicity and tribological properties of choline monocarboxylate ionic liquid lubricants. <i>Lubrication Science</i> , 2020, 32, 1-9.	0.9	2
98	A simple construction strategy for fabrication of sulfur-doped silicate materials from attapulgite. <i>New Journal of Chemistry</i> , 2020, 44, 401-414.	1.4	4
99	Bioinspired synthetic wet adhesives: from permanent bonding to reversible regulation. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 47, 84-98.	3.4	26
100	Significantly Reducing Friction and Wear of Water-Based Fluids with Shear Thinning Bicomponent Supramolecular Hydrogels. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001084.	1.9	10
101	3D Printing of High-Performance Isocyanate Ester Thermosets. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000397.	1.7	16
102	Regulation and influence factors of triboelectricity at the solid-liquid interface. <i>Nano Energy</i> , 2020, 78, 105370.	8.2	58
103	Self-polishing emulsion platforms: Eco-friendly surface engineering of coatings toward water borne marine antifouling. <i>Progress in Organic Coatings</i> , 2020, 149, 105945.	1.9	13
104	Extremely Tough Hydrogels with Cotton Fibers Reinforced. <i>Advanced Engineering Materials</i> , 2020, 22, 2000508.	1.6	12
105	Biofilm material based triboelectric nanogenerator with high output performance in 95% humidity environment. <i>Nano Energy</i> , 2020, 77, 105088.	8.2	57
106	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. <i>Science Advances</i> , 2020, 6, .	4.7	124
107	3D Printing of Dual-Physical Cross-linking Hydrogel with Ultrahigh Strength and Toughness. <i>Chemistry of Materials</i> , 2020, 32, 9983-9995.	3.2	89
108	Enhancement of the ballistic performance of aramid fabric with polyurethane and shear thickening fluid. <i>Materials and Design</i> , 2020, 196, 109015.	3.3	33

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109	High Lubricity Meets Load Capacity: Cartilage Mimicking Bilayer Structure by Brushing Up Stiff Hydrogels from Subsurface. <i>Advanced Functional Materials</i> , 2020, 30, 2004062.	7.8	118
110	Effect of Electric Potential and Chain Length on Tribological Performances of Ionic Liquids as Additives for Aqueous Systems and Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39910-39919.	4.0	48
111	Subsurface-initiated atom transfer radical polymerization: effect of graft layer thickness and surface morphology on antibiofouling properties against different foulants. <i>Journal of Materials Science</i> , 2020, 55, 14544-14557.	1.7	7
112	Layered Hydrogel with Controllable Surface Dissociation for Durable Lubrication. <i>Chemistry of Materials</i> , 2020, 32, 7805-7813.	3.2	36
113	Robust Photothermal Coating Strategy for Efficient Ice Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46981-46990.	4.0	89
114	MOF-aided topotactic transformation into nitrogen-doped porous Mo ₂ C mesocrystals for upgrading the pH-universal hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20429-20435.	5.2	24
115	Facile Preparation and Tribological Properties of Water-Based Naphthalene Dicarboxylate Ionic Liquid Lubricating Additives. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	11
116	Natural Product Inspired Environmentally Friendly Strategy Based on Dopamine Chemistry toward Sustainable Marine Antifouling. <i>ACS Omega</i> , 2020, 5, 21524-21530.	1.6	7
117	Surface functionalization "a new functional dimension added to 3D printing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12380-12411.	2.7	36
118	Cartilage Mimics Adaptive Lubrication. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51114-51121.	4.0	28
119	Embedded polyzwitterionic brush-modified nanofibrous membrane through subsurface-initiated polymerization for highly efficient and durable oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 388-398.	5.0	41
120	Polystyrene Nanospheres Modified with a Hydrophilic Polymer Brush through Subsurface-Initiated Atom Transfer Radical Polymerization as Biolubricating Additive. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000135.	1.7	15
121	Mussel-inspired hydrogels: from design principles to promising applications. <i>Chemical Society Reviews</i> , 2020, 49, 3605-3637.	18.7	346
122	3D printing of metal-organic frameworks decorated hierarchical porous ceramics for high-efficiency catalytic degradation. <i>Chemical Engineering Journal</i> , 2020, 397, 125392.	6.6	86
123	New Self-Healing Triboelectric Nanogenerator Based on Simultaneous Repair Friction Layer and Conductive Layer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30390-30398.	4.0	53
124	Zn ²⁺ /ion Batteries: 2D Amorphous V ₂ O ₅ /Graphene Heterostructures for High-Safety Aqueous Zn ²⁺ /ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability (Adv. Tj ETQ 0.0 0 rg BT /Overlo	10.2	256
125	Solvent-driven migration of highly polar monomers into hydrophobic PDMS produces a thick graft layer via subsurface initiated ATRP for efficient antibiofouling. <i>Chemical Communications</i> , 2020, 56, 5030-5033.	2.2	10
126	2D Amorphous V ₂ O ₅ /Graphene Heterostructures for High-Safety Aqueous Zn ²⁺ /ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. <i>Advanced Energy Materials</i> , 2020, 10, 2000081.	10.2	256

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127	Superhydrophobic nickel/carbon core-shell nanocomposites for the hydrogen transfer reactions of nitrobenzene and N-heterocycles. <i>Green Chemistry</i> , 2020, 22, 1996-2010.	4.6	26
128	Understanding Adsorption Behaviors of Organic Friction Modifiers on Hydroxylated SiO ₂ (001) Surfaces: Effects of Molecular Polarity and Temperature. <i>Langmuir</i> , 2020, 36, 8543-8553.	1.6	21
129	Improving the fretting biocorrosion of Ti6Al4V alloy bone screw by decorating structure optimised TiO ₂ nanotubes layer. <i>Journal of Materials Science and Technology</i> , 2020, 49, 47-55.	5.6	12
130	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <i>Energy and Environmental Science</i> , 2020, 13, 821-829.	15.6	82
131	In situ covalent bonding in polymerization to construct robust hydrogel lubrication coating on surface of silicone elastomer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124753.	2.3	15
132	Chameleon Luminophore for Erasable Encrypted and Decrypted Devices: From Dual-Channel, Programmable, Smart Sensory Lanthanide Hydrogel to Logic Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19955-19964.	4.0	39
133	Anisotropic Hydrogels with High Mechanical Strength by Stretching-Induced Oriented Crystallization and Drying. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2142-2150.	2.0	11
134	Ionic liquid lubricants: when chemistry meets tribology. <i>Chemical Society Reviews</i> , 2020, 49, 7753-7818.	18.7	220
135	Physicochemical and Tribological Performance of Bi-Component Supramolecular Gel Lubricants. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801391.	1.9	18
136	Facile preparation of structured zwitterionic polymer substrate via sub-surface initiated atom transfer radical polymerization and its synergistic marine antifouling investigation. <i>European Polymer Journal</i> , 2019, 112, 146-152.	2.6	48
137	New Method for the Corrosion Resistance of AZ31 Mg Alloy with a Porous Micro-Arc Oxidation Membrane as an Ionic Corrosion Inhibitor Container. <i>Langmuir</i> , 2019, 35, 1134-1145.	1.6	62
138	Synthesizing Functional Biomacromolecular Wet Adhesives with Typical Gel-Sol Transition and Shear-Thinning Features. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4293-4301.	2.6	13
139	Goosebumps-Inspired Microgel Patterns with Switchable Adhesion and Friction. <i>Small</i> , 2019, 15, 1902376.	5.2	17
140	Enhancing the Performance of Textile Triboelectric Nanogenerators with Oblique Microrod Arrays for Wearable Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26824-26829.	4.0	43
141	Adaptive control in lubrication, adhesion, and hemostasis by Chitosan-Catechol-pNIPAM. <i>Biomaterials Science</i> , 2019, 7, 3599-3608.	2.6	32
142	Mussel-Inspired Two-Dimensional Freestanding Alkyl-Polydopamine Janus Nanosheets. <i>Angewandte Chemie</i> , 2019, 131, 12146-12150.	1.6	1
143	Mussel-Inspired Two-Dimensional Freestanding Alkyl-Polydopamine Janus Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12018-12022.	7.2	49
144	First-Principles Delimitation of the Boundary between Intralayer and Interlayer in Two-Dimensional Structures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26912-26920.	1.5	19

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145	Drawing High-Definition and Reversible Hydrogel Paintings with Grayscale Exposure. ACS Applied Materials & Interfaces, 2019, 11, 42586-42593.	4.0	21
146	Goosebumps: Goosebumps-Inspired Microgel Patterns with Switchable Adhesion and Friction (Small) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	6
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149	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. Advanced Functional Materials, 2019, 29, 1902860.	7.8	104
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