

Feng Zhou

List of Publications by Year in descending order

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550
papers

30,944
citations

3325

91
h-index

9311

143
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564
all docs

564
docs citations

564
times ranked

26110
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired catecholic chemistry for surface modification. <i>Chemical Society Reviews</i> , 2011, 40, 4244.	18.7	1,067
2	Ionic liquid lubricants: designed chemistry for engineering applications. <i>Chemical Society Reviews</i> , 2009, 38, 2590.	18.7	921
3	Molecularly Engineered Dual-Crosslinked Hydrogel with Ultrahigh Mechanical Strength, Toughness, and Good Self-Recovery. <i>Advanced Materials</i> , 2015, 27, 2054-2059.	11.1	711
4	Stable Biomimetic Super-Hydrophobic Engineering Materials. <i>Journal of the American Chemical Society</i> , 2005, 127, 15670-15671.	6.6	479
5	Bio-inspired reversible underwater adhesive. <i>Nature Communications</i> , 2017, 8, 2218.	5.8	353
6	Mussel-inspired hydrogels: from design principles to promising applications. <i>Chemical Society Reviews</i> , 2020, 49, 3605-3637.	18.7	346
7	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2017, 11, 7284-7292.	7.3	312
8	Mechanical properties and wear and corrosion resistance of electrodeposited Ni-Co/SiC nanocomposite coating. <i>Applied Surface Science</i> , 2006, 252, 3591-3599.	3.1	287
9	Material-Independent Surface Chemistry beyond Polydopamine Coating. <i>Accounts of Chemical Research</i> , 2019, 52, 704-713.	7.6	275
10	Surface grafted polymer brushes as ideal building blocks for "smart" surfaces. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3815-3823.	1.3	272
11	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2017, 6, 70-97.	9.5	260
12	2D Amorphous V ₂ O ₅ /Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. <i>Advanced Energy Materials</i> , 2020, 10, 2000081.	10.2	256
13	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. <i>Journal of the American Chemical Society</i> , 2018, 140, 8198-8205.	6.6	240
14	TiO ₂ Nanotubes with Tunable Morphology, Diameter, and Length: Synthesis and Photo-Electrical/Catalytic Performance. <i>Chemistry of Materials</i> , 2009, 21, 1198-1206.	3.2	238
15	Pdop layer exhibiting zwitterionicity: a simple electrochemical interface for governing ion permeability. <i>Chemical Communications</i> , 2010, 46, 5900.	2.2	237
16	Ionic liquid lubricants: when chemistry meets tribology. <i>Chemical Society Reviews</i> , 2020, 49, 7753-7818.	18.7	220
17	Tribological performance of phosphonium based ionic liquids for an aluminum-on-steel system and opinions on lubrication mechanism. <i>Wear</i> , 2006, 261, 1174-1179.	1.5	219
18	Extreme wettability and tunable adhesion: biomimicking beyond nature?. <i>Soft Matter</i> , 2012, 8, 2070-2086.	1.2	217

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19	Leaves based triboelectric nanogenerator (TENG) and TENG tree for wind energy harvesting. Nano Energy, 2019, 55, 260-268.	8.2	217
20	Self-healing superamphiphobicity. Chemical Communications, 2011, 47, 2324-2326.	2.2	212
21	Effect of the functional groups in ionic liquid molecules on the friction and wear behavior of aluminum alloy in lubricated aluminum-on-steel contact. Tribology International, 2005, 38, 725-731.	3.0	211
22	Highly Selective Uptake and Release of Charged Molecules by pH-Responsive Polydopamine Microcapsules. Macromolecular Bioscience, 2011, 11, 1227-1234.	2.1	201
23	Robust polydopamine nano/microcapsules and their loading and release behavior. Chemical Communications, 2009, , 6789.	2.2	195
24	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. Energy and Environmental Science, 2019, 12, 1534-1541.	15.6	192
25	Alumina nanowire forests via unconventional anodization and super-repellency plus low adhesion to diverse liquids. Chemical Communications, 2009, , 1043.	2.2	188
26	Molybdenum Phosphide/Carbon Nanotube Hybrids as pH-Universal Electrocatalysts for Hydrogen Evolution Reaction. Advanced Functional Materials, 2018, 28, 1706523.	7.8	185
27	Integration of Self-Lubrication and Near-Infrared Photothermogenesis for Excellent Anti-Icing/Deicing Performance. Advanced Functional Materials, 2015, 25, 4237-4245.	7.8	184
28	TiO ₂ nanotubes: Structure optimization for solar cells. Journal of Materials Chemistry, 2011, 21, 9406.	6.7	180
29	Multicomponent Polymer Brushes. Journal of the American Chemical Society, 2006, 128, 16253-16258.	6.6	177
30	A Novel Protocol Toward Perfect Alignment of Anodized TiO ₂ Nanotubes. Advanced Materials, 2009, 21, 1964-1967.	11.1	177
31	Electrochemically Mediated Atom Transfer Radical Polymerization on Nonconducting Substrates: Controlled Brush Growth through Catalyst Diffusion. Journal of the American Chemical Society, 2013, 135, 1708-1710.	6.6	176
32	Scalable Fabrication of Photochemically Reduced Graphene-Based Monolithic Micro-Supercapacitors with Superior Energy and Power Densities. ACS Nano, 2017, 11, 4283-4291.	7.3	176
33	Modification of carbon nanotubes with a nanothin polydopamine layer and polydimethylamino-ethyl methacrylate brushes. Carbon, 2010, 48, 2347-2353.	5.4	172
34	Imidazolium Ionic Liquids As Antiwear and Antioxidant Additive in Poly(ethylene glycol) for Steel/Steel Contacts. ACS Applied Materials & Interfaces, 2010, 2, 870-876.	4.0	170
35	Template-Free and Direct Electrochemical Deposition of Hierarchical Dendritic Gold Microstructures: Growth and Their Multiple Applications. Journal of Physical Chemistry C, 2010, 114, 15617-15624.	1.5	167
36	Adhesive Polydopamine Coated Avermectin Microcapsules for Prolonging Foliar Pesticide Retention. ACS Applied Materials & Interfaces, 2014, 6, 19552-19558.	4.0	166

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37	Highly Reversible and Multi-Stage Cantilever Actuation Driven by Polyelectrolyte Brushes. <i>Journal of the American Chemical Society</i> , 2006, 128, 5326-5327.	6.6	164
38	Matrix-Assisted Catalytic Printing for the Fabrication of Multiscale, Flexible, Foldable, and Stretchable Metal Conductors. <i>Advanced Materials</i> , 2013, 25, 3343-3350.	11.1	160
39	All-solid-state flexible planar lithium ion micro-capacitors. <i>Energy and Environmental Science</i> , 2018, 11, 2001-2009.	15.6	160
40	Dramatically Tuning Friction Using Responsive Polyelectrolyte Brushes. <i>Macromolecules</i> , 2013, 46, 9368-9379.	2.2	159
41	Brushing up from "anywhere" under sunlight: a universal surface-initiated polymerization from polydopamine-coated surfaces. <i>Chemical Science</i> , 2015, 6, 2068-2073.	3.7	158
42	Self-powered ammonia nanosensor based on the integration of the gas sensor and triboelectric nanogenerator. <i>Nano Energy</i> , 2018, 49, 31-39.	8.2	156
43	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
44	Electrochemically Induced Surface-Initiated Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5092-5095.	7.2	147
45	High output polypropylene nanowire array triboelectric nanogenerator through surface structural control and chemical modification. <i>Nano Energy</i> , 2016, 19, 48-57.	8.2	141
46	Electrochemical growth of flowerlike gold nanoparticles on polydopamine modified ITO glass for SERS application. <i>Electrochimica Acta</i> , 2010, 55, 2004-2009.	2.6	137
47	Remote Control over Underwater Dynamic Attachment/Detachment and Locomotion. <i>Advanced Materials</i> , 2018, 30, e1801595.	11.1	137
48	Bisimidazolium Ionic Liquids as the High-Performance Antiwear Additives in Poly(ethylene glycol) for Steel-Steel Contacts. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 467-471.	4.0	135
49	General Construction of Molybdenum-Based Nanowire Arrays for pH-Universal Hydrogen Evolution Electrocatalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1804600.	7.8	134
50	Freezing Molecular Orientation under Stretch for High Mechanical Strength but Anisotropic Hydrogels. <i>Small</i> , 2016, 12, 4386-4392.	5.2	132
51	Graphene-Based Linear Tandem Micro-Supercapacitors with Metal-Free Current Collectors and High-Voltage Output. <i>Advanced Materials</i> , 2017, 29, 1703034.	11.1	132
52	Engineering a Titanium Surface with Controllable Oleophobicity and Switchable Oil Adhesion. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9938-9944.	1.5	129
53	Facile Preparation of Monodisperse, Impurity-Free, and Antioxidation Copper Nanoparticles on a Large Scale for Application in Conductive Ink. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 560-567.	4.0	129
54	Functional Room-temperature Ionic Liquids as Lubricants for an Aluminum-on-Steel System. <i>Chemistry Letters</i> , 2004, 33, 524-525.	0.7	128

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55	Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017, 3, e1603288.	4.7	127
56	Electrodeposited nickel-cobalt composite coating containing nano-sized Si ₃ N ₄ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 397, 190-194.	2.6	125
57	Effects of system parameters on making aluminum alloy lotus. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 298-305.	5.0	124
58	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. <i>Science Advances</i> , 2020, 6, .	4.7	124
59	A new protocol toward high output TENG with polyimide as charge storage layer. <i>Nano Energy</i> , 2017, 38, 467-476.	8.2	121
60	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9478-9485.	5.2	120
61	Brushing up functional materials. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	119
62	“Stick and slide” ferrofluidic droplets on superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2006, 89, 081911.	1.5	118
63	Electrodeposition and characterization of Ni-Co carbon nanotubes composite coatings. <i>Surface and Coatings Technology</i> , 2006, 200, 4870-4875.	2.2	118
64	Tribological Properties of Novel Imidazolium Ionic Liquids Bearing Benzotriazole Group as the Antiwear/Anticorrosion Additive in Poly(ethylene glycol) and Polyurea Grease for Steel/Steel Contacts. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4580-4592.	4.0	118
65	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
66	One-Step Modification of Fabrics with Bioinspired Polydopamine@Octadecylamine Nanocapsules for Robust and Healable Self-Cleaning Performance. <i>Small</i> , 2015, 11, 426-431.	5.2	117
67	Towards a tunable and switchable water adhesion on a TiO ₂ nanotube film with patterned wettability. <i>Chemical Communications</i> , 2009, , 7018.	2.2	115
68	Switching Water Droplet Adhesion Using Responsive Polymer Brushes. <i>Langmuir</i> , 2010, 26, 12377-12382.	1.6	114
69	Electrostatic Self-Assembly of Au Nanoparticles onto Thermosensitive Magnetic Core-Shell Microgels for Thermally Tunable and Magnetically Recyclable Catalysis. <i>Small</i> , 2015, 11, 2807-2816.	5.2	113
70	Hierarchical architectures of monodisperse porous Cu microspheres: synthesis, growth mechanism, high-efficiency and recyclable catalytic performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11966.	5.2	112
71	Polyelectrolyte Brush Amplified Electroactuation of Microcantilevers. <i>Nano Letters</i> , 2008, 8, 725-730.	4.5	109
72	Tapping the Potential of Polymer Brushes through Synthesis. <i>Accounts of Chemical Research</i> , 2015, 48, 229-237.	7.6	107

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73	Structural hydrogels. <i>Polymer</i> , 2016, 98, 516-535.	1.8	105
74	Spray-Coated Fluorine-Free Superhydrophobic Coatings with Easy Repairability and Applicability. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1656-1661.	4.0	104
75	Grafting poly(ionic liquid) brushes for anti-bacterial and anti-biofouling applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 13123.	6.7	104
76	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. <i>Advanced Functional Materials</i> , 2019, 29, 1902860.	7.8	104
77	Ultraviolet Light-Induced Surface-Initiated Atom-Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2013, 2, 592-596.	2.3	103
78	High Strength Astringent Hydrogels Using Protein as the Building Block for Physically Cross-linked Multi-Network. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7593-7601.	4.0	103
79	Hairy Polyelectrolyte Brushes-Grafted Thermosensitive Microgels as Artificial Synovial Fluid for Simultaneous Biomimetic Lubrication and Arthritis Treatment. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20452-20463.	4.0	102
80	Ionic liquids from amino acids: fully green fluid lubricants for various surface contacts. <i>RSC Advances</i> , 2014, 4, 19396.	1.7	102
81	Self-Healing Surface Hydrophobicity by Consecutive Release of Hydrophobic Molecules from Mesoporous Silica. <i>Langmuir</i> , 2012, 28, 5845-5849.	1.6	100
82	Three-stage switching of surface wetting using phosphate-bearing polymer brushes. <i>Chemical Communications</i> , 2005, , 5999.	2.2	96
83	Imidazolium hexafluorophosphate ionic liquids as high temperature lubricants for steel-steel contacts. <i>Wear</i> , 2010, 268, 67-71.	1.5	96
84	Superamphiphobic coatings with coralline-like structure enabled by one-step spray of polyurethane/carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 9624.	6.7	96
85	Electrochemical deposition of Au-Pt alloy particles with cauliflower-like microstructures for electrocatalytic methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4088-4097.	3.8	96
86	Biomimicking Topographic Elastomeric Petals (E-Petals) for Omnidirectional Stretchable and Printable Electronics. <i>Advanced Science</i> , 2015, 2, 1400021.	5.6	96
87	Polypyrrole nanowire/TiO ₂ nanotube nanocomposites as photoanodes for photocathodic protection of Ti substrate and 304 stainless steel under visible light. <i>Corrosion Science</i> , 2015, 98, 471-477.	3.0	95
88	Articular Cartilage Inspired Bilayer Tough Hydrogel Prepared by Interfacial Modulated Polymerization Showing Excellent Combination of High Load-Bearing and Low Friction Performance. <i>ACS Macro Letters</i> , 2016, 5, 1191-1195.	2.3	95
89	The electrolyte switchable solubility of multi-walled carbon nanotube/ionic liquid (MWCNT/IL) hybrids. <i>Chemical Communications</i> , 2006, , 2356.	2.2	94
90	Enhanced field emission from hydrogenated TiO ₂ nanotube arrays. <i>Nanotechnology</i> , 2012, 23, 455204.	1.3	94

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91	Fluoride-assisted galvanic replacement synthesis of Ag and Au dendrites on aluminum foil with enhanced SERS and catalytic activities. <i>Journal of Materials Chemistry</i> , 2012, 22, 18327.	6.7	94
92	Multimaterials 3D Printing for Free Assembly Manufacturing of Magnetic Driving Soft Actuator. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700629.	1.9	94
93	A novel imidazolium salt with antioxidation and anticorrosion dual functionalities as the additive in poly(ethylene glycol) for steel/steel contacts. <i>Wear</i> , 2013, 306, 197-208.	1.5	92
94	Direct ink writing with high-strength and swelling-resistant biocompatible physically crosslinked hydrogels. <i>Biomaterials Science</i> , 2019, 7, 1805-1814.	2.6	90
95	Microstructured Arrays of TiO ₂ Nanotubes for Improved Photoelectrocatalysis and Mechanical Stability. <i>Advanced Functional Materials</i> , 2009, 19, 1930-1938.	7.8	89
96	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
97	Robust Photothermal Coating Strategy for Efficient Ice Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46981-46990.	4.0	89
98	A replication strategy for complex micro/nanostructures with superhydrophobicity and superoleophobicity and high contrast adhesion. <i>Soft Matter</i> , 2009, 5, 3097.	1.2	88
99	Surface-Initiated Ring-Opening Metathesis Polymerization of Pentadecafluorooctyl-5-norbornene-2-carboxylate from Variable Substrates Modified with Sticky Biomimic Initiator. <i>Macromolecules</i> , 2010, 43, 5554-5560.	2.2	88
100	Solid-liquid triboelectrification in smart U-tube for multifunctional sensors. <i>Nano Energy</i> , 2017, 40, 95-106.	8.2	88
101	Water-solid triboelectrification with self-repairable surfaces for water-flow energy harvesting. <i>Nano Energy</i> , 2019, 61, 454-461.	8.2	88
102	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
103	Probing the Responsive Behavior of Polyelectrolyte Brushes Using Electrochemical Impedance Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 176-182.	3.2	87
104	Nanoporous Substrate-Infiltrated Hydrogels: a Bioinspired Regenerable Surface for High Load Bearing and Tunable Friction. <i>Advanced Functional Materials</i> , 2015, 25, 7366-7374.	7.8	87
105	Synthesis of dicationic symmetrical and asymmetrical ionic liquids and their tribological properties as ultrathin films. <i>Tribology Letters</i> , 2007, 25, 197-205.	1.2	86
106	Solvent-free and photocurable polyimide inks for 3D printing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16307-16314.	5.2	86
107	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
108	Benzotriazole as the additive for ionic liquid lubricant: one pathway towards actual application of ionic liquids. <i>Tribology Letters</i> , 2006, 23, 191-196.	1.2	85

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109	Alkyl Imidazolium Ionic Liquids as Friction Reduction and Anti-Wear Additive in Polyurea Grease for Steel/Steel Contacts. <i>Tribology Letters</i> , 2010, 40, 215-224.	1.2	85
110	3D printing of shape changing composites for constructing flexible paper-based photothermal bilayer actuators. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2123-2131.	2.7	85
111	Lubricating a bright future: Lubrication contribution to energy saving and low carbon emission. <i>Science China Technological Sciences</i> , 2013, 56, 2888-2913.	2.0	84
112	Paper-based triboelectric nanogenerators and their application in self-powered anticorrosion and antifouling. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18022-18030.	5.2	84
113	Continuous Surface Polymerization via Fe(II)-Mediated Redox Reaction for Thick Hydrogel Coatings on Versatile Substrates. <i>Advanced Materials</i> , 2018, 30, e1803371.	11.1	84
114	Synthesis and characterization of anatase TiO ₂ nanotubes and their use in dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2009, 113, 602-606.	2.0	83
115	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
116	Stretchable tandem micro-supercapacitors with high voltage output and exceptional mechanical robustness. <i>Energy Storage Materials</i> , 2018, 13, 233-240.	9.5	82
117	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
118	Liquid-solid contact triboelectrification and its use in self-powered nanosensor for detecting organics in water. <i>Nano Energy</i> , 2016, 30, 321-329.	8.2	81
119	Tribological properties of plasma nitrided stainless steel against SAE52100 steel under ionic liquid lubrication condition. <i>Tribology International</i> , 2006, 39, 635-640.	3.0	79
120	Interfacial Friction Control. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400392.	1.9	79
121	Interconnected Phosphorus and Nitrogen Codoped Porous Exfoliated Carbon Nanosheets for High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17317-17325.	4.0	79
122	Charged Polymer Brushes-Grafted Hollow Silica Nanoparticles as a Novel Promising Material for Simultaneous Joint Lubrication and Treatment. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4920-4931.	1.2	78
123	Grafting Polymer Brushes on Biomimetic Structural Surfaces for Anti-Algae Fouling and Foul Release. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4557-4565.	4.0	77
124	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5793-5797.	7.2	76
125	Topography Printing to Locally Control Wettability. <i>Journal of the American Chemical Society</i> , 2006, 128, 7730-7731.	6.6	75
126	A novel gel polymer electrolyte based on poly ionic liquid 1-ethyl 3-(2-methacryloyloxy ethyl) imidazolium iodide. <i>European Polymer Journal</i> , 2007, 43, 2699-2707.	2.6	75

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127	Grafting zwitterionic polymer brushes via electrochemical surface-initiated atomic-transfer radical polymerization for anti-fouling applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5352-5357.	2.9	75
128	Highly Flexible Coaxial Nanohybrids Made from Porous TiO ₂ Nanotubes. <i>ACS Nano</i> , 2009, 3, 1249-1257.	7.3	74
129	Functional ionic gels formed by supramolecular assembly of a novel low molecular weight anticorrosive/antioxidative gelator. <i>Journal of Materials Chemistry</i> , 2011, 21, 13399.	6.7	71
130	Thermoreversible Gel Lubricants through Universal Supramolecular Assembly of a Nonionic Surfactant in a Variety of Base Lubricating Liquids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15783-15794.	4.0	71
131	All-solid-state high-energy planar hybrid micro-supercapacitors based on 2D VN nanosheets and Co(OH) ₂ nanoflowers. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	71
132	3D Printing of Hydrogel Architectures with Complex and Controllable Shape Deformation. <i>Advanced Materials Technologies</i> , 2019, 4, 1800713.	3.0	71
133	Self-Assembled Structure in Room-Temperature Ionic Liquids. <i>Chemistry - A European Journal</i> , 2005, 11, 3936-3940.	1.7	70
134	Enhancing the catalytic activity of flowerlike Pt nanocrystals using polydopamine functionalized graphene supports for methanol electrooxidation. <i>Electrochimica Acta</i> , 2014, 142, 18-24.	2.6	70
135	Ionic liquid modified multi-walled carbon nanotubes as lubricant additive. <i>Tribology International</i> , 2015, 81, 38-42.	3.0	70
136	Fabrication of Chemically Tethered Binary Polymer-Brush Pattern through Two-Step Surface-Initiated Atomic-Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1979-1983.	2.0	69
137	Electrochemical Characteristics of Polyelectrolyte Brushes with Electroactive Counterions. <i>Langmuir</i> , 2007, 23, 10389-10394.	1.6	69
138	Bio-Inspired Design and Fabrication of Micro/Nano-Brush Dual Structural Surfaces for Switchable Oil Adhesion and Antifouling. <i>Small</i> , 2017, 13, 1602020.	5.2	69
139	Superhydrophobic zinc oxide surface by differential etching and hydrophobic modification. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 452-453, 732-736.	2.6	68
140	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
141	Controlled Polymer-Brush Growth from Microliter Volumes using Sacrificial Anode Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9125-9129.	7.2	66
142	Grafting Robust Thick Zwitterionic Polymer Brushes via Subsurface-Initiated Ring-Opening Metathesis Polymerization for Antimicrobial and Anti-Biofouling. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39171-39178.	4.0	66
143	Tribological properties of ultra-thin ionic liquid films on single-crystal silicon wafers with functionalized surfaces. <i>Tribology International</i> , 2006, 39, 879-887.	3.0	65
144	Candle soot as a supercapacitor electrode material. <i>RSC Advances</i> , 2014, 4, 2586-2589.	1.7	65

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145	A Self-Assembly Approach to Chemical Micropatterning of Poly(dimethylsiloxane). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6634-6637.	7.2	64
146	Polyelectrolyte Brush Templated Multiple Loading of Pd Nanoparticles onto TiO ₂ Nanowires via Regenerative Counterion Exchange ⁺ Reduction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7677-7683.	1.5	64
147	Core-Shell Corona-Structured Polyelectrolyte Brushes-Grafting Magnetic Nanoparticles for Water Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11625-11632.	4.0	64
148	Mechanically Induced Self-Healing Superhydrophobicity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7109-7114.	1.5	63
149	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
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