

Feng Zhou

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539
papers

22,968
citations

80
h-index

126
g-index

564
ext. papers

26,923
ext. citations

7.9
avg, IF

7.4
L-index

#	Paper	IF	Citations
539	Bioinspired catecholic chemistry for surface modification. <i>Chemical Society Reviews</i> , 2011 , 40, 4244-58	58.5	935
538	Ionic liquid lubricants: designed chemistry for engineering applications. <i>Chemical Society Reviews</i> , 2009 , 38, 2590-9	58.5	795
537	Molecularly engineered dual-crosslinked hydrogel with ultrahigh mechanical strength, toughness, and good self-recovery. <i>Advanced Materials</i> , 2015 , 27, 2054-9	24	553
536	Stable biomimetic super-hydrophobic engineering materials. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15670-1	16.4	447
535	Surface grafted polymer brushes as ideal building blocks for "smart" surfaces. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3815-23	3.6	256
534	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2017 , 11, 7284-7292	16.7	251
533	Mechanical properties and wear and corrosion resistance of electrodeposited Ni ₃ O/SiC nanocomposite coating. <i>Applied Surface Science</i> , 2006 , 252, 3591-3599	6.7	244
532	Bio-inspired reversible underwater adhesive. <i>Nature Communications</i> , 2017 , 8, 2218	17.4	243
531	TiO ₂ Nanotubes with Tunable Morphology, Diameter, and Length: Synthesis and Photo-Electrical/Catalytic Performance. <i>Chemistry of Materials</i> , 2009 , 21, 1198-1206	9.6	218
530	Extreme wettability and tunable adhesion: biomimicking beyond nature?. <i>Soft Matter</i> , 2012 , 8, 2070-2086	5.6	209
529	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	3.5	206
528	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2017 , 6, 70-97	19.4	201
527	Pdop layer exhibiting zwitterionicity: a simple electrochemical interface for governing ion permeability. <i>Chemical Communications</i> , 2010 , 46, 5900-2	5.8	201
526	Effect of the functional groups in ionic liquid molecules on the friction and wear behavior of aluminum alloy in lubricated aluminum-on-steel contact. <i>Tribology International</i> , 2005 , 38, 725-731	4.9	195
525	Self-healing superamphiphobicity. <i>Chemical Communications</i> , 2011 , 47, 2324-6	5.8	192
524	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	16.4	188
523	Robust polydopamine nano/microcapsules and their loading and release behavior. <i>Chemical Communications</i> , 2009 , 6789-91	5.8	180

522	Alumina nanowire forests via unconventional anodization and super-repellency plus low adhesion to diverse liquids. <i>Chemical Communications</i> , 2009 , 1043-5	5.8	180
521	TiO ₂ nanotubes: Structure optimization for solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9406		170
520	Material-Independent Surface Chemistry beyond Polydopamine Coating. <i>Accounts of Chemical Research</i> , 2019 , 52, 704-713	24.3	168
519	A Novel Protocol Toward Perfect Alignment of Anodized TiO ₂ Nanotubes. <i>Advanced Materials</i> , 2009 , 21, 1964-1967	24	167
518	Multicomponent polymer brushes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16253-8	16.4	165
517	Highly selective uptake and release of charged molecules by pH-responsive polydopamine microcapsules. <i>Macromolecular Bioscience</i> , 2011 , 11, 1227-34	5.5	163
516	Template-Free and Direct Electrochemical Deposition of Hierarchical Dendritic Gold Microstructures: Growth and Their Multiple Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15617-15624	38	157
515	Highly reversible and multi-stage cantilever actuation driven by polyelectrolyte brushes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5326-7	16.4	157
514	Mussel-inspired hydrogels: from design principles to promising applications. <i>Chemical Society Reviews</i> , 2020 , 49, 3605-3637	58.5	153
513	Scalable Fabrication of Photochemically Reduced Graphene-Based Monolithic Micro-Supercapacitors with Superior Energy and Power Densities. <i>ACS Nano</i> , 2017 , 11, 4283-4291	16.7	152
512	Modification of carbon nanotubes with a nanothin polydopamine layer and polydimethylamino-ethyl methacrylate brushes. <i>Carbon</i> , 2010 , 48, 2347-2353	10.4	151
511	Electrochemically mediated atom transfer radical polymerization on nonconducting substrates: controlled brush growth through catalyst diffusion. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1708-10	16.4	148
510	Imidazolium ionic liquids as antiwear and antioxidant additive in poly(ethylene glycol) for steel/steel contacts. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 870-6	9.5	144
509	Molybdenum Phosphide/Carbon Nanotube Hybrids as pH-Universal Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2018 , 28, 1706523	15.6	141
508	Matrix-assisted catalytic printing for the fabrication of multiscale, flexible, foldable, and stretchable metal conductors. <i>Advanced Materials</i> , 2013 , 25, 3343-50	24	137
507	Dramatically Tuning Friction Using Responsive Polyelectrolyte Brushes. <i>Macromolecules</i> , 2013 , 46, 9368-9379	9.379	131
506	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. <i>Energy and Environmental Science</i> , 2019 , 12, 1534-1541	35.4	129
505	Brushing up from "anywhere" under sunlight: a universal surface-initiated polymerization from polydopamine-coated surfaces. <i>Chemical Science</i> , 2015 , 6, 2068-2073	9.4	129

504	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	21.8	128
503	Electrochemically induced surface-initiated atom-transfer radical polymerization. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5092-5	16.4	127
502	Integration of Self-Lubrication and Near-Infrared Photothermogenesis for Excellent Anti-Icing/Deicing Performance. <i>Advanced Functional Materials</i> , 2015 , 25, 4237-4245	15.6	121
501	Engineering a Titanium Surface with Controllable Oleophobicity and Switchable Oil Adhesion. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9938-9944	3.8	121
500	Functional Room-temperature Ionic Liquids as Lubricants for an Aluminum-on-Steel System. <i>Chemistry Letters</i> , 2004 , 33, 524-525	1.7	121
499	All-solid-state flexible planar lithium ion micro-capacitors. <i>Energy and Environmental Science</i> , 2018 , 11, 2001-2009	35.4	121
498	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, 467-71	9.5	120
497	Electrochemical growth of flowerlike gold nanoparticles on polydopamine modified ITO glass for SERS application. <i>Electrochimica Acta</i> , 2010 , 55, 2004-2009	6.7	120
496	Adhesive polydopamine coated avermectin microcapsules for prolonging foliar pesticide retention. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19552-8	9.5	114
495	Towards a tunable and switchable water adhesion on a TiO ₂ nanotube film with patterned wettability. <i>Chemical Communications</i> , 2009 , 7018-20	5.8	111
494	Effects of system parameters on making aluminum alloy lotus. <i>Journal of Colloid and Interface Science</i> , 2006 , 303, 298-305	9.3	110
493	Electrodeposition and characterization of Ni/Carbon nanotubes composite coatings. <i>Surface and Coatings Technology</i> , 2006 , 200, 4870-4875	4.4	108
492	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	5.3	107
491	Graphene-Based Linear Tandem Micro-Supercapacitors with Metal-Free Current Collectors and High-Voltage Output. <i>Advanced Materials</i> , 2017 , 29, 1703034	24	106
490	Switching water droplet adhesion using responsive polymer brushes. <i>Langmuir</i> , 2010 , 26, 12377-82	4	106
489	Stick and slide of ferrofluidic droplets on superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2006 , 89, 081911	3.4	106
488	High output polypropylene nanowire array triboelectric nanogenerator through surface structural control and chemical modification. <i>Nano Energy</i> , 2016 , 19, 48-57	17.1	104
487	Leaves based triboelectric nanogenerator (TENG) and TENG tree for wind energy harvesting. <i>Nano Energy</i> , 2019 , 55, 260-268	17.1	104

486	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, 560-7	9.5	103
485	Polyelectrolyte brush amplified electroactuation of microcantilevers. <i>Nano Letters</i> , 2008 , 8, 725-30	11.5	103
484	One-step modification of fabrics with bioinspired polydopamine@octadecylamine nanocapsules for robust and healable self-cleaning performance. <i>Small</i> , 2015 , 11, 426-31	11	102
483	Self-powered ammonia nanosensor based on the integration of the gas sensor and triboelectric nanogenerator. <i>Nano Energy</i> , 2018 , 49, 31-39	17.1	101
482	Freezing Molecular Orientation under Stretch for High Mechanical Strength but Anisotropic Hydrogels. <i>Small</i> , 2016 , 12, 4386-92	11	97
481	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	13	97
480	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, 4580-92	9.5	97
479	Spray-coated fluorine-free superhydrophobic coatings with easy repairability and applicability. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1656-61	9.5	96
478	Electrostatic Self-Assembly of Au Nanoparticles onto Thermosensitive Magnetic Core-Shell Microgels for Thermally Tunable and Magnetically Recyclable Catalysis. <i>Small</i> , 2015 , 11, 2807-16	11	95
477	General Construction of Molybdenum-Based Nanowire Arrays for pH-Universal Hydrogen Evolution Electrocatalysis. <i>Advanced Functional Materials</i> , 2018 , 28, 1804600	15.6	95
476	Self-healing surface hydrophobicity by consecutive release of hydrophobic molecules from mesoporous silica. <i>Langmuir</i> , 2012 , 28, 5845-9	4	91
475	Ultraviolet Light-Induced Surface-Initiated Atom-Transfer Radical Polymerization.. <i>ACS Macro Letters</i> , 2013 , 2, 592-596	6.6	90
474	Enhanced field emission from hydrogenated TiO ₂ nanotube arrays. <i>Nanotechnology</i> , 2012 , 23, 455204	3.4	89
473	Tapping the potential of polymer brushes through synthesis. <i>Accounts of Chemical Research</i> , 2015 , 48, 229-37	24.3	87
472	Remote Control over Underwater Dynamic Attachment/Detachment and Locomotion. <i>Advanced Materials</i> , 2018 , 30, e1801595	24	87
471	Imidazolium hexafluorophosphate ionic liquids as high temperature lubricants for steel-steel contacts. <i>Wear</i> , 2010 , 268, 67-71	3.5	86
470	Three-stage switching of surface wetting using phosphate-bearing polymer brushes. <i>Chemical Communications</i> , 2005 , 5999-6001	5.8	86
469	The electrolyte switchable solubility of multi-walled carbon nanotube/ionic liquid (MWCNT/IL) hybrids. <i>Chemical Communications</i> , 2006 , 2356-8	5.8	86

468	Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017 , 3, e1603288	14.3	85
467	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	5.5	84
466	Microstructured Arrays of TiO ₂ Nanotubes for Improved Photo-Electrocatalysis and Mechanical Stability. <i>Advanced Functional Materials</i> , 2009 , 19, 1930-1938	15.6	84
465	Ionic liquids from amino acids: fully green fluid lubricants for various surface contacts. <i>RSC Advances</i> , 2014 , 4, 19396	3.7	83
464	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		82
463	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		82
462	A replication strategy for complex micro/nanostructures with superhydrophobicity and superoleophobicity and high contrast adhesion. <i>Soft Matter</i> , 2009 , 5, 3097	3.6	82
461	Probing the responsive behavior of polyelectrolyte brushes using electrochemical impedance spectroscopy. <i>Analytical Chemistry</i> , 2007 , 79, 176-82	7.8	82
460	Grafting poly(ionic liquid) brushes for anti-bacterial and anti-biofouling applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13123		80
459	Scalable fabrication of printed Zn//MnO planar micro-batteries with high volumetric energy density and exceptional safety. <i>National Science Review</i> , 2020 , 7, 64-72	10.8	80
458	Biomimicking Topographic Elastomeric Petals (E-Petals) for Omnidirectional Stretchable and Printable Electronics. <i>Advanced Science</i> , 2015 , 2, 1400021	13.6	79
457	Synthesis of dicationic symmetrical and asymmetrical ionic liquids and their tribological properties as ultrathin films. <i>Tribology Letters</i> , 2007 , 25, 197-205	2.8	79
456	A new protocol toward high output TENG with polyimide as charge storage layer. <i>Nano Energy</i> , 2017 , 38, 467-476	17.1	78
455	Electrochemical deposition of AuPt alloy particles with cauliflower-like microstructures for electrocatalytic methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4088-4097	6.7	78
454	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	4.4	78
453	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	3.5	77
452	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	6.8	76
451	Benzotriazole as the additive for ionic liquid lubricant: one pathway towards actual application of ionic liquids. <i>Tribology Letters</i> , 2006 , 23, 191-196	2.8	76

450	Ionic liquid lubricants: when chemistry meets tribology. <i>Chemical Society Reviews</i> , 2020 , 49, 7753-7818	58.5	75
449	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	13	74
448	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, 20452-63	9.5	74
447	Structural hydrogels. <i>Polymer</i> , 2016 , 98, 516-535	3.9	73
446	Highly flexible coaxial nanohybrids made from porous TiO ₂ nanotubes. <i>ACS Nano</i> , 2009 , 3, 1249-57	16.7	73
445	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	9.5	72
444	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	2.8	72
443	Tribological properties of plasma nitrided stainless steel against SAE52100 steel under ionic liquid lubrication condition. <i>Tribology International</i> , 2006 , 39, 635-640	4.9	72
442	Interconnected Phosphorus and Nitrogen Codoped Porous Exfoliated Carbon Nanosheets for High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17317-17325	9.5	68
441	Grafting polymer brushes on biomimetic structural surfaces for anti-algae fouling and foul release. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4557-65	9.5	68
440	Topography printing to locally control wettability. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7730-1	16.4	67
439	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	6.6	67
438	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	4.8	66
437	Self-assembled structure in room-temperature ionic liquids. <i>Chemistry - A European Journal</i> , 2005 , 11, 3936-40	4.8	66
436	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. <i>Advanced Functional Materials</i> , 2019 , 29, 1902860	15.6	64
435	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	7.1	64
434	Electrochemical characteristics of polyelectrolyte brushes with electroactive counterions. <i>Langmuir</i> , 2007 , 23, 10389-94	4	64
433	Stretchable tandem micro-supercapacitors with high voltage output and exceptional mechanical robustness. <i>Energy Storage Materials</i> , 2018 , 13, 233-240	19.4	63

432	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	5.2	63
431	Tribological properties of ultra-thin ionic liquid films on single-crystal silicon wafers with functionalized surfaces. <i>Tribology International</i> , 2006 , 39, 879-887	4.9	63
430	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		62
429	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	5.3	62
428	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5793-7	16.4	62
427	Nanoporous Substrate-Infiltrated Hydrogels: a Bioinspired Regenerable Surface for High Load Bearing and Tunable Friction. <i>Advanced Functional Materials</i> , 2015 , 25, 7366-7374	15.6	61
426	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	3.8	61
425	Enhancing the catalytic activity of flowerlike Pt nanocrystals using polydopamine functionalized graphene supports for methanol electrooxidation. <i>Electrochimica Acta</i> , 2014 , 142, 18-24	6.7	60
424	Solid-liquid triboelectrification in smart U-tube for multifunctional sensors. <i>Nano Energy</i> , 2017 , 40, 95-106	7.1	59
423	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	7.3	58
422	Brushing up functional materials. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	57
421	Direct ink writing with high-strength and swelling-resistant biocompatible physically crosslinked hydrogels. <i>Biomaterials Science</i> , 2019 , 7, 1805-1814	7.4	57
420	Ionic liquid modified multi-walled carbon nanotubes as lubricant additive. <i>Tribology International</i> , 2015 , 81, 38-42	4.9	57
419	Core-shell-corona-structured polyelectrolyte brushes-grafting magnetic nanoparticles for water harvesting. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11625-32	9.5	56
418	Lubricating a bright future: Lubrication contribution to energy saving and low carbon emission. <i>Science China Technological Sciences</i> , 2013 , 56, 2888-2913	3.5	56
417	Superhydrophobic surface from Cu-Zn alloy by one step O ₂ concentration dependent etching. <i>Journal of Colloid and Interface Science</i> , 2008 , 326, 478-82	9.3	56
416	Solvent-free and photocurable polyimide inks for 3D printing. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16307-16314	13	55
415	Paper-based triboelectric nanogenerators and their application in self-powered anticorrosion and antifouling. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18022-18030	13	55

4 ¹⁴	Multimaterials 3D Printing for Free Assembly Manufacturing of Magnetic Driving Soft Actuator. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700629	4.6	55
4 ¹³	Dual-responsive capsules with tunable low critical solution temperatures and their loading and release behavior. <i>Langmuir</i> , 2013 , 29, 5631-7	4	55
4 ¹²	Liquid-Solid contact triboelectrification and its use in self-powered nanosensor for detecting organics in water. <i>Nano Energy</i> , 2016 , 30, 321-329	17.1	55
4 ¹¹	Interfacial Friction Control. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400392	4.6	54
4 ¹⁰	Anticorrosion imidazolium ionic liquids as the additive in poly(ethylene glycol) for steel/Cu-Sn alloy contacts. <i>Faraday Discussions</i> , 2012 , 156, 147-57; discussion 197-215	3.6	54
4 ⁰⁹	A self-assembly approach to chemical micropatterning of poly(dimethylsiloxane). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6634-7	16.4	54
4 ⁰⁸	Mechanically induced generation of counterions inside surface-grafted charged macromolecular films: towards enhanced mechanotransduction in artificial systems. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7440-3	16.4	54
4 ⁰⁷	Controlled polymer-brush growth from microliter volumes using sacrificial-anode atom-transfer radical polymerization. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9125-9	16.4	53
4 ⁰⁶	Synthesis and characterization of anatase TiO ₂ nanotubes with uniform diameter from titanium powder. <i>Materials Letters</i> , 2008 , 62, 1819-1822	3.3	53
4 ⁰⁵	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, 15783-94	8.5	52
4 ⁰⁴	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, 4920-31	3.4	52
4 ⁰³	pH-responsive controlled-release fertilizer with water retention via atom transfer radical polymerization of acrylic acid on mussel-inspired initiator. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 5474-82	5.7	51
4 ⁰²	Tribological evaluation of 1-butyl-3-imidazoliumalkylene hexafluorophosphate ionic liquid and benzotriazole as additive. <i>Tribology International</i> , 2008 , 41, 797-801	4.9	51
4 ⁰¹	Preparation of functional ionic liquids and tribological investigation of their ultra-thin films. <i>Wear</i> , 2006 , 260, 1076-1080	3.5	51
4 ⁰⁰	Mussel-inspired thermosensitive polydopamine-graft-poly(N-isopropylacrylamide) coating for controlled-release fertilizer. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 12232-7	5.7	50
399	Mussel-Inspired Photografting on Colloidal Spheres: A Generalized Self-Template Route to Stimuli-Responsive Hollow Spheres for Controlled Pesticide Release. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1640-5	4.8	50
398	Biomimicking lubrication superior to fish skin using responsive hydrogels. <i>NPG Asia Materials</i> , 2014 , 6, e136-e136	10.3	50
397	A novel lubricant additive based on carbon nanotubes for ionic liquids. <i>Materials Letters</i> , 2008 , 62, 2967-2969	3.969	50

396	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. <i>Science Advances</i> , 2020 , 6,	14.3	50
395	Water-solid triboelectrification with self-repairable surfaces for water-flow energy harvesting. <i>Nano Energy</i> , 2019 , 61, 454-461	17.1	49
394	Polydopamine film coated controlled-release multielement compound fertilizer based on mussel-inspired chemistry. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 2919-24	5.7	49
393	Bio-Inspired Design and Fabrication of Micro/Nano-Brush Dual Structural Surfaces for Switchable Oil Adhesion and Antifouling. <i>Small</i> , 2017 , 13, 1602020	11	49
392	Continuous Surface Polymerization via Fe(II)-Mediated Redox Reaction for Thick Hydrogel Coatings on Versatile Substrates. <i>Advanced Materials</i> , 2018 , 30, e1803371	24	49
391	Dramatically improved friction reduction and wear resistance by in situ formed ionic liquids. <i>RSC Advances</i> , 2012 , 2, 6824	3.7	48
390	A versatile macro-initiator with dual functional anchoring groups for surface-initiated atom transfer radical polymerization on various substrates. <i>Polymer Chemistry</i> , 2012 , 3, 2129	4.9	48
389	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	35.4	47
388	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,	8.8	47
387	Adhesion-Regulated Switchable Fluid Slippage on Superhydrophobic Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2564-2569	3.8	47
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