Feng Zhou

List of Publications by Year in Descending Order

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	Universal Strategy for Growing Tenacious Hydrogel Coating from a Sticky Initiation Layer (SIL).. *Advanced Materials*, **2022**, e2108889	24	2
538	Modulus adaptive lubricating prototype inspired by instant muscle hardening mechanism of catfish skin.. *Nature Communications*, **2022**, 13, 377	17.4	4
537	Continuously growing multi-layered hydrogel structures with seamless interlocked interface. *Matter*, **2022**, 5, 634-653	12.7	0
536	Durable self-polishing antifouling coating based on fluorine-containing pyrrolidone amphiphilic copolymer-functionalized nanosilica. *Progress in Organic Coatings*, **2022**, 165, 106706	4.8	2
535	Super-lubricating hybrid elastomer with rapid photothermal sterilization and strong anti-cell adhesion. *Chemical Engineering Journal*, **2022**, 434, 134763	14.7	2
534	Nitrogen-doped porous carbon nanospheres derived from hyper-crosslinked polystyrene as lubricant additives for friction and wear reduction. *Tribology International*, **2022**, 169, 107458	4.9	2
533	Surface engineering and on-site charge neutralization for the regulation of contact electrification. *Nano Energy*, **2022**, 91, 106687	17.1	2
532	Enhanced lubricity and anti-wear performance of zwitterionic polymer-modified N-enriched porous carbon nanosheets as water-based lubricant additive. *Tribology International*, **2022**, 167, 107421	4.9	5
531	Self-lubricating interpenetrating polymer networks with functionalized nanoparticles enhancement for quasi-static and dynamic antifouling. *Chemical Engineering Journal*, **2022**, 429, 132300	14.7	3
530	Polymer-based lubricating materials for functional hydration lubrication. *Chemical Engineering Journal*, **2022**, 429, 132324	14.7	5
529	Self-healing polydimethylsiloxane antifouling coatings based on zwitterionic polyethylenimine-functionalized gallium nanodroplets. *Chemical Engineering Journal*, **2022**, 427, 131019	14.7	9
528	Anomalous boundary behavior of non-Newtonian fluids on amphiphobic surfaces. *Tribology International*, **2022**, 165, 107261	4.9	0
527	Supramolecular assembly inspired molecular engineering to dynamically tune non-Newtonian fluid:from quasi-static flowability-free to shear thickening. *Journal of Colloid and Interface Science*, **2022**, 607, 1805-1812	9.3	
526	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.. *ACS Biomaterials Science and Engineering*, **2022**, 8, 1166-1180	5.5	0
525	Organic-Inorganic Hybrid Polysiloxane Brushes with Improved Lubrication and Load-Bearing Capacity.. *Langmuir*, **2022**,	4	1
524	Molecular Engineering Super-Robust Dry/Wet Adhesive with Strong Interface Bonding and Excellent Mechanical Tolerance.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
523	Bioinspired Polysaccharide-Derived Zwitterionic Brush-like Copolymer as An Injectable Biolubricant for Arthritis Treatment.. *Advanced Healthcare Materials*, **2022**, e2200090	10.1	3

522	Fluoropolymer grafted Ti3C2Tx MXene as an efficient lubricant additive for fluorine-containing lubricating oil. *Tribology International*, **2022**, 170, 107500	4.9	2
521	Growing Hydrogel Organ Mannequins with Interconnected Cavity Structures. *Advanced Functional Materials*, **2022**, 32, 2108845	15.6	2
520	Material Strategies for Ice Accretion Prevention and Easy Removal **2022**, 4, 246-262		4
519	Effects of structure relaxation and surface oxidation on nanoscopic wear behaviors of metallic glass. *Acta Materialia*, **2022**, 232, 117934	8.4	6
518	Bioinspired zwitterionic dopamine-functionalized liquid-metal nanodroplets for antifouling application. *Progress in Organic Coatings*, **2022**, 169, 106922	4.8	0
517	A sandcastle worm-inspired strategy to functionalize wet hydrogels. *Nature Communications*, **2021**, 12, 6331	17.4	4
516	Multi-Layer Printable Lithium Ion Micro-Batteries with Remarkable Areal Energy Density and Flexibility for Wearable Smart Electronics. *Small*, **2021**, e2104506	11	2
515	MoS Lubricating Film Meets Supramolecular Gel: A Novel Composite Lubricating System for Space Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 58036-58047	9.5	3
514	Exploration on Aqueous Lubrication of Polymeric Microgels between Titanium Alloy Contacts. *ACS Omega*, **2021**, 6, 32178-32185	3.9	1
513	One-step zwitterionization and quaternization of thick PDMAEMA layer grafted through subsurface-initiated ATRP for robust antibiofouling and antibacterial coating on PDMS.. *Journal of Colloid and Interface Science*, **2021**, 610, 234-245	9.3	2
512	Near-Infrared-Light-Modulated Lubricating Coating Enabled by Photothermal Microgels. *ACS Applied Materials & Interfaces*, **2021**, 13, 49322-49330	9.5	1
511	Transparent Janus Hydrogel Wet Adhesive for Underwater Self-Cleaning. *ACS Applied Materials & Interfaces*, **2021**, 13, 50505-50515	9.5	6
510	Green plant-based triboelectricity system for green energy harvesting and contact warning. *EcoMat* , **2021**, 3, e12145	9.4	3
509	Dynamic oil gels constructed by 1,2-dithiolane-containing telechelic polymers: An efficient and versatile platform for fabricating polymer-inorganic composites toward tribological applications. *Chemical Engineering Journal*, **2021**, 133097	14.7	3
508	Esophagus-Inspired Actuator for Solid Transportation via the Synergy of Lubrication and Contractile Deformation. *Advanced Science*, **2021**, e2102800	13.6	3
507	Manipulating Electrical Properties of Silica-Based Materials via Atomic Oxygen Irradiation. *ACS Applied Materials & Interfaces*, **2021**, 13, 15344-15352	9.5	3
506	High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System. *Advanced Energy Materials*, **2021**, 11, 2003835	21.8	20
505	Robust Hybrid Omniphobic Surface for Stain Resistance. *ACS Applied Materials & Interfaces*, **2021**, 13, 14562-14568	9.5	9

504	Gecko‐Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. *Chemistry of Materials*, **2021**, 33, 2785-2795	9.6	18
503	Concealed Wireless Warning Sensor Based on Triboelectrification and Human-Plant Interactive Induction. *Research*, **2021**, 2021, 9870936	7.8	7
502	Micro-Supercapacitors: High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System (Adv. Energy Mater. 17/2021). *Advanced Energy Materials*, **2021**, 11, 2170065	21.8	
501	High performance lubricants prepared from Naphthalene-1,4,5,8-Tetracarboxylic acid: Synthesis, physicochemical and Tribological properties. *Journal of Molecular Liquids*, **2021**, 330, 115609	6	
500	Graphene oxide/brush-like polysaccharide copolymer nanohybrids as eco-friendly additives for water-based lubrication. *Tribology International*, **2021**, 157, 106895	4.9	8
499	Brush-like organic-inorganic hybrid polysiloxane surface with omniphobicity and extreme durability. *Progress in Organic Coatings*, **2021**, 154, 106171	4.8	6
498	3D-Printed Electromagnetic Actuator for Bionic Swimming Robot. *Journal of Materials Engineering and Performance*, **2021**, 30, 6579-6587	1.6	1
497	Construction of Functional Superhydrophobic Biochars as Hydrogen Transfer Catalysts for Dehydrogenation of N-Heterocycles. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9062-9077	8.3	1
496	Ester Oils Prepared from Fully Renewable Resources and Their Lubricant Base Oil Properties. *ACS Omega*, **2021**, 6, 16343-16355	3.9	1
495	Hydrogen bonding induced enhancement for constructing anisotropic sugarcane composite hydrogels. *Journal of Applied Polymer Science*, **2021**, 138, 51374	2.9	4
494	Improving Anti-Icing and De-Icing Performances via Thermal-Regulation with Macroporous Xerogel. *ACS Applied Materials & Interfaces*, **2021**, 13, 37609-37616	9.5	6
493	Instantaneous drag increase on alternate transverse superhydrophobic strips. *Tribology International*, **2021**, 153, 106613	4.9	1
492	Physicochemical and tribological properties of gemini-type halogen-free dicationic ionic liquids. *Friction*, **2021**, 9, 344-355	5.6	6
491	Conductive elastic sponge-based triboelectric nanogenerator (TENG) for effective random mechanical energy harvesting and ammonia sensing. *Nano Energy*, **2021**, 79, 105422	17.1	22
490	Significantly enhancing lubricity and anti-wear performances of glycerol lubricant with urea-functionalized imidazolium-organophosphate ionic liquid as additive. *Tribology International*, **2021**, 153, 106602	4.9	4
489	Tribological performance and lubrication mechanism of new gemini quaternary phosphonium ionic liquid lubricants. *Journal of Molecular Liquids*, **2021**, 322, 114522	6	8
488	Molecular dynamics simulations of adsorption behavior of organic friction modifiers on hydrophilic silica surfaces under the effects of surface coverage and contact pressure. *Tribology International*, **2021**, 156, 106826	4.9	4
487	Gelation mechanism and tribological performances of two-component cholesterol-based supramolecular gel lubricant. *Tribology International*, **2021**, 155, 106777	4.9	2

486	Supramolecular PFPE gel lubricant with anti-creep capability under irradiation conditions at high vacuum. *Chemical Engineering Journal*, **2021**, 409, 128120	14.7	5
485	The effect of chemical structure on the tribological performance of perfluorosulfonate ILs as lubricants for Ti-6Al-4V tribopairs. *Journal of Molecular Liquids*, **2021**, 321, 114286	6	7
484	A high-performance rocking-chair lithium-ion battery-supercapacitor hybrid device boosted by doubly matched capacity and kinetics of the faradaic electrodes. *Energy and Environmental Science*, **2021**, 14, 2269-2277	35.4	18
483	Temperature-Responsive Nanofibrous Membranes Fabricated by Subsurface-Initiated Atom Transfer Radical Polymerization for Controllable Oil/Water Separation. *Acta Chimica Sinica*, **2021**, 79, 353	3.3	1
482	New Hydrogen Bonding Enhanced Polyvinyl Alcohol Based Self-Charged Medical Mask with Superior Charge Retention and Moisture Resistance Performances. *Advanced Functional Materials*, **2021**, 31, 2009172	15.6	25
481	Reversible Temperature-Sensitive Liquid–Solid Triboelectrification with Polycaprolactone Material for Wetting Monitoring and Temperature Sensing. *Advanced Functional Materials*, **2021**, 31, 2010220	15.6	10
480	Mussel-Inspired Underwater Adhesives-from Adhesion Mechanisms to Engineering Applications: A Critical Review **2021**, 739-759		1
479	Robust Superlubricity and Moiré Lattice's Size Dependence on Friction between Graphdiyne Layers. *ACS Applied Materials & Interfaces*, **2021**, 13, 40901-40908	9.5	0
478	Controlling the tribological behavior at the friction interface by regulating the triboelectrification. *Nano Energy*, **2021**, 87, 106183	17.1	6
477	Imparting Strong Antifouling Properties to the Transparent PVB Coating through the Zwitterionic Compound Condensation. *Coatings*, **2021**, 11, 1164	2.9	0
476	Synthesis of charged chitosan nanoparticles as functional biolubricant. *Colloids and Surfaces B: Biointerfaces*, **2021**, 206, 111973	6	2
475	Physicochemical and tribological performances of GAILs as lubricants for copper and aluminum friction counterfaces. *Journal of Molecular Liquids*, **2021**, 342, 117371	6	
474	Functionalized phosphate ionic liquids as additives in PEG with excellent tribological properties for boundary/mixed/elastohydrodynamic lubrication. *Tribology International*, **2021**, 164, 107242	4.9	3
473	Complete Prevention of Contact Electrification by Molecular Engineering. *Matter*, **2021**, 4, 290-301	12.7	7
472	An effective strategy for hydrogen supply: catalytic acceptorless dehydrogenation of N-heterocycles. *Catalysis Science and Technology*, **2021**, 11, 3990-4007	5.5	3
471	Cartilage Mimics Adaptive Lubrication. *ACS Applied Materials & Interfaces*, **2020**, 12, 51114-51121	9.5	7
470	Embedded polyzwitterionic brush-modified nanofibrous membrane through subsurface-initiated polymerization for highly efficient and durable oil/water separation. *Journal of Colloid and Interface Science*, **2020**, 575, 388-398	9.3	18
469	Polystyrene Nanospheres Modified with a Hydrophilic Polymer Brush through Subsurface-Initiated Atom Transfer Radical Polymerization as Biolubricating Additive. *Macromolecular Materials and Engineering*, **2020**, 305, 2000135	3.9	3

468	Mussel-inspired hydrogels: from design principles to promising applications. *Chemical Society Reviews*, **2020**, 49, 3605-3637	58.5	153
467	3D printing of metal-organic frameworks decorated hierarchical porous ceramics for high-efficiency catalytic degradation. *Chemical Engineering Journal*, **2020**, 397, 125392	14.7	33
466	New Self-Healing Triboelectric Nanogenerator Based on Simultaneous Repair Friction Layer and Conductive Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 30390-30398	9.5	35
465	Zinc-Ion Batteries: 2D Amorphous V2O5/Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability (Adv. Energy Mater. 22/2020). *Advanced Energy Materials*, **2020**, 10, 2070100	21.8	2
464	Solvent-driven migration of highly polar monomers into hydrophobic PDMS produces a thick graft layer via subsurface initiated ATRP for efficient antibiofouling. *Chemical Communications*, **2020**, 56, 5030-5033	5.8	5
463	2D Amorphous V2O5/Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. *Advanced Energy Materials*, **2020**, 10, 2000081	21.8	128
462	Superhydrophobic nickel/carbon core–shell nanocomposites for the hydrogen transfer reactions of nitrobenzene and N-heterocycles. *Green Chemistry*, **2020**, 22, 1996-2010	10	16
461	Understanding Adsorption Behaviors of Organic Friction Modifiers on Hydroxylated SiO (001) Surfaces: Effects of Molecular Polarity and Temperature. *Langmuir*, **2020**, 36, 8543-8553	4	4
460	Improving the fretting biocorrosion of Ti6Al4V alloy bone screw by decorating structure optimised TiO2 nanotubes layer. *Journal of Materials Science and Technology*, **2020**, 49, 47-55	9.1	5
459	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. *Energy and Environmental Science*, **2020**, 13, 821-829	35.4	47
458	In situ covalent bonding in polymerization to construct robust hydrogel lubrication coating on surface of silicone elastomer. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 599, 124753	5.1	6
457	Chameleon Luminophore for Erasable Encrypted and Decrypted Devices: From Dual-Channel, Programmable, Smart Sensory Lanthanide Hydrogel to Logic Devices. *ACS Applied Materials & Interfaces*, **2020**, 12, 19955-19964	9.5	18
456	Anisotropic Hydrogels with High Mechanical Strength by Stretching-Induced Oriented Crystallization and Drying. *ACS Applied Polymer Materials*, **2020**, 2, 2142-2150	4.3	3
455	Ionic liquid lubricants: when chemistry meets tribology. *Chemical Society Reviews*, **2020**, 49, 7753-7818	58.5	75
454	The ecotoxicity and tribological properties of choline monocarboxylate ionic liquid lubricants. *Lubrication Science*, **2020**, 32, 1-9	1.3	2
453	A simple construction strategy for fabrication of sulfur-doped silicate materials from attapulgite. *New Journal of Chemistry*, **2020**, 44, 401-414	3.6	3
452	Bioinspired synthetic wet adhesives: from permanent bonding to reversible regulation. *Current Opinion in Colloid and Interface Science*, **2020**, 47, 84-98	7.6	12
451	Significantly Reducing Friction and Wear of Water-Based Fluids with Shear Thinning Bicomponent Supramolecular Hydrogels. *Advanced Materials Interfaces*, **2020**, 7, 2001084	4.6	4

450	Fibers reinforced composite hydrogels with improved lubrication and load-bearing capacity. *Friction*, **2020**, 1	5.6	4
449	3D Printing of High-Performance Isocyanate Ester Thermosets. *Macromolecular Materials and Engineering*, **2020**, 305, 2000397	3.9	5
448	Regulation and influence factors of triboelectricity at the solid-liquid interface. *Nano Energy*, **2020**, 78, 105370	17.1	24
447	Self-polishing emulsion platforms: Eco-friendly surface engineering of coatings toward water borne marine antifouling. *Progress in Organic Coatings*, **2020**, 149, 105945	4.8	6
446	Extremely Tough Hydrogels with Cotton Fibers Reinforced. *Advanced Engineering Materials*, **2020**, 22, 2000508	3.5	6
445	Biofilm material based triboelectric nanogenerator with high output performance in 95% humidity environment. *Nano Energy*, **2020**, 77, 105088	17.1	25
444	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. *Science Advances*, **2020**, 6,	14.3	50
443	3D Printing of Dual-Physical Cross-linking Hydrogel with Ultrahigh Strength and Toughness. *Chemistry of Materials*, **2020**, 32, 9983-9995	9.6	30
442	Enhancement of the ballistic performance of aramid fabric with polyurethane and shear thickening fluid. *Materials and Design*, **2020**, 196, 109015	8.1	13
441	High Lubricity Meets Load Capacity: Cartilage Mimicking Bilayer Structure by Brushing Up Stiff Hydrogels from Subsurface. *Advanced Functional Materials*, **2020**, 30, 2004062	15.6	32
440	Effect of Electric Potential and Chain Length on Tribological Performances of Ionic Liquids as Additives for Aqueous Systems and Molecular Dynamics Simulations. *ACS Applied Materials & Interfaces*, **2020**, 12, 39910-39919	9.5	12
439	Subsurface-initiated atom transfer radical polymerization: effect of graft layer thickness and surface morphology on antibiofouling properties against different foulants. *Journal of Materials Science*, **2020**, 55, 14544-14557	4.3	4
438	Layered Hydrogel with Controllable Surface Dissociation for Durable Lubrication. *Chemistry of Materials*, **2020**, 32, 7805-7813	9.6	8
437	Robust Photothermal Coating Strategy for Efficient Ice Removal. *ACS Applied Materials & Interfaces*, **2020**, 12, 46981-46990	9.5	29
436	MOF-aided topotactic transformation into nitrogen-doped porous Mo2C mesocrystals for upgrading the pH-universal hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 20429-20435	13	12
435	Facile Preparation and Tribological Properties of Water-Based Naphthalene Dicarboxylate Ionic Liquid Lubricating Additives. *Tribology Letters*, **2020**, 68, 1	2.8	8
434	Natural Product Inspired Environmentally Friendly Strategy Based on Dopamine Chemistry toward Sustainable Marine Antifouling. *ACS Omega*, **2020**, 5, 21524-21530	3.9	1
433	Surface functionalization □a new functional dimension added to 3D printing. *Journal of Materials Chemistry C*, **2020**, 8, 12380-12411	7.1	15

432	Scalable fabrication of printed Zn//MnO planar micro-batteries with high volumetric energy density and exceptional safety. *National Science Review*, **2020**, 7, 64-72	10.8	80
431	Lubricating properties of ester oil prepared from bio-based 2,5-furandicarboxylic acid. *Friction*, **2020**, 8, 360-369	5.6	6
430	Towards superior lubricity and anticorrosion performances of proton-type ionic liquids additives for water-based lubricating fluids. *Chemical Engineering Journal*, **2020**, 383, 123201	14.7	44
429	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. *Advanced Functional Materials*, **2019**, 29, 1902860	15.6	64
428	Simultaneous Surface Covalent Bonding and Radical Polymerization for Constructing Robust Soft Actuators with Fast Underwater Response. *Chemistry of Materials*, **2019**, 31, 9504-9512	9.6	21
427	Facile preparation of antifouling hydrogel architectures for drag reduction and oil/sea water separation. *Materials Today Communications*, **2019**, 21, 100618	2.5	3
426	Reversely Orthogonal Actuation of a Janus-Faced Film Based on Asymmetric Polymer Brush Modification. *ACS Applied Materials & Interfaces*, **2019**, 11, 36073-36080	9.5	8
425	Core-Shell Fiber-Based 2D Woven Triboelectric Nanogenerator for Effective Motion Energy Harvesting. *Nanoscale Research Letters*, **2019**, 14, 311	5	14
424	Grafting Robust Thick Zwitterionic Polymer Brushes via Subsurface-Initiated Ring-Opening Metathesis Polymerization for Antimicrobial and Anti-Biofouling. *ACS Applied Materials & Interfaces*, **2019**, 11, 39171-39178	9.5	37
423	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. *Energy and Environmental Science*, **2019**, 12, 1534-1541	35.4	129
422	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. *Small*, **2019**, 15, e1802931	11	10
421	Additively manufacturing high-performance bismaleimide architectures with ultraviolet-assisted direct ink writing. *Materials and Design*, **2019**, 180, 107947	8.1	31
420	Solid□liquid Triboelectrification Control and Antistatic Materials Design Based on Interface Wettability Control. *Advanced Functional Materials*, **2019**, 29, 1903587	15.6	36
419	Naphthoate based lubricating oil with high oxidation stability and lubricity. *Tribology International*, **2019**, 138, 204-210	4.9	6
418	Brushing up functional materials. *NPG Asia Materials*, **2019**, 11,	10.3	57
417	Superior Lubricity and Antiwear Performances Enabled by Porous Carbon Nanospheres with Different Shell Microstructures. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	5
416	Mussel-Inspired One-Step Fabrication of Ultralow-Friction Coatings on Diverse Biomaterial Surfaces. *Langmuir*, **2019**, 35, 8068-8075	4	15
415	Fabrication of Asymmetric Tubular Hydrogels through Polymerization-Assisted Welding for Thermal Flow Actuated Artificial Muscles. *Chemistry of Materials*, **2019**, 31, 4469-4478	9.6	21

414	In Situ Grafting Hydrophilic Polymeric Layer for Stable Drag Reduction. *Langmuir*, **2019**, 35, 7205-7211	4	6
413	Water-solid triboelectrification with self-repairable surfaces for water-flow energy harvesting. *Nano Energy*, **2019**, 61, 454-461	17.1	49
412	Polymerization induced phase separation as a generalized methodology for multi-layered hydrogel tubes. *Journal of Materials Chemistry B*, **2019**, 7, 3505-3511	7.3	3
411	Material-Independent Surface Chemistry beyond Polydopamine Coating. *Accounts of Chemical Research*, **2019**, 52, 704-713	24.3	168
410	Soft-nanocomposite lubricants of supramolecular gel with carbon nanotubes. *Journal of Materials Chemistry A*, **2019**, 7, 7654-7663	13	11
409	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. *Journal of Materials Chemistry A*, **2019**, 7, 9478-9485	13	74
408	Direct ink writing with high-strength and swelling-resistant biocompatible physically crosslinked hydrogels. *Biomaterials Science*, **2019**, 7, 1805-1814	7.4	57
407	On-Site Surface Coordination Complexation via Mechanochemistry for Versatile Metal–Phenolic Networks Films. *Advanced Materials Interfaces*, **2019**, 6, 1801789	4.6	7
406	Direct Ink Writing of High Performance Architectured Polyimides with Low Dimensional Shrinkage. *Advanced Engineering Materials*, **2019**, 21, 1801314	3.5	23
405	Facile preparation of structured zwitterionic polymer substrate via sub-surface initiated atom transfer radical polymerization and its synergistic marine antifouling investigation. *European Polymer Journal*, **2019**, 112, 146-152	5.2	28
404	New Method for the Corrosion Resistance of AZ31 Mg Alloy with a Porous Micro-Arc Oxidation Membrane as an Ionic Corrosion Inhibitor Container. *Langmuir*, **2019**, 35, 1134-1145	4	29
403	Synthesizing Functional Biomacromolecular Wet Adhesives with Typical Gel-Sol Transition and Shear-Thinning Features. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4293-4301	5.5	8
402	Goosebumps-Inspired Microgel Patterns with Switchable Adhesion and Friction. *Small*, **2019**, 15, e1902376	11	9
401	Enhancing the Performance of Textile Triboelectric Nanogenerators with Oblique Microrod Arrays for Wearable Energy Harvesting. *ACS Applied Materials & Interfaces*, **2019**, 11, 26824-26829	9.5	28
400	Adaptive control in lubrication, adhesion, and hemostasis by Chitosan-Catechol-pNIPAM. *Biomaterials Science*, **2019**, 7, 3599-3608	7.4	21
399	Mussel-Inspired Two-Dimensional Freestanding Alkyl-Polydopamine Janus Nanosheets. *Angewandte Chemie*, **2019**, 131, 12146-12150	3.6	1
398	Mussel-Inspired Two-Dimensional Freestanding Alkyl-Polydopamine Janus Nanosheets. *Angewandte Chemie - International Edition*, **2019**, 58, 12018-12022	16.4	23
397	First-Principles Delimitation of the Boundary between Intralayer and Interlayer in Two-Dimensional Structures. *Journal of Physical Chemistry C*, **2019**, 123, 26912-26920	3.8	9

396	Drawing High-Definition and Reversible Hydrogel Paintings with Grayscale Exposure. *ACS Applied Materials & Interfaces*, **2019**, 11, 42586-42593	9.5	12
395	Goosebumps: Goosebumps-Inspired Microgel Patterns with Switchable Adhesion and Friction (Small 35/2019). *Small*, **2019**, 15, 1970185	11	
394	Competitive self-assembly driven as a route to control the morphology of poly(tannic acid) assemblies. *Nanoscale*, **2019**, 11, 4751-4758	7.7	11
393	Novel Anticorrosion Property of Organic Coating Based on Liquid Metal. *Advanced Materials Interfaces*, **2019**, 6, 1900942	4.6	3
392	Fretting corrosion of screws contribute to the fixation failure of the femoral neck: a case report. *Biosurface and Biotribology*, **2019**, 5, 118-123	1	
391	3D Printing of Photocuring Elastomers with Excellent Mechanical Strength and Resilience. *Macromolecular Rapid Communications*, **2019**, 40, e1800873	4.8	23
390	3D Printing of Hydrogel Architectures with Complex and Controllable Shape Deformation. *Advanced Materials Technologies*, **2019**, 4, 1800713	6.8	38
389	Growth of TiO2 Nanotube on Titanium Substrate to Enhance its Biotribological Performance and Biocorrosion Resistance. *Journal of Bionic Engineering*, **2019**, 16, 1039-1051	2.7	6
388	Piezoelectric nanofiber/polymer composite membrane for noise harvesting and active acoustic wave detection. *Nanoscale Advances*, **2019**, 1, 4909-4914	5.1	3
387	3D printing of bioinspired topographically oriented surfaces with frictional anisotropy for directional driving. *Tribology International*, **2019**, 132, 99-107	4.9	13
386	Biomimetic Surface with Tunable Frictional Anisotropy Enabled by Photothermogenesis-Induced Supporting Layer´Rigidity Variation. *Advanced Materials Interfaces*, **2019**, 6, 1801460	4.6	10
385	Ultrasonic Enhancement of CO2 Desorption from MDEA Solution in Microchannels. *Industrial & Engineering Chemistry Research*, **2019**, 58, 1711-1719	3.9	7
384	Anisotropic Friction: Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction (Small 1/2019). *Small*, **2019**, 15, 1970005	11	3
383	Mosquito Compound Eyes as Inspiration for Fabrication of Conductive Superhydrophobic Nanocarbon Materials from Waste Wheat Straw. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3883-3894	8.3	9
382	Synergistic effect of hydrophobic film and porous MAO membrane containing alkynol inhibitor for enhanced corrosion resistance of magnesium alloy. *Surface and Coatings Technology*, **2019**, 357, 515-525	4.4	28
381	Sundew-Inspired Simultaneous Actuation and Adhesion/Friction Control for Reversibly Capturing Objects Underwater. *Advanced Materials Technologies*, **2019**, 4, 1800467	6.8	13
380	Leaves based triboelectric nanogenerator (TENG) and TENG tree for wind energy harvesting. *Nano Energy*, **2019**, 55, 260-268	17.1	104
379	Novel N , P-containing oil-soluble ionic liquids with excellent tribological and anti-corrosion performance. *Tribology International*, **2019**, 132, 118-129	4.9	38

378	In situ preparation of multifunctional additives in water. *Tribology International*, **2019**, 130, 317-323	4.9	17
377	Oil-soluble ionic liquids as antiwear and extreme pressure additives in poly-□olefin for steel/steel contacts. *Friction*, **2019**, 7, 18-31	5.6	25
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