Jie Zhao

List of Publications by Year in descending order

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114 papers	3,815 citations	126901 33 h-index	149686 56 g-index
116 all docs	116 docs citations	116 times ranked	3994 citing authors

#	Article	IF	Citations
1	Improved biocompatibility and antifouling property of polypropylene non-woven fabric membrane by surface grafting zwitterionic polymer. Journal of Membrane Science, 2011, 369, 5-12.	8.2	182
2	Bioinspired marine antifouling coatings: Status, prospects, and future. Progress in Materials Science, 2022, 124, 100889.	32.8	181
3	Shape memory superhydrophobic surface with switchable transition between â€œLotus Effectâ€•to â€œRose Petal Effectâ€• Chemical Engineering Journal, 2020, 382, 122989.	12.7	168
4	Synergistic Photodynamic and Photothermal Antibacterial Nanocomposite Membrane Triggered by Single NIR Light Source. ACS Applied Materials & Interfaces, 2019, 11, 26581-26589.	8.0	166
5	Dual-Functional Antifogging/Antimicrobial Polymer Coating. ACS Applied Materials & Interfaces, 2016, 8, 8737-8742.	8.0	155
6	Lotus-leaf-inspired hierarchical structured surface with non-fouling and mechanical bactericidal performances. Chemical Engineering Journal, 2020, 398, 125609.	12.7	145
7	Identification of Streamflow Response to Climate Change and Human Activities in the Wei River Basin, China. Water Resources Management, 2014, 28, 833-851.	3.9	115
8	Temperature-Responsive Hierarchical Polymer Brushes Switching from Bactericidal to Cell Repellency. ACS Applied Materials & Interfaces, 2017, 9, 40930-40939.	8.0	86
9	Acrylic coatings with surprising antifogging and frost-resisting properties. Chemical Communications, 2013, 49, 11764.	4.1	84
10	Antibacterial and Hemocompatibility Switchable Polypropylene Nonwoven Fabric Membrane Surface. ACS Applied Materials & Interfaces, 2013, 5, 5260-5268.	8.0	84
11	Near-infrared light triggered photodynamic and nitric oxide synergistic antibacterial nanocomposite membrane. Chemical Engineering Journal, 2021, 417, 128049.	12.7	84
12	Self-Stratified Antimicrobial Acrylic Coatings via One-Step UV Curing. ACS Applied Materials & Interfaces, 2015, 7, 18467-18472.	8.0	74
13	Synergistic Superhydrophobic and Photodynamic Cotton Textiles with Remarkable Antibacterial Activities. ACS Applied Bio Materials, 2019, 2, 2756-2765.	4.6	72
14	Flexible Self-Cleaning Broadband Antireflective Film Inspired by the Transparent Cicada Wings. ACS Applied Materials & Interfaces, 2019, 11, 17019-17027.	8.0	67
15	Multistimuli-Responsive Microstructured Superamphiphobic Surfaces with Large-Range, Reversible Switchable Wettability for Oil. ACS Applied Materials & Interfaces, 2019, 11, 28478-28486.	8.0	66
16	Anti-bioadhesion on hierarchically structured, superhydrophobic surfaces. Chemical Communications, 2013, 49, 9191.	4.1	65
17	Recent advances in emerging integrated antifouling and anticorrosion coatings. Materials and Design, 2022, 213, 110307.	7.0	59
18	Functionalized polypropylene non-woven fabric membrane with bovine serum albumin and its hemocompatibility enhancement. Colloids and Surfaces B: Biointerfaces, 2013, 102, 45-52.	5.0	58

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19	Surface modification of poly(styrene-b-(ethylene-co-butylene)-b-styrene) elastomer via UV-induced graft polymerization of N-vinyl pyrrolidone. Colloids and Surfaces B: Biointerfaces, 2012, 93, 127-134.	5.0	54
20	Nuclease-Functionalized Poly(Styrene-‹i›b‹/i›-isobutylene-‹i›b‹/i›-styrene) Surface with Anti-Infection and Tissue Integration Bifunctions. ACS Applied Materials & Interfaces, 2014, 6, 18078-18086.	8.0	53
21	Biomimetic preparation of a polycaprolactone membrane with a hierarchical structure as a highly efficient oilâ€“water separator. Journal of Materials Chemistry A, 2019, 7, 24532-24542.	10.3	52
22	Fabrication of PP-g-PEGMA-g-heparin and its hemocompatibility: From protein adsorption to anticoagulant tendency. Applied Surface Science, 2012, 258, 5841-5849.	6.1	50
23	Comparative Genomics of the Herbivore Gut Symbiont Lactobacillus reuteri Reveals Genetic Diversity and Lifestyle Adaptation. Frontiers in Microbiology, 2018, 9, 1151.	3.5	49
24	Selective Hydrogenation of Furfural over the Co-Based Catalyst: A Subtle Synergy with Ni and Zn Dopants. ACS Applied Materials & Interfaces, 2021, 13, 8507-8517.	8.0	49
25	Nanofiber Composite Coating with Self-Healing and Active Anticorrosive Performances. ACS Applied Materials & Interfaces, 2021, 13, 57880-57892.	8.0	47
26	A Novel Strategy to Engineer Smallâ€Diameter Vascular Grafts From Marrowâ€Derived Mesenchymal Stem Cells. Artificial Organs, 2012, 36, 93-101.	1.9	46
27	Fabrication of a Detection Platform with Boronic-Acid-Containing Zwitterionic Polymer Brush. ACS Applied Materials & Interfaces, 2013, 5, 13207-13215.	8.0	45
28	Self-enriched mesoporous silica nanoparticle composite membrane with remarkable photodynamic antimicrobial performances. Journal of Colloid and Interface Science, 2020, 559, 197-205.	9.4	45
29	Polypropylene modified with 2-hydroxyethyl acrylate-g-2-methacryloyloxyethyl phosphorycholine and its hemocompatibility. Applied Surface Science, 2010, 256, 7071-7076.	6.1	40
30	A facile antifogging/frost-resistant coating with self-healing ability. Chemical Engineering Journal, 2019, 378, 122173.	12.7	40
31	Biocompatibility of polypropylene non-woven fabric membrane via UV-induced graft polymerization of 2-acrylamido-2-methylpropane sulfonic acid. Applied Surface Science, 2011, 258, 425-430.	6.1	39
32	Waterborne UV-curable polycarbonate polyurethane nanocomposites based on polydimethylsiloxane and colloidal silica with enhanced mechanical and surface properties. RSC Advances, 2014, 4, 30938.	3.6	37
33	Response of runoff to climate change in the Wei River basin, China. Hydrological Sciences Journal, 2015, 60, 508-522.	2.6	36
34	Near-infrared light accurately controllable superhydrophobic surface from water sticking to repelling. Chemical Engineering Journal, 2022, 427, 131718.	12.7	36
35	Terpolymer-based SIPN coating with excellent antifogging and frost-resisting properties. RSC Advances, 2015, 5, 102560-102566.	3.6	35
36	Fabrication of silver-decorated sulfonated polystyrene microspheres for surface-enhanced Raman scattering and antibacterial applications. RSC Advances, 2015, 5, 69543-69554.	3.6	34

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37	Bacterial adaptability of enzyme and pH dual-responsive surface for infection resistance. Journal of Materials Chemistry B, 2018, 6, 7710-7718.	5.8	33
38	Improving hemocompatibility of styrene-b-(ethylene-co-butylene)-b-styrene elastomer via N-vinyl pyrrolidone-assisted grafting of poly(ethylene glycol) methacrylate. Polymer, 2012, 53, 1675-1683.	3.8	32
39	Impacts of climate change on hydrological processes in the Tibetan Plateau: a case study in the Lhasa River basin. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1809-1822.	4.0	32
40	Improved dynamic stability of superomniphobic surfaces and droplet transport on slippery surfaces by dual-scale re-entrant structures. Chemical Engineering Journal, 2020, 394, 124871.	12.7	31
41	Small Structure, Large Effect: Functional Surfaces Inspired by Salvinia Leaves. Small Structures, 2021, 2, 2100079.	12.0	29
42	Selective Synthesis of 3â€(Î±â€Fluorovinyl)indoles and 3â€Acylindoles via the Cascade Reactions of 1â€Phenylpyrazolidinones with Î±,Î±â€Difluoromethylene Alkynes. Advanced Synthesis and Catalysis, 2021, 363, 3600-3606.	4.3	28
43	Synergistic Coating Strategy Combining Photodynamic Therapy and Fluoride-Free Superhydrophobicity for Eradicating Bacterial Adhesion and Reinforcing Corrosion Protection. ACS Applied Materials & Interfaces, 2020, 12, 46862-46873.	8.0	27
44	Toward the Application of Graphene for Combating Marine Biofouling. Advanced Sustainable Systems, 2021, 5, .	5.3	27
45	Multifunctional superhydrophobic surface with dynamically controllable micro/nanostructures for droplet manipulation and friction control. Chemical Engineering Journal, 2021, 417, 127944.	12.7	27
46	Surface modification of poly(styrene-b-(ethylene-co-butylene)-b-styrene) elastomer via photo-initiated graft polymerization of poly(ethylene glycol). Applied Surface Science, 2012, 258, 2344-2349.	6.1	26
47	An InGaN/GaN Superlattice to Enhance the Performance of Green LEDs: Exploring the Role of V-Pits. Nanomaterials, 2018, 8, 450.	4.1	26
48	Near-infrared triggered antibacterial nanocomposite membrane containing upconversion nanoparticles. Materials Science and Engineering C, 2019, 103, 109797.	7.3	25
49	Synthesis of 1,3-Benzodiazepines through [5 + 2] Annulation of N-Aryl Amidines with Propargylic Esters. Organic Letters, 2020, 22, 9506-9512.	4.6	25
50	Numerical modeling of seawater intrusion in Zhoushuizi district of Dalian City in northern China. Environmental Earth Sciences, 2016, 75, 1.	2.7	23
51	Biocompatible mechano-bactericidal nanopatterned surfaces with salt-responsive bacterial release. Acta Biomaterialia, 2022, 141, 198-208.	8.3	23
52	Combined Effects of Color and Elastic Modulus on Antifouling Performance: A Study of Graphene Oxide/Silicone Rubber Composite Membranes. Materials, 2019, 12, 2608.	2.9	22
53	Formation and Antibacterial Performance of Metalâ€“Organic Framework Films via Dopamine-Mediated Fast Assembly under Visible Light. ACS Sustainable Chemistry and Engineering, 2020, 8, 15834-15842.	6.7	22
54	Large-Scale Bio-Inspired Flexible Antireflective Film with Scale-Insensitivity Arrays. ACS Applied Materials & Interfaces, 2021, 13, 23103-23112.	8.0	21

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55	Bioinspired nanopillar surface for switchable mechano-bactericidal and releasing actions. Journal of Hazardous Materials, 2022, 432, 128685.	12.4	21
56	Thermoresponsive Nanostructures: From Mechano-Bactericidal Action to Bacteria Release. ACS Applied Materials & Interfaces, 2021, 13, 60865-60877.	8.0	21
57	Bio-inspired antifogging PDMS coupled micro-pillared superhydrophobic arrays and SiO₂ coatings. RSC Advances, 2018, 8, 26497-26505.	3.6	20
58	Dioxide/Chitosan/poly(lactide-co-caprolactone) composite membrane with efficient Cu(II) adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123687.	4.7	20
59	Synthesis of tetracyclic indenopyrazolopyrazolones through cascade reactions of aryl azomethine imines with propargyl alcohols. Organic Chemistry Frontiers, 2021, 8, 3734-3739.	4.5	20
60	UV curable stimuli-responsive coatings with antifogging and oil-repellent performances. Journal of Materials Chemistry A, 2021, 9, 26028-26035.	10.3	20
61	Enhanced biocompatibility of biostable poly(styrene-b-isobutylene-b-styrene) elastomer via poly(dopamine)-assisted chitosan/hyaluronic acid immobilization. RSC Advances, 2014, 4, 31481.	3.6	19
62	Bio-inspired Superhydrophobic Self-healing Surfaces with Synergistic Anticorrosion Performance. Journal of Bionic Engineering, 2020, 17, 1196-1208.	5.0	19
63	N-vinyl pyrrolidone-assisted free radical functionalization of glycidyl methacrylate onto styrene-b-(ethylene-co-butylene)-b-styrene. Reactive and Functional Polymers, 2010, 70, 961-966.	4.1	18
64	Improvement in Light Output of Ultraviolet Light-Emitting Diodes with Patterned Double-Layer ITO by Laser Direct Writing. Nanomaterials, 2019, 9, 203.	4.1	18
65	Discovery of 1-Amino-1H-imidazole-5-carboxamide Derivatives as Highly Selective, Covalent Brutonâ€™s Tyrosine Kinase (BTK) Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 16242-16270.	6.4	17
66	Synthesis of amphiphilic poly(cyclooctene)-graft-poly(ethylene glycol) copolymersviaROMP and its surface properties. Polymer Chemistry, 2011, 2, 679-684.	3.9	16
67	Effect of Dielectric Distributed Bragg Reflector on Electrical and Optical Properties of GaN-Based Flip-Chip Light-Emitting Diodes. Micromachines, 2018, 9, 650.	2.9	16
68	Highly efficient antifogging and frost-resisting acrylic coatings from one-step thermal curing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124160.	4.7	16
69	Synthesis of amphiphilic polycyclooctene-graftâ€“poly(ethylene glycol) copolymers by ring-opening metathesis polymerization. Reactive and Functional Polymers, 2010, 70, 449-455.	4.1	15
70	Surface functionalization of styrenic block copolymer elastomeric biomaterials with hyaluronic acid via a â€œgrafting toâ€•strategy. Colloids and Surfaces B: Biointerfaces, 2013, 112, 146-154.	5.0	15
71	Acetate kinase and peptidases are associated with the proteolytic activity of Lactobacillus helveticus isolated from fermented food. Food Microbiology, 2021, 94, 103651.	4.2	15
72	Synthesis of Succinimide Spiro-Fused Sultams from the Reaction of N-(Phenylsulfonyl)acetamides with Maleimides via C(sp²)â€“H Activation. Journal of Organic Chemistry, 2021, 86, 10330-10342.	3.2	15

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73	Synthesis of Hydroxysuccinimide Substituted Indolin-3-ones via One-Pot Cascade Reaction of o-Alkynylnitrobenzenes with Maleimides under Au(III)â€“Cu(II) Relay/Synergetic Catalysis. Journal of Organic Chemistry, 2021, 86, 14652-14662.	3.2	15
74	Super-repellent photodynamic bactericidal hybrid membrane. Journal of Membrane Science, 2020, 614, 118482.	8.2	14
75	Surprisingly fast assembly of the MOF film for synergetic antibacterial phototherapeutics. Green Chemistry, 2022, 24, 5930-5940.	9.0	13
76	Polypropylene non-woven fabric membrane via surface modification with biomimetic phosphorylcholine in Ce(IV)/HNO3 redox system. Materials Science and Engineering C, 2012, 32, 1785-1789.	7.3	12
77	Triple-scale structured superhydrophobic and highly oleophobic surfaces. RSC Advances, 2013, 3, 22332.	3.6	12
78	A Biomimetic Surface for Infection-resistance through Assembly of Metal-phenolic Networks. Chinese Journal of Polymer Science (English Edition), 2018, 36, 576-583.	3.8	12
79	Colorimetric/fluorescent dual channel sensitive coating for early detection of copper alloy corrosion. Materials Letters, 2020, 265, 127419.	2.6	12
80	Precise Controlling of Friction and Adhesion on Reprogrammable Shape Memory Micropillars. ACS Applied Materials & Interfaces, 2022, 14, 17995-18003.	8.0	12
81	Efficient Production of Nisin A from Low-Value Dairy Side Streams Using a Nonengineered Dairy Lactococcus lactis Strain with Low Lactate Dehydrogenase Activity. Journal of Agricultural and Food Chemistry, 2021, 69, 2826-2835.	5.2	11
82	De novo design and synthesis of dipyridopurinone derivatives as visible-light photocatalysts in productive guanylation reactions. Chemical Science, 2021, 12, 15988-15997.	7.4	11
83	Construction of anti-thrombotic and anti-oxidative surfaces with elastomer/Pluronic F127 assembled microfibers. Applied Surface Science, 2018, 451, 76-85.	6.1	10
84	Exploring the industrial potential of Lactobacillus delbrueckii ssp. bulgaricus by population genomics and genome-wide association study analysis. Journal of Dairy Science, 2021, 104, 4044-4055.	3.4	10
85	Effect of polyether soft segments on structure and properties of waterborne UV-curable polyurethane nanocomposites. Journal of Coatings Technology Research, 2015, 12, 563-569.	2.5	9
86	Anti-adhesive and bactericidal polymeric coating based on Schiff-base reaction. Materials Letters, 2019, 250, 182-185.	2.6	9
87	Dynamically oleophobic epoxy coating with surface enriched in silicone. Progress in Organic Coatings, 2021, 154, 106170.	3.9	9
88	Metal-organic framework (MOF)-based slippery liquid-infused porous surface (SLIPS) for purely physical antibacterial applications. Applied Materials Today, 2022, 27, 101430.	4.3	9
89	High-efficiency immunoassay platforms with controllable surface roughness and oriented antibody immobilization. Journal of Materials Chemistry B, 2015, 3, 7499-7502.	5.8	8
90	A comblike polysiloxane with pendant quaternary ammonium polyether groups: its synthesis, physical properties and antibacterial performance. Journal of Polymer Research, 2015, 22, 1.	2.4	8

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91	Parylene F coatings for combating marine biofouling. Materials Letters, 2021, 285, 129141.	2.6	8
92	Genomics landscape of 185 Streptococcus thermophilus and identification of fermentation biomarkers. Food Research International, 2021, 150, 110711.	6.2	8
93	Sensitivity of Potential Evapotranspiration to Climate and Vegetation in a Water-Limited Basin at the Northern Edge of Tibetan Plateau. Water Resources Management, 2016, 30, 4667-4680.	3.9	7
94	Grafting of thermo- and pH-responsive polymer inside mesoporous silica foam in supercritical carbon dioxide for controlled release of 5-fluorouracil. Fibers and Polymers, 2017, 18, 2476-2480.	2.1	7
95	Recyclable, non-leaching antimicrobial magnetic nanoparticles. Chinese Chemical Letters, 2019, 30, 2047-2050.	9.0	7
96	Structure-activity relationship investigation for imidazopyrazole-3-carboxamide derivatives as novel selective inhibitors of Bruton's tyrosine kinase. European Journal of Medicinal Chemistry, 2021, 225, 113724.	5.5	7
97	A synergistic antibacterial platform: combining mechanical and photothermal effects based on Van-MoS‹sub›2‹/sub›â€“Au nanocomposites. Nanotechnology, 2021, 32, 085102.	2.6	7
98	Mechanically Enhanced Self-Stratified Acrylic/Silicone Antifouling Coatings. Coatings, 2022, 12, 232.	2.6	7
99	Fabricating antigen recognition and anti-bioadhesion polymeric surface via a photografting polymerization strategy. Materials Science and Engineering C, 2014, 36, 57-64.	7.3	6
100	Oriented Antibody Immobilization and Immunoassay Based on Boronic Acid-containing Polymer Brush. Chinese Journal of Polymer Science (English Edition), 2018, 36, 472-478.	3.8	6
101	Antifogging and Frost-Resisting Polymeric Surfaces. Advances in Polymer Science, 2018, , 185-214.	0.8	6
102	Exploring the antifouling effect of elastic deformation by DEMâ€“CFD coupling simulation. RSC Advances, 2019, 9, 40855-40862.	3.6	6
103	Film morphology of supramolecule CPES/ASO and its performance on cotton substrates. Fibers and Polymers, 2014, 15, 2112-2117.	2.1	5
104	Synthesis of Dihydroquinolinone Derivatives via the Cascade Reaction of ‹i›o‹/i›-Silylaryl Triflates with Pyrazolidinones. Journal of Organic Chemistry, 2021, 86, 15203-15216.	3.2	5
105	Tribological performance of microstructured surfaces with different wettability from superhydrophilic to superhydrophobic. Biosurface and Biotribology, 2020, 6, 118-123.	1.5	5
106	Biocompatible polypropylene prepared by a combination of melt grafting and surface restructuring. Journal of Applied Polymer Science, 2012, 126, 929-938.	2.6	4
107	Plasma Level of Elabela in Patients with Coronary Heart Disease and Its Correlation with the Disease Classification. International Heart Journal, 2021, 62, 752-755.	1.0	4
108	bulky methylphenyl groups: synthesis, characterization, crystal structures and application in catalytic polymerization of ethylene and styrene. Transition Metal Chemistry, 2014, 39, 769-779.	1.4	3

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109	A grid-based integrated surfaceâ€“groundwater model (GISMOD). Journal of Water and Climate Change, 2016, 7, 296-320.	2.9	3
110	Shape memory composite film for bacteria killing and biofilm detaching. Materials Letters, 2021, 286, 129186.	2.6	3
111	Comparative Genomics Revealed Wide Intra-Species Genetic Heterogeneity and Lineage-Specific Genes of Akkermansia muciniphila. Microbiology Spectrum, 2022, 10, e0243921.	3.0	3
112	Chemoenzymatic synthesis of 6â€²-sialolactose-modified nanobody. Journal of Carbohydrate Chemistry, 0, , 1-15.	1.1	2
113	A hybrid mode collaborative design system on the internet. , 0, , .		1
114	Secondary anti-fungi metabolites from the endophytic fungus Fusarium sp. in Eucommia ulmoides. Chemistry of Natural Compounds, 2012, 48, 170-171.	0.8	1