

# Jian Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6878998/publications.pdf>

Version: 2024-02-01

241  
papers

11,404  
citations

28274

55  
h-index

37204

96  
g-index

246  
all docs

246  
docs citations

246  
times ranked

13668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Modification of h-BN for High Thermal Conductive Composite Films with Aligned Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5701-5708.	8.0	403
2	Combination of Bioinspiration: A General Route to Superhydrophobic Particles. <i>Journal of the American Chemical Society</i> , 2012, 134, 9879-9881.	13.7	389
3	Creation of a Superhydrophobic Surface from an Amphiphilic Polymer. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 800-802.	13.8	386
4	Dynamic Self-Assembly Induced Rapid Dissolution of Cellulose at Low Temperatures. <i>Macromolecules</i> , 2008, 41, 9345-9351.	4.8	368
5	NiS <sub>2</sub> @CoS <sub>2</sub> nanocrystals encapsulated in N-doped carbon nanocubes for high performance lithium/sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 11, 67-74.	18.0	346
6	Oxime-Based and Catalyst-Free Dynamic Covalent Polyurethanes. <i>Journal of the American Chemical Society</i> , 2017, 139, 8678-8684.	13.7	290
7	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe <sub>2</sub> @C core-shell nanorods for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 10, 48-55.	18.0	221
8	Multi-membrane hydrogel fabricated by facile dynamic self-assembly. <i>Soft Matter</i> , 2009, 5, 1987.	2.7	211
9	The porous structure of the fully-aromatic polyamide film in reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 475, 504-510.	8.2	205
10	Bioinspired Materials: from Low to High Dimensional Structure. <i>Advanced Materials</i> , 2014, 26, 6994-7017.	21.0	198
11	A new approach to polymer/montmorillonite nanocomposites. <i>Polymer</i> , 2003, 44, 4619-4624.	3.8	197
12	Fabrication of Biomimetic Superhydrophobic Coating with a Micro-Nano-Binary Structure. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1075-1080.	3.9	195
13	Mussel-Inspired Chemistry for Robust and Surface-Modifiable Multilayer Films. <i>Langmuir</i> , 2011, 27, 13684-13691.	3.5	186
14	Superhydrophobic Surface from Vapor-Induced Phase Separation of Copolymer Micellar Solution. <i>Macromolecules</i> , 2005, 38, 8996-8999.	4.8	172
15	Hierarchical nanocomposite of polyaniline nanorods grown on the surface of carbon nanotubes for high-performance supercapacitor electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 2774-2780.	6.7	156
16	Mussel Inspired Modification of Polypropylene Separators by Catechol/Polyamine for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5602-5608.	8.0	147
17	Vacuum-Dried Robust Bridged Silsesquioxane Aerogels. <i>Advanced Materials</i> , 2013, 25, 4494-4497.	21.0	139
18	Investigation on sound absorption properties of kapok fibers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 521-529.	3.8	138

#	ARTICLE	IF	CITATIONS
19	Intelligent rubber with tailored properties for self-healing and shape memory. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12864-12872.	10.3	132
20	Cellulose/silver nanoparticles composite microspheres: eco-friendly synthesis and catalytic application. <i>Cellulose</i> , 2012, 19, 1239-1249.	4.9	114
21	Thermal Gelation of Cellulose in a NaOH/Thiourea Aqueous Solution. <i>Langmuir</i> , 2004, 20, 2086-2093.	3.5	113
22	Superelastic and ultralight polyimide aerogels as thermal insulators and particulate air filters. <i>Journal of Materials Chemistry A</i> , 2018, 6, 828-832.	10.3	113
23	Facile in situ synthesis of silver nanoparticles on boron nitride nanosheets with enhanced catalytic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16663-16669.	10.3	110
24	Fabrication of oriented hBN scaffolds for thermal interface materials. <i>RSC Advances</i> , 2016, 6, 16489-16494.	3.6	108
25	Stereodivergent Protein Engineering of a Lipase To Access All Possible Stereoisomers of Chiral Esters with Two Stereocenters. <i>Journal of the American Chemical Society</i> , 2019, 141, 7934-7945.	13.7	106
26	Fabrication and application of superhydrophilic surfaces: a review. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 769-790.	2.6	105
27	Protein diffusion in agarose hydrogel in situ measured by improved refractive index method. <i>Journal of Controlled Release</i> , 2006, 115, 189-196.	9.9	104
28	A Lotus-Leaf-Like Superhydrophobic Surface Prepared by Solvent-Induced Crystallization. <i>ChemPhysChem</i> , 2006, 7, 824-827.	2.1	100
29	Smart Enrichment and Facile Separation of Oil from Emulsions and Mixtures by Superhydrophobic/Superoleophilic Particles. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10475-10481.	8.0	99
30	Recyclable polybutadiene elastomer based on dynamic imine bond. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2011-2018.	2.3	97
31	Skin-Inspired Double-Hydrophobic Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. <i>Advanced Functional Materials</i> , 2021, 31, 2102433.	14.9	96
32	A novel and facile method to prepare porous hollow CuO and Cu nanofibers based on electrospinning. <i>CrystEngComm</i> , 2011, 13, 4856.	2.6	95
33	Facile fabrication of robust superhydrophobic porous materials and their application in oil/water separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23252-23260.	10.3	94
34	Superhydrophobic/Superhydrophilic Janus Fabrics Reducing Blood Loss. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701086.	7.6	94
35	3D conductive network-based free-standing PANI@RGO@MWNTs hybrid film for high-performance flexible supercapacitor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12340-12347.	10.3	92
36	Rapid sintering of silver nanoparticles in an electrolyte solution at room temperature and its application to fabricate conductive silver films using polydopamine as adhesive layers. <i>Journal of Materials Chemistry</i> , 2011, 21, 4875.	6.7	89

#	ARTICLE	IF	CITATIONS
37	Evaporation of Sessile Water Droplets on Superhydrophobic Natural Lotus and Biomimetic Polymer Surfaces. <i>ChemPhysChem</i> , 2006, 7, 2067-2070.	2.1	88
38	Recyclable, Self-Healing, Thermadapt Triple-Shape Memory Polymers Based on Dual Dynamic Bonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9833-9841.	8.0	88
39	Dynamic multiphase semi-crystalline polymers based on thermally reversible pyrazole-urea bonds. <i>Nature Communications</i> , 2019, 10, 4753.	12.8	86
40	Antifogging and antireflective silica film and its application on solar modules. <i>Surface and Coatings Technology</i> , 2011, 206, 1490-1494.	4.8	85
41	Bioinspired "Skin" with Cooperative Thermo-Optical Effect for Daytime Radiative Cooling. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25286-25293.	8.0	84
42	Chemically modified kapok fiber for fast adsorption of Pb <sup>2+</sup> , Cd <sup>2+</sup> , Cu <sup>2+</sup> from aqueous solution. <i>Cellulose</i> , 2013, 20, 849-860.	4.9	83
43	Robust Superhydrophobic Bridged Silsesquioxane Aerogels with Tunable Performances and Their Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2016-2024.	8.0	80
44	High-strength Cellulose/Poly(ethylene glycol) Gels. <i>ChemSusChem</i> , 2008, 1, 558-563.	6.8	77
45	Light-Driven Kinetic Resolution of $\beta$ -Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8474-8478.	13.8	77
46	Superstretchable Dynamic Polymer Networks. <i>Advanced Materials</i> , 2019, 31, e1904029.	21.0	75
47	Recyclable Polydimethylsiloxane Network Crosslinked by Dynamic Transesterification Reaction. <i>Scientific Reports</i> , 2017, 7, 11833.	3.3	72
48	A small-angle X-ray scattering study and molecular dynamics simulation of microvoid evolution during the tensile deformation of carbon fibers. <i>Carbon</i> , 2012, 50, 235-243.	10.3	71
49	Fabry-Perot Fringes and Their Application To Study the Film Growth, Chain Rearrangement, and Erosion of Hydrogen-Bonded PVPON/PAA Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13484-13490.	2.6	68
50	Anti-fogging and anti-frosting behaviors of layer-by-layer assembled cellulose derivative thin film. <i>Applied Surface Science</i> , 2016, 370, 1-5.	6.1	68
51	A Bottom-Up Approach To Fabricate Patterned Surfaces with Asymmetrical TiO <sub>2</sub> Microparticles Trapped in the Holes of Honeycomblike Polymer Film. <i>Journal of the American Chemical Society</i> , 2011, 133, 3736-3739.	13.7	65
52	Fabrication and Properties of Cellulose Hydrated Membrane with Unique Structure. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 594-602.	2.2	64
53	Aerogels Derived from Polymer Nanofibers and Their Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700724.	3.9	64
54	Microgel-Enhanced Double Network Hydrogel Electrode with High Conductivity and Stability for Intrinsically Stretchable and Flexible All-Gel-State Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19323-19330.	8.0	62

#	ARTICLE	IF	CITATIONS
55	The influence of pH on a hydrogen-bonded assembly film. <i>Soft Matter</i> , 2007, 3, 463-469.	2.7	59
56	Preparation, Stabilization and Carbonization of a Novel Polyacrylonitrile-Based Carbon Fiber Precursor. <i>Polymers</i> , 2019, 11, 1150.	4.5	59
57	Sound absorption behavior of electrospun polyacrylonitrile nanofibrous membranes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 650-657.	3.8	55
58	In situ growth of hierarchical boehmite on 2024 aluminum alloy surface as superhydrophobic materials. <i>RSC Advances</i> , 2014, 4, 14708-14714.	3.6	55
59	Controlled Synthesis of Co@N-Doped Carbon by Pyrolysis of ZIF with 2-Aminobenzimidazole Ligand for Enhancing Oxygen Reduction Reaction and the Application in Zn-Air Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11693-11701.	8.0	54
60	Structure and properties of cellulose/chitin blended hydrogel membranes fabricated via a solution pre-gelation technique. <i>Carbohydrate Polymers</i> , 2010, 79, 677-684.	10.2	53
61	Robust Polypropylene Fabrics Super-Repelling Various Liquids: A Simple, Rapid and Scalable Fabrication Method by Solvent Swelling. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13996-14003.	8.0	53
62	Microstructure and properties of polyacrylonitrile based carbon fibers. <i>Polymer Testing</i> , 2020, 81, 106267.	4.8	53
63	Light-driven decarboxylative deuteration enabled by a divergently engineered photodecarboxylase. <i>Nature Communications</i> , 2021, 12, 3983.	12.8	53
64	Kinetics and thermal properties of epoxy resins based on bisphenol fluorene structure. <i>European Polymer Journal</i> , 2009, 45, 1941-1948.	5.4	52
65	Pyrolysis of polymethylsilsesquioxane. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1077-1086.	2.6	50
66	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20769-20777.	10.3	49
67	Porous and Nonporous Nanocapsules by H-Bonding Self-Assembly. <i>Macromolecules</i> , 2004, 37, 10059-10062.	4.8	48
68	Facile Creation of Biomimetic Systems at the Interface and in Bulk. <i>Advanced Materials</i> , 2008, 20, 2938-2946.	21.0	48
69	One step preparation of superhydrophobic polymeric surface with polystyrene under ambient atmosphere. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 1-5.	9.4	47
70	Triboelectric nanogenerators made of polybenzazole aerogels as fire-resistant negative tribo-materials. <i>Nano Energy</i> , 2019, 64, 103900.	16.0	47
71	Composite Thin Film by Hydrogen-Bonding Assembly of Polymer Brush and Poly(vinylpyrrolidone). <i>Langmuir</i> , 2006, 22, 338-343.	3.5	46
72	Nanoscale dynamic mechanical imaging of the skin-core difference: From PAN precursors to carbon fibers. <i>Materials Letters</i> , 2014, 128, 417-420.	2.6	46

#	ARTICLE	IF	CITATIONS
73	Lamellae break induced formation of shish-kebab during hot stretching of ultra-high molecular weight polyethylene precursor fibers investigated by in situ small angle X-ray scattering. <i>Polymer</i> , 2014, 55, 4299-4306.	3.8	46
74	Highly Elastic Fibers Made from Hydrogen-Bonded Polymer Complex. <i>ACS Macro Letters</i> , 2016, 5, 814-818.	4.8	46
75	Low-cost mussel inspired poly(catechol/polyamine) coating with superior anti-corrosion capability on copper. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 214-221.	9.4	46
76	Multifunctional polymethylsilsesquioxane (PMSQ) surfaces prepared by electrospinning at the sol-gel transition: Superhydrophobicity, excellent solvent resistance, thermal stability and enhanced sound absorption property. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 296-303.	9.4	44
77	Ultrahigh-strength Ultrahigh Molecular Weight Polyethylene (UHMWPE)-Based Fiber Electrode for High Performance Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1707351.	14.9	44
78	Functional bacterial cellulose membranes with 3D porous architectures: Conventional drying, tunable wettability and water/oil separation. <i>Journal of Membrane Science</i> , 2019, 591, 117312.	8.2	44
79	Biomimetic Polymer Film with Brilliant Brightness Using a One-step Water Vapor-Induced Phase Separation Method. <i>Advanced Functional Materials</i> , 2019, 29, 1808885.	14.9	44
80	Water uptake behavior of hydrogen-bonded PVPON-PAA LBL film. <i>Soft Matter</i> , 2006, 2, 699-704.	2.7	42
81	Transition from shish-kebab to fibrillar crystals during ultra-high hot stretching of ultra-high molecular weight polyethylene fibers: In situ small and wide angle X-ray scattering studies. <i>European Polymer Journal</i> , 2015, 73, 127-136.	5.4	42
82	Fabrication and Characterization of an Organic-Inorganic Gradient Surface made by Polymethylsilsesquioxane (PMSQ). <i>Macromolecular Rapid Communications</i> , 2006, 27, 1603-1607.	3.9	41
83	Digital Light Processing 3D Printing of Healable and Recyclable Polymers with Tailorable Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34954-34961.	8.0	41
84	Carbon Nanotubes Grown on the Carbon Fibers to Enhance the Photothermal Conversion toward Solar-Driven Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32404-32411.	8.0	41
85	Salt-induced erosion of hydrogen-bonded layer-by-layer assembled films. <i>Soft Matter</i> , 2009, 5, 860-867.	2.7	40
86	Complexation behavior of poly(acrylic acid) and lanthanide ions. <i>Polymer</i> , 2014, 55, 1183-1189.	3.8	40
87	Engineering Fatty Acid Photodecarboxylase to Enable Highly Selective Decarboxylation of <i>trans</i> -Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20695-20699.	13.8	40
88	Micro-nano hierarchically structured nylon 6,6 surfaces with unique wettability. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 116-119.	9.4	38
89	Dynamic cross-links to facilitate recyclable polybutadiene elastomer with excellent toughness and stretchability. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1357-1366.	2.3	38
90	Reprintable Polymers for Digital Light Processing 3D Printing. <i>Advanced Functional Materials</i> , 2021, 31, 2007173.	14.9	38

#	ARTICLE	IF	CITATIONS
91	Superior Hard but Quickly Reversible Siâ€“Oâ€“Si Network Enables Scalable Fabrication of Transparent, Self-Healing, Robust, and Programmable Multifunctional Nanocomposite Coatings. <i>Journal of the American Chemical Society</i> , 2022, 144, 436-445.	13.7	36
92	Transport of Glucose and Poly(ethylene glycol)s in Agarose Gels Studied by the Refractive Index Method. <i>Macromolecules</i> , 2005, 38, 5236-5242.	4.8	35
93	Facile preparation of hollow amino-functionalized organosilica microspheres by a template-free method. <i>Journal of Materials Chemistry</i> , 2012, 22, 18010.	6.7	35
94	Reversible Swellingâ€“Shrinking Behavior of Hydrogen-Bonded Free-Standing Thin Film Stabilized by Catechol Reaction. <i>Langmuir</i> , 2015, 31, 5147-5154.	3.5	35
95	Coaxial electrospinning synthesis hollow Mo <sub>2</sub> C@C core-shell nanofibers for high-performance and long-term lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 473, 352-358.	6.1	35
96	Preparation of continuous porous alumina nanofibers with hollow structure by single capillary electrospinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 489-494.	4.7	34
97	Hydrogen bond detachment in polymer complexes. <i>Polymer</i> , 2013, 54, 5382-5390.	3.8	31
98	Facile fabrication of flexible layered GO/BNNS composite films with high thermal conductivity. <i>Journal of Materials Science</i> , 2018, 53, 4189-4198.	3.7	31
99	Enantiocomplementary decarboxylative hydroxylation combining photocatalysis and whole-cell biocatalysis in a one-pot cascade process. <i>Green Chemistry</i> , 2019, 21, 1907-1911.	9.0	31
100	A Simple Approach for Fabricating a Superhydrophobic Surface Based on Poly(Methyl Methacrylate). <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1841-1852.	2.6	30
101	Facile preparation of poly(ethyl $\hat{\pm}$ -cyanoacrylate) superhydrophobic and gradient wetting surfaces. <i>Journal of Colloid and Interface Science</i> , 2009, 340, 93-97.	9.4	29
102	Facile fabrication of golf ball-like hollow microspheres of organic-inorganic silica. <i>Journal of Materials Chemistry</i> , 2011, 21, 13056.	6.7	29
103	Ultra Water Repellent Polypropylene Surfaces with Tunable Water Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10224-10232.	8.0	29
104	Stereoselectivity-Tailored, Metal-Free Hydrolytic Dynamic Kinetic Resolution of Moritaâ€“Baylisâ€“Hillman Acetates Using an Engineered Lipaseâ€“Organic Base Cocatalyst. <i>ACS Catalysis</i> , 2017, 7, 4542-4549.	11.2	29
105	Cast-and-Use Super Black Coating Based on Polymer-Derived Hierarchical Porous Carbon Spheres. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15945-15951.	8.0	29
106	Fabrication of honeycomb-patterned polyalkylcyanoacrylate films from monomer solution by breath figures method. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 253-259.	9.4	28
107	Superhydrophobicity determines the buoyancy performance of kapok fiber aggregates. <i>Applied Surface Science</i> , 2013, 266, 225-229.	6.1	28
108	Low-temperature thermal stabilization of polyacrylonitrile-based precursor fibers towards efficient preparation of carbon fibers with improved mechanical properties. <i>Polymer</i> , 2015, 76, 131-139.	3.8	28

#	ARTICLE	IF	CITATIONS
109	Biomimetic Gradient Polymers with Enhanced Damping Capacities. <i>Macromolecular Rapid Communications</i> , 2016, 37, 655-661.	3.9	28
110	Fabry-rot fringes of hydrogen-bonded assembly films. <i>Thin Solid Films</i> , 2008, 516, 4018-4024.	1.8	27
111	2D SAXS/WAXD analysis of pan carbon fiber microstructure in organic/inorganic transformation. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 823-832.	3.8	27
112	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14499-14503.	13.8	26
113	Transparent Super-Repellent Surfaces with Low Haze and High Jet Impact Resistance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 13813-13821.	8.0	26
114	Recent Advances in Photobiocatalysis for Selective Organic Synthesis. <i>Organic Process Research and Development</i> , 2022, 26, 1900-1913.	2.7	25
115	In Situ Monitoring of Hydrogel Polymerization Using Speckle Interferometry. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2888-2891.	2.6	24
116	From Cloudy to Transparent: Chain Rearrangement in Hydrogen-Bonded Layer-by-Layer Assembled Films. <i>ChemPhysChem</i> , 2007, 8, 418-424.	2.1	24
117	General Surface Modification Method for Nanospheres via Tannic Acid-Fe Layer-by-Layer Deposition: Preparation of a Magnetic Nanocatalyst. <i>ACS Applied Nano Materials</i> , 2019, 2, 3510-3517.	5.0	24
118	Responsive complex capsules prepared with polymerization of dopamine, hydrogen-bonding assembly, and catechol dismutation. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 470-479.	9.4	23
119	N-doped foam flame retardant polystyrene derived porous carbon as an efficient scaffold for lithium-selenium battery with long-term cycling performance. <i>Chemical Engineering Journal</i> , 2018, 350, 411-418.	12.7	23
120	Plasmonic Metal Nanoparticle Loading to Enhance the Photothermal Conversion of Carbon Fibers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2454-2462.	3.1	23
121	Synthesis and in vitro degradation of novel copolymers of cyclic carbonate and D,L-lactide. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1988-1994.	2.6	22
122	Simultaneous Tuning of Chemical Composition and Topography of Copolymer Surfaces: Micelles as Building Blocks. <i>ChemPhysChem</i> , 2007, 8, 1108-1114.	2.1	22
123	Effect of temperature on the build-up and post hydrothermal processing of hydrogen-bonded PVPON/PAA film. <i>Soft Matter</i> , 2011, 7, 9435.	2.7	22
124	Polymer Complexation by Hydrogen Bonding at the Interface. <i>Australian Journal of Chemistry</i> , 2014, 67, 11.	0.9	22
125	Facile seed-assisted hydrothermal fabrication of $\beta$ -AlOOH nanoflake films with superhydrophobicity. <i>New Journal of Chemistry</i> , 2014, 38, 1321.	2.8	22
126	Preparation, curing kinetics, and thermal properties of bisphenol fluorene epoxy resin. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1476-1481.	2.6	21

#	ARTICLE	IF	CITATIONS
127	Directional and Path-Finding Motion of Polymer Hydrogels Driven by Liquid Mixing. <i>Langmuir</i> , 2012, 28, 11276-11280.	3.5	21
128	One step preparation of polyaniline micro/nanohierarchical structures with superhydrophobicity. <i>Materials Letters</i> , 2012, 78, 42-45.	2.6	21
129	Light-Driven Kinetic Resolution of $\alpha$ -Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. <i>Angewandte Chemie</i> , 2019, 131, 8562-8566.	2.0	21
130	An Extremely Stretchable and Self-Healable Supramolecular Polymer Network. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4499-4507.	8.0	21
131	Characterization of maxillofacial silicone elastomer reinforced with different hollow microspheres. <i>Journal of Materials Science</i> , 2015, 50, 3976-3983.	3.7	20
132	Mechanical properties of polyelectrolyte multilayer self-assembled films. <i>Thin Solid Films</i> , 2005, 474, 159-164.	1.8	19
133	SDBS-assisted preparation of novel polyaniline planar-structure: Morphology, mechanism and hydrophobicity. <i>Journal of Colloid and Interface Science</i> , 2014, 414, 46-49.	9.4	19
134	Air-expansion induced hierarchically porous carbonaceous aerogels from biomass materials with superior lithium storage properties. <i>RSC Advances</i> , 2016, 6, 7591-7598.	3.6	19
135	Fabrication of Conductive Silver Microtubes Using Natural Catkin as a Template. <i>ACS Omega</i> , 2017, 2, 1738-1745.	3.5	19
136	Blue Laser Projection Printing of Conductive Complex 2D and 3D Metallic Structures from Photosensitive Precursors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21668-21674.	8.0	19
137	Highly Focused Library-Based Engineering of <i>Candida antarctica</i> Lipase B with ( <i>S</i> )-Selectivity Towards <i>sec</i> -Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 126-134.	4.3	19
138	Enantiocomplementary C-H Bond Hydroxylation Combining Photo-Catalysis and Whole-Cell Biocatalysis in a One-Pot Cascade Process. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 821-825.	2.4	19
139	Co/Co <sub>9</sub> S <sub>8</sub> @carbon nanotubes on a carbon sheet: facile controlled synthesis, and application to electrocatalysis in oxygen reduction/oxygen evolution reactions, and to a rechargeable Zn-air battery. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 368-375.	6.0	19
140	Self-organized Polymer Aggregates with a Biomimetic Hierarchical Structure and its Superhydrophobic Effect. <i>Cell Biochemistry and Biophysics</i> , 2007, 49, 91-97.	1.8	18
141	Solvent effect on hydrogen-bonded thin film of poly(vinylpyrrolidone) and poly(acrylic acid) prepared by layer-by-layer assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 471, 11-18.	4.7	18
142	Carbon Vesicles: A Symmetry-Breaking Strategy for Wide-Band and Solvent-Processable Ultrablack Coating Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1909877.	14.9	18
143	Simulation of Sessile Water-Droplet Evaporation on Superhydrophobic Polymer Surfaces. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 140-144.	1.3	17
144	Photo-induced DNA cleavage in self-assembly multilayer films. <i>New Journal of Chemistry</i> , 2002, 26, 617-620.	2.8	16

#	ARTICLE	IF	CITATIONS
145	Synthesis and biodegradability evaluation of 2-methylene-1,3-dioxepane and styrene copolymers. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1146-1151.	2.6	16
146	Facile fabrication of large scale microtubes with a natural template " Kapok fiber. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010, 28, 841-847.	3.8	16
147	Relationship between performance and microvoids of aramid fibers revealed by two-dimensional small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2013, 46, 1178-1186.	4.5	16
148	Effects of ultra-high temperature treatment on the microstructure of carbon fibers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 764-772.	3.8	16
149	New comonomer for polyacrylonitrile-based carbon fiber: Density functional theory study and experimental analysis. <i>Polymer</i> , 2018, 153, 369-377.	3.8	16
150	Tear resistant Tyvek/Ag/poly(3,4-ethylenedioxythiophene): Polystyrene sulfonate (PEDOT:PSS)/carbon nanotubes electrodes for flexible high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 420, 127665.	12.7	16
151	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9326-9329.	13.8	16
152	Synthesis and structure of polymethylsilsesquioxane-clay nanocomposite via in situ intercalative polymerization. <i>Journal of Applied Polymer Science</i> , 2002, 86, 3708-3711.	2.6	15
153	Precise preparation of highly monodisperse ZrO <sub>2</sub> @SiO <sub>2</sub> core-shell nanoparticles with adjustable refractive indices. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3359.	5.5	15
154	One-pot bienzymatic cascade combining decarboxylative aldol reaction and kinetic resolution to synthesize chiral $\beta$ -hydroxy ketone derivatives. <i>RSC Advances</i> , 2016, 6, 76829-76837.	3.6	15
155	Dynamics of the layer-by-layer assembly of a poly(acrylic acid)-lanthanide complex colloid and poly(diallyldimethyl ammonium). <i>Soft Matter</i> , 2016, 12, 867-875.	2.7	15
156	Continuous preparation of high performance flexible asymmetric supercapacitor with a very fast, low-cost, simple and scalable electrochemical co-deposition method. <i>Journal of Power Sources</i> , 2019, 437, 226827.	7.8	15
157	In situ monitoring gelation process of N,N-dimethylacrylamide by refractive index technique. <i>Polymer</i> , 2002, 43, 6761-6765.	3.8	14
158	A facile approach to superhydrophobic coating from direct polymerization of "super glue". <i>Soft Matter</i> , 2011, 7, 4050.	2.7	14
159	Self-assembly of flower-like polyaniline-polyvinyl alcohol multidimensional architectures from 2D petals. <i>Materials Letters</i> , 2011, 65, 2812-2815.	2.6	14
160	Blue laser diode-initiated photosensitive resins for 3D printing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12035-12038.	5.5	14
161	A superhydrophobic surface with high performance derived from STA-APTES organic-inorganic molecular hybrid. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 482-487.	9.4	13
162	Facile fabrication of metal oxide hollow spheres using polydopamine nanoparticles as active templates. <i>Polymer International</i> , 2015, 64, 986-991.	3.1	13

#	ARTICLE	IF	CITATIONS
163	Spherically aggregated Cu <sub>2</sub> O@TA hybrid sub-microparticles with modulated size and improved chemical stability. <i>CrystEngComm</i> , 2017, 19, 1888-1895.	2.6	13
164	Fabrication of covalently attached conducting multilayer self-assembly film of polyaniline by in situ coupling reaction. <i>Synthetic Metals</i> , 2002, 128, 305-309.	3.9	12
165	Morphology and Crystalline Structure of Poly( $\epsilon$ -Caprolactone) Nanofiber via Porous Aluminium Oxide Template. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 1098-1103.	3.6	12
166	Biologically Inspired Path-Controlled Linear Locomotion of Polymer Gel in Air. <i>Journal of Physical Chemistry B</i> , 2007, 111, 941-945.	2.6	12
167	Hydrogen bonding effect on micellization and morphological transformations of the polystyrene-block-poly(ethylene oxide) micelles. <i>Soft Matter</i> , 2012, 8, 10307.	2.7	12
168	Synthesis and electrochemical properties of various dimensional polyaniline micro/nanostructures: Microdisks, nanospheres and nanofibers. <i>Materials Letters</i> , 2012, 71, 70-73.	2.6	12
169	Rhodamine loading and releasing behavior of hydrogen-bonded poly(vinylpyrrolidone)/poly(acrylic acid) film. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 123-127.	4.7	12
170	Fabrication of oriented wrinkles on polydopamine/polystyrene bilayer films. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 123-127.	9.4	12
171	Heat-Resistant and High-Performance Solid-State Supercapacitors Based on Poly(4-phenylene) Sulfone/Poly(vinylidene fluoride) Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18100-18109.	8.0	12
172	Multilayer Films from Phenolic Resin-Sodium Dodecyl Sulfate Complex and Polycations. <i>Journal of Colloid and Interface Science</i> , 2002, 249, 91-95.	9.4	11
173	Field-driven gel actuator with versatile long-range locomotion in air. <i>Applied Physics Letters</i> , 2007, 90, 153506.	3.3	11
174	Self-assembly hierarchical micro/nanostructures of leaf-like polyaniline with 1D nanorods on 2D foliage surface. <i>Materials Letters</i> , 2011, 65, 2724-2727.	2.6	11
175	Cu <sub>2</sub> O-clay composites with sub-micrometer-sized Cu <sub>2</sub> O particles for marine antifouling paints. <i>Journal of Coatings Technology Research</i> , 2019, 16, 25-30.	2.5	11
176	Phase change materials with multiple energy conversion and storage abilities based on large-scale carbon felts. <i>Composites Science and Technology</i> , 2022, 221, 109177.	7.8	11
177	Fluorescence staining and confocal laser scanning microscopy study of hydrogen-bonded poly(vinylpyrrolidone)/poly(acrylic acid) film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 392, 83-87.	4.7	10
178	Noncovalent fabrication and electrochemical capacitance of uniform core-shell structured polyaniline-carbon nanotube nanocomposite. <i>RSC Advances</i> , 2012, 2, 11887.	3.6	10
179	Interfacial complexation behavior of anionic and cationic cellulose derivatives. <i>RSC Advances</i> , 2014, 4, 55459-55465.	3.6	10
180	Robust anti-reflective silica nanocoatings: abrasion resistance enhanced via capillary condensation of APTES. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4254-4259.	5.5	10

#	ARTICLE	IF	CITATIONS
181	A versatile coating approach to fabricate superwetting membranes for separation of water-in-oil emulsions. Chinese Journal of Polymer Science (English Edition), 2016, 34, 1234-1239.	3.8	10
182	Molecular weight switchable polyurethanes enable melt processing. Chemical Engineering Journal, 2020, 384, 123287.	12.7	10
183	Cyclization mechanism and kinetics of poly(acrylonitrile-co-2-acrylamido-2-methylpropane sulfonic) Tj ETQq1 1 0.784314 rgBT /Overlo	4.8	10
184	Electronic Effectâ€œGuided Rational Design of <i>Candida antarctica</i> Lipase B for Kinetic Resolution Towards Diarylmethanols. Advanced Synthesis and Catalysis, 2021, 363, 1867-1872.	4.3	10
185	Digital Light Processing 3D Printing of Enhanced Polymers via Interlayer Welding. Macromolecular Rapid Communications, 2022, 43, e2200053.	3.9	10
186	Ultrafast Solar-Vapor Harvesting Based on a Hierarchical Porous Hydrogel with Wettability Contrast and Tailored Water States. ACS Applied Materials & Interfaces, 2022, 14, 24766-24774.	8.0	10
187	A unique behavior of water drops induced by low-density polyethylene surface with a sharp wettability transition. Journal of Colloid and Interface Science, 2007, 311, 186-193.	9.4	9
188	â€œSchizophrenicâ€•Micellization of Poly(Acrylic Acid)-<i>B</i>-Poly(2-Dimethylamino)Ethyl Methacrylate and Responsive Behavior of the Micelles. Soft Materials, 2013, 11, 394-402.	1.7	9
189	Effect of microgel content on the shear and extensional rheology of polyacrylonitrile solution. Colloid and Polymer Science, 2015, 293, 587-596.	2.1	9
190	Effect of water content on the size and membrane thickness of polystyrene-block-poly(ethylene oxide) vesicles. Chinese Journal of Polymer Science (English Edition), 2015, 33, 661-668.	3.8	9
191	Cu nanocrystal enhancement of C<sub>3</sub>N<sub>4</sub>/Cu hetero-structures and new applications in photo-electronic catalysis: hydrazine oxidation and redox reactions of organic molecules. Inorganic Chemistry Frontiers, 2018, 5, 2420-2424.	6.0	9
192	Rational Design of Biocatalytic Deuteration Platform of Aldehydes. ACS Catalysis, 2021, 11, 13348-13354.	11.2	9
193	Rational design of fatty acid photodecarboxylase enables the efficient decarboxylation of medium- and short-chain fatty acids for the production of gasoline bio-alkanes. Molecular Catalysis, 2022, 524, 112261.	2.0	9
194	Siloxane surfactant-modified clay and its effect in reinforcing the laminate of polymethylsilsesquioxane. Journal of Applied Polymer Science, 2006, 100, 3974-3980.	2.6	8
195	Patterning of hydrogen-bonded assembly film through ionization in vapor. Thin Solid Films, 2009, 517, 3024-3027.	1.8	8
196	Preparation of carpenterworm-like polyaniline/carbon nanotubes nanocomposites with enhanced electrochemical property. Materials Letters, 2013, 92, 157-160.	2.6	8
197	Mechanically robust aerogels derived from an amine-bridged silsesquioxane precursor. Journal of Sol-Gel Science and Technology, 2015, 75, 519-529.	2.4	8
198	Cellulose derivative-lanthanide complex film by hierarchical assembly process. Carbohydrate Polymers, 2017, 168, 240-246.	10.2	8

#	ARTICLE	IF	CITATIONS
199	Facile preparation and characterization of soluble aramid. Journal of Applied Polymer Science, 2018, 135, 4634-159.	2.6	8
200	Double Enzyme-Catalyzed One-Pot Synthesis of Enantiocomplementary Vicinal Fluoro Alcohols. Organic Letters, 2020, 22, 5446-5450.	4.6	8
201	In Situ Investigation of Drug Diffusion in Hydrogels by the Refractive Index Method. Analytical Chemistry, 2004, 76, 2807-2812.	6.5	7
202	Electrically induced linear locomotion of polymer gel in air. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1187-1197.	2.1	7
203	Morphology transformation of polystyrene-block-poly(ethylene oxide) vesicle on surface. Polymer, 2013, 54, 3709-3715.	3.8	7
204	Patterned polymer surfaces with wetting contrast prepared by polydopamine modification. Journal of Applied Polymer Science, 2014, 131, .	2.6	7
205	Formation of AlOOH and silica composite hierarchical nanostructures thin film by sol-gel dip-coating for superhydrophobic surface with high adhesion force. Journal of Sol-Gel Science and Technology, 2014, 72, 511-517.	2.4	7
206	Conformal Nanocoatings with Uniform and Controllable Thickness on Microstructured Surfaces: A General Assembly Route. Advanced Materials, 2018, 30, 1704131.	21.0	7
207	Polyester Nanofilms with Enhanced Polyhydroxyl Architectures for the Separation of Metal Ions from Aqueous Solutions. ACS Applied Nano Materials, 2018, 1, 6176-6186.	5.0	7
208	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. Angewandte Chemie, 2019, 131, 14641-14645.	2.0	7
209	Hierarchical Porous Polymer Coatings Based on UV-Curing for Highly Efficient Passive All-Day Radiative Cooling. ACS Applied Polymer Materials, 2022, 4, 5746-5755.	4.4	7
210	Polymethylsilsesquioxane and hydroxyl-terminated polydimethylsiloxane composite: Vapor incubation before thermal curing. Journal of Applied Polymer Science, 2009, 111, 1454-1461.	2.6	6
211	Folding and birefringence behavior of poly(vinyl alcohol) hydrogel film induced by freezing and thawing. RSC Advances, 2014, 4, 49861-49865.	3.6	6
212	Preparation of recyclable polybutadiene rubber based on acid-base complexation. Journal of Applied Polymer Science, 2017, 134, 45280.	2.6	6
213	Dual-Enzyme-Catalyzed Synthesis of Enantiocomplementary Polyesters. ACS Macro Letters, 2019, 8, 1432-1436.	4.8	6
214	Investigation of the Cyclization Mechanism of Poly(acrylonitrile- <i>co</i> -ethylenesulfonic acid) Copolymer during Thermal Oxidative Stabilization by <i>In Situ</i> Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2020, 59, 9519-9531.	3.7	6
215	Biocatalytic Site-Selective Hydrogen Isotope Exchange of Unsaturated Fragments with D <sub>2</sub> O. ACS Catalysis, 2022, 12, 783-788.	11.2	6
216	Optical investigation of diffusion of levofloxacin mesylate in agarose hydrogel. Journal of Biomedical Optics, 2009, 14, 050503.	2.6	5

#	ARTICLE	IF	CITATIONS
217	Diffusion of levofloxacin mesylate in agarose hydrogels monitored by a refractive index method. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3000-3006.	2.6	5
218	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. <i>Angewandte Chemie</i> , 2021, 133, 9412-9415.	2.0	5
219	Engineering Fatty Acid Photodecarboxylase to Enable Highly Selective Decarboxylation of <i>trans</i> -Fatty Acids. <i>Angewandte Chemie</i> , 2021, 133, 20863-20867.	2.0	5
220	Investigation of the gelation process by in-situ interferometry. <i>Macromolecular Rapid Communications</i> , 2000, 21, 998-1001.	3.9	4
221	Structure and fabry-pérot fringes of polymer-boehmite hybrid thin film by sol-gel dip-coating. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 154-160.	2.4	4
222	Facile preparation of bridged silsesquioxane microspheres with interconnected multi-cavities and open holes. <i>RSC Advances</i> , 2016, 6, 21571-21576.	3.6	4
223	Solvent free nanoscale ionic materials based on Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified with mussel inspired ligands. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 404-409.	9.4	4
224	Facile synthesis of robust hybrid xerogels by an emulsion assistant method. <i>Chemical Engineering Journal</i> , 2020, 401, 125937.	12.7	4
225	Dual-tunable Structural Colors from Liquid-infused Aerogels. <i>Advanced Optical Materials</i> , 2020, 8, 1901825.	7.3	4
226	Long-Range Self-Governing Motion of Polymer Gel on a Gradiently Charged Insulating Substrate. <i>ChemPhysChem</i> , 2007, 8, 899-905.	2.1	3
227	Preparation and properties of organic-inorganic hybrid composites based on polystyrene and an incompletely condensed polyvinylsilsesquioxane oligomer. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2497-2505.	2.6	3
228	Chain diffusion and exchange during build-up of hydrogen-bonded polymer complex film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 148-153.	4.7	3
229	One-Step Self-Assembly for Fabricating Asymmetric Particle Arrays and Templates for Bifunctional Systems. <i>ACS Applied Nano Materials</i> , 2018, 1, 3800-3806.	5.0	3
230	Cu <sub>2</sub> O-IER (Ion-exchange Resin) Composites: A Novel Strategy for Cu <sub>2</sub> O Synthesis. <i>Chemistry Letters</i> , 2016, 45, 238-240.	1.3	2
231	Nanostructured Hollow Carbon Materials from a Non-isothermal Chemical Vapor Deposition of Polyphenols. <i>Chinese Journal of Chemistry</i> , 2020, 38, 590-594.	4.9	2
232	Polysilsesquioxane Nanosheets Synthesized in Confined Environment. <i>Macromolecular Rapid Communications</i> , 2003, 24, 676-680.	3.9	1
233	A developed full-field fem analysis combined with ESPI for the investigation of defect evolution in polymer films. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 1022-1028.	3.8	1
234	Preparation and electrochemical property of tremella-like polyaniline microspheres by a template-free method. <i>Materials Letters</i> , 2013, 92, 115-118.	2.6	1

#	ARTICLE	IF	CITATIONS
235	Reversible molecular adsorption of free-standing nano-composite film made from boehmite and poly(acrylic acid). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 210-217.	4.7	1
236	Customizing the Enantioselectivity of a Cyclohexanone Monooxygenase by a Strategy Combining $\alpha$ -Size Probes with in silico Study. <i>ChemCatChem</i> , 2019, 11, 5085-5092.	3.7	1
237	Biophotonic Films: Biomimetic Polymer Film with Brilliant Brightness Using a One-Step Water Vapor-Induced Phase Separation Method ( <i>Adv. Funct. Mater.</i> 23/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970158.	14.9	1
238	Phase transformation of PIMoCo and their electrocatalytic activity for oxygen evolution reaction. <i>CrystEngComm</i> , 2020, 22, 6003-6009.	2.6	1
239	PREPARATION AND TECHNOLOGY STUDY OF FLEXIBLE REFLECTIVE ELECTROCHROMIC DEVICES BASED ON POLYANILINE. <i>Acta Polymerica Sinica</i> , 2011, 011, 1284-1290.	0.0	1
240	The Propulsion of a Miniature Device by Organic Fluid Jetflow through Polymer Submicron Tubes. <i>Chinese Physics Letters</i> , 2013, 30, 126801.	3.3	0
241	Fabrication of Porous Alumina Nanofibers with Hollow Structure by Single Capillary Electrospinning. <i>Advanced Materials Research</i> , 2013, 750-752, 236-240.	0.3	0