Jin-Ming Zhang

List of Publications by Year
in descending order

89	4,372	101384	114278
papers	citations	36 h-index	63 g-index

90	90	90	4647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical process of early-stage corrosion detection based on N-doped carbon dots with superior Fe3+ responsiveness. Journal of Colloid and Interface Science, 2022, 606, 567-576.	5.0	21
2	Cellulose nanosphere: Preparation and applications of the novel nanocellulose. Carbohydrate Polymers, 2022, 277, 118863.	5.1	37
3	Enhancement of biofilm formation and microalgae growth by preparing cellulose film with rough surface. Journal of Polymer Research, 2022, 29, 1.	1.2	2
4	Cellulose-Based Conductive Films with Superior Joule Heating Performance, Electromagnetic Shielding Efficiency, and High Stability by In Situ Welding to Construct a Segregated MWCNT Conductive Network. Industrial & Engineering Chemistry Research, 2022, 61, 1773-1785.	1.8	22
5	Click Modification for Polysaccharides via Novel Tunnel Transmission Phenomenon in Ionic Liquids. Research, 2022, 2022, 9853529.	2.8	7
6	Triggering the Biodegradability and Green-Reuse of Cigarette Filters by a Facile and Home-Operating Treatment. ACS Sustainable Chemistry and Engineering, 2022, 10, 2822-2829.	3.2	7
7	Irreversible Humidity-Responsive Phosphorescence Materials from Cellulose for Advanced Anti-Counterfeiting and Environmental Monitoring. ACS Applied Materials & Interfaces, 2022, 14, 16582-16591.	4.0	24
8	Ultralong phosphorescence cellulose with excellent anti-bacterial, water-resistant and ease-to-process performance. Nature Communications, 2022, 13, 1117.	5.8	66
9	Fabrication and Characterization of Transparent and Uniform Cellulose/Polyethylene Composite Films from Used Disposable Paper Cups by the â€œOne-Pot Methodâ€• Polymers, 2022, 14, 1070.	2.0	12
10	Confronting the Challenge of Cellulose Molecular Weight Measurement: An Accurate, Rapid, and Universal Method with Ionic Liquid as an Additive. Analytical Chemistry, 2022, 94, 5432-5440.	3.2	4
11	Super-rapid and highly-efficient esterification of cellulose to achieve an accurate chromatographic analysis of its molecular weight. Carbohydrate Polymers, 2022, 286, 119301.	5.1	4
12	Natural grass to all-biomass biodegradable tape and superior oil-water separation fabric. Resources, Conservation and Recycling, 2022, 182, 106320.	5.3	6
13	The solution state and dissolution process of cellulose in ionic-liquid-based solvents with different hydrogen-bonding basicity and microstructures. Green Chemistry, 2022, 24, 3824-3833.	4.6	22
14	Eco-Friendly and Complete Recycling of Waste Bamboo-Based Disposable Paper Cups for Value-Added Transparent Cellulose-Based Films and Paper Plastic Composites. Polymers, 2022, 14, 1589.	2.0	11
15	Hydrogen-Bonding Interactions in Polymerâ€“Organic Solvent Mixtures. Macromolecules, 2022, 55, 4578-4588.	2.2	10
16	Facile access to photo-switchable, dynamic-optical, multi-colored and solid-state materials from carbon dots and cellulose for photo-rewritable paper and advanced anti-counterfeiting. Chemical Engineering Journal, 2021, 406, 126794.	6.6	50
17	Immobilization of Ionic Liquids with a New Cellulose Ester Containing Imidazolium Cation for Highâ€Performance CO 2 Separation Membranes. Macromolecular Rapid Communications, 2021, 42, 2000494.	2.0	9
18	Molecular weight characterization of cellulose using ionic liquids. Polymer Testing, 2021, 93, 106985.	2.3	20

#	Article	IF	Citations
19	Polymer solubility in ionic liquids: dominated by hydrogen bonding. Physical Chemistry Chemical Physics, 2021, 23, 21893-21900.	1.3	21
20	Patternable cellulose/MWCNT laminated nanocomposites with anisotropic thermal and electrical conductivity. Composites Communications, 2021, 26, 100786.	3.3	15
21	Complete recycling and valorization of waste textiles for value-added transparent films via an ionic liquid. Journal of Environmental Chemical Engineering, 2021, 9, 106182.	3.3	31
22	Transparent cellulose/aramid nanofibers films with improved mechanical and ultraviolet shielding performance from waste cotton textiles by in-situ fabrication. Carbohydrate Polymers, 2021, 273, 118569.	5.1	30
23	Cellulose-Based Films with Ultraviolet Shielding Performance Prepared Directly from Waste Corrugated Pulp. Polymers, 2021, 13, 3359.	2.0	11
24	Transparent Cellulose-Based Films Prepared from Used Disposable Paper Cups via an Ionic Liquid. Polymers, 2021, 13, 4209.	2.0	10
25	A facile strategy to fabricate cellulose-based, flame-retardant, transparent and anti-dripping protective coatings. Chemical Engineering Journal, 2020, 379, 122270.	6.6	48
26	Cellulose-based fluorescent sensor for visual and versatile detection of amines and anions. Journal of Hazardous Materials, 2020, 387, 121719.	6.5	41
27	Poly(propylene carbonate)/clay nanocomposites with enhanced mechanical property, thermal stability and oxygen barrier property. Composites Communications, 2020, 22, 100520.	3.3	9
28	Thermostable and Redispersible Cellulose Nanocrystals with Thixotropic Gelation Behavior by a Facile Desulfation Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 11737-11746.	3.2	10
29	Cellulose Acetate Thermoplastics with High Modulus, Dimensional Stability and Anti-migration Properties by Using CA-g-PLA as Macromolecular Plasticizer. Chinese Journal of Polymer Science (English Edition), 2020, 38, 1141-1148.	2.0	10
30	Colorimetric and fluorescent detection of glutathione over cysteine and homocysteine with red-emitting N-doped carbon dots. Sensors and Actuators B: Chemical, 2020, 321, 128506.	4.0	43
31	Processing and valorization of cellulose, lignin and lignocellulose using ionic liquids. Journal of Bioresources and Bioproducts, 2020, 5, 79-95.	11.8	159
32	Facile Access to Solid-State Carbon Dots with High Luminescence Efficiency and Excellent Formability via Cellulose Derivative Coatings. ACS Sustainable Chemistry and Engineering, 2020, 8, 5937-5945.	3.2	45
33	A facile and efficient method to fabricate high-resolution immobilized cellulose-based chiral stationary phases via thiol-ene click chemistry. Separation and Purification Technology, 2019, 210, 175-181.	3.9	31
34	Direct and complete utilization of agricultural straw to fabricate all-biomass films with high-strength, high-haze and UV-shielding properties. Carbohydrate Polymers, 2019, 223, 115057.	5.1	38
35	Micromechanical and positron annihilation lifetime study of new cellulose esters with different topological structures. Carbohydrate Polymers, 2019, 219, 56-62.	5.1	5
36	Regioselectively substituted cellulose mixed esters synthesized by two-steps route to understand chiral recognition mechanism and fabricate high-performance chiral stationary phases. Analytica Chimica Acta, 2019, 1073, 90-98.	2.6	23

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37	Modification of agricultural waste tamarind fruit shell powder by in situ generation of silver nanoparticles for antibacterial filler applications. International Journal of Polymer Analysis and Characterization, 2019, 24, 421-427.	0.9	17
38	Sunlightâ€Driven Wearable and Robust Antibacterial Coatings with Waterâ€Soluble Celluloseâ€Based Photosensitizers. Advanced Healthcare Materials, 2019, 8, e1801591.	3.9	50
39	Amine-responsive cellulose-based ratiometric fluorescent materials for real-time and visual detection of shrimp and crab freshness. Nature Communications, 2019, 10, 795.	5.8	279
40	Reâ€Dispersible 1D and 2D Nanoparticle Solid Powders without any Surfactant. ChemNanoMat, 2019, 5, 163-168.	1.5	5
41	Multifunctional Cellulose Ester Containing Hindered Phenol Groups with Free-Radical-Scavenging and UV-Resistant Activities. ACS Applied Materials & Interfaces, 2019, 11, 4302-4310.	4.0	33
42	Visual and Precise Detection of pH Values under Extreme Acidic and Strong Basic Environments by Cellulose-Based Superior Sensor. Analytical Chemistry, 2019, 91, 3085-3092.	3.2	37
43	Chemical Modification of Cellulose in Solvents for Functional Materials. , 2019, , 427-460.		1
44	Extraction and characterization of cellulose single fibers from native african napier grass. Carbohydrate Polymers, 2018, 188, 85-91.	5.1	137
45	Novel Thermoplastic Cellulose Esters Containing Bulky Moieties and Soft Segments. ACS Sustainable Chemistry and Engineering, 2018, 6, 4931-4939.	3.2	79
46	Phototunable Fullâ€Color Emission of Celluloseâ€Based Dynamic Fluorescent Materials. Advanced Functional Materials, 2018, 28, 1703548.	7.8	163
47	Cellulose-Based Sensor Containing Phenanthroline for the Highly Selective and Rapid Detection of Fe²⁺ Ions with Naked Eye and Fluorescent Dual Modes. ACS Applied Materials & Interfaces, 2018, 10, 2114-2121.	4.0	101
48	All-cellulose composites based on the self-reinforced effect. Composites Communications, 2018, 9, 42-53.	3.3	51
49	Controllable synthesis of cellulose benzoates for understanding of chiral recognition mechanism and fabrication of highly efficient chiral stationary phases. Analytical Methods, 2018, 10, 2844-2853.	1.3	14
50	Chemical Modification of Cellulose in Solvents for Functional Materials. , 2018, , 1-34.		1
51	Application of ionic liquids for dissolving cellulose and fabricating cellulose-based materials: state of the art and future trends. Materials Chemistry Frontiers, 2017, 1, 1273-1290.	3.2	304
52	Directly Converting Agricultural Straw into All-Biomass Nanocomposite Films Reinforced with Additional in Situ-Retained Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2017, 5, 5127-5133.	3.2	36
53	Preparation and characterization of regenerated cellulose films using borassus fruit fibers and an ionic liquid. Carbohydrate Polymers, 2017, 160, 203-211.	5.1	68
54	Transparent Celluloseâ€“Silica Composite Aerogels with Excellent Flame Retardancy via an in Situ Solâ€“Gel Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 11117-11123.	3.2	81

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55	Cellulose Aerogel Membranes with a Tunable Nanoporous Network as a Matrix of Gel Polymer Electrolytes for Safer Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 24591-24599.	4.0	103
56	Determination of intrinsic viscosity-molecular weight relationship for cellulose in BmimAc/DMSO solutions. Cellulose, 2016, 23, 2341-2348.	2.4	25
57	Transparent cellulose/polyhedral oligomeric silsesquioxane nanocomposites with enhanced UV-shielding properties. Carbohydrate Polymers, 2016, 147, 171-177.	5.1	32
58	Cellulose/microalgae composite films prepared in ionic liquids. Algal Research, 2016, 20, 135-141.	2.4	25
59	Celluloseâ€Based Solid Fluorescent Materials. Advanced Optical Materials, 2016, 4, 2044-2050.	3.6	81
60	Transparent and flame retardant cellulose/aluminum hydroxide nanocomposite aerogels. Science China Chemistry, 2016, 59, 1335-1341.	4.2	45
61	Understanding cellulose dissolution: effect of the cation and anion structure of ionic liquids on the solubility of cellulose. Science China Chemistry, 2016, 59, 1421-1429.	4.2	62
62	All-Cellulose Nanocomposites Reinforced with in Situ Retained Cellulose Nanocrystals during Selective Dissolution of Cellulose in an Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2016, 4, 4417-4423.	3.2	87
63	Cellulose-based films prepared directly from waste newspapers via an ionic liquid. Carbohydrate Polymers, 2016, 151, 223-229.	5.1	71
64	Fabrication, hydrolysis and cell cultivation of microspheres from cellulose-graft-poly(<scp>l</scp>-lactide) copolymers. RSC Advances, 2016, 6, 17617-17623.	1.7	15
65	Chiral separation abilities of homogeneously synthesized cellulose 3,5-dimethylphenylcarbamates: Influences of degree of substitution and molecular weight. Chinese Journal of Polymer Science (English Edition), 2015, 33, 1633-1639.	2.0	13
66	Homogeneous synthesis of partially substituted cellulose phenylcarbamates aiming at chiral recognition. Polymer International, 2015, 64, 1037-1044.	1.6	17
67	Hydrolytic degradation of cellulose-graft-poly(l-lactide) copolymers. Polymer Degradation and Stability, 2015, 118, 130-136.	2.7	18
68	Synthesis and characterization of temperature-sensitive cellulose-graft-poly(N-isopropylacrylamide) copolymers. Chinese Journal of Polymer Science (English Edition), 2015, 33, 1640-1649.	2.0	34
69	Homogeneous esterification of cellulose in room temperature ionic liquids. Polymer International, 2015, 64, 963-970.	1.6	39
70	Homogeneous benzoylation of cellulose in 1-allyl-3-methylimidazolium chloride: Hammett correlation, mechanism and regioselectivity. RSC Advances, 2015, 5, 58536-58542.	1.7	16
71	Preparation and Properties of Biodegradable Spent Tea Leaf Powder/Poly(Propylene Carbonate) Composite Films. International Journal of Polymer Analysis and Characterization, 2015, 20, 377-387.	0.9	58
72	Homogeneous synthesis of amino-reserved chitosan-graft-polycaprolactone in an ionic liquid and the application in cell cultivation. Polymer International, 2015, 64, 1045-1052.	1.6	12

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73	ä»¥ç¦»åæ¶²ä½“ä¸ºä»‹è´¨çš„çº¤ç»´ç´ å‡ç›¸è¡ç”ŸåŒ–. Chinese Science Bulletin, 2015, 60, 1513-1521.	0.4	1
74	Synthesis, characterization, and gas permeabilities of cellulose derivatives containing adamantane groups. Journal of Membrane Science, 2014, 469, 507-514.	4.1	24
75	Preparation and Characterization of Polypropylene Carbonate Bio-Filler (Eggshell Powder) Composite Films. International Journal of Polymer Analysis and Characterization, 2014, 19, 637-647.	0.9	69
76	Preparation and properties of self-reinforced cellulose composite films from Agave microfibrils using an ionic liquid. Carbohydrate Polymers, 2014, 114, 537-545.	5.1	83
77	Effect of molecular structure on the gas permeability of cellulose aliphatate esters. Chinese Journal of Polymer Science (English Edition), 2014, 32, 1-8.	2.0	21
78	Synthesis, characterization and properties of novel cellulose derivatives containing phosphorus: cellulose diphenyl phosphate and its mixed esters. Cellulose, 2014, 21, 2369-2378.	2.4	34
79	Highly efficient propionylation and butyralation of cellulose in an ionic liquid catalyzed by 4-dimethylminopyridine. Carbohydrate Polymers, 2013, 92, 307-311.	5.1	40
80	â€œOne potâ€•homogeneous synthesis of thermoplastic cellulose acetate-graft-poly(l-lactide) copolymers from unmodified cellulose. Cellulose, 2013, 20, 327-337.	2.4	55
81	Effect of Alkali Treatment on the Properties of Century Fiber. Journal of Natural Fibers, 2013, 10, 282-296.	1.7	113
82	Direct visualization of solution morphology of cellulose in ionic liquids by conventional TEM at room temperature. Chemical Communications, 2012, 48, 6283.	2.2	48
83	Rheological properties of cellulose/ionic liquid/dimethylsulfoxide (DMSO) solutions. Polymer, 2012, 53, 2524-2531.	1.8	106
84	Stable dispersions of reduced graphene oxide in ionic liquids. Journal of Materials Chemistry, 2010, 20, 5401.	6.7	115
85	NMR spectroscopic studies of cellobiose solvation in EmimAc aimed to understand the dissolution mechanism of cellulose in ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 1941.	1.3	258
86	Reply to â€œComment on â€˜NMR spectroscopic studies of cellobiose solvation in EmimAc aimed to understand the dissolution mechanism of cellulose in ionic liquidsâ€™â€•by R. C. Remsing, I. D. Petrik, Z. Liu and G. Moyna, Phys. Chem. Chem. Phys., 2010, 12, DOI: 10.1039/c004203j. Physical Chemistry Chemical Physics, 2010, 12, 14829.	1.3	28
87	ADVANCED FUNCTIONAL MATERIALS BASED ON CELLULOSE. Acta Polymerica Sinica, 2010, 00, 1376-1398.	0.0	23
88	Synthesis of cellulose benzoates under homogeneous conditions in an ionic liquid. Cellulose, 2009, 16, 299-308.	2.4	85
89	Thermoplastic Cellulose-<i>graft</i>-poly(<scp>l</scp>-lactide) Copolymers Homogeneously Synthesized in an Ionic Liquid with 4-Dimethylaminopyridine Catalyst. Biomacromolecules, 2009, 10, 2013-2018.	2.6	145