

# Jinghui Zhou

## List of Publications by Year in descending order

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96  
papers

3,481  
citations

109264

35  
h-index

168321

53  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic effect of graphene nanosheets and carbonyl iron-nickel alloy hybrid filler on electromagnetic interference shielding and thermal conductivity of cyanate ester composites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1476-1486.	2.7	212
2	Novel lignin-chitosan-PVA composite hydrogel for wound dressing. <i>Materials Science and Engineering C</i> , 2019, 104, 110002.	3.8	201
3	Novel Lignin-Cellulose-Based Carbon Nanofibers as High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1210-1221.	4.0	108
4	Photocatalytic conversion of biomass-based monosaccharides to lactic acid by ultrathin porous oxygen doped carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119520.	10.8	108
5	Biomimetic lignin/poly(ionic liquids) composite hydrogel dressing with excellent mechanical strength, self-healing properties, and reusability. <i>Chemical Engineering Journal</i> , 2020, 400, 125984.	6.6	98
6	Renewable lignin-based carbon nanofiber as Ni catalyst support for depolymerization of lignin to phenols in supercritical ethanol/water. <i>Renewable Energy</i> , 2020, 147, 1331-1339.	4.3	86
7	Electrospun Lignin-Based Carbon Nanofibers as Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12831-12841.	3.2	86
8	Functional food packaging for reducing residual liquid food: Thermo-resistant edible super-hydrophobic coating from coffee and beeswax. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 742-749.	5.0	84
9	Epoxy/POSS organic-inorganic hybrids: Viscoelastic, mechanical properties and micromorphologies. <i>Polymer Composites</i> , 2007, 28, 175-179.	2.3	75
10	Facile synthesis of trimethylammonium grafted cellulose foams with high capacity for selective adsorption of anionic dyes from water. <i>Carbohydrate Polymers</i> , 2020, 241, 116369.	5.1	74
11	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5490-5501.	2.9	69
12	Structural changes of poplar wood lignin after supercritical pretreatment using carbon dioxide and ethanol-water as co-solvents. <i>RSC Advances</i> , 2017, 7, 8314-8322.	1.7	67
13	Enhanced adsorption activity for phosphate removal by functional lignin-derived carbon-based adsorbent: Optimization, performance and evaluation. <i>Science of the Total Environment</i> , 2021, 761, 143217.	3.9	66
14	Structural transformations of triploid of <i>Populus tomentosa</i> Carr. lignin during auto-catalyzed ethanol organosolv pretreatment. <i>Industrial Crops and Products</i> , 2015, 76, 522-529.	2.5	65
15	Novel porous oil-water separation material with super-hydrophobicity and super-oleophilicity prepared from beeswax, lignin, and cotton. <i>Science of the Total Environment</i> , 2020, 706, 135807.	3.9	63
16	Lignin/Polyacrylonitrile Carbon Fibers: The Effect of Fractionation and Purification on Properties of Derived Carbon Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8554-8562.	3.2	58
17	Electrospun biomass based carbon nanofibers as high-performance supercapacitors. <i>Industrial Crops and Products</i> , 2020, 148, 112181.	2.5	58
18	High-strength lignin-based carbon fibers via a low-energy method. <i>RSC Advances</i> , 2018, 8, 1218-1224.	1.7	57

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19	Recent advances and challenges on removal and recycling of phosphate from wastewater using biomass-derived adsorbents. <i>Chemosphere</i> , 2021, 278, 130377.	4.2	56
20	Preparation of sulfur-doped carbon quantum dots from lignin as a sensor to detect Sudan I in an acidic environment. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10788-10796.	2.9	55
21	Copper oxide functionalized chitosan hybrid hydrogels for highly efficient photocatalytic-reforming of biomass-based monosaccharides to lactic acid. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120123.	10.8	55
22	Three-dimensional macroporous hybrid carbon aerogel with heterogeneous structure derived from MXene/cellulose aerogel for absorption-dominant electromagnetic interference shielding and excellent thermal insulation performance. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 96-105.	5.0	52
23	Removed heavy metal ions from wastewater reuse for chemiluminescence: Successive application of lignin-based composite hydrogels. <i>Journal of Hazardous Materials</i> , 2022, 421, 126722.	6.5	51
24	Effect of lignin structure in different biomass resources on the performance of lignin-based carbon nanofibers as supercapacitor electrode. <i>Industrial Crops and Products</i> , 2021, 170, 113745.	2.5	50
25	Reasonable regulation of carbon/nitride ratio in carbon nitride for efficient photocatalytic reforming of biomass-derived feedstocks to lactic acid. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120698.	10.8	47
26	Preparation of carbon dots from waste cellulose diacetate as a sensor for tetracycline detection and fluorescence ink. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4289-4298.	3.6	45
27	Ultra-low gas permeable cellulose nanofiber nanocomposite films filled with highly oriented graphene oxide nanosheets induced by shear field. <i>Carbohydrate Polymers</i> , 2019, 209, 310-319.	5.1	43
28	Epoxy-modified cyanate ester resin and its high-modulus carbon-fiber composites. <i>Polymer Composites</i> , 2006, 27, 402-409.	2.3	42
29	Preparation and characterization of thermo-sensitive gel with phenolated alkali lignin. <i>Scientific Reports</i> , 2018, 8, 14450.	1.6	42
30	Impact of lignin extraction methods on microstructure and mechanical properties of lignin-based carbon fibers. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45580.	1.3	40
31	Biomass-based flexible nanoscale carbon fibers: effects of chemical structure on energy storage properties. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10120-10134.	5.2	39
32	Effect of particle size of HZSM-5 zeolite on the catalytic depolymerization of organosolv lignin to phenols. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129, 13-20.	2.6	38
33	Sulfonic-acid-functionalized carbon fiber from waste newspaper as a recyclable carbon based solid acid catalyst for the hydrolysis of cellulose. <i>RSC Advances</i> , 2019, 9, 28902-28907.	1.7	38
34	Magnetic coupling N self-doped porous carbon derived from biomass with broad absorption bandwidth and high-efficiency microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 1077-1087.	5.0	38
35	Biomimetic Biomass-Based Carbon Fibers: Effect of Covalent-Bnd Connection on Performance of Derived Carbon Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16084-16093.	3.2	36
36	Phosphorus-doped carbon nitride with grafted sulfonic acid groups for efficient photocatalytic synthesis of xylonic acid. <i>Green Chemistry</i> , 2021, 23, 4150-4160.	4.6	36

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37	Flower-like NiMn-layered double hydroxide microspheres coated on biomass-derived 3D honeycomb porous carbon for high-energy hybrid supercapacitors. <i>Industrial Crops and Products</i> , 2021, 166, 113472.	2.5	36
38	A novel cellulose acetate/poly (ionic liquid) composite air filter. <i>Cellulose</i> , 2020, 27, 3889-3902.	2.4	35
39	Recent Advances and Challenges in Photoreforming of Biomass-Derived Feedstocks into Hydrogen, Biofuels, or Chemicals by Using Functional Carbon Nitride Photocatalysts. <i>ChemSusChem</i> , 2021, 14, 4903-4922.	3.6	35
40	Curing behavior of epoxy/POSS/DDS hybrid systems. <i>Polymer Composites</i> , 2008, 29, 77-83.	2.3	33
41	Flexible and Anisotropic Strain Sensors with the Asymmetrical Cross-Conducting Network for Versatile Bio-Mechanical Signal Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44925-44934.	4.0	33
42	Catalytic conversion of lignin to bio-oil over PTA/MCM-41 catalyst assisted by ultrasound acoustic cavitation. <i>Fuel Processing Technology</i> , 2020, 206, 106479.	3.7	32
43	Preparation, characterization and the adsorption characteristics of lignin/silica nanocomposites from cellulosic ethanol residue. <i>RSC Advances</i> , 2017, 7, 41176-41181.	1.7	31
44	Biomimetic epidermal sensors assembled from polydopamine-modified reduced graphene oxide/polyvinyl alcohol hydrogels for the real-time monitoring of human motions. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10549-10558.	2.9	31
45	Fabricating lignin-based carbon nanofibers as versatile supercapacitors from food wastes. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 632-643.	3.6	29
46	Nitrogen-doped lignin-derived biochar with enriched loading of CeO <sub>2</sub> nanoparticles for highly efficient and rapid phosphate capture. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1484-1494.	3.6	28
47	Synergetic enhancement of thermal conductivity by constructing BN and AlN hybrid network in epoxy matrix. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	27
48	Thermodegradation kinetics of epoxy/DDS/POSS system. <i>Polymer Composites</i> , 2007, 28, 755-761.	2.3	26
49	Self-assembly of cationic amphiphilic cellulose-g-poly (p-dioxanone) copolymers. <i>Carbohydrate Polymers</i> , 2019, 204, 214-222.	5.1	26
50	Unlocking the response of lignin structure by depolymerization process improved lignin-based carbon nanofibers preparation and mechanical strength. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 669-680.	3.6	26
51	Highly efficient and stable catalysis of p-nitrophenol via silver/lignin/polyacrylic acid hydrogel. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 947-953.	3.6	25
52	Lignin Structure and Solvent Effects on the Selective Removal of Condensed Units and Enrichment of S-Type Lignin. <i>Polymers</i> , 2018, 10, 967.	2.0	24
53	Flexible and Conductive Cellulose Composite Paper for Highly Efficient Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2021, 7, 2100496.	2.6	24
54	Hybrid effect on mechanical properties of M40-T300 carbon fiber reinforced Bisphenol A Dicyanate ester composites. <i>Polymer Composites</i> , 2010, 31, 2129-2137.	2.3	23

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55	A Phosphotungstic Acid Catalyst for Depolymerization in Bulrush Lignin. <i>Catalysts</i> , 2019, 9, 399.	1.6	23
56	Effective fractionation strategy of sugarcane bagasse lignin to fabricate quality lignin-based carbon nanofibers supercapacitors. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 604-617.	3.6	23
57	Boosting photocatalytic performance for selective oxidation of biomass-derived pentoses and hexoses to lactic acid using hierarchically porous Cu/Cu <sub>2</sub> O/CuO@CA. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16450-16458.	2.7	22
58	Development of the synthesis and applications of xyloionic acid: A mini-review. <i>Fuel</i> , 2022, 314, 122773.	3.4	22
59	Ultrasound acoustic cavitation enhances depolymerization of organosolv lignin to phenolic monomers and low molecular weight lignin bio-oils. <i>Fuel Processing Technology</i> , 2020, 203, 106387.	3.7	21
60	Tuning structure of spent coffee ground lignin by temperature fractionation to improve lignin-based carbon nanofibers mechanical performance. <i>International Journal of Biological Macromolecules</i> , 2021, 174, 254-262.	3.6	21
61	The Synthesis of h-BN-Modified Z-Scheme WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunctions for Enhancing Visible Light Photocatalytic Degradation of Tetracycline Pollutants. <i>ACS Omega</i> , 2022, 7, 6035-6045.	1.6	21
62	A Comparison of Phenolic Monomers Produced from Different Types of Lignin by Phosphotungstic Acid Catalysts. <i>ChemistryOpen</i> , 2019, 8, 643-649.	0.9	20
63	Lignin bio-oil-based electrospun nanofibers with high substitution ratio property for potential carbon nanofibers applications. <i>Polymer Testing</i> , 2020, 89, 106591.	2.3	20
64	Synthesis of TiO <sub>2</sub> @lignin based carbon nanofibers composite materials with highly efficient photocatalytic to methylene blue dye. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	20
65	Fabrication of uniform lignin nanoparticles with tunable size for potential wound healing application. <i>International Journal of Biological Macromolecules</i> , 2022, 214, 170-180.	3.6	20
66	Influence of epoxy sizing of carbon-fiber on the properties of carbon fiber/cyanate ester composites. <i>Polymer Composites</i> , 2006, 27, 591-598.	2.3	19
67	Single cell migration dynamics mediated by geometric confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 72-78.	2.5	18
68	Characterization of lignin extracted from <i>Acanthopanax senticosus</i> residue using different methods on UV-resistant behavior. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 498-505.	3.6	18
69	Stepwise fractionation extracted lignin for high strength lignin-based carbon fibers. <i>New Journal of Chemistry</i> , 2019, 43, 18868-18875.	1.4	17
70	Biodegradation of Lignin into Low-Molecular-Weight Oligomers by Multicopper Laccase-Mimicking Nanozymes of the Cu/GMP Complex at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5489-5499.	3.2	16
71	From lignin-derived bio-oil to lignin-g-polyacrylonitrile nanofiber: High lignin substitution ratio and maintaining good nanofiber morphology. <i>Polymer Testing</i> , 2020, 81, 106207.	2.3	15
72	Efficient and controllable ultrasound-assisted depolymerization of organosolv lignin catalyzed to liquid fuels by MCM-41 supported phosphotungstic acid. <i>RSC Advances</i> , 2020, 10, 31479-31494.	1.7	15

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73	Multifunction lignin-based carbon nanofibers with enhanced electromagnetic wave absorption and supercapacitive energy storage capabilities. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 201-211.	3.6	15
74	Self-assembly and paclitaxel loading capacity of $\alpha$ -tocopherol succinate-conjugated hydroxyethyl cellulose nanomicelle. <i>Colloid and Polymer Science</i> , 2016, 294, 135-143.	1.0	14
75	Preparation, characterization and formation mechanism of size-controlled lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2022, 217, 312-320.	3.6	14
76	Lignin-based electrospinning nanofibers for reversible iodine capture and potential applications. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 782-793.	3.6	13
77	High-efficiency capture and removal of phosphate from wastewater by 3D hierarchical functional biomass-derived carbon aerogel. <i>Science of the Total Environment</i> , 2022, 827, 154343.	3.9	13
78	Ni <sup>2+</sup> /O Codoped Carbon Nanofibers Decorated with Graphene for High-Performance Supercapacitors. <i>Energy Technology</i> , 2021, 9, 2100743.	1.8	12
79	Biomass-based flexible fire warning sensor with excellent flame retardancy and sensitivity. <i>Chemical Engineering Journal</i> , 2022, 437, 135412.	6.6	12
80	Novel Nonprecious Metal Loading Multi-Metal Oxide Catalysts for Lignin Depolymerization. <i>Energy &amp; Fuels</i> , 2019, 33, 6491-6500.	2.5	11
81	Ni <sup>2+</sup> /Mg <sup>2+</sup> /Al Catalysts Effectively Promote Depolymerization of Rice Husk Lignin to Bio-Oil. <i>Catalysis Letters</i> , 2020, 150, 1591-1604.	1.4	11
82	Facile adjusting the concentration of siliceous seed to obtain different HZSM-5 zeolite catalysts for effective catalytic depolymerization reaction of lignin. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2017-2028.	2.9	8
83	Layer-by-Layer Assembly of Graphene Oxide and Polyethylenimine on Carbon Nanofiber Films for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 455-463.	2.4	7
84	Fabrication of porous ultrathin carbon nitride nanosheet catalysts with enhanced photocatalytic activity for N- and O-heterocyclic compound synthesis. <i>New Journal of Chemistry</i> , 2021, 45, 365-372.	1.4	6
85	Effect of hierarchical HZSM-5 zeolite on the catalytic depolymerization of organosolv lignin to renewable phenols. <i>Journal of Porous Materials</i> , 2022, 29, 445-457.	1.3	6
86	Reinforced macromolecular micelle-crosslinked hyaluronate gels induced by water/DMSO binary solvent. <i>Soft Matter</i> , 2020, 16, 8647-8654.	1.2	5
87	Advances in the application of molecular sieves as catalysts for lignin depolymerization $\alpha$ -HZSM-5 as an example. <i>Environmental Progress and Sustainable Energy</i> , 0, , .	1.3	4
88	Glass bead-catalyzed depolymerization of poplar wood lignin into low-molecular-weight products. <i>New Journal of Chemistry</i> , 2019, 43, 9280-9288.	1.4	3
89	Exploration of mechanisms of lignin extraction by different methods. <i>Environmental Progress and Sustainable Energy</i> , 0, , e13785.	1.3	3
90	Base-catalyzed depolymerization of lignin into phenols: methoxy groups <sup>TM</sup> secondary reactions triggered phenol regulation and repolymerization. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	3

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91	Lignin condensation inhibition and antioxidant activity improvement in a reductive ternary DES fractionation microenvironment by thiourea dioxide self-decomposition. <i>New Journal of Chemistry</i> , 2022, 46, 8892-8900.	1.4	3
92	Ni <sub>12</sub> P <sub>5</sub> /Pâ€“Nâ€“C Derived from Natural Single-Celled Chlorella for Catalytic Depolymerization of Lignin into Monophenols. <i>ACS Omega</i> , 2022, 7, 13134-13143.	1.6	3
93	Analysis of organic acids in the waste-liquor of aspen auto-catalyzed ethanol-water pulping. , 2011, , .		1
94	Nano-magnesium oxide as hard template synthesis of lignin carbonbased solid acids and its application for cellulose hydrolysis. <i>Tappi Journal</i> , 2019, 18, 67-71.	0.2	1
95	Influence of poplar green liquor pretreatment on pentosan extraction. , 2013, , .		0
96	Depolymerization of corn cobs using the CO <sub>2</sub> /lithium bromide trihydrate system for low molecular weight lignin with high antioxidant activity. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 7125-7137.	2.9	0