Jinghui Zhou

List of Publications by Citations

87 papers	1,680 citations	24 h-index	37 g-index
96 ext. papers	2,634 ext. citations	6.6 avg, IF	5.42 L-index

#	Paper	IF	Citations
87	Synergistic effect of graphene nanosheets and carbonyl iron–nickel alloy hybrid filler on electromagnetic interference shielding and thermal conductivity of cyanate ester composites. *Journal of Materials Chemistry C*, **2018**, 6, 1476-1486	7.1	169
86	Novel lignin-chitosan-PVA composite hydrogel for wound dressing. *Materials Science and Engineering C*, **2019**, 104, 110002	8.3	97
85	Epoxy/POSS organic–inorganic hybrids: Viscoelastic, mechanical properties and micromorphologies. *Polymer Composites*, **2007**, 28, 175-179	3	68
84	Novel Lignin-Cellulose-Based Carbon Nanofibers as High-Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2020**, 12, 1210-1221	9.5	60
83	Structural transformations of triploid of Populus tomentosa Carr. lignin during auto-catalyzed ethanol organosolv pretreatment. *Industrial Crops and Products*, **2015**, 76, 522-529	5.9	52
82	Structural changes of poplar wood lignin after supercritical pretreatment using carbon dioxide and ethanol–water as co-solvents. *RSC Advances*, **2017**, 7, 8314-8322	3.7	50
81	Renewable lignin-based carbon nanofiber as Ni catalyst support for depolymerization of lignin to phenols in supercritical ethanol/water. *Renewable Energy*, **2020**, 147, 1331-1339	8.1	50
80	Photocatalytic conversion of biomass-based monosaccharides to lactic acid by ultrathin porous oxygen doped carbon nitride. *Applied Catalysis B: Environmental*, **2021**, 283, 119520	21.8	48
79	Lignin/Polyacrylonitrile Carbon Fibers: The Effect of Fractionation and Purification on Properties of Derived Carbon Fibers. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8554-8562	8.3	42
78	Functional food packaging for reducing residual liquid food: Thermo-resistant edible super-hydrophobic coating from coffee and beeswax. *Journal of Colloid and Interface Science*, **2019**, 533, 742-749	9.3	41
77	Facile synthesis of trimethylammonium grafted cellulose foams with high capacity for selective adsorption of anionic dyes from water. *Carbohydrate Polymers*, **2020**, 241, 116369	10.3	39
76	Biomimetic lignin/poly(ionic liquids) composite hydrogel dressing with excellent mechanical strength, self-healing properties, and reusability. *Chemical Engineering Journal*, **2020**, 400, 125984	14.7	37
75	Epoxy-modified cyanate ester resin and its high-modulus carbon-fiber composites. *Polymer Composites*, **2006**, 27, 402-409	3	37
74	High-strength lignin-based carbon fibers a low-energy method.. *RSC Advances*, **2018**, 8, 1218-1224	3.7	34
73	Novel porous oil-water separation material with super-hydrophobicity and super-oleophilicity prepared from beeswax, lignin, and cotton. *Science of the Total Environment*, **2020**, 706, 135807	10.2	34
72	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. *Journal of Materials Chemistry B*, **2019**, 7, 5490-5501	7.3	33
71	Curing behavior of epoxy/POSS/DDS hybrid systems. *Polymer Composites*, **2008**, 29, 77-83	3	31

70	Electrospun Lignin-Based Carbon Nanofibers as Supercapacitor Electrodes. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12831-12841	8.3	31
69	Effect of particle size of HZSM-5 zeolite on the catalytic depolymerization of organosolv lignin to phenols. *Journal of Analytical and Applied Pyrolysis*, **2018**, 129, 13-20	6	30
68	Electrospun biomass based carbon nanofibers as high-performance supercapacitors. *Industrial Crops and Products*, **2020**, 148, 112181	5.9	29
67	Ultra-low gas permeable cellulose nanober nanocomposite lms led with highly oriented graphene oxide nanosheets induced by shear field. *Carbohydrate Polymers*, **2019**, 209, 310-319	10.3	27
66	Enhanced adsorption activity for phosphate removal by functional lignin-derived carbon-based adsorbent: Optimization, performance and evaluation. *Science of the Total Environment*, **2021**, 761, 143217	10.2	27
65	Impact of lignin extraction methods on microstructure and mechanical properties of lignin-based carbon fibers. *Journal of Applied Polymer Science*, **2018**, 135, 45580	2.9	26
64	Preparation and characterization of thermo-sensitive gel with phenolated alkali lignin. *Scientific Reports*, **2018**, 8, 14450	4.9	24
63	Preparation of sulfur-doped carbon quantum dots from lignin as a sensor to detect Sudan I in an acidic environment. *Journal of Materials Chemistry B*, **2020**, 8, 10788-10796	7.3	22
62	Biomimetic Biomass-Bsed Carbon Fibers: Effect of Covalent-Bnd Connection on Performance of Derived Carbon Fibers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16084-16093	8.3	21
61	Thermodegradation kinetics of epoxy/DDS/POSS system. *Polymer Composites*, **2007**, 28, 755-761	3	21
60	Preparation, characterization and the adsorption characteristics of lignin/silica nanocomposites from cellulosic ethanol residue. *RSC Advances*, **2017**, 7, 41176-41181	3.7	19
59	Hybrid effect on mechanical properties of M40-T300 carbon fiber reinforced Bisphenol A Dicyanate ester composites. *Polymer Composites*, **2010**, 31, 2129-2137	3	19
58	Recent advances and challenges on removal and recycling of phosphate from wastewater using biomass-derived adsorbents. *Chemosphere*, **2021**, 278, 130377	8.4	19
57	Sulfonic-acid-functionalized carbon fiber from waste newspaper as a recyclable carbon based solid acid catalyst for the hydrolysis of cellulose.. *RSC Advances*, **2019**, 9, 28902-28907	3.7	18
56	Influence of epoxy sizing of carbon-fiber on the properties of carbon fiber/cyanate ester composites. *Polymer Composites*, **2006**, 27, 591-598	3	18
55	Self-assembly of cationic amphiphilic cellulose-g-poly (p-dioxanone) copolymers. *Carbohydrate Polymers*, **2019**, 204, 214-222	10.3	18
54	Copper oxide functionalized chitosan hybrid hydrogels for highly efficient photocatalytic-reforming of biomass-based monosaccharides to lactic acid. *Applied Catalysis B: Environmental*, **2021**, 291, 120123	21.8	18
53	Biomimetic epidermal sensors assembled from polydopamine-modified reduced graphene oxide/polyvinyl alcohol hydrogels for the real-time monitoring of human motions. *Journal of Materials Chemistry B*, **2020**, 8, 10549-10558	7.3	17

52	Removed heavy metal ions from wastewater reuse for chemiluminescence: Successive application of lignin-based composite hydrogels. *Journal of Hazardous Materials*, **2022**, 421, 126722	12.8	17
51	A novel cellulose acetate/poly (ionic liquid) composite air filter. *Cellulose*, **2020**, 27, 3889-3902	5.5	16
50	Phosphorus-doped carbon nitride with grafted sulfonic acid groups for efficient photocatalytic synthesis of xylonic acid. *Green Chemistry*, **2021**, 23, 4150-4160	10	16
49	Lignin Structure and Solvent Effects on the Selective Removal of Condensed Units and Enrichment of S-Type Lignin. *Polymers*, **2018**, 10,	4.5	16
48	Catalytic conversion of lignin to bio-oil over PTA/MCM-41 catalyst assisted by ultrasound acoustic cavitation. *Fuel Processing Technology*, **2020**, 206, 106479	7.2	15
47	A Comparison of Phenolic Monomers Produced from Different Types of Lignin by Phosphotungstic Acid Catalysts. *ChemistryOpen*, **2019**, 8, 643-649	2.3	14
46	Synthesis of TiO2@lignin based carbon nanofibers composite materials with highly efficient photocatalytic to methylene blue dye. *Journal of Polymer Research*, **2020**, 27, 1	2.7	14
45	Unlocking the response of lignin structure by depolymerization process improved lignin-based carbon nanofibers preparation and mechanical strength. *International Journal of Biological Macromolecules*, **2020**, 156, 669-680	7.9	13
44	Self-assembly and paclitaxel loading capacity of Ⅎocopherol succinate-conjugated hydroxyethyl cellulose nanomicelle. *Colloid and Polymer Science*, **2016**, 294, 135-143	2.4	13
43	Highly efficient and stable catalysis of p-nitrophenol via silver/lignin/polyacrylic acid hydrogel. *International Journal of Biological Macromolecules*, **2020**, 144, 947-953	7.9	13
42	Reasonable regulation of carbon/nitride ratio in carbon nitride for efficient photocatalytic reforming of biomass-derived feedstocks to lactic acid. *Applied Catalysis B: Environmental*, **2021**, 299, 120698	21.8	12
41	A Phosphotungstic Acid Catalyst for Depolymerization in Bulrush Lignin. *Catalysts*, **2019**, 9, 399	4	11
40	From lignin-derived bio-oil to lignin-g-polyacrylonitrile nanofiber: High lignin substitution ratio and maintaining good nanofiber morphology. *Polymer Testing*, **2020**, 81, 106207	4.5	11
39	Single cell migration dynamics mediated by geometric confinement. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 72-78	6	11
38	Lignin bio-oil-based electrospun nanofibers with high substitution ratio property for potential carbon nanofibers applications. *Polymer Testing*, **2020**, 89, 106591	4.5	10
37	Synergetic enhancement of thermal conductivity by constructing BN and AlN hybrid network in epoxy matrix. *Journal of Polymer Research*, **2020**, 27, 1	2.7	10
36	Biomass-based flexible nanoscale carbon fibers: effects of chemical structure on energy storage properties. *Journal of Materials Chemistry A*, **2021**, 9, 10120-10134	13	10
35	Ultrasound acoustic cavitation enhances depolymerization of organosolv lignin to phenolic monomers and low molecular weight lignin bio-oils. *Fuel Processing Technology*, **2020**, 203, 106387	7.2	9

34	Preparation of carbon dots from waste cellulose diacetate as a sensor for tetracycline detection and fluorescence ink. *International Journal of Biological Macromolecules*, **2020**, 164, 4289-4298	7.9	9
33	Efficient and controllable ultrasound-assisted depolymerization of organosolv lignin catalyzed to liquid fuels by MCM-41 supported phosphotungstic acid.. *RSC Advances*, **2020**, 10, 31479-31494	3.7	8
32	Stepwise fractionation extracted lignin for high strength lignin-based carbon fibers. *New Journal of Chemistry*, **2019**, 43, 18868-18875	3.6	8
31	Flower-like NiMn-layered double hydroxide microspheres coated on biomass-derived 3D honeycomb porous carbon for high-energy hybrid supercapacitors. *Industrial Crops and Products*, **2021**, 166, 113472	5.9	8
30	Novel Nonprecious Metal Loading Multi-Metal Oxide Catalysts for Lignin Depolymerization. *Energy & Fuels*, **2019**, 33, 6491-6500	4.1	7
29	Recent Advances and Challenges in Photoreforming of Biomass-Derived Feedstocks into Hydrogen, Biofuels, or Chemicals by Using Functional Carbon Nitride Photocatalysts. *ChemSusChem*, **2021**, 14, 4903-4922	8.3	7
28	Effect of lignin structure in different biomass resources on the performance of lignin-based carbon nanofibers as supercapacitor electrode. *Industrial Crops and Products*, **2021**, 170, 113745	5.9	7
27	Development of the synthesis and applications of xylonic acid: A mini-review. *Fuel*, **2022**, 314, 122773	7.1	6
26	Flexible and Anisotropic Strain Sensors with the Asymmetrical Cross-Conducting Network for Versatile Bio-Mechanical Signal Recognition. *ACS Applied Materials & Interfaces*, **2021**, 13, 44925-44934	9.5	6
25	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.. *Journal of Colloid and Interface Science*, **2022**, 619, 96-105	9.3	6
24	Boosting photocatalytic performance for selective oxidation of biomass-derived pentoses and hexoses to lactic acid using hierarchically porous Cu/Cu2O/CuO@CA. *Journal of Materials Chemistry C*,	7.1	4
23	Tuning structure of spent coffee ground lignin by temperature fractionation to improve lignin-based carbon nanofibers mechanical performance. *International Journal of Biological Macromolecules*, **2021**, 174, 254-262	7.9	4
22	Fabrication of porous ultrathin carbon nitride nanosheet catalysts with enhanced photocatalytic activity for N- and O-heterocyclic compound synthesis. *New Journal of Chemistry*, **2021**, 45, 365-372	3.6	4
21	Glass bead-catalyzed depolymerization of poplar wood lignin into low-molecular-weight products. *New Journal of Chemistry*, **2019**, 43, 9280-9288	3.6	3
20	Magnetic coupling N self-doped porous carbon derived from biomass with broad absorption bandwidth and high-efficiency microwave absorption. *Journal of Colloid and Interface Science*, **2021**,	9.3	3
19	NiMgAl Catalysts Effectively Promote Depolymerization of Rice Husk Lignin to Bio-Oil. *Catalysis Letters*, **2020**, 150, 1591-1604	2.8	3
18	Flexible and Conductive Cellulose Composite Paper for Highly Efficient Electromagnetic Interference Shielding. *Advanced Electronic Materials*, **2021**, 7, 2100496	6.4	3
17	Facile adjusting the concentration of siliceous seed to obtain different HZSM-5 zeolite catalysts for effective catalytic depolymerization reaction of lignin. *Biomass Conversion and Biorefinery*,1	2.3	3

16	High-efficiency capture and removal of phosphate from wastewater by 3D hierarchical functional biomass-derived carbon aerogel.. *Science of the Total Environment*, **2022**, 827, 154343	10.2	3
15	Effect of hierarchical HZSM-5 zeolite on the catalytic depolymerization of organosolv lignin to renewable phenols. *Journal of Porous Materials*, **2022**, 29, 445	2.4	2
14	The Synthesis of h-BN-Modified Z-Scheme WO/g-CN Heterojunctions for Enhancing Visible Light Photocatalytic Degradation of Tetracycline Pollutants.. *ACS Omega*, **2022**, 7, 6035-6045	3.9	2
13	Nitrogen-doped lignin-derived biochar with enriched loading of CeO nanoparticles for highly efficient and rapid phosphate capture. *International Journal of Biological Macromolecules*, **2021**, 182, 1484-1494	7.9	2
12	Effective fractionation strategy of sugarcane bagasse lignin to fabricate quality lignin-based carbon nanofibers supercapacitors. *International Journal of Biological Macromolecules*, **2021**, 184, 604-617	7.9	2
11	Base-catalyzed depolymerization of lignin into phenols: methoxy groups□secondary reactions triggered phenol regulation and repolymerization. *Biomass Conversion and Biorefinery*,1	2.3	1
10	Nano-magnesium oxide as hard template synthesis of lignin carbonbased solid acids and its application for cellulose hydrolysis. *Tappi Journal*, **2019**, 18, 67-71	0.5	1
9	N□ Codoped Carbon Nanofibers Decorated with Graphene for High-Performance Supercapacitors. *Energy Technology*, **2021**, 9, 2100743	3.5	1
8	Characterization of lignin extracted from Acanthopanax senticosus residue using different methods on UV-resistant behavior. *International Journal of Biological Macromolecules*, **2021**, 192, 498-505	7.9	1
7	Reinforced macromolecular micelle-crosslinked hyaluronate gels induced by water/DMSO binary solvent. *Soft Matter*, **2020**, 16, 8647-8654	3.6	1
6	NiP/P-N-C Derived from Natural Single-Celled Chlorella for Catalytic Depolymerization of Lignin into Monophenols.. *ACS Omega*, **2022**, 7, 13134-13143	3.9	1
5	Lignin-based electrospinning nanofibers for reversible iodine capture and potential applications.. *International Journal of Biological Macromolecules*, **2022**, 208, 782-793	7.9	1
4	Biomass-based flexible fire warning sensor with excellent flame retardancy and sensitivity. *Chemical Engineering Journal*, **2022**, 437, 135412	14.7	1
3	Exploration of mechanisms of lignin extraction by different methods. *Environmental Progress and Sustainable Energy*,e13785	2.5	0
2	Multifunction lignin-based carbon nanofibers with enhanced electromagnetic wave absorption and surpercapacitive energy storage capabilities.. *International Journal of Biological Macromolecules*, **2022**, 199, 201-211	7.9	0
1	Layer-by-Layer Assembly of Graphene Oxide and Polyethylenimine on Carbon Nanofiber Films for Supercapacitor Applications. *ACS Applied Nano Materials*, **2022**, 5, 455-463	5.6	0