

Xing Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3132598/publications.pdf>

Version: 2024-02-01

57
papers

1,590
citations

331670

21
h-index

315739

38
g-index

57
all docs

57
docs citations

57
times ranked

1525
citing authors

#	ARTICLE	IF	CITATIONS
1	Depolymerization of corn cobs using the CO ₂ /lithium bromide trihydrate system for low molecular weight lignin with high antioxidant activity. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 7125-7137.	4.6	0
2	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.	4.6	8
3	Fabricating lignin-based carbon nanofibers as versatile supercapacitors from food wastes. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 632-643.	7.5	29
4	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.	7.5	15
5	Cellulose I nanocrystals (CNCs I) prepared in mildly acidic lithium bromide trihydrate (MALBTH) and their application for stabilizing Pickering emulsions. <i>International Journal of Biological Macromolecules</i> , 2022, 201, 59-66.	7.5	10
6	Ethanol organosolv lignin from different agricultural residues: Toward basic structural units and antioxidant activity. <i>Food Chemistry</i> , 2022, 376, 131895.	8.2	31
7	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.	2.6	6
8	The Synthesis of h-BN-Modified Z-Scheme WO ₃ /g-C ₃ N ₄ Heterojunctions for Enhancing Visible Light Photocatalytic Degradation of Tetracycline Pollutants. <i>ACS Omega</i> , 2022, 7, 6035-6045.	3.5	21
9	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.	2.8	3
10	Surface Gelatin-Coated Î ² -Mannanase-Immobilized Lignin for Delayed Release of Î ² -Mannanase to Remediate Guar-Based Fracturing Fluid Damage. <i>ACS Omega</i> , 2022, 7, 11722-11730.	3.5	0
11	Ni ₁₂ P ₅ /Pâ€“Nâ€“C Derived from Natural Single-Celled Chlorella for Catalytic Depolymerization of Lignin into Monophenols. <i>ACS Omega</i> , 2022, 7, 13134-13143.	3.5	3
12	Lignin-based electrospinning nanofibers for reversible iodine capture and potential applications. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 782-793.	7.5	13
13	From liquid hot water pretreatment solution to lignin-based hydrophobic deep eutectic solvent for highly efficient extraction of Cr (VI). <i>International Journal of Biological Macromolecules</i> , 2022, 208, 883-889.	7.5	4
14	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.	6.7	16
15	Magnesium liginosulfonate-derived N, S co-doped 3D flower-like hierarchically porous carbon as an advanced metal-free electrocatalyst towards oxygen reduction reaction. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 904-911.	7.5	12
16	One-pot preparation of amphoteric cellulose polymers for simultaneous recovery of ammonium and dihydrogen phosphate from wastewater and reutilizing as slow-release fertilizer. <i>European Polymer Journal</i> , 2022, 171, 111223.	5.4	9
17	pH fractionated lignin for the preparation of lignin-based magnetic nanoparticles for the removal of methylene blue dye. <i>Separation and Purification Technology</i> , 2022, 295, 121302.	7.9	22
18	Fabrication of uniform lignin nanoparticles with tunable size for potential wound healing application. <i>International Journal of Biological Macromolecules</i> , 2022, 214, 170-180.	7.5	20

#	ARTICLE	IF	CITATIONS
19	Preparation, characterization and formation mechanism of size-controlled lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2022, 217, 312-320.	7.5	14
20	Stabilization of Pickering emulsions via synergistic interfacial interactions between cellulose nanofibrils and nanocrystals. <i>Food Chemistry</i> , 2022, 395, 133603.	8.2	7
21	Rapid iodine capture from radioactive wastewater by green and low-cost biomass waste derived porous silicon-carbon composite. <i>RSC Advances</i> , 2021, 11, 5268-5275.	3.6	15
22	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.	7.5	21
23	Immobilization of laccases onto cellulose nanocrystals derived from waste newspaper: relationship between immobilized laccase activity and dialdehyde content. <i>Cellulose</i> , 2021, 28, 4793-4805.	4.9	19
24	Could preoxidation always promote the subsequent hydroconversion of lignin? Two counterexamples catalyzed by Cu/CuMgAlOx in supercritical ethanol. <i>Bioresource Technology</i> , 2021, 332, 125142.	9.6	8
25	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.	7.5	23
26	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.	5.2	50
27	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.	7.5	18
28	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.	8.9	86
29	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.	4.8	15
30	Ni-Mg-Al Catalysts Effectively Promote Depolymerization of Rice Husk Lignin to Bio-Oil. <i>Catalysis Letters</i> , 2020, 150, 1591-1604.	2.6	11
31	Activity of microporous lignin-derived carbon-based solid catalysts used in biodiesel production. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1840-1846.	7.5	29
32	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.	3.6	15
33	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.	7.2	32
34	Lignin bio-oil-based electrospun nanofibers with high substitution ratio property for potential carbon nanofibers applications. <i>Polymer Testing</i> , 2020, 89, 106591.	4.8	20
35	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.	7.5	26
36	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.	7.2	21

#	ARTICLE	IF	CITATIONS
37	A novel cellulose acetate/poly (ionic liquid) composite air filter. <i>Cellulose</i> , 2020, 27, 3889-3902.	4.9	35
38	Waste Seashells as a Highly Active Catalyst for Cyclopentanone Self-Aldol Condensation. <i>Catalysts</i> , 2019, 9, 661.	3.5	14
39	Novel lignin-chitosan-PVA composite hydrogel for wound dressing. <i>Materials Science and Engineering C</i> , 2019, 104, 110002.	7.3	201
40	Novel Nonprecious Metal Loading Multi-Metal Oxide Catalysts for Lignin Depolymerization. <i>Energy & Fuels</i> , 2019, 33, 6491-6500.	5.1	11
41	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.	6.7	36
42	A Comparison of Phenolic Monomers Produced from Different Types of Lignin by Phosphotungstic Acid Catalysts. <i>ChemistryOpen</i> , 2019, 8, 643-649.	1.9	20
43	Glass bead-catalyzed depolymerization of poplar wood lignin into low-molecular-weight products. <i>New Journal of Chemistry</i> , 2019, 43, 9280-9288.	2.8	3
44	A Phosphotungstic Acid Catalyst for Depolymerization in Bulrush Lignin. <i>Catalysts</i> , 2019, 9, 399.	3.5	23
45	Catalytic oxidation of biorefinery corncob lignin via zirconium(IV) chloride and sodium hydroxide in acetonitrile/water: A functionality study. <i>Science of the Total Environment</i> , 2019, 675, 203-212.	8.0	21
46	Self-assembly of cationic amphiphilic cellulose-g-poly (p-dioxanone) copolymers. <i>Carbohydrate Polymers</i> , 2019, 204, 214-222.	10.2	26
47	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.	5.5	38
48	Structural elucidation of industrial bioethanol residual lignin from corn stalk: A potential source of vinyl phenolics. <i>Fuel Processing Technology</i> , 2018, 169, 50-57.	7.2	81
49	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.	2.6	40
50	Lignin Structure and Solvent Effects on the Selective Removal of Condensed Units and Enrichment of S-Type Lignin. <i>Polymers</i> , 2018, 10, 967.	4.5	24
51	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.	6.7	58
52	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.	3.6	67
53	Mesoporous Bi ₂ WO ₆ sheets synthesized via a sol-gel freeze-drying method with excellent photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 101-108.	2.4	11
54	Removal of chromium (VI) by a self-regenerating and metal free g-C ₃ N ₄ /graphene hydrogel system via the synergy of adsorption and photo-catalysis under visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 53-62.	20.2	219

#	ARTICLE	IF	CITATIONS
55	Exploration of mechanisms of lignin extraction by different methods. Environmental Progress and Sustainable Energy, 0, , e13785.	2.3	3
56	Base-catalyzed depolymerization of lignin into phenols: methoxy groupsâ€™ secondary reactions triggered phenol regulation and repolymerization. Biomass Conversion and Biorefinery, 0, , 1.	4.6	3
57	Advances in the application of molecular sieves as catalysts for lignin depolymerization â€• <sc>HZSM</sc> â€• as an example. Environmental Progress and Sustainable Energy, 0, , .	2.3	4