

Ling-Ping Xiao

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,635
citations

24
h-index

40
g-index

63
ext. papers

2,215
ext. citations

7
avg, IF

5.22
L-index

#	Paper	IF	Citations
59	Bifunctional hydrogen-bonding cross-linked polymeric binders for silicon anodes of lithium-ion batteries. <i>Electrochimica Acta</i> , 2022 , 402, 139552	6.7	4
58	Nitrogen-doped carbon anchored ruthenium nanoparticles for biofuel upgrade. <i>Fuel</i> , 2022 , 314, 123100	7.1	3
57	Tuning the properties of pH-responsive lignin-based hydrogels by regulating hydroxyl content. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 643, 128815	5.1	0
56	Cooperative construction of oil/water separator using renewable lignin and PDMS. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 643, 128790	5.1	1
55	Valorization of lignin into phenolic compounds via fast pyrolysis: Impact of lignin structure. <i>Fuel</i> , 2022 , 319, 123758	7.1	1
54	Ultrahighly Elastic Lignin-Based Copolymers as an Effective Binder for Silicon Anodes of Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 166-176	8.3	2
53	The new identity of cellulose pulp: A green silver nanoparticles support for highly efficient catalytic hydrogenation of 4-nitrophenol. <i>Journal of Cleaner Production</i> , 2022 , 131833	10.3	2
52	Synergistic assembly of micro-islands by lignin and dopamine for superhydrophobic surface: Preparative chemistry and oil/water separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107777	6.8	0
51	Cotton-derived green sustainable membrane with tailored wettability interface: Synergy of lignin and ethyl cellulose. <i>Industrial Crops and Products</i> , 2022 , 183, 114993	5.9	0
50	Fully exposed silver nanoparticles stabilized on pH-responsive lignin-reactors for enhanced 4-nitrophenol reduction. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107945	6.8	
49	Renewable and flexible thermosetting epoxies based on functionalized biorefinery lignin fractions. <i>Materials Today Sustainability</i> , 2021 , 100083	5	1
48	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	7.9	4
47	Immobilization of nanosilver onto glycine modified lignin hydrogel composites for highly efficient p-nitrophenol hydrogenation. <i>Chemical Engineering Journal</i> , 2021 , 403, 126370	14.7	26
46	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	21.8	48
45	Selective hydrogenolysis of catechyl lignin into propenylcatechol over an atomically dispersed ruthenium catalyst. <i>Nature Communications</i> , 2021 , 12, 416	17.4	28
44	Lignin-based adsorbent materials for metal ion removal from wastewater: A review. <i>Industrial Crops and Products</i> , 2021 , 167, 113510	5.9	13
43	Insights into bamboo delignification with acidic deep eutectic solvents pretreatment for enhanced lignin fractionation and valorization. <i>Industrial Crops and Products</i> , 2021 , 170, 113692	5.9	16

42	Structures and pyrolytic characteristics of organosolv lignins from typical softwood, hardwood and herbaceous biomass. <i>Industrial Crops and Products</i> , 2021 , 171, 113912	5.9	9
41	Integrated Cascade Biorefinery Processes to Transform Woody Biomass Into Phenolic Monomers and Carbon Quantum Dots.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 803138	5.8	1
40	Unlocking Structure-Reactivity Relationships for Catalytic Hydrogenolysis of Lignin into Phenolic Monomers. <i>ChemSusChem</i> , 2020 , 13, 4548-4556	8.3	16
39	Chemoselective Hydrogenation of Functionalized Nitroarenes into Anilines by Supported Molybdenum Catalysts. <i>ChemistrySelect</i> , 2020 , 5, 7249-7253	1.8	2
38	An integrated biorefinery process to comprehensively utilize corn stalk in a MIBK/water/Al(NO ₃) ₃ ·9H ₂ O biphasic system: Chemical and morphological changes. <i>Industrial Crops and Products</i> , 2020 , 147, 112173	5.9	6
37	Total utilization of lignin and carbohydrates in : an integrated biorefinery strategy towards phenolics, levulinic acid, and furfural. <i>Biotechnology for Biofuels</i> , 2020 , 13, 2	7.8	18
36	Unraveling the Structural Transformation of Wood Lignin During Deep Eutectic Solvent Treatment. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	21
35	Catechyl Lignin Extracted from Castor Seed Coats Using Deep Eutectic Solvents: Characterization and Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7031-7038	8.3	31
34	Green synthesis of chemical converted graphene sheets derived from pulping black liquor. <i>Carbon</i> , 2020 , 158, 690-697	10.4	19
33	Preparation of magnetic hydrogel microspheres of lignin derivate for application in water. <i>Science of the Total Environment</i> , 2019 , 685, 847-855	10.2	40
32	Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. <i>Bioresource Technology</i> , 2019 , 285, 121335	11	40
31	Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4666-4674	8.3	34
30	Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. <i>Green Chemistry</i> , 2019 , 21, 1498-1504	10	38
29	Hydrogenolysis of biorefinery corncob lignin into aromatic phenols over activated carbon-supported nickel. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 401-408	5.8	29
28	Integration of Enzymatic and Heterogeneous Catalysis for One-Pot Production of Fructose from Glucose. <i>ChemSusChem</i> , 2018 , 11, 1157-1162	8.3	6
27	Selective Fragmentation of Biorefinery Corncob Lignin into p-Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. <i>ChemSusChem</i> , 2018 , 11, 2114-2123	8.3	49
26	Catalytic Conversion of Carbohydrates into 5-Ethoxymethylfurfural by a Magnetic Solid Acid Using γ -Valerolactone as a Co-Solvent. <i>Energy Technology</i> , 2018 , 6, 1951-1958	3.5	19
25	Highly Efficient Hydrogenation of Levulinic Acid into γ -Valerolactone using an Iron Pincer Complex. <i>ChemSusChem</i> , 2018 , 11, 1474-1478	8.3	28

24	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017 , 19, 3272-3281	89
23	Acceptorless dehydrogenation and dehydrogenative coupling of alcohols catalysed by protic NHC ruthenium complexes. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 3466-3471	39 38
22	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. <i>ACS Catalysis</i> , 2017 , 7, 7535-7542	13.1 139
21	Effect of Hydrothermal Processing on Hemicellulose Structure 2017 , 45-94	12
20	Microwave-assisted conversion of biomass derived hemicelluloses into xylo-oligosaccharides by novel sulfonated bamboo-based catalysts. <i>Biomass and Bioenergy</i> , 2015 , 75, 245-253	5.3 32
19	Influence of alkaline hydrothermal pretreatment on shrub wood <i>Tamarix ramosissima</i> : Characteristics of degraded lignin. <i>Biomass and Bioenergy</i> , 2014 , 68, 82-94	5.3 18
18	Efficient hydrolyzation of cellulose in ionic liquid by novel sulfonated biomass-based catalysts. <i>Cellulose</i> , 2014 , 21, 2327-2336	5.5 31
17	Unraveling the structural characteristics of lignin in hydrothermal pretreated fibers and manufactured binderless boards from <i>Eucalyptus grandis</i> . <i>Sustainable Chemical Processes</i> , 2014 , 2, 9	41
16	Selective Production of Phenolic-rich Bio-oil from Catalytic Fast Pyrolysis of Biomass: Comparison of K ₃ PO ₄ , K ₂ HPO ₄ , and KH ₂ PO ₄ . <i>BioResources</i> , 2014 , 9,	1.3 6
15	Isolation and Structural Characterization of Lignin Polymer from <i>Dendrocalamus sinicus</i> . <i>Bioenergy Research</i> , 2013 , 6, 1212-1222	3.1 16
14	Biodegradation of Lignocellulose by White-Rot Fungi: Structural Characterization of Water-Soluble Hemicelluloses. <i>Bioenergy Research</i> , 2013 , 6, 1154-1164	3.1 22
13	Hydrothermal treatment and enzymatic hydrolysis of <i>Tamarix ramosissima</i> : evaluation of the process as a conversion method in a biorefinery concept. <i>Bioresource Technology</i> , 2013 , 135, 73-81	11 50
12	Characterization of Lignins Isolated with Alkaline Ethanol from the Hydrothermal Pretreated <i>Tamarix ramosissima</i> . <i>Bioenergy Research</i> , 2013 , 6, 519-532	3.1 40
11	Structural variation of bamboo lignin before and after ethanol organosolv pretreatment. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21394-413	6.3 63
10	Isolation and Structural Exploration of Hemicelluloses from the Largest Bamboo Species: <i>Dendrocalamus sinicus</i> . <i>BioResources</i> , 2013 , 8,	1.3 3
9	Hydrothermal carbonization of lignocellulosic biomass. <i>Bioresource Technology</i> , 2012 , 118, 619-23	11 285
8	Physicochemical characterization of lignin fractions sequentially isolated from bamboo (<i>Dendrocalamus brandisii</i>) with hot water and alkaline ethanol solution. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3290-3301	2.9 24
7	Isolation and structural characterization of lignin from cotton stalk treated in an ammonia hydrothermal system. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 15209-26	6.3 49

6	Characterization of MWLs from <i>Tamarix ramosissima</i> isolated before and after hydrothermal treatment by spectroscopical and wet chemical methods. <i>Holzforschung</i> , 2012 , 66,	2	16
5	Fractional isolation and structural characterization of hemicellulosic polymers from <i>Caragana sinica</i> . <i>E-Polymers</i> , 2011 , 11,	2.7	3
4	Comparative study of alkali-soluble hemicelluloses isolated from bamboo (<i>Bambusa rigida</i>). <i>Carbohydrate Research</i> , 2011 , 346, 111-20	2.9	89
3	Chemical and structural characterization of lignins isolated from <i>Caragana sinica</i> . <i>Fibers and Polymers</i> , 2011 , 12, 316-323	2	9
2	Structural characterization of lignins isolated from <i>Caragana sinica</i> using FT-IR and NMR spectroscopy. <i>Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis</i> , 2011 , 31, 2369-76		
1	Catalytic degradation of organic pollutants for water remediation over Ag nanoparticles immobilized on amine-functionalized metal-organic frameworks. <i>Nano Research</i> ,	10	3