

Hongxiang Xie

List of Publications by Citations

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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.

60
papers

2,093
citations

26
h-index

45
g-index

63
ext. papers

3,362
ext. citations

7.7
avg, IF

5.75
L-index

#	Paper	IF	Citations
60	Cellulose nanocrystals and cellulose nanofibrils based hydrogels for biomedical applications. <i>Carbohydrate Polymers</i> , 2019 , 209, 130-144	10.3	374
59	Production of 5-hydroxymethylfurfural and levulinic acid from lignocellulosic biomass and catalytic upgradation. <i>Industrial Crops and Products</i> , 2019 , 130, 184-197	5.9	135
58	Preparation and characterization of thermally stable cellulose nanocrystals via a sustainable approach of FeCl ₃ -catalyzed formic acid hydrolysis. <i>Cellulose</i> , 2016 , 23, 2389-2407	5.5	98
57	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. <i>Chemical Engineering Journal</i> , 2020 , 382, 122937	14.7	98
56	Recent Strategies in Preparation of Cellulose Nanocrystals and Cellulose Nanofibrils Derived from Raw Cellulose Materials. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-25	2.4	92
55	Enhancing the solubility and antioxidant activity of high-molecular-weight lignin by moderate depolymerization via in situ ethanol/acid catalysis. <i>Industrial Crops and Products</i> , 2019 , 128, 177-185	5.9	82
54	Recent advances in cellulose and its derivatives for oilfield applications. <i>Carbohydrate Polymers</i> , 2021 , 259, 117740	10.3	80
53	Preparation and characterization of functional cellulose nanofibrils via formic acid hydrolysis pretreatment and the followed high-pressure homogenization. <i>Industrial Crops and Products</i> , 2016 , 94, 736-745	5.9	80
52	Facile Extraction of Thermally Stable and Dispersible Cellulose Nanocrystals with High Yield via a Green and Recyclable FeCl ₃ -Catalyzed Deep Eutectic Solvent System. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7200-7208	8.3	67
51	Lignin-based electrodes for energy storage application. <i>Industrial Crops and Products</i> , 2021 , 165, 113425	5.9	64
50	One-pot lignin depolymerization and activation by solid acid catalytic phenolation for lightweight phenolic foam preparation. <i>Industrial Crops and Products</i> , 2018 , 124, 216-225	5.9	60
49	Novel lignin-based phenolic nanosphere supported palladium nanoparticles with highly efficient catalytic performance and good reusability. <i>Industrial Crops and Products</i> , 2020 , 145, 112164	5.9	56
48	Cellulose based composite foams and aerogels for advanced energy storage devices. <i>Chemical Engineering Journal</i> , 2021 , 426, 130817	14.7	55
47	Highly Efficient Preparation of Functional and Thermostable Cellulose Nanocrystals via HSO Intensified Acetic Acid Hydrolysis. <i>Carbohydrate Polymers</i> , 2020 , 239, 116233	10.3	53
46	Comparative Evaluation of the Efficient Conversion of Corn Husk Filament and Corn Husk Powder to Valuable Materials via a Sustainable and Clean Biorefinery Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1327-1336	8.3	45
45	Preparation of thermally stable and surface-functionalized cellulose nanocrystals via mixed HSO/Oxalic acid hydrolysis. <i>Carbohydrate Polymers</i> , 2019 , 223, 115116	10.3	42
44	Highly Efficient and Sustainable Preparation of Carboxylic and Thermostable Cellulose Nanocrystals via FeCl ₃ -Catalyzed Innocuous Citric Acid Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16691-16700	8.3	41

43	Lignin-containing cellulose nanomaterials: preparation and applications. <i>Green Chemistry</i> ,	10	38
42	Green and efficient production of furfural from corn cob over H-ZSM-5 using γ -valerolactone as solvent. <i>Industrial Crops and Products</i> , 2018 , 120, 343-350	5.9	37
41	Sustainable preparation of cellulose nanofibrils via choline chloride-citric acid deep eutectic solvent pretreatment combined with high-pressure homogenization. <i>Carbohydrate Polymers</i> , 2021 , 267, 118220	10.3	37
40	High efficient recovery of L-lactide with lignin-based filler by thermal degradation. <i>Industrial Crops and Products</i> , 2020 , 143, 111954	5.9	32
39	Sustainable preparation of bifunctional cellulose nanocrystals via mixed HSO ₄ /formic acid hydrolysis. <i>Carbohydrate Polymers</i> , 2021 , 266, 118107	10.3	32
38	Subdivision of bamboo kraft lignin by one-step ethanol fractionation to enhance its water-solubility and antibacterial performance. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 156-164	7.9	31
37	Kinetic study of furfural production from Eucalyptus sawdust using H-SAPO-34 as solid Brønsted acid and Lewis acid catalysts in biomass-derived solvents. <i>Industrial Crops and Products</i> , 2019 , 135, 196-205	5.9	30
36	Synthesis of lignin-functionalized phenolic nanosphere supported Ag nanoparticles with excellent dispersion stability and catalytic performance. <i>Green Chemistry</i> , 2020 , 22, 2879-2888	10	30
35	Efficient catalytic production of biomass-derived levulinic acid over phosphotungstic acid in deep eutectic solvent. <i>Industrial Crops and Products</i> , 2020 , 145, 112154	5.9	27
34	Lignin fractionation: Effective strategy to reduce molecule weight dependent heterogeneity for upgraded lignin valorization. <i>Industrial Crops and Products</i> , 2021 , 165, 113442	5.9	24
33	Fabrication and applications of cellulose-based nanogenerators. <i>Advanced Composites and Hybrid Materials</i> , ¹	8.7	24
32	Conversion of waste lignocellulose to furfural using sulfonated carbon microspheres as catalyst. <i>Waste Management</i> , 2020 , 108, 119-126	8.6	23
31	Lignin as a Novel Tyrosinase Inhibitor: Effects of Sources and Isolation Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9510-9518	8.3	23
30	Valorization of corn stover into furfural and levulinic acid over SAPO-18 zeolites: Effect of Brønsted to Lewis acid sites ratios. <i>Industrial Crops and Products</i> , 2019 , 141, 111759	5.9	21
29	Flexible and porous Co ₃ O ₄ -carbon nanofibers as binder-free electrodes for supercapacitors. <i>Advanced Composites and Hybrid Materials</i> , ¹	8.7	20
28	Functionality study of lignin as a tyrosinase inhibitor: Influence of lignin heterogeneity on anti-tyrosinase activity. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 107-113	7.9	14
27	Fabrication of lignin nanospheres by emulsification in a binary γ -valerolactone/glycerol system and their application as a bifunctional reducer and carrier for Pd nanoparticles with enhanced catalytic activity. <i>Green Chemistry</i> , 2020 , 22, 8594-8603	10	14
26	Cellulose Nanomaterials for Oil Exploration Applications. <i>Polymer Reviews</i> , ¹⁻⁴¹	14	14

25	Valorization of Enzymatic Hydrolysis Residues from Corn cob into Lignin-Containing Cellulose Nanofibrils and Lignin Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 677963	5.8	13
24	Cellulose Nanopaper: Fabrication, Functionalization, and Applications.. <i>Nano-Micro Letters</i> , 2022 , 14, 104	19.5	10
23	Recent Advances in Hydrophobic Modification of Nanocellulose. <i>Current Organic Chemistry</i> , 2021 , 25, 417-436	1.7	9
22	Cellulose Nanofibrils-based Hydrogels for Biomedical Applications: Progresses and Challenges. <i>Current Medicinal Chemistry</i> , 2020 , 27, 4622-4646	4.3	7
21	Tyrosinase inhibitory performance of hydrolysate from post-washing liquor of steam exploded corn stalk and its fractionation enhancement. <i>Industrial Crops and Products</i> , 2020 , 154, 112652	5.9	6
20	Lignin-Based/Polypyrrole Carbon Nanofiber Electrode With Enhanced Electrochemical Properties by Electrospun Method.. <i>Frontiers in Chemistry</i> , 2022 , 10, 841956	5	6
19	Lignin nanoparticles for hydrogel-based pressure sensor. <i>Industrial Crops and Products</i> , 2022 , 176, 114365.9	5.9	6
18	Multifunctional Lignin-Based Composite Materials for Emerging Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 708976	5.8	6
17	Strong and highly conductive cellulose nanofibril/silver nanowires nanopaper for high performance electromagnetic interference shielding. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	6
16	Green assembly of high-density and small-sized silver nanoparticles on liginosulfonate-phenolic resin spheres: Focusing on multifunction of liginosulfonate. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 893-901	7.9	4
15	Compressible cellulose nanofibrils/reduced graphene oxide composite carbon aerogel for solid-state supercapacitor. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	4
14	Effects of different amounts of cellulase on the microstructure and soluble substances of cotton stalk bark. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	3
13	Reduction of lignin heterogeneity using aqueous two-phase system: A facile and universal "one-step-three-fractions" approach. <i>International Journal of Biological Macromolecules</i> , 2021 , 186, 341-350	7.9	3
12	Facile and scalable preparation of cage-like mesoporous carbon from lignin-based phenolic resin and its application in supercapacitor electrodes. <i>Carbon</i> , 2022 , 196, 819-827	10.4	3
11	Effects of two different enzyme treatments on the microstructure of outer surface of wheat straw. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	2
10	Phosphotungstic acid functionalized biochar for furfural production from corncob. <i>Fuel Processing Technology</i> , 2022 , 229, 107178	7.2	2
9	Genetic Diversity, Chemical Components, and Property of Biomass var.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 713860	5.8	2
8	Alkylation modification for lignin color reduction and molecular weight adjustment.. <i>International Journal of Biological Macromolecules</i> , 2022 , 201, 400-410	7.9	1

7	Reduction of lignin heterogeneity for improved catalytic performance of lignin nanosphere supported Pd nanoparticles. <i>Industrial Crops and Products</i> , 2022 , 180, 114685	5.9	1
6	Novel Surfactant-Assisted Hydrothermal Fabrication of a Lignin Microsphere as a Green Reducer and Carrier for Pd Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 17085-17095	8.3	1
5	Sustainable production of cellulose nanofibrils from Kraft pulp for the stabilization of oil-in-water Pickering emulsions. <i>Industrial Crops and Products</i> , 2022 , 185, 115123	5.9	1
4	The Kinetics Studies on Hydrolysis of Hemicellulose. <i>Frontiers in Chemistry</i> , 2021 , 9, 781291	5	0
3	Preparation and Application in Water Treatment of Magnetic Biochar. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 769667	5.8	0
2	One step synthesis of Mo-doped carbon microspheres for valorization corncob to levulinic acid. <i>Industrial Crops and Products</i> , 2022 , 184, 115019	5.9	0
1	Novel and Efficient Lignin Fractionation Processes for Tailing Lignin-Based Materials 2021 , 363-387		