

Guanhua Wang

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37
papers

1,047
citations

19
h-index

32
g-index

39
ext. papers

1,398
ext. citations

6.9
avg, IF

5.12
L-index

#	Paper	IF	Citations
37	Fractionation of alkali-extracted lignin from steam-exploded stalk by gradient acid precipitation. <i>Separation and Purification Technology</i> , 2013 , 105, 98-105	8.3	99
36	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
35	Fractionation of enzymatic hydrolysis lignin by sequential extraction for enhancing antioxidant performance. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 674-681	7.9	80
34	Fractionation and characterization of lignin from steam-exploded corn stalk by sequential dissolution in ethanol/water solvent. <i>Separation and Purification Technology</i> , 2013 , 120, 402-409	8.3	70
33	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
32	Carbohydrate elimination of alkaline-extracted lignin liquor by steam explosion and its methylation for substitution of phenolic adhesive. <i>Industrial Crops and Products</i> , 2014 , 53, 93-101	5.9	57
31	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
30	Preparation and Characterization of Chitosan by a Novel Deacetylation Approach Using Glycerol as Green Reaction Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4690-4698	8.3	49
29	A novel and efficient process for lignin fractionation in biomass-derived glycerol-ethanol solvent system. <i>Industrial Crops and Products</i> , 2018 , 111, 201-211	5.9	49
28	Using Green γ -Valerolactone/Water Solvent To Decrease Lignin Heterogeneity by Gradient Precipitation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10112-10120	8.3	40
27	Novel Fe ₃ O ₄ @lignosulfonate/phenolic core-shell microspheres for highly efficient removal of cationic dyes from aqueous solution. <i>Industrial Crops and Products</i> , 2019 , 127, 110-118	5.9	40
26	Chitosan oligosaccharide-based dual pH responsive nano-micelles for targeted delivery of hydrophobic drugs. <i>Carbohydrate Polymers</i> , 2019 , 223, 115061	10.3	37
25	Lignin Fractionation for Reduced Heterogeneity in Self-Assembly Nanosizing: Toward Targeted Preparation of Uniform Lignin Nanoparticles with Small Size. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9174-9183	8.3	34
24	Enhanced lignin extraction process from steam exploded corn stalk. <i>Separation and Purification Technology</i> , 2016 , 157, 93-101	8.3	33
23	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
22	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
21	Successive ethanol/water fractionation of enzymatic hydrolysis lignin to concentrate its antimicrobial activity. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 2977-2987	3.5	28

20	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
19	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
18	Mild One-Pot Lignocellulose Fractionation Based on Acid-Catalyzed Biphasic Water/Phenol System to Enhance Components Processability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2772-2782	8.3	17
17	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
16	Fabrication of lignin nanospheres by emulsification in a binary 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
15	Improved high-solid loading enzymatic hydrolysis of steam exploded corn stalk using rapid room temperature Valerolactone delignification. <i>Industrial Crops and Products</i> , 2021 , 165, 113389	5.9	13
14	Using Lignin Monomer As a Novel Capping Agent for Efficient Acid-Catalyzed Depolymerization of High Molecular Weight Lignin to Improve Its Antioxidant Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9104-9114	8.3	12
13	Adsorption of Ammonium Nitrogen from Aqueous Solution on Chemically Activated Biochar Prepared from Sorghum Distillers Grain. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5249	2.6	12
12	Stepwise Ethanol-Water Fractionation of Enzymatic Hydrolysis Lignin to Improve Its Performance as a Cationic Dye Adsorbent. <i>Molecules</i> , 2020 , 25,	4.8	10
11	Hydrothermal deglycosylation and deconstruction effect of steam explosion: Application to high-valued glycyrrhizic acid derivatives from liquorice. <i>Food Chemistry</i> , 2020 , 307, 125558	8.5	8
10	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
9	Step Collection of Bio-oil from Pyrolysis of Steam Exploded Sumac Marc and Activated Carbon Prepared from Pyrolysis Residues. <i>Energy & Fuels</i> , 2013 , 27, 7432-7438	4.1	4
8	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
7	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
6	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
5	Graft copolymerization of acrylic acid on kraft lignin to enhance aniline adsorption from aqueous solution. <i>Tappi Journal</i> , 2019 , 18, 75-84	0.5	2
4	Potential Hydrothermal-Humification of Vegetable Wastes by Steam Explosion and Structural Characteristics of Humified Fractions. <i>Molecules</i> , 2021 , 26,	4.8	1
3	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

2	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
1	Multi-fractal structure features of corn stalks and their correlation with pretreatment homogeneity and efficacy.. <i>Bioresource Technology</i> , 2021 , 346, 126573	11	0