Guanhua Wang

List of Publications by Year in Descending Order

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	Reduction of lignin heterogeneity for improved catalytic performance of lignin nanosphere supported Pd nanoparticles. *Industrial Crops and Products*, **2022**, 180, 114685	5.9	1
36	Facile and scalable preparation of cage-like mesoporous carbon from lignin-based phenolic resin and its application in supercapacitor electrodes. *Carbon*, **2022**, 196, 819-827	10.4	3
35	Multi-fractal structure features of corn stalks and their correlation with pretreatment homogeneity and efficacy.. *Bioresource Technology*, **2021**, 346, 126573	11	0
34	Potential Hydrothermal-Humification of Vegetable Wastes by Steam Explosion and Structural Characteristics of Humified Fractions. *Molecules*, **2021**, 26,	4.8	1
33	Lignin fractionation: Effective strategy to reduce molecule weight dependent heterogeneity for upgraded lignin valorization. *Industrial Crops and Products*, **2021**, 165, 113442	5.9	24
32	Green assembly of high-density and small-sized silver nanoparticles on lignosulfonate-phenolic resin spheres: Focusing on multifunction of lignosulfonate. *International Journal of Biological Macromolecules*, **2021**, 166, 893-901	7.9	4
31	Improved high-solid loading enzymatic hydrolysis of steam exploded corn stalk using rapid room temperature γ-valerolactone delignification. *Industrial Crops and Products*, **2021**, 165, 113389	5.9	13
30	Reduction of lignin heterogeneity using aqueous two-phase system: A facile and universal "one-step-three-fractions" approach. *International Journal of Biological Macromolecules*, **2021**, 186, 341-350	7.9	3
29	Novel Surfactant-Assisted Hydrothermal Fabrication of a Lignin Microsphere as a Green Reducer and Carrier for Pd Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 17085-17095	8.3	1
28	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. *Green Chemistry*, **2020**, 22, 8594-8603	10	14
27	Using Lignin Monomer As a Novel Capping Agent for Efficient Acid-Catalyzed Depolymerization of High Molecular Weight Lignin to Improve Its Antioxidant Activity. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9104-9114	8.3	12
26	Lignin Fractionation for Reduced Heterogeneity in Self-Assembly Nanosizing: Toward Targeted Preparation of Uniform Lignin Nanoparticles with Small Size. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9174-9183	8.3	34
25	Stepwise Ethanol-Water Fractionation of Enzymatic Hydrolysis Lignin to Improve Its Performance as a Cationic Dye Adsorbent. *Molecules*, **2020**, 25,	4.8	10
24	Tyrosinase inhibitory performance of hydrolysate from post-washing liquor of steam exploded corn stalk and its fractionation enhancement. *Industrial Crops and Products*, **2020**, 154, 112652	5.9	6
23	Mild One-Pot Lignocellulose Fractionation Based on Acid-Catalyzed Biphasic Water/Phenol System to Enhance Components' Processability. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2772-2782	8.3	17
22	Novel lignin-based phenolic nanosphere supported palladium nanoparticles with highly efficient catalytic performance and good reusability. *Industrial Crops and Products*, **2020**, 145, 112164	5.9	56
21	Hydrothermal deglycosylation and deconstruction effect of steam explosion: Application to high-valued glycyrrhizic acid derivatives from liquorice. *Food Chemistry*, **2020**, 307, 125558	8.5	8

20	Synthesis of lignin-functionalized phenolic nanosphere supported Ag nanoparticles with excellent dispersion stability and catalytic performance. *Green Chemistry*, **2020**, 22, 2879-2888	10	30
19	Functionality study of lignin as a tyrosinase inhibitor: Influence of lignin heterogeneity on anti-tyrosinase activity. *International Journal of Biological Macromolecules*, **2019**, 128, 107-113	7.9	14
18	Using Green γ-Valerolactone/Water Solvent To Decrease Lignin Heterogeneity by Gradient Precipitation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10112-10120	8.3	40
17	Subdivision of bamboo kraft lignin by one-step ethanol fractionation to enhance its water-solubility and antibacterial performance. *International Journal of Biological Macromolecules*, **2019**, 133, 156-164	7.9	31
16	Chitosan oligosaccharide-based dual pH responsive nano-micelles for targeted delivery of hydrophobic drugs. *Carbohydrate Polymers*, **2019**, 223, 115061	10.3	37
15	Graft copolymerization of acrylic acid on kraft lignin to enhance aniline adsorption from aqueous solution. *Tappi Journal*, **2019**, 18, 75-84	0.5	2
14	Adsorption of Ammonium Nitrogen from Aqueous Solution on Chemically Activated Biochar Prepared from Sorghum Distillers Grain. *Applied Sciences (Switzerland)*, **2019**, 9, 5249	2.6	12
13	Enhancing the solubility and antioxidant activity of high-molecular-weight lignin by moderate depolymerization via in situ ethanol/acid catalysis. *Industrial Crops and Products*, **2019**, 128, 177-185	5.9	82
12	Novel Fe3O4@lignosulfonate/phenolic core-shell microspheres for highly efficient removal of cationic dyes from aqueous solution. *Industrial Crops and Products*, **2019**, 127, 110-118	5.9	40
11	Successive ethanol–water fractionation of enzymatic hydrolysis lignin to concentrate its antimicrobial activity. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 2977-2987	3.5	28
10	A novel and efficient process for lignin fractionation in biomass-derived glycerol-ethanol solvent system. *Industrial Crops and Products*, **2018**, 111, 201-211	5.9	49
9	One-pot lignin depolymerization and activation by solid acid catalytic phenolation for lightweight phenolic foam preparation. *Industrial Crops and Products*, **2018**, 124, 216-225	5.9	60
8	Lignin as a Novel Tyrosinase Inhibitor: Effects of Sources and Isolation Processes. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9510-9518	8.3	23
7	Fractionation of enzymatic hydrolysis lignin by sequential extraction for enhancing antioxidant performance. *International Journal of Biological Macromolecules*, **2017**, 99, 674-681	7.9	80
6	Preparation and Characterization of Chitosan by a Novel Deacetylation Approach Using Glycerol as Green Reaction Solvent. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4690-4698	8.3	49
5	Enhanced lignin extraction process from steam exploded corn stalk. *Separation and Purification Technology*, **2016**, 157, 93-101	8.3	33
4	Carbohydrate elimination of alkaline-extracted lignin liquor by steam explosion and its methylolation for substitution of phenolic adhesive. *Industrial Crops and Products*, **2014**, 53, 93-101	5.9	57
3	Fractionation and characterization of lignin from steam-exploded corn stalk by sequential dissolution in ethanol–water solvent. *Separation and Purification Technology*, **2013**, 120, 402-409	8.3	70

2	Fractionation of alkali-extracted lignin from steam-exploded stalk by gradient acid precipitation. *Separation and Purification Technology*, **2013**, 105, 98-105	8.3	99
1	Step Collection of Bio-oil from Pyrolysis of Steam Exploded Sumac Marc and Activated Carbon Prepared from Pyrolysis Residues. *Energy & Fuels*, **2013**, 27, 7432-7438	4.1	4