Bai-Liang

List of Publications by Year
in descending order

24 papers	2,113 citations	361045 20 h-index	610482 24 g-index
24 all docs	24 docs citations	24 times ranked	2143 citing authors

#	Article	IF	Citations
1	Recent Advances in Characterization of Lignin Polymer by Solution-State Nuclear Magnetic Resonance (NMR) Methodology. Materials, 2013, 6, 359-391.	1.3	591
2	Unmasking the structural features and property of lignin from bamboo. Industrial Crops and Products, 2013, 42, 332-343.	2.5	215
3	Lignin-Based Rigid Polyurethane Foam Reinforced with Pulp Fiber: Synthesis and Characterization. ACS Sustainable Chemistry and Engineering, 2014, 2, 1474-1480.	3.2	176
4	Quantitative structural characterization of the lignins from the stem and pith of bamboo (Phyllostachys pubescens). Holzforschung, 2013, 67, 613-627.	0.9	170
5	Unveiling the Structural Heterogeneity of Bamboo Lignin by In Situ HSQC NMR Technique. Bioenergy Research, 2012, 5, 886-903.	2.2	100
6	Quantitative structural characterization andÂthermal properties of birch lignins after autoâ€catalyzed organosolv pretreatment andÂenzymatic hydrolysis. Journal of Chemical Technology and Biotechnology, 2013, 88, 1663-1671.	1.6	100
7	Photoluminescent lignin hybridized carbon quantum dots composites for bioimaging applications. International Journal of Biological Macromolecules, 2019, 122, 954-961.	3.6	92
8	Structural elucidation of inhomogeneous lignins from bamboo. International Journal of Biological Macromolecules, 2015, 77, 250-259.	3.6	83
9	Producing Lignin-Based Polyols through Microwave-Assisted Liquefaction for Rigid Polyurethane Foam Production. Materials, 2015, 8, 586-599.	1.3	73
10	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. ACS Sustainable Chemistry and Engineering, 2019, 7, 13062-13072.	3.2	68
11	New Kind of Lignin/Polyhydroxyurethane Composite: Green Synthesis, Smart Properties, Promising Applications, and Good Reprocessability and Recyclability. ACS Applied Materials & Interfaces, 2021, 13, 28938-28948.	4.0	64
12	Near-infrared and visible dual emissive transparent nanopaper based on Yb(III)â€“carbon quantum dots grafted oxidized nanofibrillated cellulose for anti-counterfeiting applications. Cellulose, 2018, 25, 377-389.	2.4	60
13	Sustainable alternative for bisphenol A epoxy resin high-performance and recyclable lignin-based epoxy vitrimers. Industrial Crops and Products, 2021, 168, 113583.	2.5	56
14	Lewis acid-catalyzed biphasic 2-methyltetrahydrofuran/H2O pretreatment of lignocelluloses to enhance cellulose enzymatic hydrolysis and lignin valorization. Bioresource Technology, 2018, 270, 55-61.	4.8	42
15	One-step hydrothermal synthesis of a flexible nanopaper-based Fe3+ sensor using carbon quantum dot grafted cellulose nanofibrils. Cellulose, 2020, 27, 729-742.	2.4	33
16	Regulating Lignin-Based Epoxy Vitrimer Performance by Fine-Tuning the Lignin Structure. ACS Applied Polymer Materials, 2022, 4, 1117-1125.	2.0	32
17	Hydrolytic depolymerization of corncob lignin in the view of a bio-based rigid polyurethane foam synthesis. RSC Advances, 2017, 7, 6123-6130.	1.7	30
18	Ethanol organosolv lignin as a reactive filler for acrylamideâ€based hydrogels. Journal of Applied Polymer Science, 2015, 132, .	1.3	22

#	Article	IF	Citations
19	Lignin-based polyurethane film reinforced with cellulose nanocrystals. RSC Advances, 2014, 4, 36089-36096.	1.7	21
20	Microdesigned Nanocellulose-Based Flexible Antibacterial Aerogel Architectures Impregnated with Bioactive Cinnamomum cassia. ACS Applied Materials & Interfaces, 2021, 13, 4874-4885.	4.0	20
21	Polyols production by chemical modification of autocatalyzed ethanolâ€water lignin from Betula alnoides. Journal of Applied Polymer Science, 2013, 129, 434-442.	1.3	17
22	Near-infrared emissive lanthanide hybridized nanofibrillated cellulose nanopaper as ultraviolet filter. Carbohydrate Polymers, 2018, 186, 176-183.	5.1	17
23	Efficient dissolution of lignin in novel ternary deep eutectic solvents and its application in polyurethane. International Journal of Biological Macromolecules, 2020, 164, 480-488.	3.6	17
24	Mixed-Acid-Assisted Hydrothermal Process for Simultaneous Preparation and Carboxylation of Needle-Shaped Cellulose Nanocrystals. ACS Applied Polymer Materials, 2020, 2, 548-562.	2.0	14