

Fachuang Lu

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,953
citations

257101

24
h-index

253896

43
g-index

49
all docs

49
docs citations

49
times ranked

2646
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Coumarate 3-Hydroxylase Down-regulation on Lignin Structure. <i>Journal of Biological Chemistry</i> , 2006, 281, 8843-8853.	1.6	209
2	Highly Stretchable and Compressible Cellulose Ionic Hydrogels for Flexible Strain Sensors. <i>Biomacromolecules</i> , 2019, 20, 2096-2104.	2.6	171
3	Polyethyleneimine-bacterial cellulose bioadsorbent for effective removal of copper and lead ions from aqueous solution. <i>Bioresource Technology</i> , 2017, 244, 844-849.	4.8	153
4	Zirconium- α -lignosulfonate polyphenolic polymer for highly efficient hydrogen transfer of biomass-derived oxygenates under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 31-43.	10.8	126
5	Ultrastretchable and Antifreezing Double-Cross-Linked Cellulose Ionic Hydrogels with High Strain Sensitivity under a Broad Range of Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14256-14265.	3.2	93
6	Syntheses of Lignin-Derived Thioacidolysis Monomers and Their Uses as Quantitation Standards. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 922-928.	2.4	92
7	Choline chloride/urea as an effective plasticizer for production of cellulose films. <i>Carbohydrate Polymers</i> , 2015, 117, 133-139.	5.1	84
8	Identification of 4- α -5-Units in Softwood Lignins via Definitive Lignin Models and NMR. <i>Biomacromolecules</i> , 2016, 17, 1909-1920.	2.6	77
9	A highly recyclable dip-catalyst produced from palladium nanoparticle-embedded bacterial cellulose and plant fibers. <i>Green Chemistry</i> , 2018, 20, 1085-1094.	4.6	62
10	Revealing Structural Differences between Alkaline and Kraft Lignins by HSQC NMR. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5707-5714.	1.8	59
11	Green polymerizable deep eutectic solvent (PDES) type conductive paper for origami 3D circuits. <i>Chemical Communications</i> , 2018, 54, 2304-2307.	2.2	55
12	<i>In situ</i> MnO _x /N-doped carbon aerogels from cellulose as monolithic and highly efficient catalysts for the upgrading of bioderived aldehydes. <i>Green Chemistry</i> , 2018, 20, 3593-3603.	4.6	54
13	Profiling of the formation of lignin-derived monomers and dimers from <i>Eucalyptus</i> alkali lignin. <i>Green Chemistry</i> , 2020, 22, 7366-7375.	4.6	51
14	A facile spectroscopic method for measuring lignin content in lignocellulosic biomass. <i>Green Chemistry</i> , 2021, 23, 5106-5112.	4.6	46
15	The structure-antioxidant activity relationship of dehydrodiferulates. <i>Food Chemistry</i> , 2018, 269, 480-485.	4.2	43
16	The flying spider-monkey tree fern genome provides insights into fern evolution and arborescence. <i>Nature Plants</i> , 2022, 8, 500-512.	4.7	42
17	Lignin-Derived Thioacidolysis Dimers: Reevaluation, New Products, Authentication, and Quantification. <i>ChemSusChem</i> , 2017, 10, 830-835.	3.6	41
18	The class II KNOX transcription factors KNAT3 and KNAT7 synergistically regulate monolignol biosynthesis in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 5469-5483.	2.4	39

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19	Revealing the structure-activity relationship between lignin and anti-UV radiation. <i>Industrial Crops and Products</i> , 2021, 174, 114212.	2.5	39
20	Deciphering the role of the phenylpropanoid metabolism in the tolerance of <i>Capsicum annuum</i> L. to <i>Verticillium dahliae</i> Kleb.. <i>Plant Science</i> , 2017, 258, 12-20.	1.7	34
21	High Electromagnetic Interference Shielding Effectiveness of Carbon Nanotube-Cellulose Composite Films with Layered Structures. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800377.	1.7	34
22	Effects of physical and chemical structures of bacterial cellulose on its enhancement to paper physical properties. <i>Cellulose</i> , 2017, 24, 3513-3523.	2.4	30
23	Elucidating Tricin-Lignin Structures: Assigning Correlations in HSQC Spectra of Monocot Lignins. <i>Polymers</i> , 2018, 10, 916.	2.0	30
24	Synthesis of Highly Polymerized Water-soluble Cellulose Acetate by the Side Reaction in Carboxylate Ionic Liquid 1-ethyl-3-methylimidazolium Acetate. <i>Scientific Reports</i> , 2016, 6, 33725.	1.6	28
25	Scale-up biopolymer-chelated fabrication of cobalt nanoparticles encapsulated in N-enriched graphene shells for biofuel upgrade with formic acid. <i>Green Chemistry</i> , 2019, 21, 4732-4747.	4.6	26
26	The reinforcement mechanism of bacterial cellulose on paper made from woody and non-woody fiber sources. <i>Cellulose</i> , 2017, 24, 5147-5156.	2.4	24
27	Impact of regeneration process on the crystalline structure and enzymatic hydrolysis of cellulose obtained from ionic liquid. <i>Carbohydrate Polymers</i> , 2014, 111, 400-403.	5.1	22
28	Low Temperature Soda-Oxygen Pulping of Bagasse. <i>Molecules</i> , 2016, 21, 85.	1.7	22
29	Structural insights into the alkali lignins involving the formation and transformation of arylglycerols and enol ethers. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 411-417.	3.6	21
30	Synthesis and emulsifying properties of long-chain succinic acid esters of glucuronoxylans. <i>Cellulose</i> , 2019, 26, 3713-3724.	2.4	17
31	Field-Grown Transgenic Hybrid Poplar with Modified Lignin Biosynthesis to Improve Enzymatic Saccharification Efficiency. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2407-2414.	3.2	16
32	Angelica Stem: A Potential Low-Cost Source of Bioactive Phthalides and Phytosterols. <i>Molecules</i> , 2018, 23, 3065.	1.7	15
33	A Highly Efficient and Durable Fluorescent Paper Produced from Bacterial Cellulose/Eu Complex and Cellulosic Fibers. <i>Nanomaterials</i> , 2019, 9, 1322.	1.9	11
34	Thioxanthone dicarboxamide derivatives as one-component photoinitiators for near-UV and visible LED (365-405 nm) induced photopolymerizations. <i>RSC Advances</i> , 2016, 6, 77093-77099.	1.7	10
35	Amino-functionalized glucuronoxylan as an efficient bio-based emulsifier. <i>Cellulose</i> , 2021, 28, 3677-3689.	2.4	10
36	Revealing Structural Modifications of Lignin in Acidic ̂ ³ -Valerolactone-H ₂ O Pretreatment. <i>Polymers</i> , 2020, 12, 116.	2.0	10

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37	Naphthalene Structures Derived from Lignins During Phenolation. <i>ChemSusChem</i> , 2020, 13, 5549-5555.	3.6	8
38	New Products Generated from the Transformations of Ferulic Acid Dilactone. <i>Biomolecules</i> , 2020, 10, 175.	1.8	8
39	High-Efficient and Recyclable Magnetic Separable Catalyst for Catalytic Hydrogenolysis of β -O-4 Linkage in Lignin. <i>Polymers</i> , 2018, 10, 1077.	2.0	6
40	Improved Dispersion of Bacterial Cellulose Fibers for the Reinforcement of Paper Made from Recycled Fibers. <i>Nanomaterials</i> , 2019, 9, 58.	1.9	6
41	Mild Acetylation and Solubilization of Ground Whole Plant Cell Walls in EmimAc: A Method for Solution-State NMR in DMSO- d_6 . <i>Analytical Chemistry</i> , 2020, 92, 13101-13109.	3.2	6
42	Incorporation of catechyl monomers into lignins: lignification from the non-phenolic end via Diels-Alder cycloaddition?. <i>Green Chemistry</i> , 2021, 23, 8995-9013.	4.6	6
43	Fabrication of Novel Cellulose-Based Antibacterial Film Loaded with Poacic Acid against <i>Staphylococcus Aureus</i> . <i>Journal of Polymers and the Environment</i> , 2021, 29, 745-754.	2.4	5
44	High-throughput platform for yeast morphological profiling predicts the targets of bioactive compounds. <i>Npj Systems Biology and Applications</i> , 2022, 8, 3.	1.4	5
45	Synthesis of hydroxycinnamoyl shikimates and their role in monolignol biosynthesis. <i>Holzforschung</i> , 2022, 76, 133-144.	0.9	3
46	Efficient Synthesis of Pinoresinol, an Important Lignin Dimeric Model Compound. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	2
47	Isolation, Characterization, and Depolymerization of Cysteine Substituted <i>Eucalyptus</i> Lignin. <i>Global Challenges</i> , 2022, 6, 2100130.	1.8	2
48	A tailored fast thioacidolysis method incorporating multi-reaction monitoring mode of GC-MS for higher sensitivity on lignin monomer quantification. <i>Holzforschung</i> , 2022, .	0.9	0