

Jie Lu

List of Publications by Year in descending order

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31
papers

1,039
citations

393982

19
h-index

433756

31
g-index

31
all docs

31
docs citations

31
times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin-based hydrogels: A review of preparation, properties, and application. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 1006-1019.	3.6	184
2	Chitosan-based multifunctional flexible hemostatic bio-hydrogel. <i>Acta Biomaterialia</i> , 2021, 136, 170-183.	4.1	68
3	Preparation of magnetic hydrogel microspheres of lignin derivate for application in water. <i>Science of the Total Environment</i> , 2019, 685, 847-855.	3.9	66
4	Fed-batch semi-simultaneous saccharification and fermentation of reed pretreated with liquid hot water for bio-ethanol production using <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2013, 144, 539-547.	4.8	63
5	Preparation of bio-based cellulose acetate/chitosan composite film with oxygen and water resistant properties. <i>Carbohydrate Polymers</i> , 2021, 270, 118381.	5.1	53
6	Fractionation of alkali lignin by organic solvents for biodegradable microsphere through self-assembly. <i>Bioresource Technology</i> , 2019, 289, 121640.	4.8	46
7	Preparation and characterization of thermo-sensitive gel with phenolated alkali lignin. <i>Scientific Reports</i> , 2018, 8, 14450.	1.6	42
8	Super-swelling lignin-based biopolymer hydrogels for soil water retention from paper industry waste. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 815-820.	3.6	42
9	A Review on Lignin-Based Phenolic Resin Adhesive. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100434.	1.1	41
10	A robust regenerated cellulose-based dual stimuli-responsive hydrogel as an intelligent switch for controlled drug delivery. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 448-458.	3.6	39
11	Tween 40 pretreatment of unwashed water-insoluble solids of reed straw and corn stover pretreated with liquid hot water to obtain high concentrations of bioethanol. <i>Biotechnology for Biofuels</i> , 2013, 6, 159.	6.2	38
12	Combined liquid hot water with sodium carbonate-oxygen pretreatment to improve enzymatic saccharification of reed. <i>Bioresource Technology</i> , 2020, 297, 122498.	4.8	38
13	The hydrothermal-alkaline/oxygen two-step pretreatment combined with the addition of surfactants reduced the amount of cellulase for enzymatic hydrolysis of reed. <i>Bioresource Technology</i> , 2020, 308, 123324.	4.8	37
14	Liquefaction of fermentation residue of reed- and corn stover-pretreated with liquid hot water in the presence of ethanol with aluminum chloride as the catalyst. <i>Chemical Engineering Journal</i> , 2014, 247, 142-151.	6.6	34
15	The preparation and performance of a novel lignin-based adhesive without formaldehyde. <i>Industrial Crops and Products</i> , 2020, 153, 112593.	2.5	34
16	A mussel-inspired flexible chitosan-based bio-hydrogel as a tailored medical adhesive. <i>International Journal of Biological Macromolecules</i> , 2021, 189, 183-193.	3.6	29
17	An integrated biorefinery process to produce butanol and pulp from corn straw. <i>Industrial Crops and Products</i> , 2019, 140, 111648.	2.5	27
18	Improving enzymatic hydrolysis efficiency of corncob residue through sodium sulfite pretreatment. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7795-7804.	1.7	21

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19	Production of high concentration bioethanol from reed by combined liquid hot water and sodium carbonate-oxygen pretreatment. <i>Energy</i> , 2021, 217, 119332.	4.5	19
20	Combining hydrothermal-alkaline/oxygen pretreatment of reed with PEG 6,000-assisted enzyme hydrolysis promote bioethanol fermentation and reduce enzyme loading. <i>Industrial Crops and Products</i> , 2020, 153, 112615.	2.5	17
21	The bead-like Li ₃ V ₂ (PO ₄) ₃ /NC nanofibers based on the nanocellulose from waste reed for long-life Li-ion batteries. <i>Carbohydrate Polymers</i> , 2020, 237, 116134.	5.1	16
22	Study on the Effect of 1-Butanol Soluble Lignin on Temperature-Sensitive Gel. <i>Polymers</i> , 2018, 10, 1109.	2.0	14
23	The fabrication of a degradable film with high antimicrobial and antioxidant activities. <i>Industrial Crops and Products</i> , 2019, 140, 111692.	2.5	12
24	Fabrication of the superhydrophobic natural cellulosic paper with different wettability and oil/water separation application. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50371.	1.3	10
25	Study on the derivation of cassava residue and its application in surface sizing. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 80-84.	3.6	9
26	High-performance cellulose acetate-based gas barrier films via tailoring reduced graphene oxide nanosheets. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1450-1456.	3.6	9
27	Biomimic-Inspired and Recyclable Nanogel for Contamination Removal from Water and the Application in Treating Bleaching Effluents. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8622-8631.	1.8	7
28	Composited Gels from Nature Growing Scaffold: Synthesis, Properties, and Application. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5498-5507.	4.0	7
29	Enzymatic Saccharification and L-lactic Acid Fermentation of Corn Stover Pretreated with Liquid Hot Water by <i>Rhizopus oryzae</i> . <i>BioResources</i> , 2013, 8, .	0.5	6
30	Balancing the decomposable behavior and wet tensile mechanical property of cellulose-based wet wipe substrates by the aqueous adhesive. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1898-1907.	3.6	6
31	Characteristic Changes of Lignin-Carbohydrate Complexes of Reed Straw and Corn Stover Pretreated with Liquid Hot Water Prior to Enzymatic Hydrolysis. <i>Journal of Biobased Materials and Bioenergy</i> , 2018, 12, 252-258.	0.1	5