Runcang Sun

List of Publications by Year
in descending order

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54 papers	3,872 citations	126708 33 h-index	161609 54 g-index
54 all docs	54 docs citations	54 times ranked	4264 citing authors

#	Article	IF	Citations
1	The role of pretreatment in improving the enzymatic hydrolysis of lignocellulosic materials. Bioresource Technology, 2016, 199, 49-58.	4.8	708
2	Influence of alkaline pre-treatments on the cell wall components of wheat straw. Industrial Crops and Products, 1995, 4, 127-145.	2.5	259
3	Comparative study of organosolv lignins from wheat straw. Industrial Crops and Products, 2006, 23, 180-193.	2.5	234
4	Extraction and Characterization of Original Lignin and Hemicelluloses from Wheat Straw. Journal of Agricultural and Food Chemistry, 2005, 53, 860-870.	2.4	226
5	Comparative study of lignins isolated by alkali and ultrasound-assisted alkali extractions from wheat straw. Ultrasonics Sonochemistry, 2002, 9, 85-93.	3.8	190
6	Extraction, fractionation, and characterization of structural polysaccharides from wheat straw.. Journal of Agricultural and Food Chemistry, 1995, 43, 667-675.	2.4	188
7	Ester and ether linkages between hydroxycinnamic acids and lignins from wheat, rice, rye, and barley straws, maize stems, and fast-growing poplar wood. Industrial Crops and Products, 2002, 15, 179-188.	2.5	147
8	Fractional characterization of ash-AQ lignin by successive extraction with organic solvents from oil palm EFB fibre. Polymer Degradation and Stability, 2000, 68, 111-119.	2.7	124
9	Production of vanillin from lignin: The relationship between Î²-O-4 linkages and vanillin yield. Industrial Crops and Products, 2018, 116, 116-121.	2.5	106
10	Microwave-assisted hydrothermal carbonization of corn stalk for solid biofuel production: Optimization of process parameters and characterization of hydrochar. Energy, 2019, 186, 115795.	4.5	99
11	Physicochemical characterization of lignins from rice straw by hydrogen peroxide treatment. Journal of Applied Polymer Science, 2001, 79, 719-732.	1.3	92
12	Fractional extraction and physico-chemical characterization of hemicelluloses and cellulose from sugar beet pulp. Carbohydrate Polymers, 1998, 36, 293-299.	5.1	86
13	Effects of precipitation pH on the physico-chemical properties of the lignins isolated from the black liquor of oil palm empty fruit bunch fibre pulping. Polymer Degradation and Stability, 1999, 63, 195-200.	2.7	86
14	Physico-chemical and thermal characterization of lignins from Caligonum monogoliacum and Tamarix spp.. Polymer Degradation and Stability, 2001, 72, 229-238.	2.7	85
15	Fractionation and characterization of polysaccharides from abaca fibre. Carbohydrate Polymers, 1998, 37, 351-359.	5.1	83
16	Physicochemical characterization of extracted lignin from sweet sorghum stem. Industrial Crops and Products, 2010, 32, 21-28.	2.5	72
17	A tentative chemical structure of wheat straw lignin. Industrial Crops and Products, 1997, 6, 1-8.	2.5	70
18	Characterization of lignins from wheat straw by alkaline peroxide treatment. Polymer Degradation and Stability, 2000, 67, 101-109.	2.7	68

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19	Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. Current Medicinal Chemistry, 2019, 26, 2430-2455.	1.2	60
20	Physicochemical and Thermal Characterization of Wheat Straw Hemicelluloses and Cellulose. Journal of Agricultural and Food Chemistry, 1998, 46, 2804-2809.	2.4	55
21	Acetylation of wheat straw hemicelluloses in N,N-dimethylacetamide/LiCl solvent system. Industrial Crops and Products, 1999, 10, 209-218.	2.5	55
22	Fractional Characterization of Wheat Straw Lignin Components by Alkaline Nitrobenzene Oxidation and FT-IR Spectroscopy. Journal of Agricultural and Food Chemistry, 1996, 44, 1241-1247.	2.4	51
23	Esterification of Hemicelluloses from Poplar Chips in Homogenous Solution ofN, N-Dimethylformamide/Lithium Chloride. Journal of Wood Chemistry and Technology, 1999, 19, 287-306.	0.9	48
24	Fractional and structural characterization of ball-milled and enzyme lignins from wheat straw. Journal of Applied Polymer Science, 1998, 68, 1633-1641.	1.3	47
25	The effect of alkaline nitrobenzene oxidation conditions on the yield and components of phenolic monomers in wheat straw lignin and compared to cupric(II) oxidation. Industrial Crops and Products, 1995, 4, 241-254.	2.5	45
26	Extraction and Physico-Chemical Characterization of Pectins from Sugar Beet Pulp. Polymer Journal, 1998, 30, 671-677.	1.3	44
27	Isolation and Fractional Characterization of Ball-Milled and Enzyme Lignins from Oil Palm Trunk. Journal of Agricultural and Food Chemistry, 1998, 46, 718-723.	2.4	43
28	Separation and Characterization of Cellulose from Wheat Straw. Separation Science and Technology, 2005, 39, 391-411.	1.3	42
29	Effect of Steam Treatment on the Chemical Composition of Wheat Straw. Holzforschung, 1996, 50, 365-371.	0.9	40
30	Effects of Extraction Time and Different Alkalis on the Composition of Alkali-Soluble Wheat Straw Lignins. Journal of Agricultural and Food Chemistry, 1996, 44, 3965-3970.	2.4	39
31	Fractional characterization of alkali-labile lignin and alkali-insoluble lignin from wheat straw. Industrial Crops and Products, 1996, 5, 291-300.	2.5	38
32	Application of new expansion pretreatment method on agricultural waste. Part I: Influence of pretreatment on the properties of lignin. Industrial Crops and Products, 2013, 50, 887-895.	2.5	36
33	Fractional Isolation and Physico-Chemical Characterization of Alkali-Soluble Lignins from Wheat Straw. Holzforschung, 1997, 51, 244-250.	0.9	35
34	The fractional characterisation of polysaccharides and lignin components in alkaline treated and atmospheric refined wheat straw. Industrial Crops and Products, 1996, 5, 87-95.	2.5	32
35	Stearoylation of hemicelluloses from wheat straw. Polymer Degradation and Stability, 2000, 67, 345-353.	2.7	27
36	Effect of extraction procedure on the molecular weight of wheat straw lignins. Industrial Crops and Products, 1997, 6, 97-106.	2.5	26

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37	Effect of ultrasound on the physicochemical properties of organosolv lignins from wheat straw. Journal of Applied Polymer Science, 2002, 84, 2512-2522.	1.3	25
38	Fractionation and characterization of ball-milled and enzyme lignins from abaca fibre. Journal of the Science of Food and Agriculture, 1999, 79, 1091-1098.	1.7	24
39	Physico-chemical and structural characterization of residual lignins isolated with TAED activated peroxide from ultrasound irradiated and alkali pre-treated wheat straw. Polymer Degradation and Stability, 2003, 79, 241-251.	2.7	18
40	Extraction and Characterization of Hemicelluloses and Cellulose from Oil Palm Trunk and Empty Fruit Bunch Fibres. Journal of Wood Chemistry and Technology, 1999, 19, 167-185.	0.9	17
41	Oleoylation of Wheat Straw Hemicelluloses in New Homogeneous System. Polymer Journal, 1999, 31, 857-863.	1.3	16
42	Physico-Chemical and Thermal Characterization of Alkali-Soluble Lignins from Wheat Straw. Polymer Journal, 1998, 30, 289-294.	1.3	13
43	Separation and Characterization of Lignins from the Black Liquor of Oil Palm Trunk Fiber Pulping. Separation Science and Technology, 1999, 34, 3045-3058.	1.3	12
44	Comparative Studies of Hemicelluloses Solubilized during the Treatments of Maize Stems with Peroxymonosulfuric Acid, Peroxyformic Acid, Peracetic Acid, and Hydrogen Peroxide. Part 1. Yield and Chemical Characterization. Holzforschung, 2000, 54, 349-356.	0.9	12
45	Fractional isolation and partial characterization of non-starch polysaccharides and lignin from sago pith. Industrial Crops and Products, 1999, 9, 211-220.	2.5	11
46	Fractional and Physico-Chemical Analysis of Soda-AQ Lignin by Successive Extraction with Organic Solvents from Oil Palm EFB Fiber. International Journal of Polymer Analysis and Characterization, 2000, 5, 531-547.	0.9	11
47	Fractionation and Characterization of Water-soluble Hemicelluloses and Lignin from Steam-exploded Birchwood. International Journal of Polymeric Materials and Polymeric Biomaterials, 2000, 45, 1-19.	1.8	6
48	Comparative Studies of Ash-AQ and Soda-AQ Lignins from Oil Palm EFB Fibre. International Journal of Polymeric Materials and Polymeric Biomaterials, 2001, 48, 1-16.	1.8	4
49	Fractionation of Lignocellulosic Materials for the Biorefinery: Separation and Characterization of Lignin fromCalamagrostis angustifoliaKom. Separation Science and Technology, 2013, 48, 1272-1279.	1.3	4
50	Fractionation and Characterization of Alkali-Soluble Lignins from Wheat Straw. International Journal of Polymeric Materials and Polymeric Biomaterials, 1997, 35, 83-101.	1.8	3
51	Comparative and Structural Characterization of Organosolv and Alkali Lignins from Abaca Fiber. International Journal of Polymer Analysis and Characterization, 1998, 4, 517-530.	0.9	3
52	Chemical Analysis and Structural Characterization of Oil Palm Lignins from Black Liquor of Empty Fruit Bunch Fiber Pulping. International Journal of Polymer Analysis and Characterization, 1999, 5, 209-222.	0.9	3
53	Physico-chemical and Structural Characterization of Alkali-soluble Lignins from Sugar Beet Pulp. International Journal of Polymeric Materials and Polymeric Biomaterials, 1998, 42, 181-193.	1.8	2
54	Fractional Separation and Physicochemical Characterization of Polysaccharides from Poplar Chips. Separation Science and Technology, 2000, 35, 2725-2743.	1.3	2