Xuliang Lin

List of Publications by Citations

88 papers	2,499 citations	29 h-index	47 g-index
99 ext. papers	3,141 ext. citations	6.9 avg, IF	5.4 L-index

#	Paper	IF	Citations
88	pH-Induced lignin surface modification to reduce nonspecific cellulase binding and enhance enzymatic saccharification of lignocelluloses. *ChemSusChem*, **2013**, 6, 919-27	8.3	182
87	Properties of sodium lignosulfonate as dispersant of coal water slurry. *Energy Conversion and Management*, **2007**, 48, 2433-2438	10.6	144
86	Enzymatic Saccharification of Lignocelluloses Should be Conducted at Elevated pH 5.2–6.2. *Bioenergy Research*, **2013**, 6, 476-485	3.1	132
85	Lignosulfonate To Enhance Enzymatic Saccharification of Lignocelluloses: Role of Molecular Weight and Substrate Lignin. *Industrial & Engineering Chemistry Research*, **2013**, 52, 8464-8470	3.9	105
84	High-performance dispersant of coal–water slurry synthesized from wheat straw alkali lignin. *Fuel Processing Technology*, **2007**, 88, 375-382	7.2	95
83	An uncondensed lignin depolymerized in the solid state and isolated from lignocellulosic biomass: a mechanistic study. *Green Chemistry*, **2018**, 20, 4224-4235	10	85
82	Reducing non-productive adsorption of cellulase and enhancing enzymatic hydrolysis of lignocelluloses by noncovalent modification of lignin with lignosulfonate. *Bioresource Technology*, **2013**, 146, 478-484	11	85
81	Corrosion and Scale Inhibition Properties of Sodium Lignosulfonate and Its Potential Application in Recirculating Cooling Water System. *Industrial & Engineering Chemistry Research*, **2006**, 45, 5716-5721	3.9	81
80	Synthesis, Structure, and Dispersion Property of a Novel Lignin-Based Polyoxyethylene Ether from Kraft Lignin and Poly(ethylene glycol). *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1902-1909	8.3	64
79	Rational design of 3D/2D InO nanocube/ZnInS nanosheet heterojunction photocatalyst with large-area "high-speed channels" for photocatalytic oxidation of 2,4-dichlorophenol under visible light. *Journal of Hazardous Materials*, **2020**, 382, 121098	12.8	64
78	Facile fabrication and characterization of highly stretchable lignin-based hydroxyethyl cellulose self-healing hydrogel. *Carbohydrate Polymers*, **2019**, 223, 115080	10.3	63
77	Preparation of Lignin-Based Superplasticizer by Graft Sulfonation and Investigation of the Dispersive Performance and Mechanism in a Cementitious System. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16101-16109	3.9	61
76	Evaluation of treated black liquor used as dispersant of concentrated coal–water slurry. *Fuel*, **2010**, 89, 716-723	7.1	61
75	Highly Efficient Inverted Perovskite Solar Cells With Sulfonated Lignin Doped PEDOT as Hole Extract Layer. *ACS Applied Materials & Interfaces*, **2016**, 8, 12377-83	9.5	58
74	Maleic acid as a dicarboxylic acid hydrotrope for sustainable fractionation of wood at atmospheric pressure and 100 °C: mode and utility of lignin esterification. *Green Chemistry*, **2020**, 22, 1605-1617	10	55
73	Understanding the effects of lignosulfonate on enzymatic saccharification of pure cellulose. *Cellulose*, **2014**, 21, 1351-1359	5.5	50
72	Nonionic surfactants enhanced enzymatic hydrolysis of cellulose by reducing cellulase deactivation caused by shear force and air-liquid interface. *Bioresource Technology*, **2018**, 249, 1-8	11	48

71	Properties of Different Molecular Weight Sodium Lignosulfonate Fractions as Dispersant of Coal-Water Slurry. *Journal of Dispersion Science and Technology*, **2006**, 27, 851-856	1.5	48
70	Synthesis and characterization of biomass lignin-based PVA super-absorbent hydrogel. *International Journal of Biological Macromolecules*, **2019**, 140, 538-545	7.9	45
69	Lignin-based polyoxyethylene ether enhanced enzymatic hydrolysis of lignocelluloses by dispersing cellulase aggregates. *Bioresource Technology*, **2015**, 185, 165-70	11	41
68	Facile and Green Preparation of High UV-Blocking Lignin/Titanium Dioxide Nanocomposites for Developing Natural Sunscreens. *Industrial & Engineering Chemistry Research*, **2018**, 57, 15740-15748	3.9	41
67	Facile preparation of biomass lignin-based hydroxyethyl cellulose super-absorbent hydrogel for dye pollutant removal. *International Journal of Biological Macromolecules*, **2019**, 137, 939-947	7.9	38
66	Using polyvinylpyrrolidone to enhance the enzymatic hydrolysis of lignocelluloses by reducing the cellulase non-productive adsorption on lignin. *Bioresource Technology*, **2017**, 227, 74-81	11	36
65	Selective Cleavage of the Aryl Ether Bonds in Lignin for Depolymerization by Acidic Lithium Bromide Molten Salt Hydrate under Mild Conditions. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 8379-8387	5.7	36
64	Enhancing the Broad-Spectrum Adsorption of Lignin through Methoxyl Activation, Grafting Modification, and Reverse Self-Assembly. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15966-15973	8.3	35
63	Preparation of Lignin/Sodium Dodecyl Sulfate Composite Nanoparticles and Their Application in Pickering Emulsion Template-Based Microencapsulation. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 11011-11019	5.7	34
62	Effect of lignin-based amphiphilic polymers on the cellulase adsorption and enzymatic hydrolysis kinetics of cellulose. *Carbohydrate Polymers*, **2019**, 207, 52-58	10.3	33
61	Improving enzymatic hydrolysis of lignocellulosic substrates with pre-hydrolysates by adding cetyltrimethylammonium bromide to neutralize lignosulfonate. *Bioresource Technology*, **2016**, 216, 968-75	11	30
60	Using recyclable pH-responsive lignin amphoteric surfactant to enhance the enzymatic hydrolysis of lignocelluloses. *Green Chemistry*, **2017**, 19, 5479-5487	10	29
59	Polymerization reactivity of sulfomethylated alkali lignin modified with horseradish peroxidase. *Bioresource Technology*, **2014**, 155, 418-21	11	26
58	Recovering cellulase and increasing glucose yield during lignocellulosic hydrolysis using lignin-MPEG with a sensitive pH response. *Green Chemistry*, **2019**, 21, 1141-1151	10	25
57	Synthesis of triblock copolymer polydopamine-polyacrylic-polyoxyethylene with excellent performance as a binder for silicon anode lithium-ion batteries.. *RSC Advances*, **2018**, 8, 4604-4609	3.7	21
56	High voltage, solvent-free solid polymer electrolyte based on a star-comb PDLLA-PEG copolymer for lithium ion batteries.. *RSC Advances*, **2018**, 8, 6373-6380	3.7	21
55	The phase behavior of n-ethylpyridinium tetrafluoroborate and sodium-based salts ATPS and its application in 2-chlorophenol extraction. *Chinese Journal of Chemical Engineering*, **2021**, 33, 76-82	3.2	21
54	Effect of the molecular structure of lignin-based polyoxyethylene ether on enzymatic hydrolysis efficiency and kinetics of lignocelluloses. *Bioresource Technology*, **2015**, 193, 266-73	11	20

53	Enhancement of lignosulfonate-based polyoxyethylene ether on enzymatic hydrolysis of lignocelluloses. *Industrial Crops and Products*, **2016**, 80, 86-92	5.9	18
52	Influence of modified lignosulfonate GCL4-1 with different molecular weight on the stability of dimethomorph water based suspension. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 664-668	5.1	18
51	Synthesis of Quaternized Lignin and Its Clay-Tolerance Properties in Montmorillonite-Containing Cement Paste. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7743-7750	8.3	18
50	Direct Construction of Catechol Lignin for Engineering Long-Acting Conductive, Adhesive, and UV-Blocking Hydrogel Bioelectronics.. *Small Methods*, **2021**, 5, e2001311	12.8	18
49	Fabrication of High-Concentration Aqueous Graphene Suspensions Dispersed by Sodium Lignosulfonate and Its Mechanism. *Journal of Physical Chemistry C*, **2015**, 119, 23221-23230	3.8	17
48	Recycling Cellulase by a pH-Responsive Lignin-Based Carrier through Electrostatic Interaction. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 10679-10686	8.3	17
47	Biomimetic high performance artificial muscle built on sacrificial coordination network and mechanical training process. *Nature Communications*, **2021**, 12, 2916	17.4	17
46	Light Color Dihydroxybenzophenone Grafted Lignin with High UVA/UVB Absorbance Ratio for Efficient and Safe Natural Sunscreen. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17057-17068	3.8	16
45	Modification of sulfomethylated alkali lignin catalyzed by horseradish peroxidase. *RSC Advances*, **2014**, 4, 53855-53863	3.7	16
44	Effect of the isoelectric point of pH-responsive lignin-based amphoteric surfactant on the enzymatic hydrolysis of lignocellulose. *Bioresource Technology*, **2019**, 283, 112-119	11	15
43	Enhancement and Mechanism of a Lignin Amphoteric Surfactant on the Production of Cellulosic Ethanol from a High-Solid Corncob Residue. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 6248-6256	5.7	14
42	Palladium-Catalyzed Highly Regioselective Hydrocarboxylation of Alkynes with Carbon Dioxide. *ACS Catalysis*, **2020**, 10, 7968-7978	13.1	14
41	Improving rheology and enzymatic hydrolysis of high-solid corncob slurries by adding lignosulfonate and long-chain fatty alcohols. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 8430-6	5.7	14
40	Effect of cationic surfactant cetyltrimethylammonium bromide on the enzymatic hydrolysis of cellulose. *Cellulose*, **2017**, 24, 61-68	5.5	14
39	Preparation of a Low Reducing Effect Sulfonated Alkali Lignin and Application as Dye Dispersant. *Polymers*, **2018**, 10,	4.5	14
38	Effect of Urea on the Enzymatic Hydrolysis of Lignocellulosic Substrate and Its Mechanism. *Bioenergy Research*, **2018**, 11, 456-465	3.1	13
37	Preparation and interaction mechanism of Nano disperse dye using hydroxypropyl sulfonated lignin. *International Journal of Biological Macromolecules*, **2020**, 152, 280-287	7.9	12
36	Pretreatment of Miscanthus by NaOH/Urea Solution at Room Temperature for Enhancing Enzymatic Hydrolysis. *Bioenergy Research*, **2016**, 9, 335-343	3.1	12

35	Modulation of Brønsted and Lewis Acid Centers for Ni x Co 3−x O 4 Spinel Catalysts: Towards Efficient Catalytic Conversion of Lignin. *Advanced Functional Materials*,2111615	15.6	12
34	Lignin—a promising biomass resource. *Tappi Journal*, **2018**, 17, 125-141	0.5	12
33	Using temperature-responsive zwitterionic surfactant to enhance the enzymatic hydrolysis of lignocelluloses and recover cellulase by cooling. *Bioresource Technology*, **2017**, 243, 1141-1148	11	11
32	Nano-lymphatic photocatalytic water-splitting for relieving tumor interstitial fluid pressure and achieving hydrodynamic therapy. *Materials Horizons*, **2020**, 7, 3266-3274	14.4	11
31	Preparation and application performance of lignin-polyurea composite microcapsule with controlled release of avermectin. *Colloid and Polymer Science*, **2020**, 298, 1001-1012	2.4	10
30	Enhancing enzymatic hydrolysis of xylan by adding sodium lignosulfonate and long-chain fatty alcohols. *Bioresource Technology*, **2016**, 200, 48-54	11	10
29	Rheological Behavior Investigation of Concentrated Coal-Water Suspension. *Journal of Dispersion Science and Technology*, **2010**, 31, 838-843	1.5	10
28	The temperature influence on the phase behavior of ionic liquid based aqueous two-phase systems and its extraction efficiency of 2-chlorophenol. *Fluid Phase Equilibria*, **2020**, 506, 112394	2.5	10
27	Understanding the Effect of the Complex of Lignosulfonate and Cetyltrimethylammonium Bromide on the Enzymatic Digestibility of Cellulose. *Energy & Fuels*, **2017**, 31, 672-678	4.1	8
26	Improved enzymatic hydrolysis of hardwood and cellulase stability by biomass kraft lignin-based polyoxyethylene ether. *International Journal of Biological Macromolecules*, **2019**, 136, 540-546	7.9	8
25	Fabrication and properties of low crystallinity nanofibrillar cellulose and a nanofibrillar cellulose–graphene oxide composite. *RSC Advances*, **2015**, 5, 67568-67573	3.7	8
24	High internal phase emulsions stabilized with carboxymethylated lignin for encapsulation and protection of environmental sensitive natural extract. *International Journal of Biological Macromolecules*, **2020**, 158, 430-442	7.9	8
23	Effect of sodium dodecyl sulfate and cetyltrimethylammonium bromide catanionic surfactant on the enzymatic hydrolysis of Avicel and corn stover. *Cellulose*, **2017**, 24, 669-676	5.5	7
22	Enhancing enzymatic hydrolysis of crystalline cellulose and lignocellulose by adding long-chain fatty alcohols. *Cellulose*, **2014**, 21, 3361-3369	5.5	7
21	Slow relaxation mode of sodium lignosulfonate in saline solutions. *Holzforschung*, **2015**, 69, 17-23	2	7
20	Facile synthesis of easily separated and reusable silver nanoparticles/aminated alkaline lignin composite and its catalytic ability. *Journal of Colloid and Interface Science*, **2021**, 587, 334-346	9.3	7
19	Highly Dispersible Cellulose Nanofibrils Produced via Mechanical Pretreatment and TEMPO-mediated Oxidation. *Fibers and Polymers*, **2018**, 19, 2237-2244	2	6
18	Enhancement of Recyclable pH-Responsive Lignin-Grafted Phosphobetaine on Enzymatic Hydrolysis of Lignocelluloses. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7926-7931	8.3	5

17	Mo-Doped/Ni-supported ZnIn2S4-wrapped NiMoO4 S-scheme heterojunction photocatalytic reforming of lignin into hydrogen. *Green Chemistry*,	10	5
16	Effects of Co doping sites on the electrochemical performance of LiNi0.5Mn1.5O4 as a cathode material. *Ionics*, **2020**, 26, 3777-3783	2.7	5
15	Visible Light-Driven Reforming of Lignocellulose into H by Intrinsic Monolayer Carbon Nitride. *ACS Applied Materials & Interfaces*, **2021**, 13, 44243-44253	9.5	5
14	Using highly recyclable sodium caseinate to enhance lignocellulosic hydrolysis and cellulase recovery. *Bioresource Technology*, **2020**, 304, 122974	11	4
13	Preparation of formyl cellulose and its enhancement effect on the mechanical and barrier properties of polylactic acid films. *International Journal of Biological Macromolecules*, **2021**, 172, 82-92	7.9	4
12	Tracing cellulase components in hydrolyzate during the enzymatic hydrolysis of corncob residue and its analysis. *Bioresource Technology Reports*, **2018**, 4, 137-144	4.1	4
11	Design of a Salt-Free Aqueous Two-Phase System Containing Butanol, n-Butylpyridine Dicyanamide, and Water: Equilibrium Data and Correlation. *Journal of Chemical & Engineering Data*, **2019**, 64, 3547-3555	2.8	3
10	Synergetic Effect of Perfluorooctanoic Acid on the Preparation of Poly(3,4-ethylenedioxythiophene): Lignosulfonate Aqueous Dispersions with High Film Conductivity. *ChemistrySelect*, **2019**, 4, 11406-11412	1.8	3
9	Preparation of high molecular weight pH-responsive lignin-polyethylene glycol (L-PEG) and its application in enzymatic saccharification of lignocelluloses. *Cellulose*, **2020**, 27, 755-767	5.5	3
8	Long-Acting Ultraviolet-Blocking Mechanism of Lignin: Generation and Transformation of Semiquinone Radicals. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 5421-5429	8.3	3
7	A Simple and Rapid Method to Determine Sulfonation Degree of Lignosulfonates. *Bioenergy Research*, **2019**, 12, 260-266	3.1	2
6	Using a linear pH-responsive zwitterionic copolymer to recover cellulases in enzymatic hydrolysate and to enhance the enzymatic hydrolysis of lignocellulose. *Cellulose*, **2019**, 26, 6725-6738	5.5	1
5	Green chemical engineering in China. *Reviews in Chemical Engineering*, **2019**, 35, 995-1077	5	1
4	Thermo-Responsive Behavior of Enzymatic Hydrolysis Lignin in the Ethanol/Water Mixed Solvent and Its Application in the Controlled Release of Pesticides. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 15634-15640	8.3	1
3	Effects of sacrificial coordination bonds on the mechanical performance of lignin-based thermoplastic elastomer composites. *International Journal of Biological Macromolecules*, **2021**, 183, 1450-1458	7.9	1
2	Effect of cellulase on the UCST behavior of sulfobetaine zwitterionic surfactants and the cellulase recovery mechanism. *Sustainable Energy and Fuels*, **2021**, 5, 750-757	5.8	1
1	The synthesis of a UCST-type zwitterionic polymer for the efficient recycling of cellulase at room temperature. *Green Chemistry*, **2021**, 23, 2738-2746	10	0