

Xuliang Lin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8220173/xuliang-lin-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Long-Acting Ultraviolet-Blocking Mechanism of Lignin: Generation and Transformation of Semiquinone Radicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5421-5429	8.3	3
87	Thermo-Responsive Behavior of Enzymatic Hydrolysis Lignin in the Ethanol/Water Mixed Solvent and Its Application in the Controlled Release of Pesticides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 15634-15640	8.3	1
86	Preparation of formyl cellulose and its enhancement effect on the mechanical and barrier properties of polylactic acid films. <i>International Journal of Biological Macromolecules</i> , 2021 , 172, 82-92	7.9	4
85	Direct Construction of Catechol Lignin for Engineering Long-Acting Conductive, Adhesive, and UV-Blocking Hydrogel Bioelectronics.. <i>Small Methods</i> , 2021 , 5, e2001311	12.8	18
84	Facile synthesis of easily separated and reusable silver nanoparticles/aminated alkaline lignin composite and its catalytic ability. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 334-346	9.3	7
83	Biomimetic high performance artificial muscle built on sacrificial coordination network and mechanical training process. <i>Nature Communications</i> , 2021 , 12, 2916	17.4	17
82	Effects of sacrificial coordination bonds on the mechanical performance of lignin-based thermoplastic elastomer composites. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1450-1458 ¹	7.9	1
81	The phase behavior of n-ethylpyridinium tetrafluoroborate and sodium-based salts ATPS and its application in 2-chlorophenol extraction. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 33, 76-82	3.2	21
80	The synthesis of a UCST-type zwitterionic polymer for the efficient recycling of cellulase at room temperature. <i>Green Chemistry</i> , 2021 , 23, 2738-2746	10	0
79	Effect of cellulase on the UCST behavior of sulfobetaine zwitterionic surfactants and the cellulase recovery mechanism. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 750-757	5.8	1
78	Visible Light-Driven Reforming of Lignocellulose into H ₂ by Intrinsic Monolayer Carbon Nitride. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44243-44253	9.5	5
77	Preparation and application performance of lignin-polyurea composite microcapsule with controlled release of avermectin. <i>Colloid and Polymer Science</i> , 2020 , 298, 1001-1012	2.4	10
76	Light Color Dihydroxybenzophenone Grafted Lignin with High UVA/UVB Absorbance Ratio for Efficient and Safe Natural Sunscreen. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17057-17068	3.9	16
75	Palladium-Catalyzed Highly Regioselective Hydrocarboxylation of Alkynes with Carbon Dioxide. <i>ACS Catalysis</i> , 2020 , 10, 7968-7978	13.1	14
74	Using highly recyclable sodium caseinate to enhance lignocellulosic hydrolysis and cellulase recovery. <i>Bioresource Technology</i> , 2020 , 304, 122974	11	4
73	Preparation and interaction mechanism of Nano disperse dye using hydroxypropyl sulfonated lignin. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 280-287	7.9	12
72	Maleic acid as a dicarboxylic acid hydrotrope for sustainable fractionation of wood at atmospheric pressure and 100 °C: mode and utility of lignin esterification. <i>Green Chemistry</i> , 2020 , 22, 1605-1617	10	55

71	High internal phase emulsions stabilized with carboxymethylated lignin for encapsulation and protection of environmental sensitive natural extract. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 430-442	7.9	8
70	Effects of Co doping sites on the electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ as a cathode material. <i>Ionics</i> , 2020 , 26, 3777-3783	2.7	5
69	Preparation of high molecular weight pH-responsive lignin-polyethylene glycol (L-PEG) and its application in enzymatic saccharification of lignocelluloses. <i>Cellulose</i> , 2020 , 27, 755-767	5.5	3
68	The temperature influence on the phase behavior of ionic liquid based aqueous two-phase systems and its extraction efficiency of 2-chlorophenol. <i>Fluid Phase Equilibria</i> , 2020 , 506, 112394	2.5	10
67	Nano-lymphatic photocatalytic water-splitting for relieving tumor interstitial fluid pressure and achieving hydrodynamic therapy. <i>Materials Horizons</i> , 2020 , 7, 3266-3274	14.4	11
66	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. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121098	12.8	64
65	Synthesis and characterization of biomass lignin-based PVA super-absorbent hydrogel. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 538-545	7.9	45
64	Improved enzymatic hydrolysis of hardwood and cellulase stability by biomass kraft lignin-based polyoxyethylene ether. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 540-546	7.9	8
63	Using a linear pH-responsive zwitterionic copolymer to recover cellulases in enzymatic hydrolysate and to enhance the enzymatic hydrolysis of lignocellulose. <i>Cellulose</i> , 2019 , 26, 6725-6738	5.5	1
62	Enhancement and Mechanism of a Lignin Amphoteric Surfactant on the Production of Cellulosic Ethanol from a High-Solid Corncob Residue. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 6248-6256	5.7	14
61	A Simple and Rapid Method to Determine Sulfonation Degree of Lignosulfonates. <i>Bioenergy Research</i> , 2019 , 12, 260-266	3.1	2
60	Effect of the isoelectric point of pH-responsive lignin-based amphoteric surfactant on the enzymatic hydrolysis of lignocellulose. <i>Bioresource Technology</i> , 2019 , 283, 112-119	11	15
59	Enhancement of Recyclable pH-Responsive Lignin-Grafted Phosphobetaine on Enzymatic Hydrolysis of Lignocelluloses. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7926-7931	8.3	5
58	Green chemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 995-1077	5	1
57	Recovering cellulase and increasing glucose yield during lignocellulosic hydrolysis using lignin-MPEG with a sensitive pH response. <i>Green Chemistry</i> , 2019 , 21, 1141-1151	10	25
56	Enhancing the Broad-Spectrum Adsorption of Lignin through Methoxyl Activation, Grafting Modification, and Reverse Self-Assembly. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15966-15973	8.3	35
55	Design of a Salt-Free Aqueous Two-Phase System Containing Butanol, n-Butylpyridine Dicyanamide, and Water: Equilibrium Data and Correlation. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3547-3555	2.8	3
54	Facile fabrication and characterization of highly stretchable lignin-based hydroxyethyl cellulose self-healing hydrogel. <i>Carbohydrate Polymers</i> , 2019 , 223, 115080	10.3	63

53	Facile preparation of biomass lignin-based hydroxyethyl cellulose super-absorbent hydrogel for dye pollutant removal. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 939-947	7.9	38
52	Synergetic Effect of Perfluorooctanoic Acid on the Preparation of Poly(3,4-ethylenedioxythiophene): Lignosulfonate Aqueous Dispersions with High Film Conductivity. <i>ChemistrySelect</i> , 2019 , 4, 11406-11412	1.8	3
51	Effect of lignin-based amphiphilic polymers on the cellulase adsorption and enzymatic hydrolysis kinetics of cellulose. <i>Carbohydrate Polymers</i> , 2019 , 207, 52-58	10.3	33
50	Effect of Urea on the Enzymatic Hydrolysis of Lignocellulosic Substrate and Its Mechanism. <i>Bioenergy Research</i> , 2018 , 11, 456-465	3.1	13
49	Synthesis of triblock copolymer polydopamine-polyacrylic-polyoxyethylene with excellent performance as a binder for silicon anode lithium-ion batteries.. <i>RSC Advances</i> , 2018 , 8, 4604-4609	3.7	21
48	High voltage, solvent-free solid polymer electrolyte based on a star-comb PDLLA-PEG copolymer for lithium ion batteries.. <i>RSC Advances</i> , 2018 , 8, 6373-6380	3.7	21
47	Nonionic surfactants enhanced enzymatic hydrolysis of cellulose by reducing cellulase deactivation caused by shear force and air-liquid interface. <i>Bioresource Technology</i> , 2018 , 249, 1-8	11	48
46	Recycling Cellulase by a pH-Responsive Lignin-Based Carrier through Electrostatic Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10679-10686	8.3	17
45	An uncondensed lignin depolymerized in the solid state and isolated from lignocellulosic biomass: a mechanistic study. <i>Green Chemistry</i> , 2018 , 20, 4224-4235	10	85
44	Lignin is a promising biomass resource. <i>Tappi Journal</i> , 2018 , 17, 125-141	0.5	12
43	Highly Dispersible Cellulose Nanofibrils Produced via Mechanical Pretreatment and TEMPO-mediated Oxidation. <i>Fibers and Polymers</i> , 2018 , 19, 2237-2244	2	6
42	Facile and Green Preparation of High UV-Blocking Lignin/Titanium Dioxide Nanocomposites for Developing Natural Sunscreens. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15740-15748	3.9	41
41	Tracing cellulase components in hydrolyzate during the enzymatic hydrolysis of corncob residue and its analysis. <i>Bioresource Technology Reports</i> , 2018 , 4, 137-144	4.1	4
40	Preparation of a Low Reducing Effect Sulfonated Alkali Lignin and Application as Dye Dispersant. <i>Polymers</i> , 2018 , 10,	4.5	14
39	Effect of sodium dodecyl sulfate and cetyltrimethylammonium bromide catanionic surfactant on the enzymatic hydrolysis of Avicel and corn stover. <i>Cellulose</i> , 2017 , 24, 669-676	5.5	7
38	Using polyvinylpyrrolidone to enhance the enzymatic hydrolysis of lignocelluloses by reducing the cellulase non-productive adsorption on lignin. <i>Bioresource Technology</i> , 2017 , 227, 74-81	11	36
37	Understanding the Effect of the Complex of Lignosulfonate and Cetyltrimethylammonium Bromide on the Enzymatic Digestibility of Cellulose. <i>Energy & Fuels</i> , 2017 , 31, 672-678	4.1	8
36	Using recyclable pH-responsive lignin amphoteric surfactant to enhance the enzymatic hydrolysis of lignocelluloses. <i>Green Chemistry</i> , 2017 , 19, 5479-5487	10	29

35	Using temperature-responsive zwitterionic surfactant to enhance the enzymatic hydrolysis of lignocelluloses and recover cellulase by cooling. <i>Bioresource Technology</i> , 2017 , 243, 1141-1148	11	11
34	Synthesis of Quaternized Lignin and Its Clay-Tolerance Properties in Montmorillonite-Containing Cement Paste. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7743-7750	8.3	18
33	Preparation of Lignin/Sodium Dodecyl Sulfate Composite Nanoparticles and Their Application in Pickering Emulsion Template-Based Microencapsulation. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 11011-11019	5.7	34
32	Effect of cationic surfactant cetyltrimethylammonium bromide on the enzymatic hydrolysis of cellulose. <i>Cellulose</i> , 2017 , 24, 61-68	5.5	14
31	Selective Cleavage of the Aryl Ether Bonds in Lignin for Depolymerization by Acidic Lithium Bromide Molten Salt Hydrate under Mild Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 8379-8387	5.7	36
30	Improving enzymatic hydrolysis of lignocellulosic substrates with pre-hydrolysates by adding cetyltrimethylammonium bromide to neutralize lignosulfonate. <i>Bioresource Technology</i> , 2016 , 216, 968- 71 ¹¹		30
29	Enhancement of lignosulfonate-based polyoxyethylene ether on enzymatic hydrolysis of lignocelluloses. <i>Industrial Crops and Products</i> , 2016 , 80, 86-92	5.9	18
28	Pretreatment of Miscanthus by NaOH/Urea Solution at Room Temperature for Enhancing Enzymatic Hydrolysis. <i>Bioenergy Research</i> , 2016 , 9, 335-343	3.1	12
27	Enhancing enzymatic hydrolysis of xylan by adding sodium lignosulfonate and long-chain fatty alcohols. <i>Bioresource Technology</i> , 2016 , 200, 48-54	11	10
26	Highly Efficient Inverted Perovskite Solar Cells With Sulfonated Lignin Doped PEDOT as Hole Extract Layer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12377-83	9.5	58
25	Effect of the molecular structure of lignin-based polyoxyethylene ether on enzymatic hydrolysis efficiency and kinetics of lignocelluloses. <i>Bioresource Technology</i> , 2015 , 193, 266-73	11	20
24	Fabrication and properties of low crystallinity nanofibrillar cellulose and a nanofibrillar cellulose-graphene oxide composite. <i>RSC Advances</i> , 2015 , 5, 67568-67573	3.7	8
23	Lignin-based polyoxyethylene ether enhanced enzymatic hydrolysis of lignocelluloses by dispersing cellulase aggregates. <i>Bioresource Technology</i> , 2015 , 185, 165-70	11	41
22	Fabrication of High-Concentration Aqueous Graphene Suspensions Dispersed by Sodium Lignosulfonate and Its Mechanism. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23221-23230	3.8	17
21	Slow relaxation mode of sodium lignosulfonate in saline solutions. <i>Holzforschung</i> , 2015 , 69, 17-23	2	7
20	Understanding the effects of lignosulfonate on enzymatic saccharification of pure cellulose. <i>Cellulose</i> , 2014 , 21, 1351-1359	5.5	50
19	Influence of modified lignosulfonate GCL4-1 with different molecular weight on the stability of dimethomorph water based suspension. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 441, 664-668	5.1	18
18	Improving rheology and enzymatic hydrolysis of high-solid corncob slurries by adding lignosulfonate and long-chain fatty alcohols. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 8430- 6 ^{5.7}		14

17	Synthesis, Structure, and Dispersion Property of a Novel Lignin-Based Polyoxyethylene Ether from Kraft Lignin and Poly(ethylene glycol). <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1902-1909	8.3	64
16	Enhancing enzymatic hydrolysis of crystalline cellulose and lignocellulose by adding long-chain fatty alcohols. <i>Cellulose</i> , 2014 , 21, 3361-3369	5.5	7
15	Polymerization reactivity of sulfomethylated alkali lignin modified with horseradish peroxidase. <i>Bioresource Technology</i> , 2014 , 155, 418-21	11	26
14	Modification of sulfomethylated alkali lignin catalyzed by horseradish peroxidase. <i>RSC Advances</i> , 2014 , 4, 53855-53863	3.7	16
13	Preparation of Lignin-Based Superplasticizer by Graft Sulfonation and Investigation of the Dispersive Performance and Mechanism in a Cementitious System. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16101-16109	3.9	61
12	Reducing non-productive adsorption of cellulase and enhancing enzymatic hydrolysis of lignocelluloses by noncovalent modification of lignin with liginosulfonate. <i>Bioresource Technology</i> , 2013 , 146, 478-484	11	85
11	pH-Induced lignin surface modification to reduce nonspecific cellulase binding and enhance enzymatic saccharification of lignocelluloses. <i>ChemSusChem</i> , 2013 , 6, 919-27	8.3	182
10	Liginosulfonate To Enhance Enzymatic Saccharification of Lignocelluloses: Role of Molecular Weight and Substrate Lignin. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8464-8470	3.9	105
9	Enzymatic Saccharification of Lignocelluloses Should be Conducted at Elevated pH 5.2. <i>Bioenergy Research</i> , 2013 , 6, 476-485	3.1	132
8	Rheological Behavior Investigation of Concentrated Coal-Water Suspension. <i>Journal of Dispersion Science and Technology</i> , 2010 , 31, 838-843	1.5	10
7	Evaluation of treated black liquor used as dispersant of concentrated coal-water slurry. <i>Fuel</i> , 2010 , 89, 716-723	7.1	61
6	High-performance dispersant of coal-water slurry synthesized from wheat straw alkali lignin. <i>Fuel Processing Technology</i> , 2007 , 88, 375-382	7.2	95
5	Properties of sodium liginosulfonate as dispersant of coal water slurry. <i>Energy Conversion and Management</i> , 2007 , 48, 2433-2438	10.6	144
4	Corrosion and Scale Inhibition Properties of Sodium Liginosulfonate and Its Potential Application in Recirculating Cooling Water System. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5716-5721	3.9	81
3	Properties of Different Molecular Weight Sodium Liginosulfonate Fractions as Dispersant of Coal-Water Slurry. <i>Journal of Dispersion Science and Technology</i> , 2006 , 27, 851-856	1.5	48
2	Modulation of Brsted and Lewis Acid Centers for Ni x Co 3x O 4 Spinel Catalysts: Towards Efficient Catalytic Conversion of Lignin. <i>Advanced Functional Materials</i> , 2111615	15.6	12
1	Mo-Doped/Ni-supported ZnIn2S4-wrapped NiMoO4 S-scheme heterojunction photocatalytic reforming of lignin into hydrogen. <i>Green Chemistry</i> ,	10	5