

# Hongming Lou

## List of Publications by Year in descending order

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102  
papers

4,176  
citations

87888

38  
h-index

128289

60  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3886  
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-Induced Lignin Surface Modification to Reduce Nonspecific Cellulase Binding and Enhance Enzymatic Saccharification of Lignocelluloses. <i>ChemSusChem</i> , 2013, 6, 919-927.	6.8	219
2	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801189.	10.0	171
3	Properties of sodium lignosulfonate as dispersant of coal water slurry. <i>Energy Conversion and Management</i> , 2007, 48, 2433-2438.	9.2	166
4	Enzymatic Saccharification of Lignocelluloses Should be Conducted at Elevated pH 5.2-6.2. <i>Bioenergy Research</i> , 2013, 6, 476-485.	3.9	146
5	Thermoresponsive Melamine Sponges with Switchable Wettability by Interface-Initiated Atom Transfer Radical Polymerization for Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8967-8974.	8.0	138
6	Lignin-based Pickering HIPEs for macroporous foams and their enhanced adsorption of copper(ii) ions. <i>Chemical Communications</i> , 2013, 49, 7144.	4.1	136
7	Lignosulfonate To Enhance Enzymatic Saccharification of Lignocelluloses: Role of Molecular Weight and Substrate Lignin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 8464-8470.	3.7	118
8	High-performance dispersant of coal-water slurry synthesized from wheat straw alkali lignin. <i>Fuel Processing Technology</i> , 2007, 88, 375-382.	7.2	104
9	Reducing non-productive adsorption of cellulase and enhancing enzymatic hydrolysis of lignocelluloses by noncovalent modification of lignin with lignosulfonate. <i>Bioresource Technology</i> , 2013, 146, 478-484.	9.6	104
10	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.	9.0	103
11	Corrosion and Scale Inhibition Properties of Sodium Lignosulfonate and Its Potential Application in Recirculating Cooling Water System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5716-5721.	3.7	98
12	Dynamic Supramolecular Hydrogels: Regulating Hydrogel Properties through Self-Complementary Quadruple Hydrogen Bonds and Thermo-Switch. <i>ACS Macro Letters</i> , 2017, 6, 641-646.	4.8	90
13	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.	6.7	80
14	Preparation of Lignin-Based Superplasticizer by Graft Sulfonation and Investigation of the Dispersive Performance and Mechanism in a Cementitious System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 16101-16109.	3.7	74
15	Self-Healing Gelatin Hydrogels Cross-Linked by Combining Multiple Hydrogen Bonding and Ionic Coordination. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700018.	3.9	74
16	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.	9.6	71
17	Evaluation of sulphonated acetone-formaldehyde (SAF) used in coal water slurries prepared from different coals. <i>Fuel</i> , 2007, 86, 1439-1445.	6.4	70
18	Highly Efficient Inverted Perovskite Solar Cells With Sulfonated Lignin Doped PEDOT as Hole Extract Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12377-12383.	8.0	69

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19	Evaluation of treated black liquor used as dispersant of concentrated coal-water slurry. <i>Fuel</i> , 2010, 89, 716-723.	6.4	68
20	Novel Lignin-Derived Water-Soluble Binder for Micro Silicon Anode in Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12621-12629.	6.7	68
21	Facile and Green Preparation of High UV-Blocking Lignin/Titanium Dioxide Nanocomposites for Developing Natural Sunscreens. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 15740-15748.	3.7	67
22	In-situ Mo doped ZnIn <sub>2</sub> S <sub>4</sub> wrapped MoO <sub>3</sub> S-scheme heterojunction via Mo-S bonds to enhance photocatalytic HER. <i>Chemical Engineering Journal</i> , 2022, 430, 132770.	12.7	66
23	Understanding the effects of lignosulfonate on enzymatic saccharification of pure cellulose. <i>Cellulose</i> , 2014, 21, 1351-1359.	4.9	60
24	Properties of Different Molecular Weight Sodium Lignosulfonate Fractions as Dispersant of Coal-Water Slurry. <i>Journal of Dispersion Science and Technology</i> , 2006, 27, 851-856.	2.4	59
25	Direct Construction of Catechol Lignin for Engineering Long-Acting Conductive, Adhesive, and UV-Blocking Hydrogel Bioelectronics. <i>Small Methods</i> , 2021, 5, e2001311.	8.6	59
26	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.	6.7	54
27	Lignin-based polyoxyethylene ether enhanced enzymatic hydrolysis of lignocelluloses by dispersing cellulase aggregates. <i>Bioresource Technology</i> , 2015, 185, 165-170.	9.6	53
28	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.	5.2	49
29	An Injectable Hydrogel with Excellent Self-Healing Property Based on Quadruple Hydrogen Bonding. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2172-2181.	2.2	48
30	Using recyclable pH-responsive lignin amphoteric surfactant to enhance the enzymatic hydrolysis of lignocelluloses. <i>Green Chemistry</i> , 2017, 19, 5479-5487.	9.0	48
31	Effect of lignin-based amphiphilic polymers on the cellulase adsorption and enzymatic hydrolysis kinetics of cellulose. <i>Carbohydrate Polymers</i> , 2019, 207, 52-58.	10.2	48
32	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.	9.6	45
33	Lignin-polyurea microcapsules with anti-photolysis and sustained-release performances synthesized via pickering emulsion template. <i>Reactive and Functional Polymers</i> , 2018, 123, 115-121.	4.1	45
34	Light Color Dihydroxybenzophenone Grafted Lignin with High UVA/UVB Absorbance Ratio for Efficient and Safe Natural Sunscreen. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17057-17068.	3.7	43
35	Effect of molecular weight of sulphonated acetone-formaldehyde condensate on its adsorption and dispersion properties in cementitious system. <i>Cement and Concrete Research</i> , 2012, 42, 1043-1048.	11.0	42
36	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.	9.0	42

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37	Improving enzymatic hydrolysis of lignocellulosic substrates with pre-hydrolysates by adding cetyltrimethylammonium bromide to neutralize liginosulfonate. <i>Bioresource Technology</i> , 2016, 216, 968-975.	9.6	40
38	Hollow nanotubular clay composited comb-like methoxy poly(ethylene glycol) acrylate polymer as solid polymer electrolyte for lithium metal batteries. <i>Electrochimica Acta</i> , 2020, 340, 135995.	5.2	39
39	Comparison of Two Acid Hydrotropes for Sustainable Fractionation of Birch Wood. <i>ChemSusChem</i> , 2020, 13, 4649-4659.	6.8	37
40	Influence of sulfonated acetone-formaldehyde condensation used as dispersant on low rank coal-water slurry. <i>Energy Conversion and Management</i> , 2012, 64, 139-144.	9.2	36
41	Palladium-Catalyzed Highly Regioselective Hydrocarboxylation of Alkynes with Carbon Dioxide. <i>ACS Catalysis</i> , 2020, 10, 7968-7978.	11.2	36
42	Mo-Doped/Ni-supported ZnIn <sub>2</sub> S <sub>4</sub> -wrapped NiMoO <sub>4</sub> S-scheme heterojunction photocatalytic reforming of lignin into hydrogen. <i>Green Chemistry</i> , 2022, 24, 2027-2035.	9.0	36
43	Multifunctional and Efficient Air Filtration: A Natural Nanofilter Prepared with Zein and Polyvinyl Alcohol. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000239.	3.6	35
44	A Triblock Copolymer Design Leads to Robust Hybrid Hydrogels for High-Performance Flexible Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36301-36310.	8.0	34
45	Polymerization reactivity of sulfomethylated alkali lignin modified with horseradish peroxidase. <i>Bioresource Technology</i> , 2014, 155, 418-421.	9.6	31
46	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.	3.6	31
47	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.	3.6	30
48	An <i>in situ</i> photopolymerized composite solid electrolyte from halloysite nanotubes and comb-like polycaprolactone for high voltage lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9826-9836.	10.3	29
49	Recycling Cellulase by a pH-Responsive Lignin-Based Carrier through Electrostatic Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10679-10686.	6.7	28
50	Effect of calcium liginosulfonate on the hydration of the tricalcium aluminate-anhydrite system. <i>Cement and Concrete Research</i> , 2012, 42, 1549-1554.	11.0	27
51	Effect of the molecular structure of lignin-based polyoxyethylene ether on enzymatic hydrolysis efficiency and kinetics of lignocelluloses. <i>Bioresource Technology</i> , 2015, 193, 266-273.	9.6	27
52	Enhancement of liginosulfonate-based polyoxyethylene ether on enzymatic hydrolysis of lignocelluloses. <i>Industrial Crops and Products</i> , 2016, 80, 86-92.	5.2	26
53	Modifying sulfomethylated alkali lignin by horseradish peroxidase to improve the dispersibility and conductivity of polyaniline. <i>Applied Surface Science</i> , 2017, 426, 287-293.	6.1	26
54	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.	6.7	26

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55	“Nano-lymphatic” photocatalytic water-splitting for relieving tumor interstitial fluid pressure and achieving hydrodynamic therapy. <i>Materials Horizons</i> , 2020, 7, 3266-3274.	12.2	26
56	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.	5.2	25
57	Visible Light-Driven Reforming of Lignocellulose into H <sub>2</sub> by Intrinsic Monolayer Carbon Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44243-44253.	8.0	24
58	Long-Acting Ultraviolet-Blocking Mechanism of Lignin: Generation and Transformation of Semiquinone Radicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5421-5429.	6.7	22
59	Preparation of Light-Colored Lignosulfonate Sunscreen Microcapsules with Strengthened UV-Blocking and Adhesion Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9381-9388.	6.7	22
60	Effect of Urea on the Enzymatic Hydrolysis of Lignocellulosic Substrate and Its Mechanism. <i>Bioenergy Research</i> , 2018, 11, 456-465.	3.9	21
61	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.	9.6	21
62	Hyperbranched PCL/PS Copolymer-Based Solid Polymer Electrolytes Enable Long Cycle Life of Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110532.	2.9	21
63	Preparation and application performance of lignin-polyurea composite microcapsule with controlled release of avermectin. <i>Colloid and Polymer Science</i> , 2020, 298, 1001-1012.	2.1	21
64	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.	4.7	20
65	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.	3.1	20
66	Effect of cationic surfactant cetyltrimethylammonium bromide on the enzymatic hydrolysis of cellulose. <i>Cellulose</i> , 2017, 24, 61-68.	4.9	19
67	Study on the Antioxidant Activity of Lignin and Its Application Performance in SBS Elastomer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 790-797.	3.7	19
68	Modification of sulfomethylated alkali lignin catalyzed by horseradish peroxidase. <i>RSC Advances</i> , 2014, 4, 53855-53863.	3.6	18
69	Rheological Behavior Investigation of Concentrated Coal-Water Suspension. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 838-843.	2.4	16
70	Preparation of novel all-lignin microcapsules via interfacial cross-linking of pickering emulsion. <i>Industrial Crops and Products</i> , 2021, 167, 113468.	5.2	16
71	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, 8430-8436.	5.2	15
72	Enhancing enzymatic hydrolysis of xylan by adding sodium lignosulfonate and long-chain fatty alcohols. <i>Bioresource Technology</i> , 2016, 200, 48-54.	9.6	15

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73	Essential work of fracture analysis for surface modified carbon fiber/polypropylene composites with different interfacial adhesion. <i>Polymer Composites</i> , 2020, 41, 3541-3551.	4.6	15
74	Lignin " a promising biomass resource. <i>Tappi Journal</i> , 2018, 17, 125-141.	0.5	15
75	Pretreatment of <i>Miscanthus</i> by NaOH/Urea Solution at Room Temperature for Enhancing Enzymatic Hydrolysis. <i>Bioenergy Research</i> , 2016, 9, 335-343.	3.9	14
76	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.	9.6	14
77	Effect of sodium dodecyl sulfate and cetyltrimethylammonium bromide cationic surfactant on the enzymatic hydrolysis of Avicel and corn stover. <i>Cellulose</i> , 2017, 24, 669-676.	4.9	13
78	Understanding the Effect of the Complex of Lignosulfonate and Cetyltrimethylammonium Bromide on the Enzymatic Digestibility of Cellulose. <i>Energy &amp; Fuels</i> , 2017, 31, 672-678.	5.1	13
79	Fabrication and properties of low crystallinity nanofibrillar cellulose and a nanofibrillar cellulose-graphene oxide composite. <i>RSC Advances</i> , 2015, 5, 67568-67573.	3.6	12
80	Enhancement of Recyclable pH-Responsive Lignin-Grafted Phosphobetaine on Enzymatic Hydrolysis of Lignocelluloses. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7926-7931.	6.7	11
81	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.	7.5	11
82	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.	6.7	10
83	Slow relaxation mode of sodium lignosulfonate in saline solutions. <i>Holzforschung</i> , 2015, 69, 17-23.	1.9	9
84	Pickering Emulsion-Based Marbles for Cellular Capsules. <i>Materials</i> , 2016, 9, 572.	2.9	9
85	Using highly recyclable sodium caseinate to enhance lignocellulosic hydrolysis and cellulase recovery. <i>Bioresource Technology</i> , 2020, 304, 122974.	9.6	9
86	Enhancing enzymatic hydrolysis of crystalline cellulose and lignocellulose by adding long-chain fatty alcohols. <i>Cellulose</i> , 2014, 21, 3361-3369.	4.9	8
87	Tracing cellulase components in hydrolyzate during the enzymatic hydrolysis of corncob residue and its analysis. <i>Bioresource Technology Reports</i> , 2018, 4, 137-144.	2.7	8
88	Enhanced mechanical and thermal properties of polyurethane-imide foams with the addition of expanded vermiculite. <i>Polymer Composites</i> , 2020, 41, 886-892.	4.6	8
89	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.	4.9	8
90	Mechanical and flame-resistance properties of polyurethane-imide foams with different-sized expandable graphite. <i>Polymer Engineering and Science</i> , 2020, 60, 2324-2332.	3.1	8

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91	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.	9.0	8
92	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.	1.5	7
93	A Simple and Rapid Method to Determine Sulfonation Degree of Lignosulfonates. <i>Bioenergy Research</i> , 2019, 12, 260-266.	3.9	7
94	Room-Temperature Solid-State Lithium Metal Batteries Using Metal Organic Framework Composites Combined with Methoxy Poly(ethylene glycol) Acrylate Solid Polymer Electrolytes. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100336.	3.6	7
95	LiCoO <sub>2</sub> /Graphite Cells with Localized High Concentration Carbonate Electrolytes for Higher Energy Density. <i>Liquids</i> , 2021, 1, 60-74.	2.5	5
96	Coupling piezo-photocatalysis to imitate lymphoid reflux for enhancing antitumor hydrodynamics therapy. <i>Chemical Engineering Journal</i> , 2022, 450, 137981.	12.7	5
97	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.	4.9	3
98	Green chemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 995-1077.	4.4	3
99	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.	4.9	3
100	Photocatalysis/enzymolysis-based biomimetic Schottky junction reduces tumor interstitial solid and fluid phases for deep-penetrating tumor therapy. <i>Chemical Engineering Journal</i> , 2022, 446, 137196.	12.7	3
101	Effect of superplasticisers on the surface characteristics of fly ash. <i>Magazine of Concrete Research</i> , 2013, 65, 623-628.	2.0	0
102	MoS <sub>2</sub> armored polystyrene particles with a narrow size distribution via membrane-assisted Pickering emulsions for monolayer-shelled liquid marbles. <i>RSC Advances</i> , 2015, 5, 80424-80427.	3.6	0