Xue-qing Qiu

List of Publications by Year
in descending order

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353 papers	14,345 citations	19657 61 h-index	43889 91 g-index
356 all docs	356 docs citations	356 times ranked	8474 citing authors

#	Article	IF	Citations
1	Lignin: a nature-inspired sun blocker for broad-spectrum sunscreens. Green Chemistry, 2015, 17, 320-324.	9.0	352
2	Formation of uniform colloidal spheres from lignin, a renewable resource recovered from pulping spent liquor. Green Chemistry, 2014, 16, 2156.	9.0	334
3	pHâ€Induced Lignin Surface Modification to Reduce Nonspecific Cellulase Binding and Enhance Enzymatic Saccharification of Lignocelluloses. ChemSusChem, 2013, 6, 919-927.	6.8	219
4	Biomimetic Supertough and Strong Biodegradable Polymeric Materials with Improved Thermal Properties and Excellent UVâ€Blocking Performance. Advanced Functional Materials, 2019, 29, 1806912.	14.9	211
5	Fabrication of uniform lignin colloidal spheres for developing natural broad-spectrum sunscreens with high sun protection factor. Industrial Crops and Products, 2017, 101, 54-60.	5.2	201
6	Reduction of lignin color via one-step UV irradiation. Green Chemistry, 2016, 18, 695-699.	9.0	176
7	CO₂-responsive diethylaminoethyl-modified lignin nanoparticles and their application as surfactants for CO₂/N₂-switchable Pickering emulsions. Green Chemistry, 2014, 16, 4963-4968.	9.0	173
8	Sulfonation of Alkali Lignin and Its Potential Use in Dispersant for Cement. Journal of Dispersion Science and Technology, 2009, 30, 1-6.	2.4	171
9	Properties of sodium lignosulfonate as dispersant of coal water slurry. Energy Conversion and Management, 2007, 48, 2433-2438.	9.2	166
10	Investigation of Aggregation and Assembly of Alkali Lignin Using Iodine as a Probe. Biomacromolecules, 2011, 12, 1116-1125.	5.4	162
11	Sunscreen Performance of Lignin from Different Technical Resources and Their General Synergistic Effect with Synthetic Sunscreens. ACS Sustainable Chemistry and Engineering, 2016, 4, 4029-4035.	6.7	155
12	High-Performance Lignin-Containing Polyurethane Elastomers with Dynamic Covalent Polymer Networks. Macromolecules, 2019, 52, 6474-6484.	4.8	155
13	pH-responsive lignin-based complex micelles: Preparation, characterization and application in oral drug delivery. Chemical Engineering Journal, 2017, 327, 1176-1183.	12.7	147
14	High performance PVA/lignin nanocomposite films with excellent water vapor barrier and UV-shielding properties. International Journal of Biological Macromolecules, 2020, 142, 551-558.	7.5	122
15	Green self-assembly synthesis of porous lignin-derived carbon quasi-nanosheets for high-performance supercapacitors. Chemical Engineering Journal, 2020, 392, 123721.	12.7	121
16	Influence of pH on the behavior of lignosulfonate macromolecules in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 50-58.	4.7	118
17	Lignosulfonate To Enhance Enzymatic Saccharification of Lignocelluloses: Role of Molecular Weight and Substrate Lignin. Industrial & Engineering Chemistry Research, 2013, 52, 8464-8470.	3.7	118
18	Lignin-Based Microsphere: Preparation and Performance on Encapsulating the Pesticide Avermectin. ACS Sustainable Chemistry and Engineering, 2017, 5, 3321-3328.	6.7	118

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19	Preparation of Nanocapsules via the Self-Assembly of Kraft Lignin: A Totally Green Process with Renewable Resources. ACS Sustainable Chemistry and Engineering, 2016, 4, 1946-1953.	6.7	115
20	Aggregation Behavior of Sodium Lignosulfonate in Water Solution. Journal of Physical Chemistry B, 2010, 114, 15857-15861.	2.6	113
21	In Situ Preparation of Ru@N-Doped Carbon Catalyst for the Hydrogenolysis of Lignin To Produce Aromatic Monomers. ACS Catalysis, 2019, 9, 5828-5836.	11.2	110
22	Critical Role of Degree of Polymerization of Cellulose in Super-Strong Nanocellulose Films. Matter, 2020, 2, 1000-1014.	10.0	106
23	High-performance dispersant of coalâ€“water slurry synthesized from wheat straw alkali lignin. Fuel Processing Technology, 2007, 88, 375-382.	7.2	104
24	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.	9.6	104
25	Maleic acid as a dicarboxylic acid hydrotrope for sustainable fractionation of wood at atmospheric pressure and â‰100 Â°C: mode and utility of lignin esterification. Green Chemistry, 2020, 22, 1605-1617.	9.0	103
26	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.	3.7	98
27	Effect of solvent on hydrothermal oxidation depolymerization of lignin for the production of monophenolic compounds. Fuel Processing Technology, 2016, 144, 181-185.	7.2	97
28	Magnetic lignin-based carbon nanoparticles and the adsorption for removal of methyl orange. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 226-234.	4.7	97
29	Atomic Force Microscopy and Molecular Dynamics Simulations for Study of Lignin Solution Selfâ€Assembly Mechanisms in Organicâ€“Aqueous Solvent Mixtures. ChemSusChem, 2020, 13, 4420-4427.	6.8	97
30	Facile preparation of well-combined lignin-based carbon/ZnO hybrid composite with excellent photocatalytic activity. Applied Surface Science, 2017, 426, 206-216.	6.1	95
31	Investigation of grafted sulfonated alkali lignin polymer as dispersant in coal-water slurry. Journal of Industrial and Engineering Chemistry, 2015, 27, 192-200.	5.8	94
32	Equip the hydrogel with armor: strong and super tough biomass reinforced hydrogels with excellent conductivity and anti-bacterial performance. Journal of Materials Chemistry A, 2019, 7, 26917-26926.	10.3	93
33	Hollow lignin azo colloids encapsulated avermectin with high anti-photolysis and controlled release performance. Industrial Crops and Products, 2016, 87, 191-197.	5.2	88
34	Accordionâ€Like Carbon with High Nitrogen Doping for Fast and Stable K Ion Storage. Advanced Energy Materials, 2021, 11, 2101928.	19.5	88
35	Lignin-Based Nanoparticles: A Review on Their Preparations and Applications. Polymers, 2020, 12, 2471.	4.5	86
36	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.	6.7	80

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37	Lignin Derived Porous Carbons: Synthesis Methods and Supercapacitor Applications. Small Methods, 2021, 5, e2100896.	8.6	80
38	Renewable lignin-based carbon with a remarkable electrochemical performance from potassium compound activation. Industrial Crops and Products, 2018, 124, 747-754.	5.2	77
39	Encapsulating TiO₂ in Lignin-Based Colloidal Spheres for High Sunscreen Performance and Weak Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 6234-6242.	6.7	77
40	A Novel Lignin/ZnO Hybrid Nanocomposite with Excellent UV-Absorption Ability and Its Application in Transparent Polyurethane Coating. Industrial & Engineering Chemistry Research, 2017, 56, 11133-11141.	3.7	76
41	Highly Resilient Lignin-Containing Polyurethane Foam. Industrial & Engineering Chemistry Research, 2019, 58, 496-504.	3.7	76
42	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.	3.7	74
43	In Situ Synthesis of Flowerlike Lignin/ZnO Composite with Excellent UV-Absorption Properties and Its Application in Polyurethane. ACS Sustainable Chemistry and Engineering, 2018, 6, 3696-3705.	6.7	74
44	Fabricating ZnO/lignin-derived flower-like carbon composite with excellent photocatalytic activity and recyclability. Carbon, 2020, 162, 256-266.	10.3	74
45	Lignin Reverse Micelles for UV-Absorbing and High Mechanical Performance Thermoplastics. Industrial & Engineering Chemistry Research, 2015, 54, 12025-12030.	3.7	73
46	Controlling the sustainability and shape change of the zinc anode in rechargeable aqueous Zn/LiMn2O4 battery. Energy Storage Materials, 2018, 15, 131-138.	18.0	73
47	Preparation of lignin-based silica composite submicron particles from alkali lignin and sodium silicate in aqueous solution using a direct precipitation method. Industrial Crops and Products, 2015, 74, 285-292.	5.2	72
48	Hydroxypropyl Sulfonated Lignin as Dye Dispersant: Effect of Average Molecular Weight. ACS Sustainable Chemistry and Engineering, 2015, 3, 3239-3244.	6.7	72
49	Aggregation-induced emission: the origin of lignin fluorescence. Polymer Chemistry, 2016, 7, 3502-3508.	3.9	72
50	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.	9.6	71
51	Evaluation of sulphonated acetoneâ€“formaldehyde (SAF) used in coal water slurries prepared from different coals. Fuel, 2007, 86, 1439-1445.	6.4	70
52	Microwave assisted liquefaction of wheat straw alkali lignin for the production of monophenolic compounds. Journal of Energy Chemistry, 2015, 24, 72-76.	12.9	70
53	Structure and Properties of Sodium Lignosulfonate with Different Molecular Weight Used as Dye Dispersant. Journal of Dispersion Science and Technology, 2015, 36, 532-539.	2.4	69
54	Highly Efficient Inverted Perovskite Solar Cells With Sulfonated Lignin Doped PEDOT as Hole Extract Layer. ACS Applied Materials & Interfaces, 2016, 8, 12377-12383.	8.0	69

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55	Evaluation of treated black liquor used as dispersant of concentrated coalâ€“water slurry. Fuel, 2010, 89, 716-723.	6.4	68
56	High Performance Thermoplastic Elastomers with Biomass Lignin as Plastic Phase. ACS Sustainable Chemistry and Engineering, 2019, 7, 6550-6560.	6.7	68
57	A simple one-pot method to prepare UV-absorbent lignin/silica hybrids based on alkali lignin from pulping black liquor and sodium metasilicate. Chemical Engineering Journal, 2017, 326, 803-810.	12.7	67
58	Facile and Green Preparation of High UV-Blocking Lignin/Titanium Dioxide Nanocomposites for Developing Natural Sunscreens. Industrial & Engineering Chemistry Research, 2018, 57, 15740-15748.	3.7	67
59	Modulation of BrÃ¸nsted and Lewis Acid Centers for Ni_xCo_{3â€²}_xO₄ Spinel Catalysts: Towards Efficient Catalytic Conversion of Lignin. Advanced Functional Materials, 2022, 32, .	14.9	67
60	Depolymerization of lignin by microwave-assisted methylation of benzylic alcohols. Bioresource Technology, 2016, 218, 718-722.	9.6	66
61	The feasibility of synthetic surfactant as an air entraining agent for the cement matrix. Construction and Building Materials, 2008, 22, 1774-1779.	7.2	65
62	K2CO3 activation enhancing the graphitization of porous lignin carbon derived from enzymatic hydrolysis lignin for high performance lithium-ion storage. Journal of Alloys and Compounds, 2019, 785, 706-714.	5.5	65
63	Adsorption Characteristics of Lignosulfonates in Salt-Free and Salt-Added Aqueous Solutions. Biomacromolecules, 2011, 12, 3313-3320.	5.4	64
64	Modified Lignin with Anionic Surfactant and Its Application in Controlled Release of Avermectin. Journal of Agricultural and Food Chemistry, 2018, 66, 3457-3464.	5.2	64
65	Microwave-assisted synthesis of high carboxyl content of lignin for enhancing adsorption of lead. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 187-194.	4.7	64
66	Hierarchical porous carbon derived from the gas-exfoliation activation of lignin for high-energy lithium-ion batteries. Green Chemistry, 2020, 22, 4321-4330.	9.0	64
67	Biomimetic high performance artificial muscle built on sacrificial coordination network and mechanical training process. Nature Communications, 2021, 12, 2916.	12.8	64
68	Lignin: a sustainable photothermal block for smart elastomers. Green Chemistry, 2022, 24, 823-836.	9.0	64
69	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. Biomacromolecules, 2020, 21, 3231-3241.	5.4	62
70	Strong, Reusable, and Selfâ€Healing Ligninâ€Containing Polyurea Adhesives. ChemSusChem, 2020, 13, 4691-4701.	6.8	62
71	Preparation of octopus-like lignin-grafted cationic polyacrylamide flocculant and its application for water flocculation. International Journal of Biological Macromolecules, 2020, 146, 9-17.	7.5	61
72	Understanding the effects of lignosulfonate on enzymatic saccharification of pure cellulose. Cellulose, 2014, 21, 1351-1359.	4.9	60

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73	Properties of Different Molecular Weight Sodium Lignosulfonate Fractions as Dispersant of Coalâ€Water Slurry. Journal of Dispersion Science and Technology, 2006, 27, 851-856.	2.4	59
74	Influence of oxidation, hydroxymethylation and sulfomethylation on the physicochemical properties of calcium lignosulfonate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 312, 154-159.	4.7	59
75	Bioconversion of Beetle-Killed Lodgepole Pine Using SPORL: Process Scale-up Design, Lignin Coproduct, and High Solids Fermentation without Detoxification. Industrial & Engineering Chemistry Research, 2013, 52, 16057-16065.	3.7	59
76	Reaction-Free Lignin Whitening via a Self-Assembly of Acetylated Lignin. Industrial & Engineering Chemistry Research, 2014, 53, 10024-10028.	3.7	59
77	Synergistic Antioxidant Performance of Lignin and Quercetin Mixtures. ACS Sustainable Chemistry and Engineering, 2017, 5, 8424-8428.	6.7	59
78	Direct Construction of Catechol Lignin for Engineering Longâ€Acting Conductive, Adhesive, and UVâ€Blocking Hydrogel Bioelectronics. Small Methods, 2021, 5, e2001311.	8.6	59
79	Salting-Out Effect of Dipotassium Hydrogen Phosphate on the Recovery of Acetone, Butanol, and Ethanol from a Prefractionator. Journal of Chemical & Engineering Data, 2014, 59, 1507-1514.	1.9	57
80	A novel branched claw-shape lignin-based polycarboxylate superplasticizer: Preparation, performance and mechanism. Cement and Concrete Research, 2019, 119, 89-101.	11.0	57
81	Effect of structural characteristics on the depolymerization of lignin into phenolic monomers. Fuel, 2018, 223, 366-372.	6.4	55
82	Formation of Uniform Colloidal Spheres Based on Lignosulfonate, a Renewable Biomass Resource Recovered from Pulping Spent Liquor. ACS Sustainable Chemistry and Engineering, 2018, 6, 1379-1386.	6.7	55
83	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.	6.7	54
84	A novel and efficient polymerization of lignosulfonates by horseradish peroxidase/H2O2 incubation. Applied Microbiology and Biotechnology, 2013, 97, 10309-10320.	3.6	53
85	Lignin-based polyoxyethylene ether enhanced enzymatic hydrolysis of lignocelluloses by dispersing cellulase aggregates. Bioresource Technology, 2015, 185, 165-170.	9.6	53
86	Self-assembly of kraft lignin into nanospheres in dioxane-water mixtures. Holzforschung, 2016, 70, 725-731.	1.9	52
87	Selective Hydrogenation of Furfural to Furfuryl Alcohol over Acid-Activated Attapulgite-Supported NiCoB Amorphous Alloy Catalyst. Industrial & Engineering Chemistry Research, 2018, 57, 498-511.	3.7	52
88	Effect of Side Chains and Sulfonic Groups on the Performance of Polycarboxylate-Type Superplasticizers in Concentrated Cement Suspensions. Journal of Dispersion Science and Technology, 2011, 32, 203-212.	2.4	51
89	Efficient Removal of Cu²⁺ in Water by Carboxymethylated Cellulose Nanofibrils: Performance and Mechanism. Biomacromolecules, 2019, 20, 4466-4475.	5.4	51
90	Enzymatic Hydrolysis Lignin-Derived Porous Carbons through Ammonia Activation: Activation Mechanism and Charge Storage Mechanism. ACS Applied Materials & Interfaces, 2022, 14, 5425-5438.	8.0	51

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91	Ultrahigh molecular weight, lignosulfonate-based polymers: preparation, self-assembly behaviours and dispersion property in coalâ€“water slurry. RSC Advances, 2015, 5, 21588-21595.	3.6	50
92	Poly(3,4â€Ethylenedioxythiophene): Methylnaphthalene Sulfonate Formaldehyde Condensate: The Effect of Work Function and Structural Homogeneity on Hole Injection/Extraction Properties. Advanced Energy Materials, 2017, 7, 1601499.	19.5	50
93	Rational design of carbon anodes by catalytic pyrolysis of graphitic carbon nitride for efficient storage of Na and K mobile ions. Nano Energy, 2021, 87, 106184.	16.0	50
94	Study on the stability of coal water slurry using dispersion-stability analyzer. Journal of Fuel Chemistry and Technology, 2008, 36, 524-529.	2.0	49
95	Development and evaluation of polycarboxylic acid hyper-dispersant used to prepare high-concentrated coalâ€“water slurry. Powder Technology, 2012, 229, 185-190.	4.2	49
96	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.	5.2	49
97	Physicochemical Properties of Calcium Lignosulfonate with Different Molecular Weights as Dispersant in Aqueous Suspension. Journal of Dispersion Science and Technology, 2008, 29, 1296-1303.	2.4	48
98	Using recyclable pH-responsive lignin amphoteric surfactant to enhance the enzymatic hydrolysis of lignocelluloses. Green Chemistry, 2017, 19, 5479-5487.	9.0	48
99	Effect of lignin-based amphiphilic polymers on the cellulase adsorption and enzymatic hydrolysis kinetics of cellulose. Carbohydrate Polymers, 2019, 207, 52-58.	10.2	48
100	Influence of dispersant on bound water content in coalâ€“water slurry and its quantitative determination. Energy Conversion and Management, 2008, 49, 3063-3068.	9.2	47
101	Effect of molecular weight of sulfanilic acid-phenol-formaldehyde condensate on the properties of cementitious system. Cement and Concrete Research, 2009, 39, 283-288.	11.0	47
102	Using polyvinylpyrrolidone to enhance the enzymatic hydrolysis of lignocelluloses by reducing the cellulase non-productive adsorption on lignin. Bioresource Technology, 2017, 227, 74-81.	9.6	45
103	Microwave-assisted selective cleavage of C C bond for lignin depolymerization. Fuel Processing Technology, 2017, 161, 155-161.	7.2	45
104	Lignin-polyurea microcapsules with anti-photolysis and sustained-release performances synthesized via pickering emulsion template. Reactive and Functional Polymers, 2018, 123, 115-121.	4.1	45
105	Long-Acting and Safe Sunscreens with Ultrahigh Sun Protection Factor via Natural Lignin Encapsulation and Synergy. ACS Applied Bio Materials, 2018, 1, 1276-1285.	4.6	45
106	Three-dimensional Porous Framework Lignin-Derived Carbon/ZnO Composite Fabricated by a Facile Electrostatic Self-Assembly Showing Good Stability for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 16419-16427.	6.7	45
107	Chemical reactivity of alkali lignin modified with laccase. Biomass and Bioenergy, 2013, 55, 198-204.	5.7	44
108	Preparation and Evaluation of Carboxymethylated Lignin as Dispersant for Aqueous Graphite Suspension Using Turbiscan Lab Analyzer. Journal of Dispersion Science and Technology, 2013, 34, 644-650.	2.4	44

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109	Facile and Efficient Synthesis of Silver Nanoparticles Based on Biorefinery Wood Lignin and Its Application as the Optical Sensor. ACS Sustainable Chemistry and Engineering, 2018, 6, 7695-7703.	6.7	44
110	Amino acid-functionalized polyampholytes as natural broad-spectrum antimicrobial agents for high-efficient personal protection. Green Chemistry, 2020, 22, 6357-6371.	9.0	43
111	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.	3.7	43
112	Effect of molecular weight of sulphonated acetone-formaldehyde condensate on its adsorption and dispersion properties in cementitious system. Cement and Concrete Research, 2012, 42, 1043-1048.	11.0	42
113	Unexpected fluorescent emission of graft sulfonated-acetoneâ€“formaldehyde lignin and its application as a dopant of PEDOT for high performance photovoltaic and light-emitting devices. Journal of Materials Chemistry C, 2016, 4, 5297-5306.	5.5	42
114	Preparation of renewable lignin-derived nitrogen-doped carbon nanospheres as anodes for lithium-ion batteries. RSC Advances, 2016, 6, 77143-77150.	3.6	42
115	Recovering cellulase and increasing glucose yield during lignocellulosic hydrolysis using lignin-MPEG with a sensitive pH response. Green Chemistry, 2019, 21, 1141-1151.	9.0	42
116	Controlled preparation of lignin/titanium dioxide hybrid composite particles with excellent UV aging resistance and its high value application. International Journal of Biological Macromolecules, 2020, 150, 371-379.	7.5	42
117	Alkyl Chain Cross-Linked Sulfobutylated Lignosulfonate: A Highly Efficient Dispersant for Carbendazim Suspension Concentrate. ACS Sustainable Chemistry and Engineering, 2015, 3, 1551-1557.	6.7	41
118	Ethanol-Enhanced Liquefaction of Lignin with Formic Acid as an in Situ Hydrogen Donor. Energy & Fuels, 2015, 29, 5835-5840.	5.1	41
119	Very Strong, Superâ€Tough, Antibacterial, and Biodegradable Polymeric Materials with Excellent UVâ€Blocking Performance. ChemSusChem, 2020, 13, 4974-4984.	6.8	41
120	Direct carbonization of sodium lignosulfonate through self-template strategies for the synthesis of porous carbons toward supercapacitor applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128191.	4.7	41
121	Effect of straight-chain alcohols on the physicochemical properties of calcium lignosulfonate. Journal of Colloid and Interface Science, 2009, 338, 151-155.	9.4	40
122	Improving enzymatic hydrolysis of lignocellulosic substrates with pre-hydrolysates by adding cetyltrimethylammonium bromide to neutralize lignosulfonate. Bioresource Technology, 2016, 216, 968-975.	9.6	40
123	Biomass Lignin Stabilized Anti-UV High Internal Phase Emulsions: Preparation, Rheology, and Application As Carrier Materials. ACS Sustainable Chemistry and Engineering, 2019, 7, 810-818.	6.7	40
124	Synthesis of highly conductive hydrogel with high strength and super toughness. Polymer, 2020, 202, 122643.	3.8	40
125	Energy-Saving Recovery of Acetone, Butanol, and Ethanol from a Prefractionator by the Salting-Out Method. Journal of Chemical & Engineering Data, 2013, 58, 3297-3303.	1.9	39
126	Effect of functional groups on hydrogenolysis of lignin model compounds. Fuel Processing Technology, 2016, 154, 132-138.	7.2	39

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127	pH-responsive lignin-based magnetic nanoparticles for recovery of cellulase. Bioresource Technology, 2019, 294, 122133.	9.6	39
128	Tumor microenvironment-responsive, high internal phase Pickering emulsions stabilized by lignin/chitosan oligosaccharide particles for synergistic cancer therapy. Journal of Colloid and Interface Science, 2021, 591, 352-362.	9.4	39
129	Effect of Cholesterol on Cellular Uptake of Cancer Drugs Pirarubicin and Ellipticine. Journal of Physical Chemistry B, 2016, 120, 3148-3156.	2.6	38
130	One-pot in-situ preparation of a lignin-based carbon/ZnO nanocomposite with excellent photocatalytic performance. Materials Chemistry and Physics, 2017, 199, 193-202.	4.0	38
131	Bioinspired Engineering towards Tailoring Advanced Lignin/Rubber Elastomers. Polymers, 2018, 10, 1033.	4.5	38
132	Microwave-mediated fabrication of silver nanoparticles incorporated lignin-based composites with enhanced antibacterial activity via electrostatic capture effect. Journal of Colloid and Interface Science, 2021, 583, 80-88.	9.4	38
133	Saltingâ€out of bioâ€based 2,3â€butanediol from aqueous solutions. Journal of Chemical Technology and Biotechnology, 2017, 92, 122-132.	3.2	37
134	Influence of sulfonated acetoneâ€“formaldehyde condensation used as dispersant on low rank coalâ€“water slurry. Energy Conversion and Management, 2012, 64, 139-144.	9.2	36
135	Fluorescent pH-Sensing Probe Based on Biorefinery Wood Lignosulfonate and Its Application in Human Cancer Cell Bioimaging. Journal of Agricultural and Food Chemistry, 2016, 64, 9592-9600.	5.2	36
136	Improving antioxidant activity of lignin by hydrogenolysis. Industrial Crops and Products, 2018, 125, 228-235.	5.2	36
137	Preparation of porous lignin-derived carbon/carbon nanotube composites by hydrophobic self-assembly and carbonization to enhance lithium storage capacity. Electrochimica Acta, 2019, 303, 1-8.	5.2	36
138	Avermectin loaded nanosphere prepared from acylated alkali lignin showed anti-photolysis property and controlled release performance. Industrial Crops and Products, 2019, 137, 453-459.	5.2	36
139	Insights into the effect of aggregation on lignin fluorescence and its application for microstructure analysis. International Journal of Biological Macromolecules, 2020, 154, 981-988.	7.5	36
140	New insight into lignin aggregation guiding efficient synthesis and functionalization of a lignin nanosphere with excellent performance. Green Chemistry, 2022, 24, 285-294.	9.0	36
141	Mo-Doped/Ni-supported ZnIn₂S₄-wrapped NiMoO₄ S-scheme heterojunction photocatalytic reforming of lignin into hydrogen. Green Chemistry, 2022, 24, 2027-2035.	9.0	36
142	Oxidative Degradation of Soda Lignin Assisted by Microwave Irradiation. Chinese Journal of Chemical Engineering, 2010, 18, 695-702.	3.5	35
143	Influences of aggregation behavior of lignin on the microstructure and adsorptive properties of lignin-derived porous carbons by potassium compound activation. Journal of Industrial and Engineering Chemistry, 2020, 82, 220-227.	5.8	34
144	Near-Infrared-Activated Efficient Bacteria-Killing by Lignin-Based Copper Sulfide Nanocomposites with an Enhanced Photothermal Effect and Peroxidase-like Activity. ACS Sustainable Chemistry and Engineering, 2021, 9, 6479-6488.	6.7	34

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145	Facile synthesis and performance of pH/temperature dual-response hydrogel containing lignin-based carbon dots. International Journal of Biological Macromolecules, 2021, 175, 516-525.	7.5	34
146	Carbon nitride derived nitrogen-doped carbon nanosheets for high-rate lithium-ion storage. Chemical Engineering Science, 2021, 241, 116709.	3.8	34
147	Boosting Surfaceâ€Dominated Sodium Storage of Carbon Anode Enabled by Coupling Graphene Nanodomains, Nitrogenâ€Doping, and Nanoarchitecture Engineering. Advanced Functional Materials, 2022, 32, .	14.9	34
148	In situ coupling of ligninâ€derived carbonâ€encapsulated CoFeâ€Co_xN heterojunction for oxygen evolution reaction. AICHE Journal, 2022, 68, .	3.6	34
149	Enhancement clay tolerance of PCE by lignin-based polyoxyethylene ether in montmorillonite-contained paste. Journal of Industrial and Engineering Chemistry, 2017, 49, 168-175.	5.8	33
150	Pristine lignin as a flame retardant in flexible PU foam. Green Chemistry, 2021, 23, 5972-5980.	9.0	33
151	A bluish green barium aluminate phosphor for PDP application. Materials Letters, 2006, 60, 3217-3220.	2.6	32
152	Physicochemical properties of sodium lignosulfonates (NaLS) modified by laccase. Holzforschung, 2012, 66, 825-832.	1.9	32
153	Oxidative degradation of lignin for producing monophenolic compounds. Journal of Fuel Chemistry and Technology, 2014, 42, 677-682.	2.0	32
154	Piezoelectric Nanocellulose Thin Film with Large-Scale Vertical Crystal Alignment. ACS Applied Materials & Interfaces, 2020, 12, 26399-26404.	8.0	32
155	The adsorption and dispersing mechanisms of sodium lignosulfonate on Al₂O₃ particles in aqueous solution. Holzforschung, 2013, 67, 387-394.	1.9	31
156	Polymerization reactivity of sulfomethylated alkali lignin modified with horseradish peroxidase. Bioresource Technology, 2014, 155, 418-421.	9.6	31
157	Saltingâ€out of acetone, 1â€butanol, and ethanol from dilute aqueous solutions. AICHE Journal, 2015, 61, 3470-3478.	3.6	31
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