

# Haisong Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/287577/haisong-wang-publications-by-year.pdf>

**Version:** 2024-04-28

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.

92  
papers

2,243  
citations

26  
h-index

44  
g-index

94  
ext. papers

2,955  
ext. citations

6.9  
avg, IF

5.4  
L-index

#	Paper	IF	Citations
92	A renewable membrane with high ionic conductivity and thermal stability for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 521, 230947	8.9	2
91	TEMPO oxidized nanofiber carbon quantum dots/TiO <sub>2</sub> composites with enhanced photocatalytic activity for degradation of methylene blue. <i>Chemical Physics Letters</i> , <b>2022</b> , 788, 139297	2.5	0
90	A bio-based elastomer from cornstalk pith scaffold and natural rubber complexing with ferric ions: Preparation and mechanical properties. <i>Polymer</i> , <b>2022</b> , 244, 124678	3.9	0
89	Carbon armor-layer decorated Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> core-shell cathode materials derived from nitrogen doped lignin waste liquor for robust lithium ion batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 531, 231318	8.9	1
88	A cyclic process for enzymatic hydrolysis and fermentation of lactic acid pretreated reed. <i>Industrial Crops and Products</i> , <b>2022</b> , 181, 114848	5.9	1
87	Biodegradable intelligent film for food preservation and real-time visual detection of food freshness. <i>Food Hydrocolloids</i> , <b>2022</b> , 129, 107665	10.6	1
86	Robust PDMS-based Porous Sponge with Enhanced Recyclability for Selective Separation of Oil-Water Mixture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 129228	5.1	0
85	Chitosan-based multifunctional flexible hemostatic bio-hydrogel. <i>Acta Biomaterialia</i> , <b>2021</b> , 136, 170-183	10.8	6
84	Design and mechanism of controllable respiration polyamideamine-epichlorohydrin modified sugarcane bagasse pith hemicellulose film. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50653	2.9	
83	A robust regenerated cellulose-based dual stimuli-responsive hydrogel as an intelligent switch for controlled drug delivery. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 176, 448-458	7.9	16
82	Pulping black liquor-based polymer hydrogel as water retention material and slow-release fertilizer. <i>Industrial Crops and Products</i> , <b>2021</b> , 165, 113445	5.9	5
81	Immobilization of nanosilver onto glycine modified lignin hydrogel composites for highly efficient p-nitrophenol hydrogenation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126370	14.7	26
80	Production of high concentration bioethanol from reed by combined liquid hot water and sodium carbonate-oxygen pretreatment. <i>Energy</i> , <b>2021</b> , 217, 119332	7.9	11
79	Fabrication of the superhydrophobic natural cellulosic paper with different wettability and oil/water separation application. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50371	2.9	4
78	Improving air barrier, water vapor permeability properties of cellulose paper by layer-by-layer assembly of graphene oxide. <i>Carbohydrate Polymers</i> , <b>2021</b> , 253, 117227	10.3	9
77	Composited Gels from Nature Growing Scaffold: Synthesis, Properties, and Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5498-5507	9.5	4
76	Active Biodegradable Polyvinyl Alcohol/Hemicellulose/Tea Polyphenol Films with Excellent Moisture Resistance Prepared via Ultrasound Assistance for Food Packaging. <i>Coatings</i> , <b>2021</b> , 11, 219	2.9	3

75	Construct a stable super-hydrophobic surface through acetonitrile extracted lignin and nano-silica and its application in oil-water separation. <i>Industrial Crops and Products</i> , <b>2021</b> , 166, 113471	5.9	7
74	A mussel-inspired flexible chitosan-based bio-hydrogel as a tailored medical adhesive. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 189, 183-193	7.9	3
73	Preparation of bio-based cellulose acetate/chitosan composite film with oxygen and water resistant properties. <i>Carbohydrate Polymers</i> , <b>2021</b> , 270, 118381	10.3	7
72	Synergistic effects of (3-mercaptopropyl)trimethoxysilane and citric acid on the improvement of water vapor barrier performance of polyvinyl alcohol/xylan packaging films. <i>Industrial Crops and Products</i> , <b>2021</b> , 171, 113822	5.9	1
71	Bio-chemistry directed Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C cathode with honeycomb framework for long-cycle lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161081	5.7	6
70	The preparation and performance of a novel lignin-based adhesive without formaldehyde. <i>Industrial Crops and Products</i> , <b>2020</b> , 153, 112593	5.9	15
69	Combining hydrothermal-alkaline/oxygen pretreatment of reed with PEG 6,000-assisted enzyme hydrolysis promote bioethanol fermentation and reduce enzyme loading. <i>Industrial Crops and Products</i> , <b>2020</b> , 153, 112615	5.9	7
68	A recyclable and regenerable solid acid for efficient hydrolysis of cellulose to glucose. <i>Biomass and Bioenergy</i> , <b>2020</b> , 138, 105611	5.3	9
67	Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
66	The bead-like LiV(PO)/NC nanofibers based on the nanocellulose from waste reed for long-life Li-ion batteries. <i>Carbohydrate Polymers</i> , <b>2020</b> , 237, 116134	10.3	9
65	A lignin-based carbon aerogel enhanced by graphene oxide and application in oil/water separation. <i>Fuel</i> , <b>2020</b> , 278, 118376	7.1	17
64	Novel graphene oxide/aminated lignin aerogels for enhanced adsorption of malachite green in wastewater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 603, 125281	5.1	32
63	Alginate-Derived Porous Carbon Obtained by Nano-ZnO Hard Template-Induced ZnCl <sub>2</sub> -Activation Method for Enhanced Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 040505	3.9	15
62	Graphene oxide modified waste newspaper for removal of heavy metal ions and its application in industrial wastewater. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 244, 122692	4.4	12
61	The hydrothermal-alkaline/oxygen two-step pretreatment combined with the addition of surfactants reduced the amount of cellulase for enzymatic hydrolysis of reed. <i>Bioresource Technology</i> , <b>2020</b> , 308, 123324	11	25
60	Efficiently selective adsorption of Pb(II) with functionalized alginate-based adsorbent in batch/column systems: Mechanism and application simulation. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119585	10.3	36
59	Function integrated chitosan-based beads with throughout sorption sites and inherent diffusion network for efficient phosphate removal. <i>Carbohydrate Polymers</i> , <b>2020</b> , 230, 115639	10.3	27
58	Rational construction of Co NPs embedded N-doped carbon layer/ZrSBA-15 composites with hierarchical succulent-like nanostructures for enhanced microwave absorption. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 294, 109880	5.3	7

57	Combined liquid hot water with sodium carbonate-oxygen pretreatment to improve enzymatic saccharification of reed. <i>Bioresource Technology</i> , <b>2020</b> , 297, 122498	11	23
56	Balancing the decomposable behavior and wet tensile mechanical property of cellulose-based wet wipe substrates by the aqueous adhesive. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 1898-1907	7.9	2
55	Designing ordered composites with confined CoN/C layers for efficient pollutant degradation: Structure-dependent performance and PMS activation mechanism. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 293, 109810	5.3	16
54	Highly efficient and stable catalysis of p-nitrophenol via silver/lignin/polyacrylic acid hydrogel. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 144, 947-953	7.9	13
53	Biomimic-Inspired and Recyclable Nanogel for Contamination Removal from Water and the Application in Treating Bleaching Effluents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 8622-8631	3.9	4
52	Hierarchical carbonaceous composites with dispersed Co species prepared using the inherent nanostructural platform of biomass for enhanced microwave absorption. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 302, 110210	5.3	24
51	An integrated biorefinery process to produce butanol and pulp from corn straw. <i>Industrial Crops and Products</i> , <b>2019</b> , 140, 111648	5.9	13
50	The fabrication of a degradable film with high antimicrobial and antioxidant activities. <i>Industrial Crops and Products</i> , <b>2019</b> , 140, 111692	5.9	9
49	Study on the derivation of cassava residue and its application in surface sizing. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 128, 80-84	7.9	6
48	Preparation of magnetic hydrogel microspheres of lignin derivate for application in water. <i>Science of the Total Environment</i> , <b>2019</b> , 685, 847-855	10.2	40
47	Fractionation of alkali lignin by organic solvents for biodegradable microsphere through self-assembly. <i>Bioresource Technology</i> , <b>2019</b> , 289, 121640	11	25
46	Lignin-based hydrogels: A review of preparation, properties, and application. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 135, 1006-1019	7.9	99
45	Super-swelling lignin-based biopolymer hydrogels for soil water retention from paper industry waste. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 135, 815-820	7.9	17
44	Bio-inspired lightweight pulp foams with improved mechanical property and flame retardancy via borate cross-linking. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 34-42	14.7	28
43	Novel process for the coproduction of xylo-oligosaccharide and glucose from reed scraps of reed pulp mill. <i>Carbohydrate Polymers</i> , <b>2019</b> , 215, 82-89	10.3	12
42	Improving enzymatic hydrolysis efficiency of corncob residue through sodium sulfite pretreatment. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 7795-7804	5.7	14
41	Going Nano with Confined Effects to Construct Pomegranate-like Cathode for High-Energy and High-Power Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28934-28942	9.5	2
40	Construction of strawberry-like Ni <sub>3</sub> S <sub>2</sub> @Co <sub>9</sub> S <sub>8</sub> heteronanoparticle-embedded biomass-derived 3D N-doped hierarchical porous carbon for ultrahigh energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17345-17356	13	53

39	Constructing Stacked Structure of S-Doped Carbon Layer-Encapsulated MoO <sub>2</sub> NPs with Dominated Dielectric Loss for Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19546-19555	8.3	20
38	Preparation of polyacrylic acid-grafted-acryloyl/hemicellulose (PAA-g-AH) hybrid films with high oxygen barrier performance. <i>Carbohydrate Polymers</i> , <b>2019</b> , 205, 83-88	10.3	14
37	Comparative study of two different alkali-mechanical pretreatments of corn stover for bioethanol production. <i>Fuel</i> , <b>2018</b> , 221, 21-27	7.1	47
36	Characteristic Changes of Lignin-Carbohydrate Complexes of Reed Straw and Corn Stover Pretreated with Liquid Hot Water Prior to Enzymatic Hydrolysis. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2018</b> , 12, 252-258	1.4	2
35	Shapeable Fibrous Aerogels of Metal-Organic-Frameworks Templated with Nanocellulose for Rapid and Large-Capacity Adsorption. <i>ACS Nano</i> , <b>2018</b> , 12, 4462-4468	16.7	180
34	Hemicellulose isolated from waste liquor of viscose fiber mill for preparation of polyacrylamide-hemicellulose hybrid films. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 108, 1255-1260	7.9	14
33	Preparation and characterization of thermo-sensitive gel with phenolated alkali lignin. <i>Scientific Reports</i> , <b>2018</b> , 8, 14450	4.9	24
32	Xylo-oligosaccharides enriched yeast protein feed production from reed sawdust. <i>Bioresource Technology</i> , <b>2018</b> , 270, 738-741	11	6
31	Study on the Effect of 1-Butanol Soluble Lignin on Temperature-Sensitive Gel. <i>Polymers</i> , <b>2018</b> , 10,	4.5	8
30	Multivariate data analysis applied in alkali-based pretreatment of corn stover. <i>Resources, Conservation and Recycling</i> , <b>2017</b> , 122, 307-318	11.9	11
29	Effects of Extraction Methods on Structure and Valorization of Corn Stover Lignin by a Pd/C Catalyst. <i>ChemCatChem</i> , <b>2017</b> , 9, 1135-1143	5.2	23
28	The Effects of a Mixed Precipitant on the Morphology and Electrochemical Performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode Materials. <i>Crystals</i> , <b>2017</b> , 7, 275	2.3	4
27	Research on the Dissolution of Pentosans during Eucalyptus Hydrolysate Pretreatment. <i>BioResources</i> , <b>2017</b> , 12,	1.3	1
26	Hydrolysate-Recycled Liquid Hot Water Pretreatment of Reed Straw and Corn Stover for Bioethanol Production with Fed-Batch, Semi-Simultaneous Saccharification and Fermentation. <i>BioResources</i> , <b>2017</b> , 12,	1.3	2
25	Preparation and characterization of antibacterial paper coated with sodium lignosulfonate stabilized ZnO nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 9753-9759	3.7	26
24	Hemicellulose isolation, characterization, and the production of xylo-oligosaccharides from the wastewater of a viscose fiber mill. <i>Carbohydrate Polymers</i> , <b>2016</b> , 141, 238-43	10.3	40
23	Comparative study of pretreated corn stover for sugar production using cotton pulping black liquor (CPBL) instead of sodium hydroxide. <i>Industrial Crops and Products</i> , <b>2016</b> , 84, 97-103	5.9	20
22	Structural Characterization and Effect on Enzymatic Hydrolysis of Milled Wood Lignin Isolated from Reed Straw and Corn Stover Pretreated with Liquid Hot Water. <i>BioResources</i> , <b>2016</b> , 11,	1.3	2

21	Tough and multi-responsive hydrogel based on the hemicellulose from the spent liquor of viscose process. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 88, 451-6	7.9	23
20	Optimization of alkaline sulfite pretreatment and comparative study with sodium hydroxide pretreatment for improving enzymatic digestibility of corn stover. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 3229-34	5.7	16
19	Effect and characterization of sodium lignosulfonate on alkali pretreatment for enhancing enzymatic saccharification of corn stover. <i>Industrial Crops and Products</i> , <b>2015</b> , 76, 638-646	5.9	56
18	Two stages of treatments for upgrading bleached softwood paper grade pulp to dissolving pulp for viscose production. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 82, 183-187	4.2	35
17	Combined deacetylation and PFI refining pretreatment of corn cob for the improvement of a two-stage enzymatic hydrolysis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 4661-7	5.7	27
16	Quantitative characterization of the impact of pulp refining on enzymatic saccharification of the alkaline pretreated corn stover. <i>Bioresource Technology</i> , <b>2014</b> , 169, 19-26	11	26
15	Comparison of hot-water extraction and steam treatment for production of high purity-grade dissolving pulp from green bamboo. <i>Cellulose</i> , <b>2014</b> , 21, 1445-1457	5.5	28
14	A novel approach for the preparation of nanocrystalline cellulose by using phosphotungstic acid. <i>Carbohydrate Polymers</i> , <b>2014</b> , 110, 415-22	10.3	159
13	Acetone-butanol-ethanol production from corn stover pretreated by alkaline twin-screw extrusion pretreatment. <i>Bioprocess and Biosystems Engineering</i> , <b>2014</b> , 37, 913-21	3.7	40
12	Production of furfural from waste aqueous hemicellulose solution of hardwood over ZSM-5 zeolite. <i>Bioresource Technology</i> , <b>2014</b> , 172, 453-456	11	27
11	Characterization of the Detailed Relationships of the Key Variables in the Process of the Alkaline Sulfite Pretreatment of Corn Stover by Multivariate Analysis. <i>BioResources</i> , <b>2014</b> , 9,	1.3	11
10	Alkaline twin-screw extrusion pretreatment for fermentable sugar production. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 97	7.8	64
9	Fractionation of the main components of corn stover by formic acid and enzymatic saccharification of solid residue. <i>Industrial Crops and Products</i> , <b>2013</b> , 50, 750-757	5.9	37
8	Effective saccharification of lignocellulosic biomass over hydrolysis residue derived solid acid under microwave irradiation. <i>Green Chemistry</i> , <b>2012</b> , 14, 2162	10	63
7	Effective TiO <sub>2</sub> hybrid heterostructure fabricated on nano mesoporous phenolic resol for visible-light photocatalysis. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23642		14
6	Biocompatible magnetic cellulose-chitosan hybrid gel microspheres reconstituted from ionic liquids for enzyme immobilization. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15085		90
5	Comparison of different alkali-based pretreatments of corn stover for improving enzymatic saccharification. <i>Bioresource Technology</i> , <b>2012</b> , 125, 193-9	11	72
4	Preparation of Concrete Superplasticizer by Oxidation-Sulfomethylation of Sodium Lignosulfonate. <i>BioResources</i> , <b>2012</b> , 8,	1.3	40

3	Magnetic cellulose-chitosan hydrogels prepared from ionic liquids as reusable adsorbent for removal of heavy metal ions. <i>Chemical Communications</i> , <b>2012</b> , 48, 7350-2	5.8	215
2	Improved efficiency of separate hexose and pentose fermentation from steam-exploded corn stalk for butanol production using <i>Clostridium beijerinckii</i> . <i>Biotechnology Letters</i> , <b>2011</b> , 33, 1587-91	3	16
1	A Review on Lignin-Based Phenolic Resin Adhesive. <i>Macromolecular Chemistry and Physics</i> , 2100434	2.6	3