

# Haisong Wang

## List of Publications by Citations

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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 | 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       |
| 91 | 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       |
| 90 | 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       |
| 89 | 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        |
| 88 | 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        |
| 87 | 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        |
| 86 | Alkaline twin-screw extrusion pretreatment for fermentable sugar production. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 97  | 7.8  | 64        |
| 85 | 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        |
| 84 | 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        |
| 83 | 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        |
| 82 | 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        |
| 81 | 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        |
| 80 | 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        |
| 79 | 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        |
| 78 | Preparation of Concrete Superplasticizer by Oxidation-Sulfomethylation of Sodium Lignosulfonate. <i>BioResources</i> , <b>2012</b> , 8,   | 1.3  | 40        |
| 77 | 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        |
| 76 | 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        |

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|----|--|------|----|
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | Fractionation of alkali lignin by organic solvents for biodegradable microsphere through self-assembly. <i>Bioresource Technology</i> , <b>2019</b> , 289, 121640  | 11   | 25 |
| 64 | 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 |
| 63 | 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 |
| 62 | Preparation and characterization of thermo-sensitive gel with phenolated alkali lignin. <i>Scientific Reports</i> , <b>2018</b> , 8, 14450   | 4.9  | 24 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |

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|----|---|------|----|
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Designing ordered composites with confined Co <sub>N</sub> /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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | Effective TiO <sub>2</sub> hybrid heterostructure fabricated on nano mesoporous phenolic resin for visible-light photocatalysis. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23642  |      | 14 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |

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|----|--|------|----|
| 39 | Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. <i>Polymers</i> , <b>2020</b> , 12,   | 4.5  | 11 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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  |
| 35 | 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  |
| 34 | 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  |
| 33 | 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  |
| 32 | Study on the Effect of 1-Butanol Soluble Lignin on Temperature-Sensitive Gel. <i>Polymers</i> , <b>2018</b> , 10,  | 4.5  | 8  |
| 31 | 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  |
| 30 | 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  |
| 29 | 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  |
| 28 | 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  |
| 27 | 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  |
| 26 | Chitosan-based multifunctional flexible hemostatic bio-hydrogel. <i>Acta Biomaterialia</i> , <b>2021</b> , 136, 170-183  | 10.8 | 6  |
| 25 | Xylo-oligosaccharides enriched yeast protein feed production from reed sawdust. <i>Bioresource Technology</i> , <b>2018</b> , 270, 738-741   | 11   | 6  |
| 24 | 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  |
| 23 | 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  |
| 22 | 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  |

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|----|--|------|---|
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | A Review on Lignin-Based Phenolic Resin Adhesive. <i>Macromolecular Chemistry and Physics</i> , 2100434  | 2.6  | 3 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9  | Research on the Dissolution of Pentosans during Eucalyptus Hydrolysate Pretreatment. <i>BioResources</i> , <b>2017</b> , 12,   | 1.3  | 1 |
| 8  | 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 |
| 7  | 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 |
| 6  | 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 |
| 5  | 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 |
| 4  | 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 |

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|---|---|-----|---|
| 3 | 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 | ○ |
| 2 | 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 | ○ |
| 1 | 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 |   |