

Chao Liu

List of Publications by Year in descending order

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33
papers

1,682
citations

331670

21
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

1797
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of nanocellulose isolated from corncob residue using sulfuric acid, formic acid, oxidative and mechanical methods. <i>Carbohydrate Polymers</i> , 2016, 151, 716-724.	10.2	278
2	Preparation and characterization of thermally stable cellulose nanocrystals via a sustainable approach of FeCl ₃ -catalyzed formic acid hydrolysis. <i>Cellulose</i> , 2016, 23, 2389-2407.	4.9	139
3	Flexible cellulose nanopaper with high wet tensile strength, high toughness and tunable ultraviolet blocking ability fabricated from tobacco stalk via a sustainable method. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13021-13030.	10.3	132
4	Preparation and characterization of functional cellulose nanofibrils via formic acid hydrolysis pretreatment and the followed high-pressure homogenization. <i>Industrial Crops and Products</i> , 2016, 94, 736-745.	5.2	121
5	Structures of <i>Neisseria meningitidis</i> Cas9 Complexes in Catalytically Poised and Anti-CRISPR-Inhibited States. <i>Molecular Cell</i> , 2019, 76, 938-952.e5.	9.7	80
6	Tailored and Integrated Production of Functional Cellulose Nanocrystals and Cellulose Nanofibrils via Sustainable Formic Acid Hydrolysis: Kinetic Study and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9449-9463.	6.7	78
7	Alkaline twin-screw extrusion pretreatment for fermentable sugar production. <i>Biotechnology for Biofuels</i> , 2013, 6, 97.	6.2	76
8	Comparative Evaluation of the Efficient Conversion of Corn Husk Filament and Corn Husk Powder to Valuable Materials via a Sustainable and Clean Biorefinery Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1327-1336.	6.7	73
9	Properties of Nanocelluloses and Their Application as Rheology Modifier in Paper Coating. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8264-8273.	3.7	72
10	Pure cellulose lithium-ion battery separator with tunable pore size and improved working stability by cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2021, 251, 116975.	10.2	72
11	Water and humidity-induced shape memory cellulose nanopaper with quick response, excellent wet strength and folding resistance. <i>Chemical Engineering Journal</i> , 2020, 392, 123673.	12.7	71
12	Effect and characterization of sodium lignosulfonate on alkali pretreatment for enhancing enzymatic saccharification of corn stover. <i>Industrial Crops and Products</i> , 2015, 76, 638-646.	5.2	67
13	A clean and effective potassium hydroxide pretreatment of corncob residue for the enhancement of enzymatic hydrolysis at high solids loading. <i>RSC Advances</i> , 2019, 9, 11558-11566.	3.6	48
14	An efficient and magnetic adsorbent prepared in a dry process with enzymatic hydrolysis residues for wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 313, 127834.	9.3	43
15	Fractionation of the main components of corn stover by formic acid and enzymatic saccharification of solid residue. <i>Industrial Crops and Products</i> , 2013, 50, 750-757.	5.2	41
16	Hydrogen Peroxide-Assisted Sodium Carbonate Pretreatment for the Enhancement of Enzymatic Saccharification of Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3477-3485.	6.7	39
17	Quantitative characterization of the impact of pulp refining on enzymatic saccharification of the alkaline pretreated corn stover. <i>Bioresource Technology</i> , 2014, 169, 19-26.	9.6	33
18	Impact of the Incorporation of Nano-Sized Cellulose Formate on the End Quality of Polylactic Acid Composite Film. <i>Nanomaterials</i> , 2022, 12, 1.	4.1	31

#	ARTICLE	IF	CITATIONS
19	Bio-inspired water resistant and fast multi-responsive Janus actuator assembled by cellulose nanopaper and graphene with lignin adhesion. <i>Chemical Engineering Journal</i> , 2022, 433, 133672.	12.7	29
20	Valorization of Enzymatic Hydrolysis Residues from Corn cob into Lignin-Containing Cellulose Nanofibrils and Lignin Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 677963.	4.1	28
21	A sustainable and effective potassium hydroxide pretreatment of wheat straw for the production of fermentable sugars. <i>Bioresource Technology Reports</i> , 2018, 3, 169-176.	2.7	23
22	A green and facile approach to a graphene-based peroxidase-like nanozyme and its application in sensitive colorimetric detection of l-cysteine. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4013-4022.	3.7	19
23	Green synthesis of broccoli-derived carbon quantum dots as effective photosensitizers for the PDT effect testified in the model of mutant <i>Caenorhabditis elegans</i> . <i>Biomaterials Science</i> , 2022, 10, 2857-2864.	5.4	15
24	Mapping the Soil Texture in the Heihe River Basin Based on Fuzzy Logic and Data Fusion. <i>Sustainability</i> , 2017, 9, 1246.	3.2	13
25	Integrated and sustainable preparation of functional nanocellulose via formic acid/choline chloride solvents pretreatment. <i>Cellulose</i> , 2021, 28, 9689-9703.	4.9	13
26	Highly Sensitive Detection of Elevated Exosomal miR-122 Levels in Radiation Injury and Hepatic Inflammation Using an Aptamer-Functionalized SERS-Sandwich Assay. <i>ACS Applied Bio Materials</i> , 2021, 4, 8386-8395.	4.6	13
27	Polydopamine/Cellulose Nanofibrils Composite Film as Potential Vehicle for Drug Delivery. <i>ChemistrySelect</i> , 2018, 3, 6852-6858.	1.5	9
28	Influence of drying methods on the structure and properties of cellulose formate and its application as a reducing agent. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 397-405.	7.5	9
29	Ultrafast improvement of cellulose accessibility via non-dissolving pretreatment with LiBr·3H ₂ O under room temperature. <i>Carbohydrate Polymers</i> , 2022, 284, 119180.	10.2	7
30	Production of dissolving pulp from <i>Eulaliopsis binata</i> with the concept of integrated biorefinery. <i>Cellulose</i> , 2019, 26, 2087-2097.	4.9	6
31	Impact of ammonium sulfite-based sequential pretreatment combinations on two distinct saccharifications of wheat straw. <i>RSC Advances</i> , 2020, 10, 17129-17142.	3.6	4
32	LiDAR and Camera Calibration Using Near-Far Dual Targets. , 2021, , .		0
33	Extrinsic Calibration between Camera and LiDAR Sensors by Virtual Planar Junctions Matching. , 2020, , .		0