

Jinguang Hu

List of Publications by Year in descending order

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142
papers

5,753
citations

76294

40
h-index

95218

68
g-index

143
all docs

143
docs citations

143
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	The enhancement of enzymatic hydrolysis of lignocellulosic substrates by the addition of accessory enzymes such as xylanase: is it an additive or synergistic effect?. <i>Biotechnology for Biofuels</i> , 2011, 4, 36.	6.2	347
2	Lignin valorization: lignin nanoparticles as high-value bio-additive for multifunctional nanocomposites. <i>Biotechnology for Biofuels</i> , 2017, 10, 192.	6.2	228
3	Lignin-enzyme interaction: A roadblock for efficient enzymatic hydrolysis of lignocellulosics. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111822.	8.2	211
4	Substrate factors that influence the synergistic interaction of AA9 and cellulases during the enzymatic hydrolysis of biomass. <i>Energy and Environmental Science</i> , 2014, 7, 2308-2315.	15.6	193
5	Seawater electrolysis for hydrogen production: a solution looking for a problem?. <i>Energy and Environmental Science</i> , 2021, 14, 4831-4839.	15.6	187
6	The synergistic action of accessory enzymes enhances the hydrolytic potential of a β -cellulase mixture but is highly substrate specific. <i>Biotechnology for Biofuels</i> , 2013, 6, 112.	6.2	185
7	The addition of accessory enzymes enhances the hydrolytic performance of cellulase enzymes at high solid loadings. <i>Bioresource Technology</i> , 2015, 186, 149-153.	4.8	150
8	Acidic deep eutectic solvents pretreatment for selective lignocellulosic biomass fractionation with enhanced cellulose reactivity. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 288-297.	3.6	127
9	Accessory enzymes influence cellulase hydrolysis of the model substrate and the realistic lignocellulosic biomass. <i>Enzyme and Microbial Technology</i> , 2015, 79-80, 42-48.	1.6	118
10	Swollenin aids in the amorphogenesis step during the enzymatic hydrolysis of pretreated biomass. <i>Bioresource Technology</i> , 2013, 142, 498-503.	4.8	115
11	Valorizing Recalcitrant Cellulolytic Enzyme Lignin via Lignin Nanoparticles Fabrication in an Integrated Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2702-2710.	3.2	115
12	Enzyme mediated nanofibrillation of cellulose by the synergistic actions of an endoglucanase, lytic polysaccharide monooxygenase (LPMO) and xylanase. <i>Scientific Reports</i> , 2018, 8, 3195.	1.6	108
13	The impact of glycerol organosolv pretreatment on the chemistry and enzymatic hydrolyzability of wheat straw. <i>Bioresource Technology</i> , 2015, 187, 354-361.	4.8	107
14	n-p Heterojunction of TiO ₂ -NiO core-shell structure for efficient hydrogen generation and lignin photoreforming. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 694-704.	5.0	91
15	PtO nanodots promoting Ti ₃ C ₂ MXene in-situ converted Ti ₃ C ₂ /TiO ₂ composites for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 420, 129695.	6.6	88
16	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions. <i>Chemistry of Materials</i> , 2021, 33, 9012-9092.	3.2	88
17	The influence of lignin on steam pretreatment and mechanical pulping of poplar to achieve high sugar recovery and ease of enzymatic hydrolysis. <i>Bioresource Technology</i> , 2016, 199, 135-141.	4.8	87
18	Enhanced High-Solids Fed-Batch Enzymatic Hydrolysis of Sugar Cane Bagasse with Accessory Enzymes and Additives at Low Cellulase Loading. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12787-12796.	3.2	86

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19	What Are the Major Components in Steam Pretreated Lignocellulosic Biomass That Inhibit the Efficacy of Cellulase Enzyme Mixtures?. ACS Sustainable Chemistry and Engineering, 2016, 4, 3429-3436.	3.2	77
20	Selective biomass photoreforming for valuable chemicals and fuels: A critical review. Renewable and Sustainable Energy Reviews, 2021, 148, 111266.	8.2	70
21	Complete conversion of lignocellulosic biomass into three high-value nanomaterials through a versatile integrated technical platform. Chemical Engineering Journal, 2022, 428, 131373.	6.6	69
22	Industrially relevant hydrolyzability and fermentability of sugarcane bagasse improved effectively by glycerol organosolv pretreatment. Biotechnology for Biofuels, 2016, 9, 59.	6.2	66
23	A xylanase-aided enzymatic pretreatment facilitates cellulose nanofibrillation. Bioresource Technology, 2017, 243, 898-904.	4.8	64
24	Dual Physically Cross-Linked Hydrogels Incorporating Hydrophobic Interactions with Promising Repairability and Ultrahigh Elongation. Advanced Functional Materials, 2021, 31, 2008187.	7.8	64
25	Eco-friendly additives in acidic pretreatment to boost enzymatic saccharification of hardwood for sustainable biorefinery applications. Green Chemistry, 2021, 23, 4074-4086.	4.6	64
26	Carbon quantum dots modified TiO ₂ composites for hydrogen production and selective glucose photoreforming. Journal of Energy Chemistry, 2022, 64, 201-208.	7.1	63
27	Coproduction of hydrogen and lactic acid from glucose photocatalysis on band-engineered Zn _{1-x} Cd _x S homojunction. IScience, 2021, 24, 102109.	1.9	61
28	Trichoderma bridges waste biomass and ultra-high specific surface area carbon to achieve a high-performance supercapacitor. Journal of Power Sources, 2021, 497, 229880.	4.0	58
29	Pretreating lignocellulosic biomass by the concentrated phosphoric acid plus hydrogen peroxide (PHP) for enzymatic hydrolysis: Evaluating the pretreatment flexibility on feedstocks and particle sizes. Bioresource Technology, 2014, 166, 420-428.	4.8	56
30	Bioethanol production from wheat straw by phosphoric acid plus hydrogen peroxide (PHP) pretreatment via simultaneous saccharification and fermentation (SSF) at high solid loadings. Bioresource Technology, 2018, 268, 355-362.	4.8	56
31	Pretreating wheat straw by the concentrated phosphoric acid plus hydrogen peroxide (PHP): Investigations on pretreatment conditions and structure changes. Bioresource Technology, 2016, 199, 245-257.	4.8	53
32	Ultrastretchable, Adhesive, and Antibacterial Hydrogel with Robust Spinnability for Manufacturing Strong Hydrogel Micro/Nanofibers. Small, 2021, 17, e2103521.	5.2	52
33	Valorization of composting leachate for preparing carbon material to achieve high electrochemical performances for supercapacitor electrode. Journal of Power Sources, 2020, 458, 228057.	4.0	48
34	Single Atom Catalysts for Selective Methane Oxidation to Oxygenates. ACS Nano, 2022, 16, 8557-8618.	7.3	48
35	Plasmon enhanced glucose photoreforming for arabinose and gas fuel co-production over 3DOM TiO ₂ -Au. Applied Catalysis B: Environmental, 2021, 291, 120055.	10.8	47
36	Extent of Enzyme Inhibition by Phenolics Derived from Pretreated Biomass Is Significantly Influenced by the Size and Carbonyl Group Content of the Phenolics. ACS Sustainable Chemistry and Engineering, 2018, 6, 3823-3829.	3.2	45

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37	Two-stage pretreatment with alkaline sulphonation and steam treatment of Eucalyptus woody biomass to enhance its enzymatic digestibility for bioethanol production. <i>Energy Conversion and Management</i> , 2018, 175, 236-245.	4.4	44
38	The Use of Carbohydrate Binding Modules (CBMs) to Monitor Changes in Fragmentation and Cellulose Fiber Surface Morphology during Cellulase- and Swollenin-induced Deconstruction of Lignocellulosic Substrates. <i>Journal of Biological Chemistry</i> , 2015, 290, 2938-2945.	1.6	43
39	Minimizing cellulase inhibition of whole slurry biomass hydrolysis through the addition of carbocation scavengers during acid-catalyzed pretreatment. <i>Bioresource Technology</i> , 2018, 258, 12-17.	4.8	43
40	Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15772-15781.	3.2	43
41	3-D hierarchical porous carbon from oxidized lignin by one-step activation for high-performance supercapacitor. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 51-60.	3.6	43
42	Insights into lignocellulosic waste fractionation for lignin nanospheres fabrication using acidic/alkaline deep eutectic solvents. <i>Chemosphere</i> , 2022, 286, 131798.	4.2	42
43	Why does GH10 xylanase have better performance than GH11 xylanase for the deconstruction of pretreated biomass?. <i>Biomass and Bioenergy</i> , 2018, 110, 13-16.	2.9	41
44	Polymeric carbon nitride-based photocatalysts for photoreforming of biomass derivatives. <i>Green Chemistry</i> , 2021, 23, 7435-7457.	4.6	39
45	Enhanced delignification of steam-pretreated poplar by a bacterial laccase. <i>Scientific Reports</i> , 2017, 7, 42121.	1.6	37
46	Thermostable xylanase-aided two-stage hydrolysis approach enhances sugar release of pretreated lignocellulosic biomass. <i>Bioresource Technology</i> , 2018, 257, 334-338.	4.8	37
47	The inhibition of hemicellulosic sugars on cellulose hydrolysis are highly dependant on the cellulase productive binding, processivity, and substrate surface charges. <i>Bioresource Technology</i> , 2018, 258, 79-87.	4.8	37
48	Improving Enzymatic Saccharification and Ethanol Production from Hardwood by Deacetylation and Steam Pretreatment: Insight into Mitigating Lignin Inhibition. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17967-17978.	3.2	37
49	Meso- and Microporous Nanosheet-Constructed 3DOM Perovskites for Remarkable Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
50	Ethanol production from steam-pretreated sweet sorghum bagasse with high substrate consistency enzymatic hydrolysis. <i>Biomass and Bioenergy</i> , 2012, 41, 157-164.	2.9	36
51	Fates of hemicellulose, lignin and cellulose in concentrated phosphoric acid with hydrogen peroxide (PHP) pretreatment. <i>RSC Advances</i> , 2018, 8, 12714-12723.	1.7	36
52	Two-stage alkali-oxygen pretreatment capable of improving biomass saccharification for bioethanol production and enabling lignin valorization via adsorbents for heavy metal ions under the biorefinery concept. <i>Bioresource Technology</i> , 2019, 276, 161-169.	4.8	36
53	Recent Progress in Cellulose Nanocrystal Alignment and Its Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 1828-1844.	2.3	36
54	Solar-Driven Glucose Isomerization into Fructose via Transient Lewis Acid-Base Active Sites. <i>ACS Catalysis</i> , 2021, 11, 12170-12178.	5.5	36

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55	Fractionating Wheat Straw via Phosphoric Acid with Hydrogen Peroxide Pretreatment and Structural Elucidation of the Derived Lignin. <i>Energy & Fuels</i> , 2018, 32, 5218-5225.	2.5	35
56	Valorizing kitchen waste through bacterial cellulose production towards a more sustainable biorefinery. <i>Science of the Total Environment</i> , 2019, 695, 133898.	3.9	35
57	Full utilization of sweet sorghum for bacterial cellulose production: A concept of material crop. <i>Industrial Crops and Products</i> , 2021, 162, 113256.	2.5	35
58	Mechanistic understanding of cellulose β -1,4-glycosidic cleavage via photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120872.	10.8	35
59	Fabrication of spherical lignin nanoparticles using acid-catalyzed condensed lignins. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3038-3047.	3.6	34
60	Facile synthesis of manganese oxide modified lignin nanocomposites from lignocellulosic biorefinery wastes for dye removal. <i>Bioresource Technology</i> , 2020, 315, 123846.	4.8	33
61	Recent Advances in Cellulose Nanofibers Preparation through Energy-Efficient Approaches: A Review. <i>Energies</i> , 2021, 14, 6792.	1.6	32
62	The Accessible Cellulose Surface Influences Cellulase Synergism during the Hydrolysis of Lignocellulosic Substrates. <i>ChemSusChem</i> , 2015, 8, 901-907.	3.6	31
63	Rational design of carbon nitride for remarkable photocatalytic H ₂ O ₂ production. <i>Chem Catalysis</i> , 2022, 2, 1720-1733.	2.9	31
64	Organosolv pretreatment assisted by carbocation scavenger to mitigate surface barrier effect of lignin for improving biomass saccharification and utilization. <i>Biotechnology for Biofuels</i> , 2021, 14, 136.	6.2	30
65	Oxidative cleavage of some cellulosic substrates by auxiliary activity (AA) family 9 enzymes influences the adsorption/desorption of hydrolytic cellulase enzymes. <i>Green Chemistry</i> , 2016, 18, 6329-6336.	4.6	29
66	Functionalizing bottom ash from biomass power plant for removing methylene blue from aqueous solution. <i>Science of the Total Environment</i> , 2018, 634, 760-768.	3.9	28
67	Mild Acid-Catalyzed Atmospheric Glycerol Organosolv Pretreatment Effectively Improves Enzymatic Hydrolyzability of Lignocellulosic Biomass. <i>ACS Omega</i> , 2019, 4, 20015-20023.	1.6	28
68	Recycling solvent system in phosphoric acid plus hydrogen peroxide pretreatment towards a more sustainable lignocellulose biorefinery for bioethanol. <i>Bioresource Technology</i> , 2019, 275, 19-26.	4.8	27
69	A comparative investigation of H ₂ O ₂ -involved pretreatments on lignocellulosic biomass for enzymatic hydrolysis. <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 321-331.	2.9	27
70	Modification of lignin by various additives to mitigate lignin inhibition for improved enzymatic digestibility of dilute acid pretreated hardwood. <i>Renewable Energy</i> , 2021, 177, 992-1000.	4.3	27
71	Estimation of higher heating values (HHVs) of biomass fuels based on ultimate analysis using machine learning techniques and improved equation. <i>Renewable Energy</i> , 2021, 179, 550-562.	4.3	26
72	Electron-enriched Lewis acid-base sites on red carbon nitride for simultaneous hydrogen production and glucose isomerization. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121647.	10.8	25

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73	Enhancing bacterial cellulose production via adding mesoporous halloysite nanotubes in the culture medium. <i>Carbohydrate Polymers</i> , 2018, 198, 191-196.	5.1	23
74	Size effect of bifunctional gold in hierarchical titanium oxide-gold-cadmium sulfide with slow photon effect for unprecedented visible-light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 131-140.	5.0	23
75	Optimized 3D Bioprinting Technology Based on Machine Learning: A Review of Recent Trends and Advances. <i>Micromachines</i> , 2022, 13, 363.	1.4	23
76	Fabrication and characterization of lignin-xylan hybrid nanospheres as pesticide carriers with enzyme-mediated release property. <i>Soft Matter</i> , 2020, 16, 9083-9093.	1.2	22
77	Integrated process for the coproduction of fermentable sugars and lignin adsorbents from hardwood. <i>Bioresource Technology</i> , 2019, 289, 121659.	4.8	21
78	Deacetylation Processing of Waste Cigarette Butts for High-Titer Bioethanol Production toward a Clean Recycling Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11253-11262.	3.2	21
79	Performances of a multi-product strategy for bioethanol, lignin, and ultra-high surface area carbon from lignocellulose by PHP (phosphoric acid plus hydrogen peroxide) pretreatment platform. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111503.	8.2	21
80	The effects of metal elements on ramie fiber oxidation degumming and the potential of using spherical bacterial cellulose for metal removal. <i>Journal of Cleaner Production</i> , 2019, 206, 498-507.	4.6	20
81	Techno-economic analysis of a solar-powered biomass electrolysis pathway for coproduction of hydrogen and value-added chemicals. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5568-5577.	2.5	20
82	Why can hydrothermally pretreating lignocellulose in low severities improve anaerobic digestion performances?. <i>Science of the Total Environment</i> , 2021, 752, 141929.	3.9	20
83	Synthesis, characterization and enzymatic surface roughing of cellulose/xylan composite films. <i>Carbohydrate Polymers</i> , 2019, 213, 121-127.	5.1	19
84	Hierarchical Ni@Ni(OH) ₂ core-shell hybrid arrays on cotton cloth fabricated by a top-down approach for high-performance flexible asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 784, 1091-1098.	2.8	19
85	Harvesting Bacterial Cellulose from Kitchen Waste to Prepare Superhydrophobic Aerogel for Recovering Waste Cooking Oil toward a Closed-Loop Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13400-13407.	3.2	19
86	Synergism of Recombinant <i>Podospora anserina</i> PaAA9B with Cellulases Containing AA9s Can Boost the Enzymatic Hydrolysis of Cellulosic Substrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11986-11993.	3.2	19
87	Improving enzymatic saccharification of hardwood through lignin modification by carbocation scavengers and the underlying mechanisms. <i>Bioresource Technology</i> , 2019, 294, 122216.	4.8	18
88	Mechanistic insights into the liquefaction stage of enzyme-mediated biomass deconstruction. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2489-2496.	1.7	18
89	Evaluation of hemicellulose removal by xylanase and delignification on SHF and SSF for bioethanol production with steam-pretreated substrates. <i>Bioresource Technology</i> , 2011, 102, 8945-8951.	4.8	17
90	Can We Reduce the Cellulase Enzyme Loading Required To Achieve Efficient Lignocellulose Deconstruction by Only Using the Initially Absorbed Enzymes?. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6233-6239.	3.2	17

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91	Evaluation of the mild Mg(OH) ₂ -AQ aided alkaline oxidation degumming process of ramie fiber at an industrial scale. <i>Industrial Crops and Products</i> , 2019, 137, 694-701.	2.5	17
92	Understanding the slowdown of whole slurry hydrolysis of steam pretreated lignocellulosic woody biomass catalyzed by an up-to-date enzyme cocktail. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1048-1056.	2.5	16
93	Bacterial cellulose/lignin nanoparticles composite films with retarded biodegradability. <i>Carbohydrate Polymers</i> , 2021, 274, 118656.	5.1	16
94	Carbocation scavenger assisted acid pretreatment followed by mild alkaline hydrogen peroxide (AHP) treatment for efficient production of fermentable sugars and lignin adsorbents from hardwood biomass. <i>Industrial Crops and Products</i> , 2021, 170, 113737.	2.5	15
95	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes. <i>Scientific Reports</i> , 2022, 12, 4095.	1.6	15
96	Pretreatment of Wheat Straw with Phosphoric Acid and Hydrogen Peroxide to Simultaneously Facilitate Cellulose Digestibility and Modify Lignin as Adsorbents. <i>Biomolecules</i> , 2019, 9, 844.	1.8	14
97	Integrating the Bottom Ash Residue from Biomass Power Generation into Anaerobic Digestion To Improve Biogas Production from Lignocellulosic Biomass. <i>Energy & Fuels</i> , 2020, 34, 1101-1110.	2.5	14
98	Integration of lignin microcapsulated pesticide production into lignocellulose biorefineries through FeCl ₃ -mediated deep eutectic solvent pretreatment. <i>Green Chemistry</i> , 2022, 24, 5242-5254.	4.6	14
99	Synthesis of a polydopamine nanoparticle/bacterial cellulose composite for use as a biocompatible matrix for laccase immobilization. <i>Cellulose</i> , 2019, 26, 8337-8349.	2.4	13
100	Electrocoagulation Separation Processes. <i>ACS Symposium Series</i> , 2020, , 167-203.	0.5	13
101	One-pot solvothermal synthesis of lotus-leaf like Ni ₇ S ₆ /CoNi ₂ S ₄ hybrid on carbon fabric toward comprehensive high-performance flexible non-enzymatic glucose sensor and supercapacitor. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2988-2997.	2.7	13
102	Construction and optimization of <i>trans</i> -4-hydroxy-L-proline production recombinant <i>E. coli</i> strain taking the glycerol as carbon source. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2389-2398.	1.6	12
103	Conceptually integrating a multi-product strategy for the valorization of kitchen waste towards a more sustainable management. <i>Journal of Cleaner Production</i> , 2021, 306, 127292.	4.6	12
104	Tailoring biochar by PHP towards the oxygenated functional groups (OFGs)-rich surface to improve adsorption performance. <i>Chinese Chemical Letters</i> , 2022, 33, 3097-3100.	4.8	12
105	NiO-TiO ₂ p-n Heterojunction for Solar Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 1427.	1.6	12
106	The development and use of an ELISA-based method to follow the distribution of cellulase monocomponents during the hydrolysis of pretreated corn stover. <i>Biotechnology for Biofuels</i> , 2013, 6, 80.	6.2	11
107	Electropolymerized metal-protoporphyrin electrodes for selective electrochemical reduction of CO ₂ . <i>Catalysis Science and Technology</i> , 2021, 11, 1580-1589.	2.1	11
108	Lipase-Immobilized Cellulosic Capsules with Water Absorbency for Enhanced Pickering Interfacial Biocatalysis. <i>Langmuir</i> , 2021, 37, 810-819.	1.6	11

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109	Tuning hydrothermal pretreatment severity of wheat straw to match energy application scenarios. <i>Industrial Crops and Products</i> , 2022, 176, 114326.	2.5	11
110	Enzymatic Hydrolysis of Industrial Derived Xylo-oligomers to Monomeric Sugars for Potential Chemical/Biofuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7130-7136.	3.2	10
111	The Potential of Using Immobilized Xylanases to Enhance the Hydrolysis of Soluble, Biomass Derived Xylooligomers. <i>Materials</i> , 2018, 11, 2005.	1.3	10
112	Substrate Characteristics That Influence the Filter Paper Assay™s Ability to Predict the Hydrolytic Potential of Cellulase Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10521-10528.	3.2	10
113	Metal-Free Sulfonate/Sulfate-Functionalized Carbon Nitride for Direct Conversion of Glucose to Levulinic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6230-6243.	3.2	10
114	Valorizing Waste Lignocellulose-Based Furniture Boards by Phosphoric Acid and Hydrogen Peroxide (Php) Pretreatment for Bioethanol Production and High-Value Lignin Recovery. <i>Sustainability</i> , 2019, 11, 6175.	1.6	9
115	Controllable synthesis uniform spherical bacterial cellulose and their potential applications. <i>Cellulose</i> , 2019, 26, 8325-8336.	2.4	9
116	<i>In Situ</i> Alignment of Bacterial Cellulose Using Wrinkling. <i>ACS Applied Bio Materials</i> , 2020, 3, 7898-7907.	2.3	9
117	Evaluation of Hydrothermal Pretreatment on Lignocellulose-Based Waste Furniture Boards for Enzymatic Hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 415-431.	1.4	9
118	Valorizing the waste bottom ash for improving anaerobic digestion performances towards a "Win-Win" strategy between biomass power generation and biomethane production. <i>Journal of Cleaner Production</i> , 2021, 295, 126508.	4.6	9
119	Plasmon-Enhanced 5-Hydroxymethylfurfural Production from the Photothermal Conversion of Cellulose in a Biphasic Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16115-16122.	3.2	9
120	Insight into understanding sequential two-stage pretreatment on modifying lignin physiochemical properties and improving holistic utilization of renewable lignocellulose biomass. <i>Renewable Energy</i> , 2022, 187, 123-134.	4.3	9
121	Unlocking Selective Pathways for Glucose Photoreforming by Modulating Reaction Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5867-5874.	3.2	9
122	Cannabis as a Feedstock for the Production of Chemicals, Fuels, and Materials: A Review of Relevant Studies To Date. <i>Energy & Fuels</i> , 2021, 35, 5538-5557.	2.5	8
123	Visible-Light Driven Photocatalytic Degradation of 4-Chlorophenol Using Graphitic Carbon Nitride-Based Nanocomposites. <i>Catalysts</i> , 2022, 12, 281.	1.6	8
124	Confined synthesis of BiVO ₄ nanodot and ZnO cluster co-decorated 3DOM TiO ₂ for formic acid production from the xylan-based hemicellulose photorefinery. <i>Green Chemistry</i> , 2021, 23, 8124-8130.	4.6	7
125	Self-generated peroxyacetic acid in phosphoric acid plus hydrogen peroxide pretreatment mediated lignocellulose deconstruction and delignification. <i>Biotechnology for Biofuels</i> , 2021, 14, 224.	6.2	7
126	Lignin Sulfonation and SO ₂ Addition Enhance the Hydrolyzability of Deacetylated and Then Steam-Pretreated Poplar with Reduced Inhibitor Formation. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 264-277.	1.4	6

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127	Transition pathways towards net-zero emissions methanol production. <i>Green Chemistry</i> , 2021, 23, 9844-9854.	4.6	6
128	CdS-based artificial leaf for photocatalytic hydrogen evolution and simultaneous degradation of biological wastewater. <i>Chemosphere</i> , 2022, 301, 134713.	4.2	6
129	Cloning, Purification, and Characterization of a Thermostable β -Glucosidase from <i>Thermotoga thermarum</i> DSM 5069. <i>BioResources</i> , 2016, 11, .	0.5	5
130	Hierarchical Ni(OH) ₂ /Cu(OH) ₂ interwoven nanosheets <i>in situ</i> grown on Ni-Cu-P alloy plated cotton fabric for flexible high-performance energy storage. <i>Nanoscale Advances</i> , 2020, 2, 3358-3366.	2.2	5
131	Substrate Factors that Influence Cellulase Accessibility and Catalytic Activity During the Enzymatic Hydrolysis of Lignocellulosic Biomass. , 2018, , 239-256.		4
132	Enzyme-Mediated Lignocellulose Liquefaction Is Highly Substrate-Specific and Influenced by the Substrate Concentration or Rheological Regime. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 917.	2.0	4
133	Potential of Xylanases to Reduce the Viscosity of Micro/Nanofibrillated Bleached Kraft Pulp. <i>ACS Applied Bio Materials</i> , 2020, 3, 2201-2208.	2.3	4
134	Constructing a bacterial cellulose-based bacterial sensor platform by enhancing cell affinity <i>via</i> a surface-exposed carbohydrate binding module. <i>Green Chemistry</i> , 2021, 23, 9600-9609.	4.6	4
135	Characterization of the complex involved in regulating V-ATPase activity of the vacuolar and endosomal membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 2017, 49, 347-355.	1.0	3
136	A novel way to facilely degrade organic pollutants with the tail-gas derived from PHP (phosphoric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 424, 127517.	6.5	3
137	Surfactant-free cellulose filaments stabilized oil in water emulsions. <i>Cellulose</i> , 2022, 29, 985-1001.	2.4	3
138	Will biomass be used for bioenergy or transportationbiofuels? What drivers will influence biomass allocation. <i>Frontiers of Agricultural Science and Engineering</i> , 2017, 4, 473.	0.9	2
139	The Potential of Using Thermostable Xylan-Binding Domain as a Molecular Probe to Better Understand the Xylan Distribution of Cellulosic Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, , .	3.2	1
140	A novel strategy to alleviate medium acidosis for simultaneously yielding more bacterial cellulose and electricity. <i>RSC Advances</i> , 2020, 10, 31815-31818.	1.7	0
141	Effect of the coexistence of SO ₃ ²⁻ and PO ₄ ³⁻ on the adsorption performance of zeolite-loaded FeOOH@ZnO for S ₂ ²⁻ . <i>Water Science and Technology</i> , 2021, 84, 3641-3652.	1.2	0
142	Preparation, modification and deodorization performance of MCM-41 composite corn stalk. <i>Journal of Porous Materials</i> , 0, , 1.	1.3	0