

Xuebing Zhao

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102
papers

5,448
citations

37
h-index

73
g-index

108
ext. papers

6,369
ext. citations

6.8
avg, IF

6.33
L-index

#	Paper	IF	Citations
102	Organosolv pretreatment of lignocellulosic biomass for enzymatic hydrolysis. <i>Applied Microbiology and Biotechnology</i> , 2009 , 82, 815-27	5.7	814
101	Biomass recalcitrance. Part I: the chemical compositions and physical structures affecting the enzymatic hydrolysis of lignocellulose. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 465-482	5.3	561
100	Lipase-catalyzed process for biodiesel production: Enzyme immobilization, process simulation and optimization. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 44, 182-197	16.2	256
99	Production of 2,5-furandicarboxylic acid (FDCA) from 5-hydroxymethylfurfural (HMF): recent progress focusing on the chemical-catalytic routes. <i>Green Chemistry</i> , 2018 , 20, 5427-5453	10	246
98	Biomass recalcitrance. Part II: Fundamentals of different pre-treatments to increase the enzymatic digestibility of lignocellulose. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 561-579	5.3	177
97	Microbial conversion of biodiesel byproduct glycerol to triacylglycerols by oleaginous yeast <i>Rhodosporidium toruloides</i> and the individual effect of some impurities on lipid production. <i>Biochemical Engineering Journal</i> , 2012 , 65, 30-36	4.2	154
96	Biotechnological production of succinic acid: current state and perspectives. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 302-318	5.3	146
95	Organosolv fractionating pre-treatment of lignocellulosic biomass for efficient enzymatic saccharification: chemistry, kinetics, and substrate structures. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 567-590	5.3	139
94	Peracetic acid pretreatment of sugarcane bagasse for enzymatic hydrolysis: a continued work. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 950-956	3.5	134
93	Effects of some inhibitors on the growth and lipid accumulation of oleaginous yeast <i>Rhodosporidium toruloides</i> and preparation of biodiesel by enzymatic transesterification of the lipid. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 993-1004	3.7	128
92	Kinetics of Strong Acid Hydrolysis of a Bleached Kraft Pulp for Producing Cellulose Nanocrystals (CNCs). <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11007-11014	3.9	116
91	A comparison of several organosolv pretreatments for improving the enzymatic hydrolysis of wheat straw: Substrate digestibility, fermentability and structural features. <i>Applied Energy</i> , 2015 , 150, 224-232	10.7	111
90	Effect of several factors on peracetic acid pretreatment of sugarcane bagasse for enzymatic hydrolysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 1115-1121	3.5	110
89	Downstream processing of biotechnological produced succinic acid. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 841-50	5.7	105
88	Enhancement of the enzymatic digestibility of sugarcane bagasse by alkali-peracetic acid pretreatment. <i>Enzyme and Microbial Technology</i> , 2009 , 44, 17-23	3.8	104
87	Preparation of peracetic acid from hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2007 , 271, 246-252		103
86	Lignocellulosic biomass as sustainable feedstock and materials for power generation and energy storage. <i>Journal of Energy Chemistry</i> , 2021 , 57, 247-280	12	87

85	Characteristics of hydrogen and methane production from cornstalks by an augmented two- or three-stage anaerobic fermentation process. <i>Bioresource Technology</i> , 2009 , 100, 2889-95	11	83
84	Comparative study on chemical pretreatment methods for improving enzymatic digestibility of crofton weed stem. <i>Bioresource Technology</i> , 2008 , 99, 3729-36	11	78
83	Lipase-catalyzed process for biodiesel production: protein engineering and lipase production. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 639-53	4.9	73
82	Fractionating pretreatment of sugarcane bagasse by aqueous formic acid with direct recycle of spent liquor to increase cellulose digestibility--the Formiline process. <i>Bioresource Technology</i> , 2012 , 117, 25-32	11	72
81	Non-ionic surfactants do not consistently improve the enzymatic hydrolysis of pure cellulose. <i>Bioresource Technology</i> , 2015 , 182, 136-143	11	69
80	Batch and multi-step fed-batch enzymatic saccharification of Formiline-pretreated sugarcane bagasse at high solid loadings for high sugar and ethanol titers. <i>Bioresource Technology</i> , 2013 , 135, 350-6 ¹¹	11	65
79	Preparation of peracetic acid from hydrogen peroxide, part II: Kinetics for spontaneous decomposition of peracetic acid in the liquid phase. <i>Journal of Molecular Catalysis A</i> , 2008 , 284, 58-68		65
78	Microbial oil production from various carbon sources and its use for biodiesel preparation. <i>Biofuels, Bioproducts and Biorefining</i> , 2013 , 7, 65-77	5.3	64
77	Enzymatic hydrolysis and simultaneous saccharification and fermentation of alkali/peracetic acid-pretreated sugarcane bagasse for ethanol and 2,3-butanediol production. <i>Enzyme and Microbial Technology</i> , 2011 , 49, 413-9	3.8	57
76	Kinetic model for glycan hydrolysis and formation of monosaccharides during dilute acid hydrolysis of sugarcane bagasse. <i>Bioresource Technology</i> , 2012 , 105, 160-8	11	51
75	Improving the enzymatic hydrolysis of dilute acid pretreated wheat straw by metal ion blocking of non-productive cellulase adsorption on lignin. <i>Bioresource Technology</i> , 2016 , 208, 110-116	11	49
74	Chemical and thermal characteristics of lignins isolated from Siam weed stem by acetic acid and formic acid delignification. <i>Industrial Crops and Products</i> , 2010 , 32, 284-291	5.9	48
73	Evaluation of the action of Tween 20 non-ionic surfactant during enzymatic hydrolysis of lignocellulose: Pretreatment, hydrolysis conditions and lignin structure. <i>Bioresource Technology</i> , 2018 , 269, 329-338	11	46
72	Production of pulp, ethanol and lignin from sugarcane bagasse by alkali-peracetic acid delignification. <i>Biomass and Bioenergy</i> , 2011 , 35, 2874-2882	5.3	44
71	Robust enzymatic hydrolysis of Formiline-pretreated oil palm empty fruit bunches (EFB) for efficient conversion of polysaccharide to sugars and ethanol. <i>Bioresource Technology</i> , 2014 , 166, 584-91 ¹¹	11	43
70	Kinetics of Formic Acid-autocatalyzed Preparation of Performic Acid in Aqueous Phase. <i>Chinese Journal of Chemical Engineering</i> , 2011 , 19, 964-971	3.2	43
69	Novel mutant strains of <i>Rhodospiridium toruloides</i> by plasma mutagenesis approach and their tolerance for inhibitors in lignocellulosic hydrolyzate. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 735-742	3.5	42
68	Low-temperature microbial and direct conversion of lignocellulosic biomass to electricity: Advances and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 71, 268-282	16.2	39

67	A novel kinetic model for polysaccharide dissolution during atmospheric acetic acid pretreatment of sugarcane bagasse. <i>Bioresource Technology</i> , 2014 , 151, 128-36	11	39
66	Efficient Conversion of Lignin to Electricity Using a Novel Direct Biomass Fuel Cell Mediated by Polyoxometalates at Low Temperatures. <i>ChemSusChem</i> , 2016 , 9, 197-207	8.3	38
65	Kinetic Modeling and Mechanisms of Acid-Catalyzed Delignification of Sugarcane Bagasse by Aqueous Acetic Acid. <i>Bioenergy Research</i> , 2013 , 6, 436-447	3.1	37
64	Characterization and comparison of Acetosolv and Milox lignin isolated from crofton weed stem. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1295-1302	2.9	37
63	Microwave pretreatment of substrates for cellulase production by solid-state fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 160, 1557-71	3.2	34
62	The fate of lignin during atmospheric acetic acid pretreatment of sugarcane bagasse and the impacts on cellulose enzymatic hydrolyzability for bioethanol production. <i>Renewable Energy</i> , 2018 , 128, 200-209	8.1	34
61	Pretreatment of Siam weed stem by several chemical methods for increasing the enzymatic digestibility. <i>Biotechnology Journal</i> , 2010 , 5, 493-504	5.6	31
60	Relative Significance of the Negative Impacts of Hemicelluloses on Enzymatic Cellulose Hydrolysis Is Dependent on Lignin Content: Evidence from Substrate Structural Features and Protein Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6668-6679	8.3	31
59	A novel route for the flexible preparation of hydrocarbon jet fuels from biomass-based platform chemicals: a case of using furfural and 2,3-butanediol as feedstocks. <i>Green Chemistry</i> , 2018 , 20, 2018-2026	10	30
58	Biological co-production of ethanol and biodiesel from wheat straw: a case of dilute acid pretreatment. <i>RSC Advances</i> , 2014 , 4, 37878-37888	3.7	30
57	Conversion of lignocellulose to biofuels and chemicals via sugar platform: An updated review on chemistry and mechanisms of acid hydrolysis of lignocellulose. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 146, 111169	16.2	30
56	High value-added monomer chemicals and functional bio-based materials derived from polymeric components of lignocellulose by organosolv fractionation. <i>Biofuels, Bioproducts and Biorefining</i> , 2020 , 14, 371-401	5.3	29
55	Renewable microbial lipid production from Oleaginous Yeast: some surfactants greatly improved lipid production of <i>Rhodospiridium toruloides</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2016 , 32, 107	4.4	25
54	Phosphomolybdic acid and ferric iron as efficient electron mediators for coupling biomass pretreatment to produce bioethanol and electricity generation from wheat straw. <i>Bioresource Technology</i> , 2017 , 228, 279-289	11	24
53	Solvent-based delignification and decrystallization of wheat straw for efficient enzymatic hydrolysis of cellulose and ethanol production with low cellulase loadings. <i>RSC Advances</i> , 2017 , 7, 10609-10617	3.7	22
52	Multi-products co-production improves the economic feasibility of cellulosic ethanol: A case of Formiline pretreatment-based biorefining. <i>Applied Energy</i> , 2019 , 250, 229-244	10.7	21
51	Kinetic modeling of atmospheric formic acid pretreatment of wheat straw with potential degree of reaction models. <i>RSC Advances</i> , 2015 , 5, 20992-21000	3.7	20
50	Bioconversion of glycerol into lipids by in a two-stage process and characterization of lipid properties. <i>Engineering in Life Sciences</i> , 2017 , 17, 303-313	3.4	19

49	A novel process on lipid extraction from microalgae for biodiesel production. <i>Energy</i> , 2016 , 115, 963-968	7.9	18
48	Structural Features of Formiline Pretreated Sugar Cane Bagasse and Their Impact on the Enzymatic Hydrolysis of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1255-1261	8.3	18
47	Isolation of oleaginous yeast (<i>Rhodosporidium toruloides</i>) mutants tolerant of sugarcane bagasse hydrolysate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 336-42	2.1	18
46	A comparison of different oxidative pretreatments on polysaccharide hydrolyzability and cell wall structure for interpreting the greatly improved enzymatic digestibility of sugarcane bagasse by delignification. <i>Bioresources and Bioprocessing</i> , 2020 , 7,	5.2	18
45	Integrative transcriptomic and proteomic analysis of the mutant lignocellulosic hydrolyzate-tolerant. <i>Engineering in Life Sciences</i> , 2017 , 17, 249-261	3.4	17
44	Kinetics of lipase recovery from the aqueous phase of biodiesel production by macroporous resin adsorption and reuse of the adsorbed lipase for biodiesel preparation. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 226-33	3.8	17
43	Pretreatment of lignocellulosic biomass for efficient enzymatic saccharification of cellulose 2020 , 17-65		17
42	Polyoxometalate-Mediated Lignin Oxidation for Efficient Enzymatic Production of Sugars and Generation of Electricity from Lignocellulosic Biomass. <i>Energy Technology</i> , 2017 , 5, 1179-1185	3.5	15
41	Organic acid catalyzed production of platform chemical 5-hydroxymethylfurfural from fructose: Process comparison and evaluation based on kinetic modeling. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 7430-7444	5.9	15
40	Construction of electron transfer chains with methylene blue and ferric ions for direct conversion of lignocellulosic biomass to electricity in a wide pH range. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118578	21.8	14
39	Phenomenological modeling and evaluation of formic acid pretreatment of wheat straw with an extended combined severity factor for biomass fractionation and enzymatic saccharification to produce bioethanol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 81, 140-149	5.3	13
38	Visualizing cellulase adsorption and quantitatively determining cellulose accessibility with an updated fungal cellulose-binding module-based fluorescent probe protein. <i>Biotechnology for Biofuels</i> , 2018 , 11, 105	7.8	12
37	Studying Nonproductive Adsorption Ability and Binding Approach of Cellobiohydrolase to Lignin during Bioconversion of Lignocellulose. <i>Energy & Fuels</i> , 2017 , 31, 14393-14400	4.1	12
36	Single-Stage Pulping of Sugarcane Bagasse with Peracetic Acid. <i>Journal of Wood Chemistry and Technology</i> , 2011 , 31, 1-25	2	12
35	Enzymatic ethanolysis of fish oil for selective concentration of polyunsaturated fatty acids (PUFAs) with flexible production of corresponding glycerides and ethyl esters. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 2399-2405	3.5	11
34	Kinetic modeling of fermentative production of 1, 3-propanediol by <i>Klebsiella pneumoniae</i> HR526 with consideration of multiple product inhibitions. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 169, 312-26	3.2	11
33	Evaluation of the mass transfer effects on delignification kinetics of atmospheric acetic acid fractionation of sugarcane bagasse with a shrinking-layer model. <i>Bioresource Technology</i> , 2018 , 261, 52-61	11	10
32	Preparation of Epoxidized Fatty Acid Methyl Ester with in situ Auto-Catalyzed Generation of Performic Acid and the Influence of Impurities on Epoxidation. <i>Waste and Biomass Valorization</i> , 2018 , 9, 1881-1891	3.2	10

31	Engineering surface hydrophobicity improves activity of <i>Bacillus thermocatenulatus</i> lipase 2 enzyme. <i>Biotechnology Journal</i> , 2015 , 10, 1762-9	5.6	10
30	Conversion of Glucose to 5-Hydroxymethylfurfural by Co-catalysis of p-Toluenesulfonic Acid (pTSA) and Chlorides: A Comparison Based on Kinetic Modeling. <i>Waste and Biomass Valorization</i> , 2021 , 12, 3271-3286	3.2	9
29	Integration of heterologous 4-hydroxybenzoic acid transport proteins in <i>Rhodobacter sphaeroides</i> for enhancement of coenzyme Q10 production. <i>RSC Advances</i> , 2017 , 7, 17346-17352	3.7	8
28	Catalytic Conversion of Xylose to Furfural by p-Toluenesulfonic Acid (TSA) and Chlorides: Process Optimization and Kinetic Modeling. <i>Molecules</i> , 2021 , 26,	4.8	8
27	Hierarchy Nano- and Ultrastructure of Lignocellulose and Its Impact on the Bioconversion of Cellulose. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 117-151	1.1	7
26	A Weibull statistics-based lignocellulose saccharification model and a built-in parameter accurately predict lignocellulose hydrolysis performance. <i>Biotechnology Journal</i> , 2015 , 10, 1424-33	5.6	7
25	Exploration of sodium lignosulphonate's effects on lipid production by <i>Rhodospiridium toruloides</i> . <i>Process Biochemistry</i> , 2015 , 50, 424-431	4.8	7
24	Pretreatment of Rice Hulls for Cellulase Production by Solid Substrate FermentationView all notes. <i>Journal of Wood Chemistry and Technology</i> , 2007 , 27, 65-71	2	7
23	PRODUCTION OF 2,3-BUTANEDIOL BY <i>KLEBSIELLA PNEUMONIAE</i> FROM ENZYMATIC HYDROLYZATE OF SUGARCANE BAGASSE. <i>BioResources</i> , 2012 , 7,	1.3	7
22	Sustainable production of levulinic acid and its derivatives for fuel additives and chemicals: progress, challenges, and prospects. <i>Green Chemistry</i> , 2021 , 23, 9198-9238	10	7
21	Biofuels Production Development and Prospects in China. <i>Journal of Biobased Materials and Bioenergy</i> , 2010 , 4, 221-242	1.4	6
20	Kinetic modelling of acid-catalyzed liquid-phase dehydration of bio-based 2, 3-butanediol considering a newly identified by-product and an updated reaction network. <i>Chemical Engineering Journal</i> , 2020 , 389, 124451	14.7	5
19	Simulation and experimentation on the gas holdup characteristics of a novel oscillating airlift loop reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 704-710	3.5	5
18	Heterogeneity of lignocellulose must be considered for kinetic study: A case on formic acid fractionation of sugarcane bagasse with different pseudo-homogeneous kinetic models. <i>Renewable Energy</i> , 2020 , 162, 2246-2258	8.1	5
17	Coupling biomass pretreatment for enzymatic hydrolysis and direct biomass-to-electricity conversion with molybdovanadophosphoric heteropolyacids as anode electron transfer carriers. <i>Journal of Energy Chemistry</i> , 2021 , 58, 133-146	12	5
16	Haze to electricity: Efficiently harvesting electric energy from air pollutants by construction of bioinspired electron transport chains in light- and heat-driven liquid flow fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 420, 129716	14.7	5
15	Conversion of fatty acid methyl ester to epoxy plasticizer by auto-catalyzed in situ formation of performic acid: Kinetic modeling and application of the model. <i>Journal of Cleaner Production</i> , 2020 , 259, 120791	10.3	4
14	Life cycle assessment of organosolv biorefinery designs with the complete use of biomass. <i>Energy Conversion and Management</i> , 2021 , 246, 114653	10.6	4

13	Ferricyanide and vanadyl (V) mediated electron transfer for converting lignin to electricity by liquid flow fuel cell with power density reaching 200 mW/cm ² . <i>Applied Energy</i> , 2021 , 304, 117927	10.7	4
12	A novel strategy for 1,3-propanediol recovery from fermentation broth and control of product colority using scraped thin-film evaporation for desalination. <i>RSC Advances</i> , 2015 , 5, 48269-48274	3.7	3
11	Overexpressing CCW12 in <i>Saccharomyces cerevisiae</i> enables highly efficient ethanol production from lignocellulose hydrolysates. <i>Bioresource Technology</i> , 2021 , 337, 125487	11	3
10	Production of biojet fuels from biomass 2019 , 127-165		1
9	All-iron ions mediated electron transfer for biomass pretreatment coupling with direct generation of electricity from lignocellulose. <i>Bioresource Technology</i> , 2022 , 344, 126189	11	1
8	Insight into the negative effects of lignin on enzymatic hydrolysis of cellulose for biofuel production via selective oxidative delignification and inhibitive actions of phenolic model compounds. <i>Renewable Energy</i> , 2022 , 185, 196-207	8.1	1
7	Phenomenological Modeling of Formic Acid Fractionation of Sugarcane Bagasse by Integration of Operation Parameters as an Extended Combined Severity Factor. <i>Molecules</i> , 2021 , 26,	4.8	1
6	Asymmetric acidic-alkaline design achieves high power density for a direct ascorbate liquid fuel cell without using noble metal catalysts. <i>Energy Conversion and Management</i> , 2022 , 255, 115343	10.6	1
5	Synthesis, characterization and application of a new biomass-based antioxidant derived from vanillin and methyl ethyl ketone. <i>Journal of Cleaner Production</i> , 2021 , 316, 128315	10.3	0
4	Response mechanisms of <i>Saccharomyces cerevisiae</i> to the stress factors present in lignocellulose hydrolysate and strategies for constructing robust strains. 2022 , 15, 28		0
3	Promoting transfer of endogenous electrons well increases the carbon and energy efficiency of lignocellulosic biomass conversion to fuels and chemicals. <i>Energy Conversion and Management</i> , 2022 , 258, 115552	10.6	0
2	Deconstruction of Lignocellulose Recalcitrance by Organosolv Fractionating Pretreatment for Enzymatic Hydrolysis 2021 , 23-56		
1	Chemicals, Materials, and Catalysts from Natural Renewable Lignocelluloses. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-2	2.4	