Yong Xu

List of Publications by Citations

116	1,399	21	31
papers	citations	h-index	g-index
135	2,114	6.7	5.74
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
116	Co-production of functional xylooligosaccharides and fermentable sugars from corncob with effective acetic acid prehydrolysis. *Bioresource Technology*, **2017**, 234, 343-349	11	84
115	Resolving the formidable barrier of oxygen transferring rate (OTR) in ultrahigh-titer bioconversion/biocatalysis by a sealed-oxygen supply biotechnology (SOS). *Biotechnology for Biofuels*, **2020**, 13, 1	7.8	71
114	Integrative process for sugarcane bagasse biorefinery to co-produce xylooligosaccharides and gluconic acid. *Bioresource Technology*, **2019**, 282, 81-87	11	60
113	Detoxification of corn stover prehydrolyzate by trialkylamine extraction to improve the ethanol production with Pichia stipitis CBS 5776. *Bioresource Technology*, **2011**, 102, 1663-8	11	52
112	Current and future emissions of primary pollutants from coal-fired power plants in Shaanxi, China. *Science of the Total Environment*, **2017**, 595, 505-514	10.2	44
111	Improving the performance of cell biocatalysis and the productivity of xylonic acid using a compressed oxygen supply. *Biochemical Engineering Journal*, **2015**, 93, 196-199	4.2	44
110	Production of Xylooligosaccharides from Waste Xylan, Obtained from Viscose Fiber Processing, by Selective Hydrolysis Using Concentrated Acetic Acid. *Journal of Wood Chemistry and Technology*, **2017**, 37, 1-9	2	37
109	An integrated process to produce ethanol, vanillin, and xylooligosaccharides from Camellia oleifera shell. *Carbohydrate Research*, **2013**, 382, 52-7	2.9	35
108	Bio-utilization of cheese manufacturing wastes (cheese whey powder) for bioethanol and specific product (galactonic acid) production via a two-step bioprocess. *Bioresource Technology*, **2019**, 272, 70-76	11	35
107	Enhanced Xylooligosaccharides Yields and Enzymatic Hydrolyzability of Cellulose using Acetic Acid Catalysis of Poplar Sawdust. *Journal of Wood Chemistry and Technology*, **2018**, 38, 371-384	2	34
106	Improvement of fermentation performance of Gluconobacter oxydans by combination of enhanced oxygen mass transfer in compressed-oxygen-supplied sealed system and cell-recycle technique. *Bioresource Technology*, **2017**, 244, 1137-1141	11	33
105	An eco-friendly biorefinery strategy for xylooligosaccharides production from sugarcane bagasse using cellulosic derived gluconic acid as efficient catalyst. *Bioresource Technology*, **2019**, 289, 121755	11	30
104	Eco-friendly consolidated process for co-production of xylooligosaccharides and fermentable sugars using self-providing xylonic acid as key pretreatment catalyst. *Biotechnology for Biofuels*, **2019**, 12, 272	7.8	30
103	An integrated biorefinery process for adding values to corncob in co-production of xylooligosaccharides and glucose starting from pretreatment with gluconic acid. *Bioresource Technology*, **2020**, 307, 123200	11	28
102	Gluconobacter oxydans (ATCC 621H) catalyzed oxidation of furfural for detoxification of furfural and bioproduction of furoic acid. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 1285-1289	3.5	26
101	Simultaneous Separation and Quantification of Linear Xylo- and Cello-Oligosaccharides Mixtures in Lignocellulosics Processing Products on High-Performance Anion-Exchange Chromatography Coupled with Pulsed Amperometric Detection. *BioResources*, **2013**, 8,	1.3	26
100	Advances in Valorization of Lignocellulosic Biomass towards Energy Generation. *Catalysts*, **2021**, 11, 309	4	25

99	Further Exploration of Sucrose-Citric Acid Adhesive: Investigation of Optimal Hot-Pressing Conditions for Plywood and Curing Behavior. *Polymers*, **2019**, 11,	4.5	22
98	Spatial and temporal variations in criteria air pollutants in three typical terrain regions in Shaanxi, China, during 2015. *Air Quality, Atmosphere and Health*, **2018**, 11, 95-109	5.6	22
97	Process for calcium xylonate production as a concrete admixture derived from in-situ fermentation of wheat straw pre-hydrolysate. *Bioresource Technology*, **2018**, 261, 288-293	11	21
96	Effect of ascorbic acid assisted dilute acid pretreatment on lignin removal and enzyme digestibility of agricultural residues. *Renewable Energy*, **2021**, 163, 732-739	8.1	21
95	Comparison of selective acidolysis of xylan and enzymatic hydrolysability of cellulose in various lignocellulosic materials by a novel xylonic acid catalysis method. *Bioresource Technology*, **2020**, 304, 122943	11	20
94	Efficient Preparation of Xylonic Acid from Xylonate Fermentation Broth by Bipolar Membrane Electrodialysis. *Applied Biochemistry and Biotechnology*, **2019**, 187, 396-406	3.2	20
93	Cause analysis of the effects of acid-catalyzed steam-exploded corn stover prehydrolyzate on ethanol fermentation by Pichia stipitis CBS 5776. *Bioprocess and Biosystems Engineering*, **2014**, 37, 2215-22	3.7	20
92	Integrated production of gluconic acid and xylonic acid using dilute acid pretreated corn stover by two-stage fermentation. *Biochemical Engineering Journal*, **2018**, 137, 18-22	4.2	19
91	One-step continuous/semi-continuous whole-cell catalysis production of glycolic acid by a combining bioprocess with in-situ cell recycling and electrodialysis. *Bioresource Technology*, **2019**, 273, 515-520	11	19
90	Enhancement in xylonate production from hemicellulose pre-hydrolysate by powdered activated carbon treatment. *Bioresource Technology*, **2020**, 316, 123944	11	18
89	Upgrading Pectin Production from Apple Pomace by Acetic Acid Extraction. *Applied Biochemistry and Biotechnology*, **2019**, 187, 1300-1311	3.2	18
88	Integrated process for scalable bioproduction of glycolic acid from cell catalysis of ethylene glycol. *Bioresource Technology*, **2018**, 268, 402-407	11	17
87	Integrated Production of Xylonic Acid and Bioethanol from Acid-Catalyzed Steam-Exploded Corn Stover. *Applied Biochemistry and Biotechnology*, **2015**, 176, 1370-81	3.2	16
86	Efficient coproduction of gluconic acid and xylonic acid from lignocellulosic hydrolysate by Zn(II)-selective inhibition on whole-cell catalysis by Gluconobacter oxydans. *Bioresource Technology*, **2017**, 243, 855-859	11	16
85	A comparative study of lignocellulosic nanofibrils isolated from celery using oxalic acid hydrolysis followed by sonication and mechanical fibrillation. *Cellulose*, **2019**, 26, 5237-5246	5.5	15
84	Cost-practical of glycolic acid bioproduction by immobilized whole-cell catalysis accompanied with compressed oxygen supplied to enhance mass transfer. *Bioresource Technology*, **2019**, 283, 326-331	11	15
83	Simultaneous Bioconversion of Xylose and Glycerol to Xylonic Acid and 1,3-Dihydroxyacetone from the Mixture of Pre-Hydrolysates and Ethanol-Fermented Waste Liquid by Gluconobacter oxydans. *Applied Biochemistry and Biotechnology*, **2016**, 178, 1-8	3.2	14
82	Degradation Profiles of Non-lignin Constituents of Corn Stover from Dilute Sulfuric Acid Pretreatment. *Journal of Wood Chemistry and Technology*, **2016**, 36, 192-204	2	14

81	Draft Genome Sequence of Gluconobacter oxydans NL71, a Strain That Efficiently Biocatalyzes Xylose to Xylonic Acid at a High Concentration. *Genome Announcements*, **2015**, 3,		13
80	Co-production of xylooligosaccharides and monosaccharides from poplar by a two-step acetic acid and sodium chlorite pretreatment. *Industrial Crops and Products*, **2020**, 152, 112500	5.9	13
79	Hybrid films based on holistic celery nanocellulose and lignin/hemicellulose with enhanced mechanical properties and dye removal. *International Journal of Biological Macromolecules*, **2020**, 147, 699-705	7.9	13
78	A One-Step Method for the Simultaneous Determination of Five Wood Monosaccharides and the Corresponding Aldonic Acids in Fermentation Broth Using High-Performance Anion-Exchange Chromatography Coupled with a Pulsed Amperometric Detector. *Journal of Wood Chemistry and Technology*, **2014**, 34, 67-74	2	13
77	Electrodialytic bioproduction of xylonic acid in a bioreactor of supplied-oxygen intensification by using immobilized whole-cell Gluconobacter oxydans as biocatalyst. *Bioresource Technology*, **2019**, 282, 378-383	11	12
76	Improving the performance of cell biocatalysis and the productivity of acetoin from 2,3-butanediol using a compressed oxygen supply. *Process Biochemistry*, **2018**, 64, 46-50	4.8	12
75	Improving the production yield and productivity of 1,3-dihydroxyacetone from glycerol fermentation using Gluconobacter oxydans NL71 in a compressed oxygen supply-sealed and stirred tank reactor (COS-SSTR). *Bioprocess and Biosystems Engineering*, **2016**, 39, 1315-8	3.7	12
74	Factor Based Separation Characteristics of Bio-derived Chemicals Present in Lignocellulosic Hydrolysates Using Vacuum Distillation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2406-2413	8.3	12
73	A novel recyclable furoic acid-assisted pretreatment for sugarcane bagasse biorefinery in co-production of xylooligosaccharides and glucose. *Biotechnology for Biofuels*, **2021**, 14, 35	7.8	12
72	Continuous co-production of biomass and bio-oxidized metabolite (sorbose) using Gluconobacter oxydans in a high-oxygen tension bioreactor. *Bioresource Technology*, **2019**, 277, 221-224	11	11
71	Difference analysis of the enzymatic hydrolysis performance of acid-catalyzed steam-exploded corn stover before and after washing with water. *Bioprocess and Biosystems Engineering*, **2016**, 39, 1619-26	3.7	10
70	Process for the successive production of calcium galactonate crystals by Gluconobacter oxydans. *Bioresource Technology*, **2018**, 261, 458-460	11	10
69	Production of xylo-oligosaccharides from poplar by acetic acid pretreatment and its impact on inhibitory effect of poplar lignin. *Bioresource Technology*, **2021**, 323, 124593	11	10
68	Improving techno-economics of bioproduct glycolic acid by successive recycled-cell catalysis of ethylene glycol with Gluconobacter oxydans. *Bioprocess and Biosystems Engineering*, **2018**, 41, 1555-1559	3.7	9
67	Co-preparation of pectin and cellulose from apple pomace by a sequential process. *Journal of Food Science and Technology*, **2019**, 56, 4091-4100	3.3	9
66	Effects of Inhibitors on the Transcriptional Profiling of NL71 Genes after Biooxidation of Xylose into Xylonate. *Frontiers in Microbiology*, **2017**, 8, 716	5.7	9
65	Transcriptome and metabolome analysis of Pichia stipitis to three representative lignocellulosic inhibitors. *Archives of Microbiology*, **2019**, 201, 581-589	3	9
64	Integration of acetic acid catalysis with one-pot protic ionic liquid configuration to achieve high-efficient biorefinery of poplar biomass. *Green Chemistry*, **2021**, 23, 6036-6049	10	9

63	Valorization of apple pomace using a two-step slightly acidic processing strategy. *Renewable Energy*, **2020**, 152, 793-798	8.1	8
62	Catalytic valorization of hardwood for enhanced xylose-hydrolysate recovery and cellulose enzymatic efficiency via synergistic effect of Fe and acetic acid. *Biotechnology for Biofuels*, **2019**, 12, 248	7.8	8
61	Separation of xylo-oligosaccharides from enzymatic hydrolytes using membrane reactor. *Central South University*, **2003**, 10, 122-125		8
60	Bioprocess Intensification for Whole-Cell Catalysis of Catabolized Chemicals with 2,4-Dinitrophenol Uncoupling. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15782-15790	8.3	7
59	Optimization of selective acidolysis pretreatment for the valorization of wheat straw by a combined chemical and enzymatic process. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 694-701	3.5	7
58	Investigation on decolorization kinetics and thermodynamics of lignocellulosic xylooligosaccharides by highly selective adsorption with Amberlite XAD-16N. *Food Chemistry*, **2020**, 310, 125934	8.5	7
57	Alkaline post-incubation improves the saccharification of poplar after hydrogen peroxide-acetic acid pretreatment. *Biotechnology for Biofuels*, **2021**, 14, 151	7.8	7
56	A cost-practical cell-recycling process for xylonic acid bioproduction from acidic lignocellulosic hydrolysate with whole-cell catalysis of Gluconobacter oxydans. *Bioresource Technology*, **2021**, 333, 125157	11	7
55	Improvement of nutritional quality of soybean meal by Fe(II)-assisted acetic acid treatment. *Food Chemistry*, **2019**, 283, 475-480	8.5	6
54	Enhancement of Gluconobacter oxydans Resistance to Lignocellulosic-Derived Inhibitors in Xylonic Acid Production by Overexpressing Thioredoxin. *Applied Biochemistry and Biotechnology*, **2020**, 191, 1072-1083	3.2	6
53	Construction of physically crosslinked cellulose nanofibrils/alkali lignin/montmorillonoite/polyvinyl alcohol network hydrogel and its application in methylene blue removal. *Cellulose*, **2021**, 28, 5531	5.5	6
52	Two-step acetic acid/sodium acetate and xylanase hydrolysis for xylooligosaccharides production from corncob. *Bioresource Technology*, **2021**, 342, 125979	11	6
51	Bioconversion of 5-Hydroxymethylfurfural (HMF) to 2,5-Furandicarboxylic Acid (FDCA) by a Native Obligate Aerobic Bacterium, Acinetobacter calcoaceticus NL14. *Applied Biochemistry and Biotechnology*, **2020**, 192, 455-465	3.2	5
50	Characteristics and Kinetics of the Aldonic Acids Production using Whole-cell catalysis of Gluconobacter oxydans. *BioResources*, **2015**, 10,	1.3	5
49	A novel natural lignocellulosic biosorbent of sunflower stem-pith for textile cationic dyes adsorption. *Journal of Cleaner Production*, **2021**, 331, 129878	10.3	5
48	High solid loading enzymatic hydrolysis of acetic acid-peroxide/acetic acid pretreated poplar and cellulase recycling. *Bioresource Technology*, **2021**, 340, 125624	11	5
47	A two-step bioprocessing strategy in pentonic acids production from lignocellulosic pre-hydrolysate. *Bioprocess and Biosystems Engineering*, **2017**, 40, 1581-1587	3.7	4
46	Preparation of highly flexible and sustainable lignin-rich nanocellulose film containing xylonic acid (XA), and its application as an antibacterial agent. *International Journal of Biological Macromolecules*, **2020**, 163, 1565-1571	7.9	4

45	Comparison of Biological and Chemical Pretreatment on Coproduction of Pectin and Fermentable Sugars from Apple Pomace. *Applied Biochemistry and Biotechnology*, **2020**, 190, 129-137	3.2	4
44	Delignification of poplar for xylo-oligosaccharides production using lactic acid catalysis. *Bioresource Technology*, **2021**, 342, 125943	11	4
43	Enhancing Prehydrolysates Fermentability by Adding Nucleophilic Amino Acids and Proteins in Biomass Pretreatment. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7892-7900	8.3	3
42	Quantitative lipidomic insights in the inhibitory response of Pichia stipitis to vanillin, 5-hydroxymethylfurfural, and acetic acid. *Biochemical and Biophysical Research Communications*, **2018**, 497, 7-12	3.4	3
41	Dilute Sulfuric Acid Pretreatment and Enzymatic Hydrolysis of Corn Stover into Fermentable Sugars. *Advanced Materials Research*, **2012**, 535-537, 2462-2468	0.5	3
40	Selective Production of Xylooligosaccharides by Xylan Hydrolysis Using a Novel Recyclable and Separable Furoic Acid. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 660266	5.8	3
39	Elucidation of oil-in-water emulsions stabilized with celery cellulose. *Fuel*, **2021**, 291, 120210	7.1	3
38	Alkaline incubation improves the saccharification of poplar after sodium chlorite pretreatment with ultra-low cellulase loading. *Renewable Energy*, **2021**, 170, 517-524	8.1	3
37	Effective reduction of antinutritional factors in soybean meal by acetic acid-catalyzed processing. *Journal of Food Processing and Preservation*, **2018**, 42, e13775	2.1	3
36	A Precise Method for Processing Data to Determine the Dissociation Constants of Polyhydroxy Carboxylic Acids via Potentiometric Titration. *Applied Biochemistry and Biotechnology*, **2017**, 183, 1426-1438	2.2	2
35	Directing cell catalysis of glucose to 2-keto-d-gluconic acid using Gluconobacter oxydans NL71. *Process Biochemistry*, **2020**, 94, 365-369	4.8	2
34	A techno-practical method for overcoming the biotoxicity and volatility obstacles of butanol and butyric acid during whole-cell catalysis by. *Biotechnology for Biofuels*, **2020**, 13, 102	7.8	2
33	Contribution of biogenic sources to secondary organic aerosol in the summertime in Shaanxi, China. *Chemosphere*, **2020**, 254, 126815	8.4	2
32	Combined acetic acid and enzymatic hydrolysis for xylooligosaccharides and monosaccharides production from poplar. *Biomass and Bioenergy*, **2022**, 158, 106377	5.3	2
31	Directional enhancement of 2-keto-gluconic acid production from enzymatic hydrolysate by acetic acid-mediated bio-oxidation with Gluconobacter oxydans.. *Bioresource Technology*, **2022**, 348, 126811	11	2
30	Green integration of alcohol-mediated hemicelluloses separation and alkali recycling (AHSAR) technologies in a viscose fiber plant. *Separation and Purification Technology*, **2020**, 237, 116359	8.3	2
29	Comparison of various organic acids for xylo-oligosaccharide productions in terms of pKa values and combined severity. *Biotechnology for Biofuels*, **2021**, 14, 69	7.8	2
28	Smart removal of monosaccharide contaminants in xylo-oligosaccharide slurry using sandwich-integration bioprocess of whole-cell catalysis combined with electrodialysis separation. *Renewable Energy*, **2021**, 168, 1149-1156	8.1	2

27	Directed regulation of whole-cell catalysis for high-quality galactonic acid bio-preparation and characterization by Ca2+. *Fuel*, **2021**, 285, 119134	7.1	2
26	The processing-module assembly strategy for continuous bio-oxidation of furan chemicals by integrated and coupled biotechnology. *Green Chemistry*, **2021**, 23, 1330-1336	10	2
25	Effect of Dilute Acetic Acid Hydrolysis on Xylooligosaccharide Production and the Inhibitory Effect of Cellulolytic Enzyme Lignin from Poplar. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11361-11371	8.3	2
24	Revalorization of sunflower stalk pith as feedstock for the coproduction of pectin and glucose using a two-step dilute acid pretreatment process. *Biotechnology for Biofuels*, **2021**, 14, 194	7.8	2
23	Comprehensive investigation of multiples factors in sulfuric acid pretreatment on the enzymatic hydrolysis of waste straw cellulose. *Bioresource Technology*, **2021**, 340, 125740	11	2
22	Efficient production of xylooligosaccharides and fermentable sugars from corncob by propionic acid and enzymatic hydrolysis. *Bioresource Technology*, **2021**, 342, 125680	11	2
21	p-Toluenesulfonic acid combined with hydrogen peroxide-assisted pretreatment improves the production of fermentable sugars from walnut (Juglans regia L.) shells.. *Bioresource Technology*, **2022**, 355, 127300	11	2
20	Optimized production of xylooligosaccharides from poplar: A biorefinery strategy with sequential acetic acid/sodium acetate hydrolysis followed by xylanase hydrolysis.. *Bioresource Technology*, **2022**, 347, 126683	11	1
19	Aliphatic extractive effects on acetic acid catalysis of typical agricultural residues to xylo-oligosaccharide and enzymatic hydrolyzability of cellulose. *Biotechnology for Biofuels*, **2021**, 14, 97	7.8	1
18	Comparative analysis of various waste cooking oils for esterification and transesterification processes to produce biodiesel. *Green Chemistry Letters and Reviews*, **2021**, 14, 462-473	4.7	1
17	Quantitative proteomic analysis of xylose fermentation strain Pichia stipitis CBS 5776 to lignocellulosic inhibitors acetic acid, vanillin and 5-hydroxymethylfurfural. *FEMS Microbiology Letters*, **2018**, 365,	2.9	1
16	Cascade temperature-arising strategy for xylo-oligosaccharide production from lignocellulosic biomass with acetic acid catalyst recycling operation. *Renewable Energy*, **2021**, 175, 625-637	8.1	1
15	Influence of oxygen transfer and uptake rates on xylonic acid production from xylose by Gluconobacter oxydans. *Biochemical Engineering Journal*, **2021**, 176, 108192	4.2	1
14	Detoxification of lignocellulosic prehydrolyzate by lignin nanoparticles prepared from biorefinery biowaste to improve the ethanol production.. *Bioprocess and Biosystems Engineering*, **2022**, 1	3.7	1
13	Xylooligosaccharides Production from Xylan Hydrolysis Using Recyclable Strong Acidic Cationic Exchange Resin as Solid Acid Catalyst.. *Applied Biochemistry and Biotechnology*, **2022**, 1	3.2	1
12	Multifactorial effects of gluconic acid pretreatment of waste straws on enzymatic hydrolysis performance.. *Bioresource Technology*, **2021**, 126617	11	0
11	Reinforcing sorbitol bio-oxidative conversion with Gluconobacter oxydans whole-cell catalysis by acetate-assistance. *Biochemical Engineering Journal*, **2022**, 179, 108328	4.2	0
10	Nuclear magnetic resonance analysis of ascorbic acid assisted lignocellulose decomposition in dilute acid pretreatment and its stimulation on enzymatic hydrolysis. *Bioresource Technology*, **2022**, 343, 126147	11	0

9	Pilot Scale Elimination of Phenolic Cellulase Inhibitors From Alkali Pretreated Wheat Straw for Improved Cellulolytic Digestibility to Fermentable Saccharides. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 658159	5.8	0
8	In Situ Chemical Locking of Acetates During Xylo-Oligosaccharide Preparation by Lignocellulose Acidolysis. *Applied Biochemistry and Biotechnology*, **2021**, 193, 2602-2615	3.2	0
7	A Remixed-Fermentation Technique for the Simultaneous Bioconversion of Corncob C6 and C5 Sugars to Probiotic Bacillus subtilis. *Applied Biochemistry and Biotechnology*, **2021**, 193, 2580-2590	3.2	0
6	Environmental bio-oxidation of toxic furan by the co-recycling of waste fermented broth and rest cells. *Biochemical Engineering Journal*, **2021**, 176, 108193	4.2	0
5	Purification of acidic lignocellulose hydrolysate using anion-exchange resin: Multicomponent adsorption, kinetic and thermodynamic study.. *Bioresource Technology*, **2022**, 351, 126979	11	0
4	Lignin removal improves xylooligosaccharides production from poplar by acetic acid hydrolysis.. *Bioresource Technology*, **2022**, 127190	11	0
3	Comparison of pH-controlled lactic acid hydrolysis and xylanase hydrolysis for xylo-oligosaccharides production from delignified poplar. *Industrial Crops and Products*, **2022**, 182, 114902	5.9	0
2	One-step sodium bisulfate hydrolysis for efficient production of xylooligosaccharides from poplar.. *Bioresource Technology*, **2022**, 355, 127269	11	0
1	RSM-Modeling and Optimization of High Titer Functional Xylo-oligosaccharides Production by Edible Gluconic Acid Catalysis.. *Applied Biochemistry and Biotechnology*, **2022**, 1	3.2	