Jing Wu

List of Publications by Citations

74 papers	1,410 citations	20 h-index	35 g-index
88 ext. papers	1,695 ext. citations	4.8 avg, IF	4.88 L-index

#	Paper	IF	Citations
74	gamma-Cyclodextrin: a review on enzymatic production and applications. *Applied Microbiology and Biotechnology*, **2007**, 77, 245-55	5.7	154
73	Identification and characterization of bacterial cutinase. *Journal of Biological Chemistry*, **2008**, 283, 25854-62	5.4	142
72	Engineered Thermobifida fusca cutinase with increased activity on polyester substrates. *Biotechnology Journal*, **2011**, 6, 1230-9	5.6	90
71	Improving the thermostability and catalytic efficiency of Bacillus deramificans pullulanase by site-directed mutagenesis. *Applied and Environmental Microbiology*, **2013**, 79, 4072-7	4.8	69
70	Multigene disruption in undomesticated Bacillus subtilis ATCC 6051a using the CRISPR/Cas9 system. *Scientific Reports*, **2016**, 6, 27943	4.9	67
69	High-level extracellular protein production in Bacillus subtilis using an optimized dual-promoter expression system. *Microbial Cell Factories*, **2017**, 16, 32	6.4	58
68	High-level extracellular production of □cyclodextrin glycosyltransferase with recombinant Escherichia coli BL21 (DE3). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 3797-802	5.7	52
67	Enhanced extracellular production of recombinant Bacillus deramificans pullulanase in Escherichia coli through induction mode optimization and a glycine feeding strategy. *Bioresource Technology*, **2014**, 172, 174-179	11	44
66	Extracellular location of Thermobifida fusca cutinase expressed in Escherichia coli BL21(DE3) without mediation of a signal peptide. *Applied and Environmental Microbiology*, **2013**, 79, 4192-8	4.8	43
65	Mutations at subsite -3 in cyclodextrin glycosyltransferase from Paenibacillus macerans enhancing alpha-cyclodextrin specificity. *Applied Microbiology and Biotechnology*, **2009**, 83, 483-90	5.7	42
64	Calcium leads to further increase in glycine-enhanced extracellular secretion of recombinant alpha-cyclodextrin glycosyltransferase in Escherichia coli. *Journal of Agricultural and Food Chemistry* , **2009**, 57, 6231-7	5.7	39
63	Mutations of Lysine 47 in cyclodextrin glycosyltransferase from Paenibacillus macerans enhance beta-cyclodextrin specificity. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 8386-91	5.7	38
62	Enhanced extracellular expression of Bacillus stearothermophilus □amylase in Bacillus subtilis through signal peptide optimization, chaperone overexpression and □amylase mutant selection. *Microbial Cell Factories*, **2019**, 18, 69	6.4	33
61	Enhanced extracellular pullulanase production in Bacillus subtilis using protease-deficient strains and optimal feeding. *Applied Microbiology and Biotechnology*, **2018**, 102, 5089-5103	5.7	31
60	Enhanced production of □cyclodextrin by optimization of reaction of □cyclodextrin glycosyltransferase as well as synchronous use of isoamylase. *Food Chemistry*, **2013**, 141, 3072-6	8.5	30
59	Comparative metabolomics analysis of the key metabolic nodes in propionic acid synthesis in Propionibacterium acidipropionici. *Metabolomics*, **2015**, 11, 1106-1116	4.7	26
58	Glycine and Triton X-100 enhanced secretion of recombinant □CGTase mediated by OmpA signal peptide in Escherichia coli. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 1128-1134	3.1	23

57	Enhancing the Thermostability of Serratia plymuthica Sucrose Isomerase Using B-Factor-Directed Mutagenesis. *PLoS ONE*, **2016**, 11, e0149208	3.7	21
56	Enhanced extracellular production of recombinant proteins in Escherichia coli by co-expression with Bacillus cereus phospholipase C. *Microbial Cell Factories*, **2017**, 16, 24	6.4	20
55	Efficient extracellular expression of Bacillus deramificans pullulanase in Brevibacillus choshinensis. *Journal of Industrial Microbiology and Biotechnology*, **2016**, 43, 495-504	4.2	20
54	Improving the thermostability and enhancing the Ca(2+) binding of the maltohexaose-forming □amylase from Bacillus stearothermophilus. *Journal of Biotechnology*, **2016**, 222, 65-72	3.7	19
53	Enhanced maltose production through mutagenesis of acceptor binding subsite +2 in Bacillus stearothermophilus maltogenic amylase. *Journal of Biotechnology*, **2016**, 217, 53-61	3.7	19
52	A xylanase from Streptomyces sp. FA1: heterologous expression, characterization, and its application in Chinese steamed bread. *Journal of Industrial Microbiology and Biotechnology*, **2016**, 43, 663-70	4.2	18
51	Enhanced 2- O-□-D-Glucopyranosyl-l-ascorbic Acid Synthesis through Iterative Saturation Mutagenesis of Acceptor Subsite Residues in Bacillus stearothermophilus NO2 Cyclodextrin Glycosyltransferase. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 9052-9060	5.7	18
50	Pyridoxine Supplementation Improves the Activity of Recombinant Glutamate Decarboxylase and the Enzymatic Production of Gama-Aminobutyric Acid. *PLoS ONE*, **2016**, 11, e0157466	3.7	18
49	Phosphoenolpyruvate:glucose phosphotransferase system modification increases the conversion rate during L-tryptophan production in Escherichia coli. *Journal of Industrial Microbiology and Biotechnology*, **2017**, 44, 1385-1395	4.2	16
48	Highly efficient production of Clostridium cellulolyticum H10 D-psicose 3-epimerase in Bacillus subtilis and use of these cells to produce D-psicose. *Microbial Cell Factories*, **2018**, 17, 188	6.4	16
47	L-Tryptophan Production in Escherichia coli Improved by Weakening the Pta-AckA Pathway. *PLoS ONE*, **2016**, 11, e0158200	3.7	15
46	Extracellular expression of natural cytosolic arginine deiminase from Pseudomonas putida and its application in the production of L-citrulline. *Bioresource Technology*, **2015**, 196, 176-83	11	14
45	Efficient Expression of Maltohexaose-Forming -Amylase from in SP3 and Its Use in Maltose Production. *BioMed Research International*, **2017**, 2017, 5479762	3	13
44	A novel xylanase from Streptomyces sp. FA1: Purification, characterization, identification, and heterologous expression. *Biotechnology and Bioprocess Engineering*, **2014**, 19, 8-17	3.1	13
43	Enhanced production of recombinant Escherichia coli glutamate decarboxylase through optimization of induction strategy and addition of pyridoxine. *Bioresource Technology*, **2015**, 198, 63-9	11	12
42	Enhancing the □Cyclodextrin Specificity of Cyclodextrin Glycosyltransferase from Paenibacillus macerans by Mutagenesis Masking Subsite -7. *Applied and Environmental Microbiology*, **2016**, 82, 2247-2255	4.8	12
41	Effect of organic solvents on the yield and specificity of cyclodextrins by recombinant cyclodextrin glucanotransferase (CGTase) from Anaerobranca gottschalkii. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2013**, 77, 147-153	1.7	12
40	Magnesium ions increase the activity of Bacillus deramificans pullulanase expressed by Brevibacillus choshinensis. *Applied Microbiology and Biotechnology*, **2016**, 100, 7115-23	5.7	12

39	Improved Thermostability of Maltooligosyltrehalose Synthase from Arthrobacter ramosus by Directed Evolution and Site-Directed Mutagenesis. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 5587-5595	5.7	10
38	Cloning and expression of the sucrose phosphorylase gene in Bacillus subtilis and synthesis of kojibiose using the recombinant enzyme. *Microbial Cell Factories*, **2018**, 17, 23	6.4	9
37	Effects of Thermobifida fusca cutinase-carbohydrate-binding module fusion proteins on cotton bioscouring. *Biotechnology and Bioprocess Engineering*, **2011**, 16, 645-653	3.1	9
36	Enhanced Production of Recombinant Thermobifida fusca Isoamylase in Escherichia coli MDS42. *Applied Biochemistry and Biotechnology*, **2016**, 180, 464-476	3.2	9
35	Comparison of cutinases in enzymic deinking of old newsprint. *Cellulose*, **2017**, 24, 5089-5099	5.5	8
34	Improved production of cyclodextrin glycosyltransferase from Bacillus stearothermophilus NO2 in Escherichia coli via directed evolution. *Applied Microbiology and Biotechnology*, **2020**, 104, 173-185	5.7	8
33	A comparative study of maltooligosyltrehalose synthase from Sulfolobus acidocaldarius expressed in Pichia pastoris and Escherichia coli. *Process Biochemistry*, **2017**, 60, 35-41	4.8	6
32	Modification of Cyclodextrin Glycosyltransferase and Addition of Complexing Agents to Increase Cyclodextrin Production. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 12079-12085	5.7	6
31	Cyclodextrin enhanced the soluble expression of Bacillus clarkii CGTase in Escherichia coli. *BMC Biotechnology*, **2018**, 18, 72	3.5	6
30	Position 228 in Paenibacillus macerans cyclodextrin glycosyltransferase is critical for 2-O-d-glucopyranosyl-l-ascorbic acid synthesis. *Journal of Biotechnology*, **2017**, 247, 18-24	3.7	5
29	Cloning, expression, and characterization of polyamidase from Nocardia farcinica and its application to polyamide modification. *Biotechnology and Bioprocess Engineering*, **2013**, 18, 1067-1075	3.1	5
28	Modeling and optimization of cutinase production by recombinant Escherichia coli based on statistical experimental designs. *Korean Journal of Chemical Engineering*, **2010**, 27, 1233-1238	2.8	5
27	Improving the reversibility of thermal denaturation and catalytic efficiency of Bacillus licheniformis amylase through stabilizing a long loop in domain B. *PLoS ONE*, **2017**, 12, e0173187	3.7	5
26	Synergistic biodegradation of poly(ethylene terephthalate) using Microbacterium oleivorans and Thermobifida fusca cutinase. *Applied Microbiology and Biotechnology*, **2021**, 105, 4551-4560	5.7	5
25	High-efficiency expression of Sulfolobus acidocaldarius maltooligosyl trehalose trehalohydrolase in Escherichia coli through host strain and induction strategy optimization. *Bioprocess and Biosystems Engineering*, **2019**, 42, 345-354	3.7	5
24	Additional salt bridges improve the thermostability of 1,4-glucan branching enzyme. *Food Chemistry*, **2020**, 316, 126348	8.5	4
23	Effect of Leu on Disproportionation and Hydrolysis Activity in Bacillus stearothermophilus NO2 Cyclodextrin Glucosyltransferase. *Applied and Environmental Microbiology*, **2021**, 87, e0315120	4.8	4
22	Highly efficient extracellular expression of naturally cytoplasmic Leuconostoc mesenteroides sucrose phosphorylase. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 3135-3142	3.5	4

21	Improved Activity of Maltooligosyltrehalose Synthase through Directed Evolution. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 4456-4463	5.7	3
20	Characterization of a new 4,6-α-glucanotransferase from Limosilactobacillus fermentum NCC 3057 with ability of synthesizing low molecular mass isomalto-/maltopolysaccharide. *Food Bioscience*, **2022**, 46, 101514	4.9	3
19	Cyclodextrinase from Thermococcus sp expressed in Bacillus subtilis and its application in the preparation of maltoheptaose. *Microbial Cell Factories*, **2020**, 19, 157	6.4	3
18	Available strategies for improved expression of recombinant proteins in expression system: a review. *Critical Reviews in Biotechnology*, **2020**, 40, 1044-1058	9.4	3
17	A dual-functional aminopeptidase from Streptomyces canus T20 and its application in the preparation of small rice peptides. *International Journal of Biological Macromolecules*, **2021**, 167, 214-222	7.9	3
16	Directed Mutation of Two Key Amino Acid Residues Alters the Product Structure of the New 4,6-α-Glucanotransferase from. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 14680-14688	5.7	2
15	Current studies on the enzymatic preparation 2-O-α-d-glucopyranosyl-l-ascorbic acid with cyclodextrin glycosyltransferase. *Critical Reviews in Biotechnology*, **2019**, 39, 249-257	9.4	2
14	Enhanced Production of Soluble α-Amylase in through Chaperone Co-Expression, Heat Treatment and Fermentation Optimization. *Journal of Microbiology and Biotechnology*, **2021**, 31, 570-583	3.3	1
13	Enhanced extracellular Bacillus stearothermophilus α-amylase production in Bacillus subtilis by balancing the entire secretion process in an optimal strain. *Biochemical Engineering Journal*, **2021**, 168, 107948	4.2	1
12	Efficient secretory expression of Bacillus stearothermophilus β-cyclodextrin glycosyltransferase in Bacillus subtilis. *Journal of Biotechnology*, **2021**, 331, 74-82	3.7	1
11	Enhanced extracellular α-amylase production in Brevibacillus choshinensis by optimizing extracellular degradation and folding environment. *Journal of Industrial Microbiology and Biotechnology*, **2021**,	4.2	1
10	Chemical-biological degradation of polyethylene combining Baeyer–Villiger oxidation and hydrolysis reaction of cutinase. *Green Chemistry*, **2022**, 24, 2203-2211	10	1
9	Improved Production of sp. FA1 Xylanase in a Dual-Plasmid System.. *Current Issues in Molecular Biology*, **2021**, 43, 2289-2304	2.9	1
8	High yield synthesis of nigerooligosaccharides by transglycosylation catalyzed by α-glucosidase TaAglA from Thermoplasma acidophilum. *Food Bioscience*, **2022**, 47, 101582	4.9	0
7	Enhancing Extracellular Pullulanase Production in Bacillus subtilis Through dltB Disruption and Signal Peptide Optimization. *Applied Biochemistry and Biotechnology*, **2021**, 194, 1206	3.2	0
6	Enhanced the catalytic efficiency and thermostability of maltooligosyltrehalose synthase from Arthrobacter ramosus by directed evolution. *Biochemical Engineering Journal*, **2020**, 162, 107724	4.2	0
5	Adjusting the α(1-6) bond proportion of isomalto-/maltopolysaccharide by regulating the hydrophobicity of the acceptor site of 4,6-α-glucanotransferase. *Biochemical Engineering Journal*, **2022**, 108427	4.2	0
4	Enhancing the thermostability of d-allulose 3-epimerase from Clostridium cellulolyticum H10 via directed evolution. *Systems Microbiology and Biomanufacturing*,1		0

3	Trehalose promotes high-level heterologous expression of 4,6-α-glucanotransferase GtfR2 in Escherichia coli and mechanistic analysis.. *International Journal of Biological Macromolecules*, **2022**, 210, 315-323	7.9	0
2	Oxidative Degradation of pre-oxidated Polystyrene Plastics by Dye Decolorizing Peroxidases From Thermomonospora curvata and Nostocaceae. *Journal of Hazardous Materials*, **2022**, 129265	12.8	0
1	Recombinant expression, characterization and application of maltotetraohydrolase from Pseudomonas saccharophila. *Journal of the Science of Food and Agriculture*, **2020**, 100, 3456-3464	4.3	