Xuehong Zhang

List of Publications by Citations

114 papers	3,095 citations	32 h-index	52 g-index
124 ext. papers	3,645 ext. citations	5.2 avg, IF	5.61 L-index

#	Paper	IF	Citations
114	Immobilized ligninolytic enzymes: An innovative and environmental responsive technology to tackle dye-based industrial pollutants - A review. *Science of the Total Environment*, **2017**, 576, 646-659	10.2	264
113	Biotransformation of lignocellulosic materials into value-added products-A review. *International Journal of Biological Macromolecules*, **2017**, 98, 447-458	7.9	136
112	Hyperbranched Poly(amidoamine) as the Stabilizer and Reductant To Prepare Colloid Silver Nanoparticles in Situ and Their Antibacterial Activity. *Journal of Physical Chemistry C*, **2008**, 112, 2330-2336	3.8	132
111	Chitosan beads immobilized manganese peroxidase catalytic potential for detoxification and decolorization of textile effluent. *International Journal of Biological Macromolecules*, **2016**, 89, 181-9	7.9	121
110	Enhanced bio-catalytic performance and dye degradation potential of chitosan-encapsulated horseradish peroxidase in a packed bed reactor system. *Science of the Total Environment*, **2017**, 575, 1352-1360	10.2	108
109	Development of horseradish peroxidase-based cross-linked enzyme aggregates and their environmental exploitation for bioremediation purposes. *Journal of Environmental Management*, **2017**, 188, 137-143	7.9	88
108	Bio-based degradation of emerging endocrine-disrupting and dye-based pollutants using cross-linked enzyme aggregates. *Environmental Science and Pollution Research*, **2017**, 24, 7035-7041	5.1	87
107	Characterization of a phenazine-producing strain Pseudomonas chlororaphis GP72 with broad-spectrum antifungal activity from green pepper rhizosphere. *Current Microbiology*, **2007**, 54, 302-6	2.4	87
106	State-of-the-art protein engineering approaches using biological macromolecules: A review from immobilization to implementation view point. *International Journal of Biological Macromolecules*, **2018**, 108, 893-901	7.9	86
105	Comparative genomic analysis of 26 Sphingomonas and Sphingobium strains: Dissemination of bioremediation capabilities, biodegradation potential and horizontal gene transfer. *Science of the Total Environment*, **2017**, 609, 1238-1247	10.2	79
104	Development of silver nanoparticles loaded chitosan-alginate constructs with biomedical potentialities. *International Journal of Biological Macromolecules*, **2017**, 105, 393-400	7.9	74
103	Horseradish peroxidase-assisted approach to decolorize and detoxify dye pollutants in a packed bed bioreactor. *Journal of Environmental Management*, **2016**, 183, 836-842	7.9	69
102	Novel characteristics of horseradish peroxidase immobilized onto the polyvinyl alcohol-alginate beads and its methyl orange degradation potential. *International Journal of Biological Macromolecules*, **2017**, 105, 328-335	7.9	67
101	Phenazine-1-carboxylic acid is negatively regulated and pyoluteorin positively regulated bygacAinPseudomonassp. M18. *FEMS Microbiology Letters*, **2004**, 237, 41-47	2.9	67
100	Sensitive colorimetric detection of glucose and cholesterol by using Au@Ag core–shell nanoparticles. *RSC Advances*, **2016**, 6, 35001-35007	3.7	58
99	Macromolecular agents with antimicrobial potentialities: A drive to combat antimicrobial resistance. *International Journal of Biological Macromolecules*, **2017**, 103, 554-574	7.9	56
98	Horseradish peroxidase immobilization by copolymerization into cross-linked polyacrylamide gel and its dye degradation and detoxification potential. *International Journal of Biological Macromolecules*, **2018**, 113, 983-990	7.9	56

97	Bio-catalytic performance and dye-based industrial pollutants degradation potential of agarose-immobilized MnP using a Packed Bed Reactor System. *International Journal of Biological Macromolecules*, **2017**, 102, 582-590	7.9	51
96	Optimization of critical medium components using response surface methodology for phenazine-1-carboxylic acid production by Pseudomonas sp. M-18Q. *Journal of Bioscience and Bioengineering*, **2008**, 105, 232-7	3.3	51
95	Genetic engineering of Pseudomonas chlororaphis GP72 for the enhanced production of 2-Hydroxyphenazine. *Microbial Cell Factories*, **2016**, 15, 131	6.4	51
94	Reaction Mechanism and Degradation Pathway of Rhodamine 6G by Photocatalytic Treatment. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	48
93	Enhanced 2-phenylethanol production from L-phenylalanine via in situ product adsorption. *Biocatalysis and Biotransformation*, **2010**, 28, 259-266	2.5	48
92	Comparative genomic analysis and phenazine production of Pseudomonas chlororaphis, a plant growth-promoting rhizobacterium. *Genomics Data*, **2015**, 4, 33-42		47
91	Temperature-dependent expression of phzM and its regulatory genes lasI and ptsP in rhizosphere isolate Pseudomonas sp. strain M18. *Applied and Environmental Microbiology*, **2009**, 75, 6568-80	4.8	47
90	Enhanced production of 2-hydroxyphenazine in Pseudomonas chlororaphis GP72. *Applied Microbiology and Biotechnology*, **2011**, 89, 169-77	5.7	46
89	Engineering the central biosynthetic and secondary metabolic pathways of Pseudomonas aeruginosa strain PA1201 to improve phenazine-1-carboxylic acid production. *Metabolic Engineering* , **2015**, 32, 30-38	9.7	40
88	Rapid Prediction of Bacterial Heterotrophic Fluxomics Using Machine Learning and Constraint Programming. *PLoS Computational Biology*, **2016**, 12, e1004838	5	36
87	TiO/UV-assisted rhodamine B degradation: putative pathway and identification of intermediates by UPLC/MS. *Environmental Technology (United Kingdom)*, **2018**, 39, 1533-1543	2.6	35
86	Engineering Pseudomonas for phenazine biosynthesis, regulation, and biotechnological applications: a review. *World Journal of Microbiology and Biotechnology*, **2017**, 33, 191	4.4	33
85	4-Hydroxybenzoic acid-a versatile platform intermediate for value-added compounds. *Applied Microbiology and Biotechnology*, **2018**, 102, 3561-3571	5.7	33
84	Enhanced biosynthesis of phenazine-1-carboxamide by engineered Pseudomonas chlororaphis HT66. *Microbial Cell Factories*, **2018**, 17, 117	6.4	33
83	Toxicological Assessment and UV/TiO-Based Induced Degradation Profile of Reactive Black 5 Dye. *Environmental Management*, **2018**, 61, 171-180	3.1	32
82	iTRAQ-based quantitative proteomic analysis reveals potential factors associated with the enhancement of phenazine-1-carboxamide production in Pseudomonas chlororaphis P3. *Scientific Reports*, **2016**, 6, 27393	4.9	32
81	Mutagenicity, cytotoxicity and phytotoxicity evaluation of biodegraded textile effluent by fungal ligninolytic enzymes. *Water Science and Technology*, **2016**, 73, 2332-44	2.2	31
80	Gelatin-Immobilized Manganese Peroxidase with Novel Catalytic Characteristics and Its Industrial Exploitation for Fruit Juice Clarification Purposes. *Catalysis Letters*, **2016**, 146, 2221-2228	2.8	30

79	Genome sequence of Pseudomonas chlororaphis GP72, a root-colonizing biocontrol strain. *Journal of Bacteriology*, **2012**, 194, 1269-70	3.5	28
78	Metabolic engineering strategies for enhanced shikimate biosynthesis: current scenario and future developments. *Applied Microbiology and Biotechnology*, **2018**, 102, 7759-7773	5.7	24
77	Engineering and systems-level analysis of for production of phenazine-1-carboxamide using glycerol as the cost-effective carbon source. *Biotechnology for Biofuels*, **2018**, 11, 130	7.8	24
76	Developing genome-reduced Pseudomonas chlororaphis strains for the production of secondary metabolites. *BMC Genomics*, **2017**, 18, 715	4.5	23
75	Metabolic engineering pathways for rare sugars biosynthesis, physiological functionalities, and applications-a review. *Critical Reviews in Food Science and Nutrition*, **2018**, 58, 2768-2778	11.5	22
74	Investigation of relationship between lipid and Monascus pigment accumulation by extractive fermentation. *Journal of Biotechnology*, **2015**, 212, 167-73	3.7	21
73	Enhancement of phenazine-1-carboxylic acid production using batch and fed-batch culture of gacA inactivated Pseudomonas sp. M18G. *Bioresource Technology*, **2010**, 101, 3649-56	11	20
72	Elucidation of the co-metabolism of glycerol and glucose in Escherichia coli by genetic engineering, transcription profiling, and (13)C metabolic flux analysis. *Biotechnology for Biofuels*, **2016**, 9, 175	7.8	20
71	Biosynthesis of Monascus pigments by resting cell submerged culture in nonionic surfactant micelle aqueous solution. *Applied Microbiology and Biotechnology*, **2016**, 100, 7083-9	5.7	19
70	Kinetic characterization, thermo-stability and Reactive Red 195A dye detoxifying properties of manganese peroxidase-coupled gelatin hydrogel. *Water Science and Technology*, **2016**, 74, 1809-1820	2.2	19
69	The systematic modeling studies and free energy calculations of the phenazine compounds as anti-tuberculosis agents. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 4051-4069	3.6	19
68	Enhanced biosynthesis of arbutin by engineering shikimate pathway in Pseudomonas chlororaphis P3. *Microbial Cell Factories*, **2018**, 17, 174	6.4	19
67	Identification, synthesis and regulatory function of the N-acylated homoserine lactone signals produced by Pseudomonas chlororaphis HT66. *Microbial Cell Factories*, **2018**, 17, 9	6.4	18
66	Identification of biphenyl 2, 3-dioxygenase and its catabolic role for phenazine degradation in Sphingobium yanoikuyae B1. *Journal of Environmental Management*, **2017**, 204, 494-501	7.9	18
65	Production of trans-2,3-dihydro-3-hydroxyanthranilic acid by engineered Pseudomonas chlororaphis GP72. *Applied Microbiology and Biotechnology*, **2017**, 101, 6607-6613	5.7	18
64	Differential Regulation of rsmA Gene on Biosynthesis of Pyoluteorin and Phenazine-1-carboxylic Acid in Pseudomonas sp. M18. *World Journal of Microbiology and Biotechnology*, **2005**, 21, 883-889	4.4	18
63	Development of a Plasmid-Free Biosynthetic Pathway for Enhanced Muconic Acid Production in Pseudomonas chlororaphis HT66. *ACS Synthetic Biology*, **2018**, 7, 1131-1142	5.7	16
62	Designing an Artificial Pathway for the Biosynthesis of a Novel Phenazine -Oxide in HT66. *ACS Synthetic Biology*, **2020**, 9, 883-892	5.7	15

61	Enhanced Fluorescent Siderophore Biosynthesis and Loss of Phenazine-1-Carboxamide in Phenotypic Variant of HT66. *Frontiers in Microbiology*, **2018**, 9, 759	5.7	15
60	Enhanced biosynthesis of phenazine-1-carboxamide by Pseudomonas chlororaphis strains using statistical experimental designs. *World Journal of Microbiology and Biotechnology*, **2018**, 34, 129	4.4	15
59	PhzA, the shunt switch of phenazine-1,6-dicarboxylic acid biosynthesis in Pseudomonas chlororaphis HT66. *Applied Microbiology and Biotechnology*, **2017**, 101, 7165-7175	5.7	14
58	Identification of a Strong Quorum Sensing- and Thermo-Regulated Promoter for the Biosynthesis of a New Metabolite Pesticide Phenazine-1-carboxamide in strain PA1201. *ACS Synthetic Biology*, **2020**, 9, 1802-1812	5.7	14
57	Production of acetol from glycerol using engineered Escherichia coli. *Bioresource Technology*, **2013**, 149, 238-43	11	13
56	C metabolic flux analysis-guided metabolic engineering of for improved acetol production from glycerol. *Biotechnology for Biofuels*, **2019**, 12, 29	7.8	12
55	Genome Sequence of Sphingobium yanoikuyae B1, a Polycyclic Aromatic Hydrocarbon-Degrading Strain. *Genome Announcements*, **2015**, 3,		12
54	PltR expression modulated by the global regulators GacA, RsmA, LasI and RhlI in Pseudomonas sp. M18. *Research in Microbiology*, **2008**, 159, 128-36	4	12
53	Production of Monascus pigments as extracellular crystals by cell suspension culture. *Applied Microbiology and Biotechnology*, **2018**, 102, 677-687	5.7	12
52	Enhanced trans-2,3-dihydro-3-hydroxyanthranilic acid production by pH control and glycerol feeding strategies in engineered Pseudomonas chlororaphis GP72. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 1618-1626	3.5	11
51	GacS/GacA activates pyoluteorin biosynthesis through Gac/Rsm-RsmE cascade and RsmA/RsmE-driven feedback loop in Pseudomonas protegens H78. *Molecular Microbiology*, **2017**, 105, 968-985	4.1	11
50	Reaction kinetics for the biocatalytic conversion of phenazine-1-carboxylic acid to 2-hydroxyphenazine. *PLoS ONE*, **2014**, 9, e98537	3.7	11
49	Determination of a Novel Fungicide Phenazine-1-Carboxylic Acid in Soil Samples Using Sample Stacking Capillary Electrophoresis Combined with Solid Phase Extraction. *Analytical Letters*, **2010**, 43, 1823-1833	2.2	11
48	Complete Genome Sequence of H78, a Plant Growth-Promoting Rhizobacterium. *Genome Announcements*, **2017**, 5,		10
47	Phenazine-1-carboxylic acid biosynthesis in Pseudomonas Chlororaphis GP72 is positively regulated by the sigma factor RpoN. *World Journal of Microbiology and Biotechnology*, **2008**, 24, 1961-1966	4.4	10
46	Experimental Study on the Determination and Degradation of Pyoluteorin in Soil via CE with Soxhlet□ Extraction and Field-Amplified Sample Stacking. *Chromatographia*, **2011**, 73, 609-612	2.1	9
45	Extraction of anionic dyes with ionic liquid□onionic surfactant aqueous two-phase system. *Separation Science and Technology*, **2017**, 52, 804-811	2.5	8
44	Microbial Synthesis of Antibacterial Phenazine-1,6-dicarboxylic Acid and the Role of PhzG in GP72AN. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 2373-2380	5.7	8

43	Development of an efficient method for separation and purification of trans -2,3-dihydro-3-hydroxyanthranilic acid from Pseudomonas chlororaphis GP72 fermentation broth. *Separation and Purification Technology*, **2018**, 202, 144-148	8.3	8
42	Pleiotropic control of antibiotic biosynthesis, flagellar operon expression, biofilm formation, and carbon source utilization by RpoN in Pseudomonas protegens H78. *Applied Microbiology and Biotechnology*, **2018**, 102, 9719-9730	5.7	8
41	Engineering of glycerol utilization in Pseudomonas chlororaphis GP72 for enhancing phenazine-1-carboxylic acid production. *World Journal of Microbiology and Biotechnology*, **2020**, 36, 49	4.4	7
40	Identification of the Lomofungin Biosynthesis Gene Cluster and Associated Flavin-Dependent Monooxygenase Gene in Streptomyces lomondensis S015. *PLoS ONE*, **2015**, 10, e0136228	3.7	7
39	Overexpression of afsR and Optimization of Metal Chloride to Improve Lomofungin Production in Streptomyces lomondensis S015. *Journal of Microbiology and Biotechnology*, **2015**, 25, 672-80	3.3	7
38	Efficient production of red Monascus pigments with single non-natural amine residue by in situ chemical modification. *World Journal of Microbiology and Biotechnology*, **2019**, 35, 13	4.4	7
37	Merging of a chemical reaction with microbial metabolism via inverse phase transfer catalysis for efficient production of red Monascus pigments. *Reaction Chemistry and Engineering*, **2019**, 4, 1447-1458	4.9	6
36	Improvement of pyoluteorin production in Pseudomonas protegens H78 through engineering its biosynthetic and regulatory pathways. *Applied Microbiology and Biotechnology*, **2019**, 103, 3465-3476	5.7	6
35	Metabolic Engineering of Qlu-1 for the Enhanced Production of Phenazine-1-carboxamide. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 14832-14840	5.7	6
34	Releasing intracellular product to prepare whole cell biocatalyst for biosynthesis of Monascus pigments in water-edible oil two-phase system. *Bioprocess and Biosystems Engineering*, **2016**, 39, 1785-91	3.7	6
33	A microfluidics-based mobility shift assay to identify new inhibitors of β-secretase for Alzheimer's disease. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 6635-6642	4.4	6
32	Elucidation of Enzymatic Mechanism of Phenazine Biosynthetic Protein PhzF Using QM/MM and MD Simulations. *PLoS ONE*, **2015**, 10, e0139081	3.7	6
31	Optimal selection of agricultural products to inhibit citrinin production during submerged culture of Monascus anka. *Biotechnology and Bioprocess Engineering*, **2014**, 19, 1005-1013	3.1	6
30	Enhanced Production of 2-Hydroxyphenazine from Glycerol by a Two-Stage Fermentation Strategy in GP72AN. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 561-566	5.7	6
29	Apigenin-7-O-β-D-glycoside isolation from the highly copper-tolerant plant Elsholtzia splendens. *Journal of Zhejiang University: Science B*, **2016**, 17, 447-54	4.5	6
28	Interfacial biocatalysis in bacteria-stabilized Pickering emulsions for microbial transformation of hydrophobic chemicals. *Catalysis Science and Technology*, **2021**, 11, 2816-2826	5.5	6
27	The (p)ppGpp-mediated stringent response regulatory system globally inhibits primary metabolism and activates secondary metabolism in Pseudomonas protegens H78. *Applied Microbiology and Biotechnology*, **2020**, 104, 3061-3079	5.7	5
26	Systematically engineering Escherichia coli for enhanced shikimate biosynthesis co-utilizing glycerol and glucose. *Biofuels, Bioproducts and Biorefining*, **2018**, 12, 348-361	5.3	5

25	Synthesis of cinnabarinic acid by metabolically engineered Pseudomonas chlororaphis GP72. *Biotechnology and Bioengineering*, **2019**, 116, 3072-3083	4.9	5
24	Innovation for ascertaining genomic islands in PAO1 and PA14 of Pseudomonas aeruginosa. *Science Bulletin*, **2009**, 54, 3991-3999		5
23	Interfacing a phosphate catalytic reaction with a microbial metabolism for the production of azaphilone alkaloids. *Reaction Chemistry and Engineering*, **2020**, 5, 2048-2052	4.9	5
22	Highly Efficient Production of Tailored Monascus Pigments by Using a Biocompatible Chemical Reaction Interfacing with Microbial Metabolism. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3347-3356	8.3	5
21	Identification of new arylamine N-acetyltransferases and enhancing 2-acetamidophenol production in Pseudomonas chlororaphis HT66. *Microbial Cell Factories*, **2020**, 19, 105	6.4	3
20	Solubility of Pyoluteorin in Water, Dichloromethane, Chloroform, and Carbon Tetrachloride from (278.2 to 333.2) K. *Journal of Chemical & Engineering Data*, **2008**, 53, 2241-2243	2.8	3
19	spp. as cell factories (MCFs) for value-added products: from rational design to industrial applications. *Critical Reviews in Biotechnology*, **2020**, 40, 1232-1249	9.4	3
18	Characterization and Engineering of LX24 with High Production of 2-Hydroxyphenazine. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 4778-4784	5.7	3
17	Kinetics, mechanism, and identification of photodegradation products of phenazine-1-carboxylic acid. *Environmental Technology (United Kingdom)*, **2020**, 41, 1848-1856	2.6	3
16	Biocatalytic activity of Monascus mycelia depending on physiology and high sensitivity to product concentration. *AMB Express*, **2017**, 7, 88	4.1	2
15	Modification of a Poly(tetrafluoroethylene) Porous Membrane to Superhydrophilicity with Improved Durability. *Chemical Engineering and Technology*, **2019**, 42, 1027-1036	2	2
14	Chronology and pattern of integration of tandem genomic islands associated with the tmRNA gene in Escherichia coli and Salmonella enterica. *Science Bulletin*, **2011**, 56, 3836-3843		2
13	Biosynthesis and Characterization of Medium-Chain-Length Polyhydroxyalkanoate with an Enriched 3-Hydroxydodecanoate Monomer from a Cell Factory. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 3895-3903	5.7	2
12	Lon protease downregulates phenazine-1-carboxamide biosynthesis by degrading the quorum sensing signal synthase PhzI and exhibits negative feedback regulation of Lon itself in Pseudomonas chlororaphis HT66. *Molecular Microbiology*, **2021**, 116, 690-706	4.1	2
11	Identification of a Novel Bioactive Phenazine Derivative and Regulation of on Its Production in S015. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 974-981	5.7	2
10	Accurate localization and excision of genomic islands in four strains of Pseudomonas aeruginosa and Pseudomonas fluorescens. *Science Bulletin*, **2011**, 56, 987-995		1
9	The global regulator Hfq exhibits far more extensive and intensive regulation than Crc in Pseudomonas protegens H78. *Molecular Plant Pathology*, **2021**, 22, 921-938	5.7	1
8	Evolution of Subfamily I.1 Lipases in Pseudomonas aeruginosa. *Current Microbiology*, **2021**, 78, 3494-3504	2.4	1

7	Engineering a Synthetic Pathway for Gentisate in P3. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 622226	5.8	1
6	Crystal substrate inhibition during microbial transformation of phytosterols in Pickering emulsions.. *Applied Microbiology and Biotechnology*, **2022**, 106, 2403-2414	5.7	1
5	Co-expression of Pseudomonas alcaligenes lipase and its specific foldase in Pichia pastoris by a dual expression cassette strategy. *Protein Expression and Purification*, **2020**, 175, 105721	2	0
4	Enhanced Phenazine-1-Carboxamide Production in Pseudomonas chlororaphis H5?fleQ?relA through Fermentation Optimization. *Fermentation*, **2022**, 8, 188	4.7	0
3	Demulsification of Bacteria-Stabilized Pickering Emulsions Using Modified Silica Nanoparticles. *ACS Applied Materials & Interfaces*, **2022**, 14, 24102-24112	9.5	0
2	Measurement and correlation of the solubility of 1-hydroxyphenazine in different solvents at temperature from 278.5 to 333.5K. *Journal of Shanghai Jiaotong University (Science)*, **2013**, 18, 253-256	0.6	
1	HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY ANALYSIS OF LOMOFUNGIN IN STREPTOMYCES LOMONDENSIS. *Journal of Liquid Chromatography and Related Technologies*, **2013**, 36, 2059-2068	1.3	