

# Lin-Guo Zhao

## List of Publications by Citations

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papers

1,212  
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18  
h-index

30  
g-index

107  
ext. papers

1,659  
ext. citations

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#	Paper	IF	Citations
96	Antitumor, antioxidant and anti-inflammatory activities of kaempferol and its corresponding glycosides and the enzymatic preparation of kaempferol. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197563	3.7	110
95	Thermoanaerobacterium thermosaccharolyticum $\beta$ -glucosidase: a glucose-tolerant enzyme with high specific activity for cellobiose. <i>Biotechnology for Biofuels</i> , <b>2012</b> , 5, 31	7.8	99
94	Two-phase systems developed with hydrophilic and hydrophobic deep eutectic solvents for simultaneously extracting various bioactive compounds with different polarities. <i>Green Chemistry</i> , <b>2018</b> , 20, 1879-1886	10	94
93	Efficient extraction of proanthocyanidin from Ginkgo biloba leaves employing rationally designed deep eutectic solvent-water mixture and evaluation of the antioxidant activity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 158, 317-326	3.5	73
92	Overexpression and characterization of a glucose-tolerant $\beta$ -glucosidase from Thermotoga thermarum DSM 5069T with high catalytic efficiency of ginsenoside Rb1 to Rd. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2013</b> , 95, 62-69		44
91	One-Pot Synthesis of Hyperoside by a Three-Enzyme Cascade Using a UDP-Galactose Regeneration System. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 6042-6048	5.7	36
90	Overexpression and characterization of a Ca(2+) activated thermostable $\beta$ -glucosidase with high ginsenoside Rb1 to ginsenoside 20(S)-Rg3 bioconversion productivity. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2015</b> , 42, 839-50	4.2	35
89	Effects of thermal modification on the physical, chemical and micromechanical properties of Masson pine wood (Pinus massoniana Lamb.). <i>Holzforschung</i> , <b>2018</b> , 72, 1063-1070	2	35
88	Metabolic Engineering of Escherichia coli for Astragalin Biosynthesis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 7966-7972	5.7	26
87	Improvement of Animal Feed Additives of Ginkgo Leaves through Solid-state Fermentation using. <i>International Journal of Biological Sciences</i> , <b>2018</b> , 14, 736-747	11.2	26
86	Enzymatic properties of Thermoanaerobacterium thermosaccharolyticum $\beta$ -glucosidase fused to Clostridium cellulovorans cellulose binding domain and its application in hydrolysis of microcrystalline cellulose. <i>BMC Biotechnology</i> , <b>2013</b> , 13, 101	3.5	26
85	Enhancing the thermostability of $\beta$ -L-rhamnosidase from Aspergillus terreus and the enzymatic conversion of rutin to isoquercitrin by adding sorbitol. <i>BMC Biotechnology</i> , <b>2017</b> , 17, 21	3.5	25
84	Enrichment and Purification of Total Ginkgo Flavonoid -Glycosides from Ginkgo Biloba Extract with Macroporous Resin and Evaluation of Anti-Inflammation Activities In Vitro. <i>Molecules</i> , <b>2018</b> , 23,	4.8	23
83	Enzymatic transformation of ginsenoside Rb1 to ginsenoside 20(S)-Rg3 by GH3 $\beta$ -glucosidase from Thermotoga thermarum DSM 5069T. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2015</b> , 113, 104-109		22
82	Overexpression of ABCB1 Transporter Confers Resistance to mTOR Inhibitor WYE-354 in Cancer Cells. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	20
81	Characterization of a novel thermostable and xylose-tolerant GH 39 $\beta$ -xylosidase from Dictyoglomus thermophilum. <i>BMC Biotechnology</i> , <b>2018</b> , 18, 29	3.5	20
80	Effect of dietary supplementation with fermented Ginkgo-leaves on performance, egg quality, lipid metabolism and egg-yolk fatty acids composition in laying hens. <i>Livestock Science</i> , <b>2013</b> , 155, 77-85	1.7	20

79	Identification of Human Acetylcholinesterase Inhibitors from the Constituents of EGb761 by Modeling Docking and Molecular Dynamics Simulations. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2018</b> , 21, 41-49	1.3	19
78	Comparison of two laccases from <i>Trametes versicolor</i> for application in the decolorization of dyes. <i>Journal of Microbiology and Biotechnology</i> , <b>2014</b> , 24, 545-55	3.3	18
77	B-factor-saturation mutagenesis as a strategy to increase the thermostability of $\beta$ -L-rhamnosidase from <i>Aspergillus terreus</i> . <i>Journal of Biotechnology</i> , <b>2018</b> , 275, 17-23	3.7	17
76	Efficient Biotransformation of Luteolin to Isoorientin through Adjusting Induction Strategy, Controlling Acetic Acid, and Increasing UDP-Glucose Supply in <i>Escherichia coli</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 331-340	5.7	17
75	High-level expression of recombinant thermostable $\beta$ -glucosidase in <i>Escherichia coli</i> by regulating acetic acid. <i>Bioresource Technology</i> , <b>2017</b> , 241, 795-801	11	16
74	Cloning, overexpression and characterization of a thermostable $\beta$ -xylosidase from <i>Thermotoga petrophila</i> and cooperated transformation of ginsenoside extract to ginsenoside 20(S)-Rg3 with a $\beta$ -glucosidase. <i>Bioorganic Chemistry</i> , <b>2019</b> , 85, 159-167	5.1	16
73	Effect of the penetration of isocyanates (pMDI) on the nanomechanics of wood cell wall evaluated by AFM-IR and nanoindentation (NI). <i>Holzforschung</i> , <b>2018</b> , 72, 301-309	2	15
72	Characterization of a novel arabinose-tolerant $\beta$ -L-arabinofuranosidase with high ginsenoside R <sub>c</sub> to ginsenoside R <sub>d</sub> bioconversion productivity. <i>Journal of Applied Microbiology</i> , <b>2016</b> , 120, 647-60	4.7	15
71	Overexpression and characterization of laccase from <i>Trametes versicolor</i> in <i>Pichia pastoris</i> . <i>Applied Biochemistry and Microbiology</i> , <b>2014</b> , 50, 140-147	1.1	14
70	Production of a recombinant laccase from <i>Pichia pastoris</i> and biodegradation of chlorpyrifos in a laccase/vanillin system. <i>Journal of Microbiology and Biotechnology</i> , <b>2013</b> , 23, 864-71	3.3	14
69	Characterization of a $\beta$ -L-rhamnosidase from <i>Bacteroides thetaiotaomicron</i> with high catalytic efficiency of epimedin C. <i>Bioorganic Chemistry</i> , <b>2018</b> , 81, 461-467	5.1	14
68	Combined Molecular Docking, 3D-QSAR, and Pharmacophore Model: Design of Novel Tubulin Polymerization Inhibitors by Binding to Colchicine-binding Site. <i>Chemical Biology and Drug Design</i> , <b>2015</b> , 86, 731-45	2.9	13
67	Overexpression and characterization of CCD4 from <i>Osmanthus fragrans</i> and $\beta$ -ionone biosynthesis from $\beta$ -carotene in vitro. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 134, 105-114		13
66	Consensus scoring model for the molecular docking study of mTOR kinase inhibitor. <i>Journal of Molecular Graphics and Modelling</i> , <b>2018</b> , 79, 81-87	2.8	13
65	Structures and bioactivities of seven flavonoids from <i>Osmanthus fragrans</i> SlinquiSessential oil extraction residues. <i>Natural Product Research</i> , <b>2018</b> , 32, 588-591	2.3	11
64	Effective Release of Intracellular Enzymes by Permeating the Cell Membrane with Hydrophobic Deep Eutectic Solvents. <i>ChemBioChem</i> , <b>2020</b> , 21, 672-680	3.8	11
63	Effects of $\beta$ -glucosidase and $\beta$ -rhamnosidase on the Contents of Flavonoids, Ginkgolides, and Aroma Components in Ginkgo Tea Drink. <i>Molecules</i> , <b>2019</b> , 24,	4.8	10
62	Biochemical characterization of a novel hyperthermophilic $\beta$ -L-rhamnosidase from <i>Thermotoga petrophila</i> and its application in production of icaritin from epimedin C with a thermostable $\beta$ -glucosidase. <i>Process Biochemistry</i> , <b>2020</b> , 93, 115-124	4.8	10

61	Reversal Effect of ALK Inhibitor NVP-TAE684 on ABCG2-Overexpressing Cancer Cells. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 228	5.3	10
60	Expression and characterization of GH3 $\beta$ glucosidase from <i>Aspergillus niger</i> NL-1 with high specific activity, glucose inhibition and solvent tolerance. <i>Microbiology</i> , <b>2013</b> , 82, 356-363	1.4	10
59	Synergistic Effects of Ginkgolide B and Protocatechuic Acid on the Treatment of Parkinson's Disease. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
58	Construction of a novel UDP-rhamnose regeneration system by a two-enzyme reaction system and application in glycosylation of flavonoid. <i>Biochemical Engineering Journal</i> , <b>2018</b> , 139, 33-42	4.2	9
57	The Synergistic Beneficial Effects of Ginkgo Flavonoid and <i>Coriolus versicolor</i> Polysaccharide for Memory Improvements in a Mouse Model of Dementia. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2015</b> , 2015, 128394	2.3	9
56	Production of isoorientin and isovitexin from luteolin and apigenin using coupled catalysis of glycosyltransferase and sucrose synthase. <i>Applied Biochemistry and Biotechnology</i> , <b>2020</b> , 190, 601-615	3.2	9
55	Molecular Dynamics Analysis of Binding Sites of Epidermal Growth Factor Receptor Kinase Inhibitors. <i>ACS Omega</i> , <b>2020</b> , 5, 16307-16314	3.9	8
54	Highly enhancing the characteristics of immobilized thermostable $\beta$ glucosidase by $Zn^{2+}$ . <i>Process Biochemistry</i> , <b>2018</b> , 66, 89-96	4.8	8
53	Modulating heterologous pathways and optimizing fermentation conditions for biosynthesis of kaempferol and astragalins from naringenin in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2019</b> , 46, 171-186	4.2	8
52	Predictive QSAR modeling study on berberine derivatives with hypolipidemic activity. <i>Chemical Biology and Drug Design</i> , <b>2018</b> , 91, 867-873	2.9	8
51	Effects of accelerated aging treatment on the microstructure and mechanics of wood-resin interphase. <i>Holzforschung</i> , <b>2018</b> , 72, 235-241	2	7
50	Berberine: A Promising Natural Isoquinoline Alkaloid for the Development of Hypolipidemic Drugs. <i>Current Topics in Medicinal Chemistry</i> , <b>2020</b> , 20, 2634-2647	3	7
49	Biotransformation of Ginsenosides Re and Rg1 into Rg2 and Rh1 by Thermostable $\beta$ Glucosidase from <i>Thermotoga thermarum</i> . <i>Chemistry of Natural Compounds</i> , <b>2017</b> , 53, 472-477	0.7	6
48	Highly Efficient Biotransformation of Astragaloside IV to Cycloastragenol by Sugar-Stimulated $\beta$ Glucosidase and $\beta$ Xylosidase from. <i>Journal of Microbiology and Biotechnology</i> , <b>2019</b> , 29, 1882-1893	3.3	6
47	Cloning and characterization of the $\beta$ xylosidase from <i>Dictyoglomus turgidum</i> for high efficient biotransformation of 10-deacetyl-7-xylosyltaxol. <i>Bioorganic Chemistry</i> , <b>2020</b> , 94, 103357	5.1	6
46	Immobilization of high temperature-resistant GH3 $\beta$ glucosidase on a magnetic particle FeO-SiO-NH-Cellu-ZIF8/zeolitic imidazolate framework. <i>Enzyme and Microbial Technology</i> , <b>2019</b> , 129, 109347	3.8	5
45	Identification of dihydroorotate dehydrogenase as a protein target of ginkgolide acid by molecular docking and dynamics. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1220, 128692	3.4	5
44	Purification and characterisation of a novel $\beta$ -l-rhamnosidase exhibiting transglycosylating activity from <i>Aspergillus oryzae</i> . <i>International Journal of Food Science and Technology</i> , <b>2017</b> , 52, 2596-2603	3.8	5

43	High-level expression of a novel multifunctional GH3 family $\beta$ -xylosidase/ $\beta$ -arabinosidase/ $\beta$ -glucosidase from <i>Dictyoglomus turgidum</i> in <i>Escherichia coli</i> . <i>Bioorganic Chemistry</i> , <b>2021</b> , 111, 104906	5.1	5
42	Biotransformation of the total flavonoid extract of epimedium into icaritin by two thermostable glycosidases from <i>Dictyoglomus thermophilum</i> DSM3960. <i>Process Biochemistry</i> , <b>2021</b> , 105, 8-18	4.8	5
41	Seasonal variation of pheophorbide a and flavonoid in different organs of two <i>Carpinus</i> species and its correlation with immunosuppressive activity. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2016</b> , 52, 654-61	2.6	5
40	Design, synthesis, and anti-inflammatory activity of caffeoyl salicylate analogs as NO production inhibitors. <i>Phytotherapy</i> , <b>2018</b> , 129, 25-33	3.2	5
39	Orientin and vitexin production by a one-pot enzymatic cascade of a glycosyltransferase and sucrose synthase. <i>Bioorganic Chemistry</i> , <b>2021</b> , 112, 104926	5.1	5
38	A patent review of berberine and its derivatives with various pharmacological activities (2016-2020). <i>Expert Opinion on Therapeutic Patents</i> , <b>2021</b> ,	6.8	5
37	Immobilization of Thermostable $\beta$ -Glucosidase and $\beta$ -Rhamnosidase from <i>Dictyoglomus thermophilum</i> DSM3960 and Their Cooperated Biotransformation of Total Flavonoids Extract from Epimedium into Icaritin. <i>Catalysis Letters</i> , <b>2021</b> , 151, 2950-2963	2.8	4
36	Enhancing UDP-Rhamnose Supply for Rhamnosylation of Flavonoids in by Regulating the Modular Pathway and Improving NADPH Availability. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 9513-9523	5.7	4
35	Characterization flavanone 3 $\beta$ -hydroxylase expressed from <i>Populus euphratica</i> in <i>Escherichia coli</i> and its application in dihydroflavonol production. <i>Applied Biochemistry and Microbiology</i> , <b>2017</b> , 53, 318-324	1.1	3
34	Synthesis of Isorhamnetin-3--Rhamnoside by a Three-Enzyme (Rhamnosyltransferase, Glycine Max Sucrose Synthase, UDP-Rhamnose Synthase) Cascade Using a UDP-Rhamnose Regeneration System. <i>Molecules</i> , <b>2019</b> , 24,	4.8	3
33	Efficient production of aggregation prone 4- $\beta$ -glucanotransferase by combined use of molecular chaperones and chemical chaperones in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , <b>2019</b> , 292, 68-75	3.7	3
32	Cloning and characterization of enoate reductase with high $\beta$ -ionone to dihydro- $\beta$ -ionone bioconversion productivity. <i>BMC Biotechnology</i> , <b>2018</b> , 18, 26	3.5	3
31	Cooperated biotransformation of ginsenoside extracts into ginsenoside 20(S)-Rg3 by three thermostable glycosidases. <i>Journal of Applied Microbiology</i> , <b>2020</b> , 128, 721-734	4.7	3
30	Discovery of 7,9-Disulfatetrahydroberberine as Novel Lipid-Lowering Agents. <i>ACS Omega</i> , <b>2020</b> , 5, 30836-30848	3.0848	3
29	Cloning, Overexpression, and Characterization of a Thermostable, Organic Solvent-Tolerant Laccase from ARA and Its Application to Dye Decolorization. <i>ACS Omega</i> , <b>2021</b> , 6, 9741-9749	3.9	3
28	Discovery of C-9 Modified Berberine Derivatives as Novel Lipid-Lowering Agents. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2021</b> , 69, 59-66	1.9	3
27	Improving the Thermostability and pH Stability of <i>Aspergillus niger</i> Xylanase by Site-directed Mutagenesis. <i>Applied Biochemistry and Microbiology</i> , <b>2019</b> , 55, 136-144	1.1	2
26	Molecular insights into catalytic specificity of $\beta$ -L-rhamnosidase from <i>Bacteroides thetaiotaomicron</i> by molecular docking and dynamics. <i>Chemical Physics Letters</i> , <b>2020</b> , 754, 137695	2.5	2

25	RNA-Seq analysis and comparison of the enzymes involved in ionone synthesis of three cultivars of <i>Osmanthus</i> . <i>Journal of Asian Natural Products Research</i> , <b>2018</b> , 20, 649-661	1.5	2
24	Screening and characterization of a GH78 $\beta$ -rhamnosidase from <i>Aspergillus terreus</i> and its application in the bioconversion of icariin to icaritin with recombinant $\beta$ -glucosidase. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 153, 109940	3.8	2
23	Bioassay-guided isolation of anti-inflammatory constituents from <i>Celtis sinensis</i> leaves. <i>Journal of Food Biochemistry</i> , <b>2021</b> , 45, e13580	3.3	2
22	Co-production of Xylooligosaccharides and Xylose From Poplar Sawdust by Recombinant Endo-1,4- $\beta$ -Xylanase and $\beta$ -Xylosidase Mixture Hydrolysis. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 637397	5.8	2
21	Echinacoside ameliorates alcohol-induced oxidative stress and hepatic steatosis by affecting SREBP1c/FASN pathway via PPAR $\alpha$ . <i>Food and Chemical Toxicology</i> , <b>2021</b> , 148, 111956	4.7	2
20	Structural Optimization of Caffeoyl Salicylate Scaffold as NO Production Inhibitors. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2019</b> , 67, 1006-1014	1.9	1
19	Synergistic Catalysis of Glycosyltransferase and Sucrose Synthase to Produce Isoquercitrin Through Glycosylation of Quercetin. <i>Chemistry of Natural Compounds</i> , <b>2019</b> , 55, 453-457	0.7	1
18	Data on thermostable $\beta$ -glucosidase immobilized by Zn. <i>Data in Brief</i> , <b>2018</b> , 18, 873-876	1.2	1
17	Biochemical Characterization of a Novel Prenyltransferase from sp. NT11 and Development of a Recombinant Strain for the Production of 6-Prenylnaringenin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 14231-14240	5.7	1
16	Recombinant Laccase Production Optimization in <i>Pichia pastoris</i> by Response Surface Methodology and Its Application in the Biodegradation of Octyl Phenol and 4-Tert-Octylphenol. <i>Catalysis Letters</i> , <b>2021</b> , 151, 105665	2.8	1
15	Immobilization of GH78 $\beta$ -Rhamnosidase from with High-Temperature-Resistant Magnetic Particles FeO-SiO-NH-Cellu-ZIF8 and Its Application in the Production of Prunin Form Naringin. <i>Journal of Microbiology and Biotechnology</i> , <b>2021</b> , 31, 419-428	3.3	1
14	Isovitexin Inhibits Ginkgolic Acids-Induced Inflammation Through Downregulating SHP2 Activation. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 630320	5.6	1
13	Synthesis and Antitumor Activity of C-3(R) Hydroxy Modified Betulinic Acid Derivatives. <i>Chemistry of Natural Compounds</i> , <b>2019</b> , 55, 1080-1084	0.7	0
12	Highly efficient biotransformation of Notoginsenoside R1 into Ginsenoside Rg1 by <i>Dictyoglomus thermophilum</i> $\beta$ -xylosidase Xln-DT.. <i>Journal of Microbiology and Biotechnology</i> , <b>2022</b> , 32, 10-8	3.3	0
11	Discovery and structural optimization of 9-O-phenylsulfonyl-berberines as new lipid-lowering agents.. <i>Bioorganic Chemistry</i> , <b>2022</b> , 121, 105665	5.1	0
10	Discovery of TGFBR1 (ALK5) as a potential drug target of quercetin glycoside derivatives (QGDs) by reverse molecular docking and molecular dynamics simulation. <i>Biophysical Chemistry</i> , <b>2021</b> , 281, 106731	3.5	0
9	Cloning and Characterization of a Novel Carotenoid Cleavage Dioxygenase 1 from <i>Helianthus annuus</i> . <i>Chemistry and Biodiversity</i> , <b>2021</b> , e2100694	2.5	0
8	Efficient Production Hyperoside from Quercetin in <i>Escherichia coli</i> Through Increasing UDP-Galactose Supply and Recycling of Resting Cell. <i>Catalysis Letters</i> , <b>2021</b> , 151, 1202-1211	2.8	0

7	Biosynthesis of 3SO-methylisoorientin from luteolin by selecting O-methylation/C-glycosylation motif. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 150, 109862	3.8	o
6	Improvements in xylose stability and thermal stability of GH39 Xylosidase from <i>Dictyoglomus thermophilum</i> by site-directed mutagenesis and insights into its xylose tolerance mechanism. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 151, 109921	3.8	o
5	Modification to increase the thermostability and catalytic efficiency of $\beta$ -L-rhamnosidase from <i>Bacteroides thetaiotaomicron</i> and high-level expression.. <i>Enzyme and Microbial Technology</i> , <b>2022</b> , 158, 110040	3.8	o
4	One-step purification and immobilization of thermostable $\beta$ -glucosidase on Na-Y zeolite based on the linker and its application in the efficient production of baohuoside I from icariin.. <i>Bioorganic Chemistry</i> , <b>2022</b> , 121, 105690	5.1	o
3	Optimizing the Desorption Technology of Total Flavonoids of from Separating Materials of Activated Carbon.. <i>ACS Omega</i> , <b>2021</b> , 6, 35002-35013	3.9	o
2	Consensus scoring model: A novel approach to the study of EGFR kinase inhibitors. <i>Chemical Physics Letters</i> , <b>2022</b> , 800, 139650	2.5	o
1	Lingzhi or Reishi Medicinal Mushroom, <i>Ganoderma lucidum</i> (Agaricomycetes), Polysaccharides Suppressed Adipogenesis and Stimulated Lipolysis in HPA-v and 3T3-L1 Adipocytes. <i>International Journal of Medicinal Mushrooms</i> , <b>2020</b> , 22, 897-908	1.3	