Ping Wei

List of Publications by Year
in descending order

65 papers	1,615 citations	304602 22 h-index	330025 37 g-index
67 all docs	67 docs citations	67 times ranked	1857 citing authors

#	Article	IF	Citations
1	Packaging and delivering enzymes by amorphous metal-organic frameworks. Nature Communications, 2019, 10, 5165.	5.8	234
2	Novel Nano-/Micro-Biocatalyst: Soybean Epoxide Hydrolase Immobilized on UiO-66-NH₂ MOF for Efficient Biosynthesis of Enantiopure (R)-1, 2-Octanediol in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 3586-3595.	3.2	171
3	Biocatalytic Reduction of HMF to 2,5â€Bis(hydroxymethyl)furan by HMFâ€Tolerant Whole Cells. ChemSusChem, 2017, 10, 372-378.	3.6	92
4	A novel polysaccharide from the roots of Millettia Speciosa Champ: preparation, structural characterization and immunomodulatory activity. International Journal of Biological Macromolecules, 2020, 145, 547-557.	3.6	53
5	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccasesâ€”A review. International Journal of Biological Macromolecules, 2021, 166, 352-373.	3.6	52
6	Biocatalytic Upgrading of 5-Hydroxymethylfurfural (HMF) with Levulinic Acid to HMF Levulinate in Biomass-Derived Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 4050-4054.	3.2	50
7	Electrospun core-shell structured nanofilm as a novel colon-specific delivery system for protein. Carbohydrate Polymers, 2017, 169, 157-166.	5.1	48
8	Improving the thermostability and activity of Paenibacillus pasadenensis chitinase through semi-rational design. International Journal of Biological Macromolecules, 2020, 150, 9-15.	3.6	46
9	Microbial synthesis of functional odd-chain fatty acids: a review. World Journal of Microbiology and Biotechnology, 2020, 36, 35.	1.7	42
10	Ionic liquids for regulating biocatalytic process: Achievements and perspectives. Biotechnology Advances, 2021, 51, 107702.	6.0	42
11	Using a novel polysaccharide BM2 produced by Bacillus megaterium strain PL8 as an efficient bioflocculant for wastewater treatment. International Journal of Biological Macromolecules, 2020, 162, 374-384.	3.6	41
12	Highly Efficient Enzymatic Acylation of Dihydromyricetin by the Immobilized Lipase with Deep Eutectic Solvents as Cosolvent. Journal of Agricultural and Food Chemistry, 2017, 65, 2084-2088.	2.4	37
13	Structure and immunomodulatory activity of polysaccharides from Fusarium solani DO7 by solid-state fermentation. International Journal of Biological Macromolecules, 2019, 137, 568-575.	3.6	34
14	The application of deep eutectic solvent on the extraction and in vitro antioxidant activity of rutin from Sophora japonica bud. Journal of Food Science and Technology, 2018, 55, 2326-2333.	1.4	33
15	Engineering of a novel carbonyl reductase with coenzyme regeneration in E. coli for efficient biosynthesis of enantiopure chiral alcohols. Journal of Biotechnology, 2016, 230, 54-62.	1.9	29
16	Improving biocatalysis of cefaclor with penicillin acylase immobilized on magnetic nanocrystalline cellulose in deep eutectic solvent based co-solvent. Bioresource Technology, 2019, 288, 121548.	4.8	28
17	Investigation of hierarchically porous zeolitic imidazolate frameworks for highly efficient dye removal. Journal of Hazardous Materials, 2021, 417, 126011.	6.5	28
18	Use of Crude Glycerol as Sole Carbon Source for Microbial Lipid Production by Oleaginous Yeasts. Applied Biochemistry and Biotechnology, 2017, 182, 495-510.	1.4	27

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19	Efficient Bioconversion of Sucrose to Highâ€Valueâ€Added Glucaric Acid by Inâ€...Vitro Metabolic Engineering. ChemSusChem, 2019, 12, 2278-2285.	3.6	27
20	Preparation of a Nanobiocatalyst by Efficiently Immobilizing Aspergillus niger Lipase onto Magnetic Metalâ€“Biomolecule Frameworks (BioMOF). ChemCatChem, 2017, 9, 1794-1800.	1.8	25
21	Co-immobilization of multiple enzymes by self-assembly and chemical crosslinking for cofactor regeneration and robust biocatalysis. International Journal of Biological Macromolecules, 2020, 162, 445-453.	3.6	25
22	Efficient separation and purification of anthocyanins from saskatoon berry by using low transition temperature mixtures. RSC Advances, 2016, 6, 104582-104590.	1.7	24
23	Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. International Journal of Biological Macromolecules, 2020, 162, 1906-1923.	3.6	24
24	Novel Antioxidative Wall Materials for Lactobacillus casei Microencapsulation via the Maillard Reaction between the Soy Protein Isolate and Prebiotic Oligosaccharides. Journal of Agricultural and Food Chemistry, 2021, 69, 13744-13753.	2.4	22
25	Using 1-propanol to significantly enhance the production of valuable odd-chain fatty acids by Rhodococcus opacus PD630. World Journal of Microbiology and Biotechnology, 2019, 35, 164.	1.7	20
26	Double-Chitinase Hydrolysis of Crab Shell Chitin Pretreated by Ionic Liquid to Generate Chito-Oligosaccharide. ACS Sustainable Chemistry and Engineering, 2019, 7, 1683-1691.	3.2	19
27	Bioprospecting of a novel endophytic Bacillus velezensis FZ06 from leaves of Camellia assamica: Production of three groups of lipopeptides and the inhibition against food spoilage microorganisms. Journal of Biotechnology, 2020, 323, 42-53.	1.9	17
28	A Versatile Competitive Coordination Strategy for Tailoring Bioactive Zeolitic Imidazolate Framework Composites. Small, 2021, 17, e2007586.	5.2	17
29	Recruiting a Phosphite Dehydrogenase/Formamidase-Driven Antimicrobial Contamination System in Bacillus subtilis for Nonsterilized Fermentation of Acetoin. ACS Synthetic Biology, 2020, 9, 2537-2545.	1.9	16
30	Carbon source modify lipids composition of Rhodococcus opacus intended for infant formula. Journal of Biotechnology, 2020, 319, 8-14.	1.9	16
31	Recombinant expression and characterization of a novel cold-adapted type I pullulanase for efficient amylopectin hydrolysis. Journal of Biotechnology, 2020, 313, 39-47.	1.9	15
32	Biotechnology and bioengineering of pullulanase: state of the art and perspectives. World Journal of Microbiology and Biotechnology, 2021, 37, 43.	1.7	15
33	Mechanistic insights into the effect of imidazolium ionic liquid on lipid production by Geotrichum fermentans. Biotechnology for Biofuels, 2016, 9, 266.	6.2	14
34	Effects of stocking density and decreased carbon supply on the growth and photosynthesis in the farmed seaweed, Pyropia haitanensis (Bangiales, Rhodophyta). Journal of Applied Phycology, 2017, 29, 3057-3065.	1.5	13
35	Metabolic engineering of a robust Escherichia coli strain with a dual protection system. Biotechnology and Bioengineering, 2019, 116, 3333-3348.	1.7	13
36	Novel antibacterial polysaccharides produced by endophyte Fusarium solani DO7. Bioresource Technology, 2019, 288, 121596.	4.8	13

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37	Enzymatic characterization of a recombinant carbonyl reductase from Acetobacter sp. CCTCC M209061. Bioresources and Bioprocessing, 2017, 4, 39.	2.0	12
38	Efficient Production of 1,3â€Dioleoylâ€2â€Palmitoylglycerol through Rhodococcus opacus Fermentation. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 851-860.	0.8	12
39	Photosynthetic behaviors in response to intertidal zone and algal mat density in Ulva lactuca (Chlorophyta) along the coast of Nanâ€™ao Island, Shantou, China. Environmental Science and Pollution Research, 2019, 26, 13346-13353.	2.7	11
40	Energy- and cost-effective non-sterilized fermentation of 2,3-butanediol by an engineered Klebsiella pneumoniae OU7 with an anti-microbial contamination system. Green Chemistry, 2020, 22, 8584-8593.	4.6	11
41	Editorial: Enzyme or Whole Cell Immobilization for Efficient Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques. Frontiers in Bioengineering and Biotechnology, 2021, 9, 620292.	2.0	11
42	Highly enantioselective resolution of racemic 1-phenyl-1,2-ethanediol to (S)-1-phenyl-1,2-ethanediol by Kurthia gibsonii SC0312 in a biphasic system. Journal of Biotechnology, 2020, 308, 21-26.	1.9	10
43	Construction of Zn-heptapeptide bionanozymes with intrinsic hydrolase-like activity for degradation of di(2-ethylhexyl) phthalate. Journal of Colloid and Interface Science, 2022, 622, 860-870.	5.0	10
44	Preparation and Characterization of Oil Rich in Odd Chain Fatty Acids from Rhodococcus opacus PD630. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 25-33.	0.8	9
45	Inhibition of Cronobacter sakazakii in reconstituted infant formula using triglycerol monolaurate and its effect on the sensory properties of infant formula. International Journal of Food Microbiology, 2020, 320, 108518.	2.1	9
46	Discovery of dipeptidyl peptidase 4 inhibitory peptides from Largemouth bass (Micropterus salmoides) by a comprehensive approach. Bioorganic Chemistry, 2020, 105, 104432.	2.0	9
47	Combinatorial synthetic pathway fine-tuning and cofactor regeneration for metabolic engineering of Escherichia coli significantly improve production of D-glucaric acid. New Biotechnology, 2020, 59, 51-58.	2.4	9
48	Biosynthesis of Alanyl-Histidine Dipeptide Catalyzed by Papain Immobilized on Magnetic Nanocrystalline Cellulose in Deep Eutectic Solvents. Applied Biochemistry and Biotechnology, 2020, 192, 573-584.	1.4	9
49	Highly efficient asymmetric reduction of 2-octanone in biphasic system by immobilized Acetobacter sp. CCTCC M209061 cells. Journal of Biotechnology, 2019, 299, 37-43.	1.9	8
50	Facile and Green Production of Human Milk Fat Substitute through Rhodococcus opacus Fermentation. Journal of Agricultural and Food Chemistry, 2020, 68, 9368-9376.	2.4	8
51	A novel magnetic carbon-based solid acid catalyst suitable for efficient hydrolysis of cellulose. Biomass Conversion and Biorefinery, 2023, 13, 2207-2215.	2.9	7
52	Effects of CO2 supply on growth and photosynthetic ability of young sporophytes of the economic seaweed Sargassum fusiforme (Sargassaceae, Phaeophyta). Journal of Applied Phycology, 2019, 31, 615-624.	1.5	6
53	Biomimetic Mineralization of Prussian Blue Analogue-Incorporated Glucose Oxidase Hybrid Catalyst for Glucose Detection. Catalysis Letters, 2022, 152, 689-698.	1.4	6
54	Biocatalytic Reduction of HMF to 2,5-Bis(hydroxymethyl)furan by HMF-Tolerant Whole Cells. ChemSusChem, 2017, 10, 304-304.	3.6	5

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55	Characterization of a Novel Methylaspartate Ammonia Lyase from E. coli O157:H7 for Efficient Asymmetric Synthesis of Unnatural Amino Acids. ACS Sustainable Chemistry and Engineering, 2020, 8, 329-334.	3.2	5
56	Hydrolysis of corn stover pretreated by DESs with carbon-based solid acid catalyst. SN Applied Sciences, 2020, 2, 1.	1.5	5
57	Peroxidase Encapsulated in Peroxidase Mimics via inâ€…situ Assembly with Enhanced Catalytic Performance. ChemCatChem, 2020, 12, 1996-1999.	1.8	5
58	Designing a Highly Stable Enzymeâ€“Graphene Oxide Biohybrid as a Sensitive Biorecognition Module for Biosensor Fabrication with Superior Performance and Stability. ACS Sustainable Chemistry and Engineering, 2022, 10, 2971-2983.	3.2	4
59	Immobilization of Cofactor Self-Sufficient Recombinant Escherichia coli for Enantioselective Biosynthesis of (R)-1-Phenyl-1,2-Ethanediol. Frontiers in Bioengineering and Biotechnology, 2020, 8, 17.	2.0	3
60	Antifungal Effect of Triglycerol Monolaurate Synthesized by Lipozyme 435-Mediated Esterification. Journal of Microbiology and Biotechnology, 2020, 30, 561-570.	0.9	3
61	Extraction and characterizationÂof a functional protein from Millettia speciosa Champ. leaf. Natural Product Research, 2021, , 1-8.	1.0	2
62	Modular Metabolic Engineering of Bacillus licheniformis for Efficient 2,3-Butanediol Production by Consolidated Bioprocessing of Jerusalem Artichoke Tubers. ACS Sustainable Chemistry and Engineering, 2022, 10, 9624-9634.	3.2	2
63	Synthesis and Functional Identification of Oligopeptides Derived from the Î±3/5-Conotoxins. International Journal of Peptide Research and Therapeutics, 2018, 24, 251-258.	0.9	0
64	Front Cover Image, Volume 116, Number 12, December 2019. Biotechnology and Bioengineering, 2019, 116, i.	1.7	0
65	Sucralose-Derived Solid Acid Catalysts Highly Selective Production of Cellulosic Hydrolysate: Source for Microbial Lipid Synthesis. Waste and Biomass Valorization, 0, , 1.	1.8	0