

# Xiaolin Pei

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

365  
citations

759233

12  
h-index

839539

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic mineralization of nitrile hydratase into a mesoporous cobalt-based metal-organic framework for efficient biocatalysis. <i>Nanoscale</i> , 2020, 12, 967-972.	5.6	40
2	Efficient synthesis of the key chiral alcohol intermediate of Crizotinib using dual-enzyme@CaHPO <sub>4</sub> hybrid nanoflowers assembled by mimetic biomineralization. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 236-243.	3.2	35
3	Enhancement of <i>Monascus</i> yellow pigments production by activating the cAMP signalling pathway in <i>Monascus purpureus</i> HJ11. <i>Microbial Cell Factories</i> , 2020, 19, 224.	4.0	23
4	Efficient cloning and expression of a thermostable nitrile hydratase in <i>Escherichia coli</i> using an auto-induction fed-batch strategy. <i>Process Biochemistry</i> , 2013, 48, 1921-1927.	3.7	19
5	Recombinant expression and molecular insights into the catalytic mechanism of an NADPH-dependent conjugated polyketone reductase for the asymmetric synthesis of (R)-pantolactone. <i>Enzyme and Microbial Technology</i> , 2019, 126, 77-85.	3.2	18
6	Chaperones-assisted soluble expression and maturation of recombinant Co-type nitrile hydratase in <i>Escherichia coli</i> to avoid the need for a low induction temperature. <i>Journal of Biotechnology</i> , 2015, 203, 9-16.	3.8	17
7	Discovery of a new NADPH-dependent aldo-keto reductase from <i>Candida orthopsilosis</i> catalyzing the stereospecific synthesis of (R)-pantolactone by genome mining. <i>Journal of Biotechnology</i> , 2019, 291, 26-34.	3.8	17
8	Discovery of a new Fe-type nitrile hydratase efficiently hydrating aliphatic and aromatic nitriles by genome mining. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 99, 26-33.	1.8	16
9	Rational immobilization of lipase by combining the structure analysis and unnatural amino acid insertion. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 132, 54-60.	1.8	16
10	Rapidly and Precisely Cross-Linked Enzymes Using Bio-Orthogonal Chemistry from Cell Lysate for the Synthesis of (S)-1-(2,6-Dichloro-3-fluorophenyl) Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6466-6478.	6.7	16
11	Systematic Metabolic Engineering for the Production of Azaphilones in <i>Monascus purpureus</i> HJ11. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1589-1600.	5.2	14
12	Evidence for the participation of an extra Î±-helix at Î² <sup>2</sup> -subunit surface in the thermal stability of Co-type nitrile hydratase. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7891-7900.	3.6	13
13	<i>Aspergillus oryzae</i> Biosynthetic Platform for <i>de Novo</i> Iridoid Production. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2501-2511.	5.2	12
14	Identification and functional analysis of the activator gene involved in the biosynthesis of Co-type nitrile hydratase from <i>Aurantimonas manganoxydans</i> . <i>Journal of Biotechnology</i> , 2017, 251, 38-46.	3.8	11
15	Highly efficient asymmetric reduction of ketopantolactone to (S)-pantolactone by <i>Escherichia coli</i> cells expressing recombinant conjugated polyketone reductase and glucose dehydrogenase in a fed-batch biphasic reaction system. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 531-538.	3.7	11
16	Addition of Co <sup>2+</sup> to culture medium decides the functional expression of a recombinant nitrile hydratase in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2013, 35, 1419-1424.	2.2	10
17	Cyanide-free synthesis of aromatic nitriles from aldoximes: Discovery and application of a novel heme-containing aldoxime dehydratase. <i>Enzyme and Microbial Technology</i> , 2021, 150, 109883.	3.2	10
18	N-terminal engineering of overlapping genes in the nitrile hydratase gene cluster improved its activity. <i>Enzyme and Microbial Technology</i> , 2018, 117, 9-14.	3.2	9

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19	Dual-enzyme and NADPH co-embedded organic-inorganic hybrid nanoflowers prepared using biomimetic mineralization for the asymmetric synthesis of (R)-( $\alpha$ )-pantolactone. Reaction Chemistry and Engineering, 2020, 5, 1973-1980.	3.7	9
20	Efficient synthesis of vitamin A palmitate in nonaqueous medium using self-assembled lipase TLL@apatite hybrid nanoflowers by mimetic biomineralization. Green Chemistry Letters and Reviews, 2018, 11, 476-483.	4.7	7
21	Stable immobilization of aldehyde ketone reductase mutants containing nonstandard amino acids on an epoxy resin via strain-promoted alkyne-azide cycloaddition. RSC Advances, 2020, 10, 2624-2633.	3.6	7
22	Programming a cyanide-free transformation of aldehydes to nitriles and one-pot synthesis of amides through tandem chemo-enzymatic cascades. RSC Advances, 2022, 12, 17873-17881.	3.6	7
23	Efficiently Enantioselective Hydrogenation Photosynthesis of (R)-1-[3,5-Bis(trifluoromethyl)phenyl] ethanol over a CLEs-TiO <sub>2</sub> Bioinorganic Hybrid Materials. ACS Applied Materials & Interfaces, 2021, 13, 41454-41463.	8.0	6
24	Creation of Functionally Diverse Chimerical $\alpha$ -Glucosidase Enzymes by Swapping Homologous Gene Fragments Retrieved from Soil DNA. Indian Journal of Microbiology, 2015, 55, 114-117.	2.7	5
25	Catalytically active inclusion bodies (CatIBs) induced by terminally attached self-assembling coiled-coil domains: To enhance the stability of (R)-hydroxynitrile lyase. Enzyme and Microbial Technology, 2022, 153, 109915.	3.2	5
26	Efficient Production of 2,6-Difluorobenzamide by Recombinant Escherichia coli Expressing the Aurantimonas manganoxydans Nitrile Hydratase. Applied Biochemistry and Biotechnology, 2019, 187, 439-448.	2.9	4
27	Controlled chemical assembly of enzymes in cell lysate enabled by genetic-encoded nonstandard amino acids. Materials Chemistry Frontiers, 2022, 6, 182-193.	5.9	4
28	Controllably crosslinked dual enzymes enabled by genetic-encoded non-standard amino acid for efficiently enantioselective hydrogenation. International Journal of Biological Macromolecules, 2022, 205, 682-691.	7.5	4