

Bian Wu

List of Publications by Year in descending order

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45
papers

1,552
citations

279487

23
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315357

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57
docs citations

57
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in biocatalysis of nitrogen-containing heterocycles. <i>Biotechnology Advances</i> , 2022, 54, 107813.	6.0	23
2	Traceless enzymatic protein synthesis without ligation sites constraint. <i>National Science Review</i> , 2022, 9, .	4.6	8
3	A Peptide Derived from GAPDH Enhances Resistance to DNA Damage in <i>Saccharomyces cerevisiae</i> Cells. <i>Applied and Environmental Microbiology</i> , 2022, 88, aem0219421.	1.4	3
4	Computational enzyme redesign: large jumps in function. <i>Trends in Chemistry</i> , 2022, 4, 409-419.	4.4	24
5	Monitoring Methionine Decarboxylase by a Supramolecular Tandem Assay. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	4
6	Protein design with a machine-learned potential about backbone designability. <i>Trends in Biochemical Sciences</i> , 2022, , .	3.7	0
7	Creating an Unusual Glycine-Rich Motif in a Peptide Amidase Leads to Versatile Protein C-Terminal Traceless Functionalization. <i>ACS Catalysis</i> , 2022, 12, 8019-8026.	5.5	5
8	Computational Redesign of a PETase for Plastic Biodegradation under Ambient Condition by the GRAPE Strategy. <i>ACS Catalysis</i> , 2021, 11, 1340-1350.	5.5	263
9	GRAPE, a greedy accumulated strategy for computational protein engineering. <i>Methods in Enzymology</i> , 2021, 648, 207-230.	0.4	5
10	Construction of an Alternative NAD ⁺ De Novo Biosynthesis Pathway. <i>Advanced Science</i> , 2021, 8, 2004632.	5.6	11
11	Development of a versatile and efficient C ^N lyase platform for asymmetric hydroamination via computational enzyme redesign. <i>Nature Catalysis</i> , 2021, 4, 364-373.	16.1	39
12	Engineered DNase-inactive Cpf1 variants to improve targeting scope for base editing in <i>E. coli</i> . <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 326-334.	1.8	3
13	Reductase of Mutanobactin Synthetase Triggers Sequential C ^C Macrocyclization, C ^S Bond Formation, and C ^C Bond Cleavage. <i>Organic Letters</i> , 2020, 22, 960-964.	2.4	6
14	Improving the System Performance of the Asymmetric Biosynthesis of <i>d</i> -Pantoic Acid by Using Artificially Self-Assembled Enzymes in <i>Escherichia coli</i> . <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 219-224.	2.6	4
15	Bioretrosynthesis of Functionalized <i>N</i> -Heterocycles from Glucose via One-Pot Tandem Collaborations of Designed Microbes. <i>Advanced Science</i> , 2020, 7, 2001188.	5.6	9
16	Characterization and efficient production of a thermostable, halostable and organic solvent-stable cellulase from an oil reservoir. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 622-629.	3.6	15
17	Exploration of Transaminase Diversity for the Oxidative Conversion of Natural Amino Acids into 2-Ketoacids and High-Value Chemicals. <i>ACS Catalysis</i> , 2020, 10, 7950-7957.	5.5	14
18	Molecular dynamics investigations of structural and functional changes in Bcl-2 induced by the novel antagonist BDA-366. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 2527-2537.	2.0	4

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19	Biochemical and structural characterization of a highly active branched-chain amino acid aminotransferase from <i>Pseudomonas</i> sp. for efficient biosynthesis of chiral amino acids. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8051-8062.	1.7	7
20	Thermostability improvement of the glucose oxidase from <i>Aspergillus niger</i> for efficient gluconic acid production via computational design. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 1060-1068.	3.6	39
21	Engineering improved thermostability of the GH11 xylanase from <i>Neocallimastix patriciarum</i> via computational library design. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3675-3685.	1.7	40
22	Enzymatic clickable functionalization of peptides via computationally engineered peptide amidase. <i>Chinese Chemical Letters</i> , 2018, 29, 1116-1118.	4.8	6
23	<i>Cryptococcus neoformans</i> sexual reproduction is controlled by a quorum sensing peptide. <i>Nature Microbiology</i> , 2018, 3, 698-707.	5.9	47
24	Computational redesign of enzymes for regio- and enantioselective hydroamination. <i>Nature Chemical Biology</i> , 2018, 14, 664-670.	3.9	137
25	Regio- and Stereospecific <i>O</i> -Glycosylation of Phenolic Compounds Catalyzed by a Fungal Glycosyltransferase from <i>Mucor hiemalis</i> . <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 995-1006.	2.1	28
26	Peptiligase, an Enzyme for Efficient Chemoenzymatic Peptide Synthesis and Cyclization in Water. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2140-2147.	2.1	62
27	Versatile Peptide C-Terminal Functionalization via a Computationally Engineered Peptide Amidase. <i>ACS Catalysis</i> , 2016, 6, 5405-5414.	5.5	60
28	Engineering a Diverse Ligase Toolbox for Peptide Segment Condensation. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 4041-4048.	2.1	34
29	Enzymatic network for production of ether amines from alcohols. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1853-1861.	1.7	23
30	Peptide synthesis in neat organic solvents with novel thermostable proteases. <i>Enzyme and Microbial Technology</i> , 2015, 73-74, 20-28.	1.6	18
31	Structural Investigations into the Stereochemistry and Activity of a Phenylalanine-2,3-aminomutase from <i>Taxus chinensis</i> . <i>Biochemistry</i> , 2014, 53, 3187-3198.	1.2	21
32	One-Step C-Terminal Deprotection and Activation of Peptides with Peptide Amidase from <i>Stenotrophomonas maltophilia</i> in Neat Organic Solvent. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2197-2202.	2.1	7
33	Redesign of a Phenylalanine Aminomutase into a Phenylalanine Ammonia Lyase. <i>ChemCatChem</i> , 2013, 5, 1797-1802.	1.8	27
34	Azobenzene Photoswitches for Staudinger-Bertozzi Ligation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2068-2072.	7.2	44
35	Priming ammonia lyases and aminomutases for industrial and therapeutic applications. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 250-260.	2.8	85
36	Proteolysin, a Novel Highly Thermostable and Cosolvent-Compatible Protease from the Thermophilic Bacterium <i>Coprothermobacter proteolyticus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 5625-5632.	1.4	31

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37	Biochemical Properties and Crystal Structure of a β^2 -Phenylalanine Aminotransferase from <i>Variovorax paradoxus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 185-195.	1.4	29
38	Mechanism-Inspired Engineering of Phenylalanine Aminomutase for Enhanced β^2 -Regioselective Asymmetric Amination of Cinnamates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 482-486.	7.2	48
39	Aminomutases: mechanistic diversity, biotechnological applications and future perspectives. <i>Trends in Biotechnology</i> , 2011, 29, 352-362.	4.9	54
40	Efficient Tandem Biocatalytic Process for the Kinetic Resolution of Aromatic β^2 -Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1409-1412.	2.1	37
41	Engineering of an enantioselective tyrosine aminomutase by mutation of a single active site residue in phenylalanine aminomutase. <i>Chemical Communications</i> , 2010, 46, 8157.	2.2	23
42	Enantiomerically pure β^2 -phenylalanine analogues from β^1 - β^2 -phenylalanine mixtures in a single reactive extraction step. <i>Chemical Communications</i> , 2010, 46, 901-903.	2.2	26
43	Enzymatic Synthesis of Enantiopure β^1 - and β^2 -Amino Acids by Phenylalanine Aminomutase-Catalysed Amination of Cinnamic Acid Derivatives. <i>ChemBioChem</i> , 2009, 10, 338-344.	1.3	71
44	Phenylalanine Aminomutase-Catalyzed Addition of Ammonia to Substituted Cinnamic Acids: a Route to Enantiopure β^1 - and β^2 -Amino Acids. <i>Journal of Organic Chemistry</i> , 2009, 74, 9152-9157.	1.7	69
45	(S)- β^3 -aminopiperidine-2,6-dione is a biosynthetic intermediate of microbial blue pigment indigoidine. , 0, , .		0