

Shuaihua Gao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Genome mining integrating semi-rational protein engineering and nanoreactor design: roadmap for a robust biocatalyst for industrial resolution of Vince lactam. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 1109-1123.	3.6	4
2	Enantioselective synthesis of a chiral intermediate of himbacine analogs by <i>Burkholderia cepacia</i> lipase A. <i>Biotechnology Letters</i> , 2020, 42, 2643-2651.	2.2	0
3	Hydrogen-Deuterium Exchange within Adenosine Deaminase, a TIM Barrel Hydrolase, Identifies Networks for Thermal Activation of Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 19936-19949.	13.7	18
4	Hydrogen deuterium exchange defines catalytically linked regions of protein flexibility in the catechol <i>O</i> -methyltransferase reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10797-10805.	7.1	19
5	Preparation of the enantiomerically enriched precursor of lamivudine (3TC) via asymmetric catalysis mediated by <i>Klebsiella oxytoca</i> . <i>Process Biochemistry</i> , 2019, 81, 77-84.	3.7	5
6	Structural Insights into Catalytic Versatility of the Flavin-dependent Hydroxylase (HpaB) from <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 7087.	3.3	17
7	Enhancement in the catalytic activity of <i>Sulfolobus solfataricus</i> P2 (+)- $\hat{1}^3$ -lactamase by semi-rational design with the aid of a newly established high-throughput screening method. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 251-263.	3.6	3
8	Engineering the Enantioselectivity and Thermostability of a (+)- $\hat{1}^3$ -Lactamase from <i>Microbacterium hydrocarbonoxydans</i> for Kinetic Resolution of Vince Lactam (2-Azabicyclo[2.2.1]hept-5-en-3-one). <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	17
9	Enantioselective resolution of $\hat{1}^3$ -lactam utilizing a novel (+)- $\hat{1}^3$ -lactamase from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , 2018, 72, 96-104.	3.7	5
10	Structural insights into the $\hat{1}^3$ -lactamase activity and substrate enantioselectivity of an isochorismatase-like hydrolase from <i>Microbacterium hydrocarbonoxydans</i> . <i>Scientific Reports</i> , 2017, 7, 44542.	3.3	9
11	Characterization of a (R)-selective amine transaminase from <i>Fusarium oxysporum</i> . <i>Process Biochemistry</i> , 2017, 63, 130-136.	3.7	32
12	Identification and characterization of a novel (+)- $\hat{1}^3$ -lactamase from <i>Microbacterium hydrocarbonoxydans</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9543-9553.	3.6	18
13	Discovery and characterization of a second extremely thermostable (+)- $\hat{1}^3$ -lactamase from <i>Sulfolobus solfataricus</i> P2. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 484-490.	2.2	12
14	Efficient synthesis of the intermediate of abacavir and carbovir using a novel (+)- $\hat{1}^3$ -lactamase as a catalyst. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3878-3881.	2.2	26
15	Discovery of a Novel (+)- $\hat{1}^3$ -Lactamase from <i>Bradyrhizobium japonicum</i> USDA 6 by Rational Genome Mining. <i>Applied and Environmental Microbiology</i> , 2012, 78, 7492-7495.	3.1	33