

Leilei Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

853
citations

623734

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677142

22
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23
all docs

23
docs citations

23
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-free chemoenzymatic starch synthesis from carbon dioxide. <i>Science</i> , 2021, 373, 1523-1527.	12.6	274
2	Directed evolution 2.0: improving and deciphering enzyme properties. <i>Chemical Communications</i> , 2015, 51, 9760-9772.	4.1	122
3	A Whole Cell <i>E. coli</i> Display Platform for Artificial Metalloenzymes: Poly(phenylacetylene) Production with a Rhodium ⁺ Nitrobindin Metalloprotein. <i>ACS Catalysis</i> , 2018, 8, 2611-2614.	11.2	71
4	Enhanced Extracellular Production of <i>Isi</i> PETase in <i>Escherichia coli</i> via Engineering of the pelB Signal Peptide. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2245-2252.	5.2	56
5	Cavity Size Engineering of a β -Barrel Protein Generates Efficient Biohybrid Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2018, 8, 3358-3364.	11.2	39
6	Directed Evolution of an Antitumor Drug (Arginine Deiminase PpADI) for Increased Activity at Physiological pH. <i>ChemBioChem</i> , 2010, 11, 691-697.	2.6	35
7	A Competitive Flow Cytometry Screening System for Directed Evolution of Therapeutic Enzyme. <i>ACS Synthetic Biology</i> , 2015, 4, 768-775.	3.8	31
8	Directed arginine deiminase evolution for efficient inhibition of arginine-auxotrophic melanomas. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1237-1247.	3.6	29
9	A Potential Antitumor Drug (Arginine Deiminase) Reengineered for Efficient Operation under Physiological Conditions. <i>ChemBioChem</i> , 2010, 11, 2294-2301.	2.6	27
10	Grafting PNIPAAm from β -barrel shaped transmembrane nanopores. <i>Biomaterials</i> , 2016, 107, 115-123.	11.4	27
11	Engineered LPMO Significantly Boosting Cellulase-Catalyzed Depolymerization of Cellulose. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 15257-15266.	5.2	24
12	Loop engineering reveals the importance of active-site-decorating loops and gating residue in substrate affinity modulation of arginine deiminase (an anti-tumor enzyme). <i>Biochemical and Biophysical Research Communications</i> , 2018, 499, 233-238.	2.1	22
13	Protein Engineering of the Antitumor Enzyme PpADI for Improved Thermal Resistance. <i>ChemBioChem</i> , 2014, 15, 276-283.	2.6	18
14	Recent advances in droplet microfluidics for enzyme and cell factory engineering. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 1023-1045.	9.0	16
15	Totally atom-economical synthesis of lactic acid from formaldehyde: combined bio-carboligation and chemo-rearrangement without the isolation of intermediates. <i>Green Chemistry</i> , 2020, 22, 6809-6814.	9.0	14
16	In Situ Monitoring of Membrane Protein Insertion into Block Copolymer Vesicle Membranes and Their Spreading via Potential-Assisted Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29276-29289.	8.0	13
17	Rational surface engineering of an arginine deiminase (an antitumor enzyme) for increased PEGylation efficiency. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2156-2166.	3.3	12
18	Synergistic effects of multiple enzymes from industrial <i>Aspergillus niger</i> strain O1 on starch saccharification. <i>Biotechnology for Biofuels</i> , 2021, 14, 225.	6.2	9

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19	One-pot chemoenzymatic synthesis of glycolic acid from formaldehyde. <i>Green Chemistry</i> , 2022, 24, 5064-5069.	9.0	9
20	Directed Evolution and Rational Design of Mechanosensitive Channel MscCG2 for Improved Glutamate Excretion Efficiency. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 15660-15669.	5.2	2
21	Biocatalytic CO ₂ fixation initiates selective oxidative cracking of 1-naphthol under ambient conditions. <i>Green Chemistry</i> , 2022, 24, 4766-4771.	9.0	2
22	Chemoenzymatic conversion of glycerol to lactic acid and glycolic acid. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	4.2	1