Bekir E Eser

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6623756/publications.pdf

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27	804	623734	501196
papers	citations	14	28
		h-index	g-index

36	36	36	869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct Spectroscopic Evidence for a High-Spin Fe(IV) Intermediate in Tyrosine Hydroxylase. Journal of the American Chemical Society, 2007, 129, 11334-11335.	13.7	164
2	Oxygenâ€Independent Decarbonylation of Aldehydes by Cyanobacterial Aldehyde Decarbonylase: A New Reaction of Diiron Enzymes. Angewandte Chemie - International Edition, 2011, 50, 7148-7152.	13.8	98
3	Oxygen-Independent Alkane Formation by Non-Heme Iron-Dependent Cyanobacterial Aldehyde Decarbonylase: Investigation of Kinetics and Requirement for an External Electron Donor. Biochemistry, 2011, 50, 10743-10750.	2.5	70
4	Liquid Crystalline Mesophases of Pluronics (L64, P65, and P123) and Transition Metal Nitrate Salts ([M(H2O)6](NO3)2). Langmuir, 2005, 21, 4156-4162.	3.5	60
5	Spectroscopy and Kinetics of Wild-Type and Mutant Tyrosine Hydroxylase: Mechanistic Insight into O₂ Activation. Journal of the American Chemical Society, 2009, 131, 7685-7698.	13.7	48
6	From Suicide Enzyme to Catalyst: The Iron-Dependent Sulfide Transfer in Methanococcus jannaschii Thiamin Thiazole Biosynthesis. Journal of the American Chemical Society, 2016, 138, 3639-3642.	13.7	39
7	Synthesis of high-titer alka(e)nes in Yarrowia lipolytica is enabled by a discovered mechanism. Nature Communications, 2020, 11, 6198.	12.8	32
8	Measurement of Intrinsic Rate Constants in the Tyrosine Hydroxylase Reaction. Biochemistry, 2010, 49, 645-652.	2.5	25
9	Structural Basis for Iron-Mediated Sulfur Transfer in Archael and Yeast Thiazole Synthases. Biochemistry, 2016, 55, 1826-1838.	2.5	24
10	Rational Engineering of Hydratase from Lactobacillus acidophilus Reveals Critical Residues Directing Substrate Specificity and Regioselectivity. ChemBioChem, 2020, 21, 550-563.	2.6	23
11	Thai Curcuma Species: Antioxidant and Bioactive Compounds. Foods, 2020, 9, 1219.	4.3	23
12	Single Turnover Kinetics of Tryptophan Hydroxylase: Evidence for a New Intermediate in the Reaction of the Aromatic Amino Acid Hydroxylases. Biochemistry, 2010, 49, 7563-7571.	2.5	19
13	Pulsed EPR Study of Amino Acid and Tetrahydropterin Binding in a Tyrosine Hydroxylase Nitric Oxide Complex: Evidence for Substrate Rearrangements in the Formation of the Oxygen-Reactive Complex. Biochemistry, 2013, 52, 8430-8441.	2.5	19
14	Coupling light with biocatalysis for sustainable synthesisâ€”very recent developments and future perspectives. Current Opinion in Green and Sustainable Chemistry, 2021, 31, 100496.	5.9	18
15	Fatty acid hydratase for value-added biotransformation: A review. Chinese Journal of Chemical Engineering, 2020, 28, 2051-2063.	3.5	15
16	HYSCORE Analysis of the Effects of Substrates on Coordination of Water to the Active Site Iron in Tyrosine Hydroxylase. Biochemistry, 2015, 54, 3759-3771.	2.5	14
17	Optimization and Engineering of Fatty Acid Photodecarboxylase for Substrate Specificity. ChemCatChem, 2021, 13, 4038-4046.	3.7	13
18	Beyond flower-like structure â€“ The synergy within Pd/Ni-Al hydrotalcite for base-free oxidation of benzyl alcohols. Applied Catalysis A: General, 2021, 610, 117972.	4.3	12

#	Article	IF	Citations
19	Self-sufficient Cytochrome P450s and their potential applications in biotechnology. Chinese Journal of Chemical Engineering, 2021, 30, 121-135.	3.5	11
20	Gut Metabolism of Furanocoumarins: Proposed Function of Co O-Methyltransferase. ACS Omega, 2020, 5, 30696-30703.	3.5	11
21	A Biâ€Enzymatic Cascade Pathway towards Optically Pure FAHFAs**. ChemBioChem, 2021, 22, 2146-2153.	2.6	10
22	A new thermophilic extradiol dioxygenase promises biodegradation of catecholic pollutants. Journal of Hazardous Materials, 2022, 422, 126860.	12.4	9
23	Characterization and modification of two self-sufficient CYP102 family enzymes from Bacillus amyloliquefaciens DSM 7 with distinct regioselectivity towards fatty acid hydroxylation. Biochemical Engineering Journal, 2021, 166, 107871.	3.6	7
24	Optimization and Engineering of a Self-Sufficient CYP102 Enzyme from Bacillus amyloliquefaciens towards Synthesis of In-Chain Hydroxy Fatty Acids. Catalysts, 2021, 11, 665.	3.5	5
25	Semiâ€rational Engineering of a Promiscuous Fatty Acid Hydratase for Alteration of Regioselectivity. ChemBioChem, 2022, 23, e202100606.	2.6	4
26	Effects of the engineering of a single binding pocket residue on specificity and regioselectivity of hydratases from Lactobacillus Acidophilus. Biochemical Engineering Journal, 2021, 171, 108006.	3.6	3
27	Fatty Acid Hydratase for Value-added Biotransformation. , 0, , .		0