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List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,183
citations

361413

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h-index

477307

29
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29
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docs citations

29
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	3DM: Systematic analysis of heterogeneous superfamily data to discover protein functionalities. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, NA-NA.	2.6	115
2	The growing VAO flavoprotein family. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 292-301.	3.0	107
3	Occurrence and Biocatalytic Potential of Carbohydrate Oxidases. <i>Advances in Applied Microbiology</i> , 2006, 60, 17-54.	2.4	87
4	Galactonolactone dehydrogenase from <i>Arabidopsis thaliana</i> , a flavoprotein involved in vitamin C biosynthesis. <i>FEBS Journal</i> , 2008, 275, 713-726.	4.7	86
5	Identification of a Gatekeeper Residue That Prevents Dehydrogenases from Acting as Oxidases. <i>Journal of Biological Chemistry</i> , 2009, 284, 4392-4397.	3.4	83
6	Correlated mutation analyses on superfamily alignments reveal functionally important residues. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 76, 608-616.	2.6	77
7	Proton-Coupled Electron Transfer in the Catalytic Cycle of <i>Alcaligenes xylosoxidans</i> Copper-Dependent Nitrite Reductase. <i>Biochemistry</i> , 2011, 50, 4121-4131.	2.5	64
8	Galactonolactone Dehydrogenase Requires a Redox-Sensitive Thiol for Optimal Production of Vitamin C. <i>Plant Physiology</i> , 2009, 150, 596-605.	4.8	58
9	Structural Basis of Catalysis in the Bacterial Monoterpene Synthases Linalool Synthase and 1,8-Cineole Synthase. <i>ACS Catalysis</i> , 2017, 7, 6268-6282.	11.2	47
10	A "Plug and Play" Platform for the Production of Diverse Monoterpene Hydrocarbon Scaffolds in <i>Escherichia coli</i> . <i>ChemistrySelect</i> , 2016, 1, 1893-1896.	1.5	42
11	Laboratory evolution of <i>Pyrococcus furiosus</i> alcohol dehydrogenase to improve the production of (2S,5S)-hexanediol at moderate temperatures. <i>Extremophiles</i> , 2008, 12, 587-594.	2.3	37
12	Impact of residues remote from the catalytic centre on enzyme catalysis of copper nitrite reductase. <i>Nature Communications</i> , 2014, 5, 4395.	12.8	36
13	Experiment and Simulation Reveal How Mutations in Functional Plasticity Regions Guide Plant Monoterpene Synthase Product Outcome. <i>ACS Catalysis</i> , 2018, 8, 3780-3791.	11.2	32
14	Gating mechanisms for biological electron transfer: Integrating structure with biophysics reveals the nature of redox control in cytochrome P450 reductase and copper-dependent nitrite reductase. <i>FEBS Letters</i> , 2012, 586, 578-584.	2.8	31
15	Chemo-enzymatic routes towards the synthesis of bio-based monomers and polymers. <i>Molecular Catalysis</i> , 2019, 467, 95-110.	2.0	30
16	Exploring novel bacterial terpene synthases. <i>PLoS ONE</i> , 2020, 15, e0232220.	2.5	30
17	Isopentenol Utilization Pathway for the Production of Linalool in <i>Escherichia coli</i> Using an Improved Bacterial Linalool/Nerolidol Synthase. <i>ChemBioChem</i> , 2021, 22, 2325-2334.	2.6	28
18	Energy Landscapes and Catalysis in Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2014, 289, 11725-11738.	3.4	25

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19	Laser flash photolysis indicates that internal electron transfer is triggered by proton uptake by <i>Alcaligenes xylosoxidans</i> copper-dependent nitrite reductase. FEBS Journal, 2012, 279, 2174-2181.	4.7	24
20	Towards the free energy landscape for catalysis in mammalian nitric oxide synthases. FEBS Journal, 2015, 282, 3016-3029.	4.7	23
21	An automated pipeline for the screening of diverse monoterpene synthase libraries. Scientific Reports, 2019, 9, 11936.	3.3	21
22	Functional assignment of Glu386 and Arg388 in the active site of <i>Galactonolactone dehydrogenase</i> . FEBS Letters, 2009, 583, 3199-3203.	2.8	20
23	Communication between <i>Galactonolactone dehydrogenase</i> and cytochrome <i>c</i> . FEBS Journal, 2013, 280, 1830-1840.	4.7	19
24	Correlating Calmodulin Landscapes with Chemical Catalysis in Neuronal Nitric Oxide Synthase using Time-Resolved FRET and a 5-Deazaflavin Thermodynamic Trap. ACS Catalysis, 2016, 6, 5170-5180.	11.2	15
25	Galactonolactone oxidoreductase from <i>Trypanosoma cruzi</i> employs a FAD cofactor for the synthesis of vitamin C. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 545-552.	2.3	14
26	Taming the Reactivity of Monoterpene Synthases To Guide Regioselective Product Hydroxylation. ChemBioChem, 2020, 21, 985-990.	2.6	13
27	Predictive Engineering of Class I Terpene Synthases Using Experimental and Computational Approaches. ChemBioChem, 2022, 23, .	2.6	12
28	Molecular Determinants of Carbocation Cyclisation in Bacterial Monoterpene Synthases. ChemBioChem, 2022, 23, .	2.6	5
29	Aldonolactone Oxidoreductases. Methods in Molecular Biology, 2014, 1146, 95-111.	0.9	2