

Elvira Romero

List of Publications by Year in descending order

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31
papers

1,306
citations

516561

16
h-index

414303

32
g-index

33
all docs

33
docs citations

33
times ranked

1370
citing authors

#	ARTICLE	IF	CITATIONS
1	Same Substrate, Many Reactions: Oxygen Activation in Flavoenzymes. <i>Chemical Reviews</i> , 2018, 118, 1742-1769.	23.0	306
2	Biocatalysis. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	255
3	Crystal structures and atomic model of NADPH oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6764-6769.	3.3	117
4	Characterization and Crystal Structure of a Robust Cyclohexanone Monooxygenase. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15852-15855.	7.2	92
5	Enzymatic Late-Stage Modifications: Better Late Than Never. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16824-16855.	7.2	75
6	Alcohol oxidation by flavoenzymes. <i>Biomolecular Concepts</i> , 2014, 5, 299-318.	1.0	37
7	New oxidase from <i>Bjerkandera arthroconidial anamorph</i> that oxidizes both phenolic and nonphenolic benzyl alcohols. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 689-697.	1.1	36
8	Dual role of NADP(H) in the reaction of a flavin dependent N-hydroxylating monooxygenase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 850-857.	1.1	33
9	Baeyer-Villiger Monooxygenase FMO5 as Entry Point in Drug Metabolism. <i>ACS Chemical Biology</i> , 2017, 12, 2379-2387.	1.6	32
10	In vitro heme biotransformation by the HupZ enzyme from Group A streptococcus. <i>BioMetals</i> , 2016, 29, 593-609.	1.8	27
11	Nicotinamide Adenine Dinucleotide-Dependent Redox-Neutral Convergent Cascade for Lactonizations with Type II Flavin-Containing Monooxygenase. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2142-2148.	2.1	27
12	An anamorph of the white-rot fungus <i>Bjerkandera adusta</i> capable of colonizing and degrading compact disc components. <i>FEMS Microbiology Letters</i> , 2007, 275, 122-129.	0.7	26
13	Characterization and Crystal Structure of a Robust Cyclohexanone Monooxygenase. <i>Angewandte Chemie</i> , 2016, 128, 16084-16087.	1.6	26
14	Structure-Based Engineering of <i>Phanerochaete chrysosporium</i> Alcohol Oxidase for Enhanced Oxidative Power toward Glycerol. <i>Biochemistry</i> , 2018, 57, 6209-6218.	1.2	25
15	Engineering Cyclohexanone Monooxygenase for the Production of Methyl Propanoate. <i>ACS Chemical Biology</i> , 2017, 12, 291-299.	1.6	24
16	Characterization of a thermostable flavin-containing monooxygenase from <i>Nitrocola lacinisaponensis</i> (NiFMO). <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1755-1764.	1.7	18
17	Arg279 is the key regulator of coenzyme selectivity in the flavin-dependent ornithine monooxygenase SidA. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 778-784.	1.1	15
18	Kinetic Resolution of α -Thiols by Enantioselective Oxidation with Rationally Engineered 5-(Hydroxymethyl)furfural Oxidase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2864-2868.	7.2	15

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19	Side-Chain Pruning Has Limited Impact on Substrate Preference in a Promiscuous Enzyme. ACS Catalysis, 2018, 8, 11648-11656.	5.5	15
20	Two tyrosine residues, Tyr-108 and Tyr-503, are responsible for the deprotonation of phenolic substrates in vanillyl-alcohol oxidase. Journal of Biological Chemistry, 2017, 292, 14668-14679.	1.6	14
21	Expression and Characterization of a Dye-Decolorizing Peroxidase from Pseudomonas Fluorescens Pf0-1. Catalysts, 2019, 9, 463.	1.6	14
22	Solvent-Slaved Motions in the Hydride Tunneling Reaction Catalyzed by Human Glycolate Oxidase. ACS Catalysis, 2016, 6, 2113-2120.	5.5	12
23	Mechanistic and Crystallographic Studies of Azoreductase AzoA from <i>Bacillus wakoensis</i> A01. ACS Chemical Biology, 2020, 15, 504-512.	1.6	11
24	Enzymkatalysierte spÄte Modifizierungen: Besser spÄt als nie. Angewandte Chemie, 2021, 133, 16962-16993.	1.6	11
25	Molecular Basis for Converting (2S)-Methylsuccinyl-CoA Dehydrogenase into an Oxidase. Molecules, 2018, 23, 68.	1.7	10
26	A Perspective on Synthetic Biology in Drug Discovery and Developmentâ€”Current Impact and Future Opportunities. SLAS Discovery, 2021, 26, 581-603.	1.4	10
27	Monitoring the Reductive and Oxidative Half-Reactions of a Flavin-Dependent Monooxygenase using Stopped-Flow Spectrophotometry. Journal of Visualized Experiments, 2012, , .	0.2	6
28	Whole-cell screening of oxidative enzymes using genetically encoded sensors. Chemical Science, 2021, 12, 14766-14772.	3.7	6
29	Evidence for proton tunneling and a transient covalent flavin-substrate adduct in choline oxidase S101A. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1470-1478.	1.1	4
30	Kinetic Resolution of <i>sec</i> -Thiols by Enantioselective Oxidation with Rationally Engineered 5â€“(Hydroxymethyl)furfural Oxidase. Angewandte Chemie, 2018, 130, 2914-2918.	1.6	3
31	Titelbild: Enzymkatalysierte spÄte Modifizierungen: Besser spÄt als nie (Angew. Chem. 31/2021). Angewandte Chemie, 2021, 133, 16853-16853.	1.6	1