

Murielle Lombard

List of Publications by Year in descending order

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29
papers

1,020
citations

567247

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h-index

501174

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all docs

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docs citations

31
times ranked

1008
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction of the Desulfoferrodoxin from <i>Desulfoarculus baarsii</i> with Superoxide Anion. <i>Journal of Biological Chemistry</i> , 2000, 275, 115-121.	3.4	137
2	Biosynthesis and physiology of coenzyme Q in bacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1004-1011.	1.0	123
3	Identification of Iron(III) Peroxo Species in the Active Site of the Superoxide Reductase SOR from <i>Desulfoarculus baarsii</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 4966-4967.	13.7	109
4	Superoxide Reductase from <i>Desulfoarculus baarsii</i> : Reaction Mechanism and Role of Glutamate 47 and Lysine 48 in Catalysis. <i>Biochemistry</i> , 2001, 40, 5032-5040.	2.5	93
5	Enzymatic transformations. Part 58: Enantioconvergent biohydrolysis of styrene oxide derivatives catalysed by the <i>Solanum tuberosum</i> epoxide hydrolase. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2801-2805.	1.8	92
6	Superoxide Reductase from <i>Desulfoarculus baarsii</i> : Identification of Protonation Steps in the Enzymatic Mechanism. <i>Biochemistry</i> , 2004, 43, 808-818.	2.5	63
7	Pulse radiolysis studies on superoxide reductase from <i>Treponema pallidum</i> . <i>FEBS Letters</i> , 2001, 497, 171-173.	2.8	47
8	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. <i>Cell Chemical Biology</i> , 2019, 26, 482-492.e7.	5.2	46
9	UbiL, a New Gene in <i>Escherichia coli</i> Coenzyme Q Biosynthesis, Is Involved in Aerobic C5-hydroxylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 20085-20092.	3.4	45
10	Superoxide Reductase as a Unique Defense System against Superoxide Stress in the Microaerophile <i>Treponema pallidum</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 27021-27026.	3.4	41
11	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor UbiJ. <i>Journal of Biological Chemistry</i> , 2017, 292, 11937-11950.	3.4	35
12	Ubiquinone Biosynthesis over the Entire O ₂ Range: Characterization of a Conserved O ₂ -Independent Pathway. <i>MBio</i> , 2019, 10, .	4.1	34
13	The O ₂ -independent pathway of ubiquinone biosynthesis is essential for denitrification in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 9021-9032.	3.4	25
14	A Residue in MutY Important for Catalysis Identified by Photocross-Linking and Mass Spectrometry. <i>Biochemistry</i> , 2004, 43, 651-662.	2.5	21
15	Flavin-dependent epitranscriptomic world. <i>Archives of Biochemistry and Biophysics</i> , 2017, 632, 28-40.	3.0	17
16	Expression in yeast, new substrates, and construction of a first 3D model of human orphan cytochrome P450 2U1: Interpretation of substrate hydroxylation regioselectivity from docking studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1426-1437.	2.4	16
17	Coenzyme Q Biosynthesis: Evidence for a Substrate Access Channel in the FAD-Dependent Monooxygenase Coq6. <i>PLoS Computational Biology</i> , 2016, 12, e1004690.	3.2	10
18	A new cytochrome P450 belonging to the 107L subfamily is responsible for the efficient hydroxylation of the drug terfenadine by <i>Streptomyces platensis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2011, 508, 54-63.	3.0	9

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19	A chemical chaperone induces inhomogeneous conformational changes in flexible proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20410-20421.	2.8	9
20	Dihydrouridine in the Transcriptome: New Life for This Ancient RNA Chemical Modification. <i>ACS Chemical Biology</i> , 2022, 17, 1638-1657.	3.4	9
21	Intermolecular electron transfer in two-iron superoxide reductase: a putative role for the desulforedoxin center as an electron donor to the iron active site. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 889-898.	2.6	8
22	Dihydrouridine synthesis in tRNAs is under reductive evolution in Mollicutes. <i>RNA Biology</i> , 2021, 18, 2278-2289.	3.1	7
23	An enzymatic activation of formaldehyde for nucleotide methylation. <i>Nature Communications</i> , 2021, 12, 4542.	12.8	6
24	Superoxide reductase from <i>Desulfoarculus baarsii</i> . <i>Methods in Enzymology</i> , 2002, 349, 123-129.	1.0	5
25	Oxidation of terfenadine by <i>Streptomyces platensis</i> : Influence of culture medium on metabolite formation. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 401-407.	2.0	5
26	Biooxidation of methyl group: Part 2. Evidences for the involvement of cytochromes P450 in microbial multistep oxidation of terfenadine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 172-178.	1.8	3
27	Ultrafast dynamics of fully reduced flavin in catalytic structures of thymidylate synthase ThyX. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22692-22702.	2.8	3
28	Power of protein/tRNA functional assembly against aberrant aggregation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28014-28027.	2.8	1
29	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0