Joao V Rodrigues

List of Publications by Year
in descending order

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34 papers	1,448 citations	361413 20 h-index	434195 31 g-index
42 all docs	42 docs citations	42 times ranked	2236 citing authors

#	Article	IF	Citations
1	Simplified 2,4-dinitrophenylhydrazine spectrophotometric assay for quantification of carbonyls in oxidized proteins. Analytical Biochemistry, 2014, 458, 69-71.	2.4	289
2	Biophysical principles predict fitness landscapes of drug resistance. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1470-8.	7.1	132
3	Free Superoxide is an Intermediate in the Production of H₂O₂ by Copper(I)â€Aî² Peptide and O₂. Angewandte Chemie - International Edition, 2016, 55, 1085-1089.	13.8	95
4	Differential Enzyme Flexibility Probed Using Solid-State Nanopores. ACS Nano, 2018, 12, 4494-4502.	14.6	83
5	Protein stability in an ionic liquid milieu: on the use of differential scanning fluorimetry. Physical Chemistry Chemical Physics, 2011, 13, 13614.	2.8	69
6	Role of Flavinylation in a Mild Variant of Multiple Acyl-CoA Dehydrogenation Deficiency. Journal of Biological Chemistry, 2009, 284, 4222-4229.	3.4	67
7	Mechanism of superoxide and hydrogen peroxide generation by human electron-transfer flavoprotein and pathological variants. Free Radical Biology and Medicine, 2012, 53, 12-19.	2.9	56
8	On the hunt for truly biocompatible ionic liquids for lipase-catalyzed reactions. RSC Advances, 2015, 5, 3386-3389.	3.6	54
9	Reductive elimination of superoxide: Structure and mechanism of superoxide reductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 285-297.	2.3	51
10	Superoxide Reduction Mechanism of Archaeoglobus fulgidus One-Iron Superoxide Reductase. Biochemistry, 2006, 45, 9266-9278.	2.5	45
11	Evolution on the Biophysical Fitness Landscape of an RNA Virus. Molecular Biology and Evolution, 2018, 35, 2390-2400.	8.9	45
12	Enhanced superoxide and hydrogen peroxide detection in biological assays. Free Radical Biology and Medicine, 2010, 49, 61-66.	2.9	40
13	Structuralâ€“functional evaluation of ionic liquid libraries for the design of co-solvents in lipase-catalysed reactions. Green Chemistry, 2014, 16, 4520-4523.	9.0	40
14	Cofactors and metabolites as potential stabilizers of mitochondrial acyl-CoA dehydrogenases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1658-1663.	3.8	36
15	Adaptation to mutational inactivation of an essential gene converges to an accessible suboptimal fitness peak. ELife, 2019, 8, .	6.0	36
16	Superoxide reduction by Archaeoglobus fulgidus desulfoferrodoxin: comparison with neelaredoxin. Journal of Biological Inorganic Chemistry, 2007, 12, 248-256.	2.6	35
17	Cofactors and Metabolites as Protein Folding Helpers in Metabolic Diseases. Current Topics in Medicinal Chemistry, 2013, 12, 2546-2559.	2.1	33
18	Rubredoxin acts as an electron donor for neelaredoxin in Archaeoglobus fulgidus. Biochemical and Biophysical Research Communications, 2005, 329, 1300-1305.	2.1	32

#	Article	IF	Citations
19	Stability of the Influenza Virus Hemagglutinin Protein Correlates with Evolutionary Dynamics. MSphere, 2018, 3, .	2.9	31
20	Proteostasis Environment Shapes Higher-Order Epistasis Operating on Antibiotic Resistance. Genetics, 2019, 212, 565-575.	2.9	30
21	Superoxide reduction by Nanoarchaeum equitans neelaredoxin, an enzyme lacking the highly conserved glutamate iron ligand. Journal of Biological Inorganic Chemistry, 2008, 13, 219-228.	2.6	24
22	Rational Design of Novel Allosteric Dihydrofolate Reductase Inhibitors Showing Antibacterial Effects on Drug-Resistant Escherichia coli Escape Variants. ACS Chemical Biology, 2017, 12, 1848-1857.	3.4	22
23	Ethylmalonic Encephalopathy ETHE1 R163W/R163Q Mutations Alter Protein Stability and Redox Properties of the Iron Centre. PLoS ONE, 2014, 9, e107157.	2.5	19
24	Free Superoxide is an Intermediate in the Production of H₂O₂ by Copper(I)â€Âî² Peptide and O₂. Angewandte Chemie, 2016, 128, 1097-1101.	2.0	18
25	Kinetics of electron transfer from NADH to the Escherichia coli nitric oxide reductase flavorubredoxin. FEBS Journal, 2007, 274, 677-686.	4.7	15
26	Mutations at the flavin binding site of ETF:QO yield a MADD-like severe phenotype in Drosophila. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1284-1292.	3.8	14
27	Resonance Raman study of the superoxide reductase from Archaeoglobus fulgidus, E12 mutants and a â€˜natural variantâ€™. Physical Chemistry Chemical Physics, 2009, 11, 1809.	2.8	13
28	Development of antibacterial compounds that constrain evolutionary pathways to resistance. ELife, 2021, 10, .	6.0	12
29	Chimeric dihydrofolate reductases display properties of modularity and biophysical diversity. Protein Science, 2019, 28, 1359-1367.	7.6	3
30	Purification, crystallization and X-ray crystallographic analysis ofArchaeoglobus fulgidusneelaredoxin. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 316-319.	0.7	2
31	OP028. Oral delivery of a new class of non-antibody protein scaffold Nanofitins targeting TNF-alpha shows a strong preventive and curative anti-inflammatory effect in models of inflammatory bowel diseases.. Journal of Crohn's and Colitis, 2015, 9, S17-S18.	1.3	0
32	Mo1687 Oral Delivery of a New Class of Non-Antibody Protein Scaffold Nanofitins Targeting TNF-Alpha Shows a Strong Preventive and Curative Anti-Inflammatory Effect in Models of Inflammatory Bowel Diseases. Gastroenterology, 2015, 148, S-685.	1.3	0
33	Switching an active site helix in dihydrofolate reductase reveals limits to subdomain modularity. Biophysical Journal, 2021, 120, 4738-4750.	0.5	0
34	CHAPTER 37. Riboflavin and Î²-oxidation Flavoenzymes. Food and Nutritional Components in Focus, 2012, , 611-632.	0.1	0