

Teresa Santos-Silva

List of Publications by Year in descending order

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54
papers

1,724
citations

304368

22
h-index

288905

40
g-index

56
all docs

56
docs citations

56
times ranked

2051
citing authors

#	ARTICLE	IF	CITATIONS
1	CORM-3 Reactivity toward Proteins: The Crystal Structure of a Ru(II) Dicarbonyl π -Lysozyme Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 1192-1195.	6.6	178
2	Vanadium and proteins: Uptake, transport, structure, activity and function. <i>Coordination Chemistry Reviews</i> , 2015, 301-302, 49-86.	9.5	166
3	Structure and function of mammalian aldehyde oxidases. <i>Archives of Toxicology</i> , 2016, 90, 753-780.	1.9	95
4	Structural insights into xenobiotic and inhibitor binding to human aldehyde oxidase. <i>Nature Chemical Biology</i> , 2015, 11, 779-783.	3.9	85
5	Ion jelly: a tailor-made conducting material for smart electrochemical devices. <i>Chemical Communications</i> , 2008, , 5842.	2.2	83
6	Toward the Mechanistic Understanding of Enzymatic CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 3844-3856.	5.5	76
7	Interaction of vanadium(IV) with human serum apo-transferrin. <i>Journal of Inorganic Biochemistry</i> , 2013, 121, 187-195.	1.5	72
8	Towards Improved Therapeutic CORMs: Understanding the Reactivity of CORM-3 with Proteins. <i>Current Medicinal Chemistry</i> , 2011, 18, 3361-3366.	1.2	67
9	A contribution to the rational design of Ru(CO) ₃ Cl ₂ L complexes for in vivo delivery of CO. <i>Dalton Transactions</i> , 2015, 44, 5058-5075.	1.6	67
10	Characterization of a versatile organometallic pro-drug (CORM) for experimental CO based therapeutics. <i>Dalton Transactions</i> , 2013, 42, 5985-5998.	1.6	61
11	New insights into the chemistry of fac-[Ru(CO) ₃] ²⁺ fragments in biologically relevant conditions: The CO releasing activity of [Ru(CO) ₃ Cl ₂ (1,3-thiazole)], and the X-ray crystal structure of its adduct with lysozyme. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 285-291.	1.5	57
12	Vanadium Complexes as Prospective Therapeutics: Structural Characterization of a V ^{IV} Lysozyme Adduct. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3293-3297.	1.0	53
13	New insights on vanadium binding to human serum transferrin. <i>Inorganica Chimica Acta</i> , 2014, 420, 60-68.	1.2	51
14	Interaction of [V ^{IV} O(acac) ₂] with Human Serum Transferrin and Albumin. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2062-2084.	1.7	38
15	The first crystal structure of class III superoxide reductase from <i>Treponema pallidum</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 548-558.	1.1	37
16	Molecular interactions of cefoperazone with bovine serum albumin: Extensive experimental and computational investigations. <i>Journal of Molecular Liquids</i> , 2021, 337, 116354.	2.3	37
17	Optimization of the Expression of Human Aldehyde Oxidase for Investigations of Single-Nucleotide Polymorphisms. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1277-1285.	1.7	34
18	Kinetic, Structural, and EPR Studies Reveal That Aldehyde Oxidoreductase from <i>Desulfovibrio gigas</i> Does Not Need a Sulfido Ligand for Catalysis and Give Evidence for a Direct Mo ^{VI} C Interaction in a Biological System. <i>Journal of the American Chemical Society</i> , 2009, 131, 7990-7998.	6.6	33

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19	Structural basis for the role of mammalian aldehyde oxidases in the metabolism of drugs and xenobiotics. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 39-47.	2.8	33
20	The <i>Escherichia coli</i> Periplasmic Aldehyde Oxidoreductase Is an Exceptional Member of the Xanthine Oxidase Family of Molybdoenzymes. <i>ACS Chemical Biology</i> , 2016, 11, 2923-2935.	1.6	26
21	Shedding Light on the Interaction of Human Anti-Apoptotic Bcl-2 Protein with Ligands through Biophysical and in Silico Studies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 860.	1.8	25
22	Binding of vanadium to human serum transferrin - voltammetric and spectrometric studies. <i>Journal of Inorganic Biochemistry</i> , 2018, 180, 211-221.	1.5	24
23	Crystal Structure of the 16 Heme Cytochrome from <i>Desulfovibrio gigas</i> : A Glycosylated Protein in a Sulphate-reducing Bacterium. <i>Journal of Molecular Biology</i> , 2007, 370, 659-673.	2.0	23
24	Ring-Functionalized Molybdenocene Complexes. <i>Organometallics</i> , 2009, 28, 2871-2879.	1.1	23
25	Critical overview on the structure and metabolism of human aldehyde oxidase and its role in pharmacokinetics. <i>Coordination Chemistry Reviews</i> , 2018, 368, 35-59.	9.5	21
26	In vitro and in vivo biological characterization of the anti-proliferative potential of a cyclic trinuclear organotin(<i>iv</i>) complex. <i>Molecular BioSystems</i> , 2016, 12, 1015-1023.	2.9	17
27	Improving the Anti-inflammatory Response via Gold Nanoparticle Vectorization of CO-Releasing Molecules. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1090-1101.	2.6	17
28	Mutagenesis study on amino acids around the molybdenum centre of the periplasmic nitrate reductase from <i>Ralstonia eutropha</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 1211-1219.	1.0	16
29	Biofilm development and computational screening for new putative inhibitors of a homolog of the regulatory protein BrpA in <i>Streptococcus dysgalactiae</i> subsp. <i>dysgalactiae</i> . <i>International Journal of Medical Microbiology</i> , 2019, 309, 169-181.	1.5	15
30	Structural Data on the Periplasmic Aldehyde Oxidoreductase PaoABC from <i>Escherichia coli</i> : SAXS and Preliminary X-ray Crystallography Analysis. <i>International Journal of Molecular Sciences</i> , 2014, 15, 2223-2236.	1.8	13
31	The homopentameric chlorite dismutase from <i>Magnetospirillum</i> sp.. <i>Journal of Inorganic Biochemistry</i> , 2015, 151, 1-9.	1.5	13
32	Electron transfer through arsenite oxidase: Insights into Rieske interaction with cytochrome c. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 865-872.	0.5	13
33	First insights of peptidoglycan amidation in Gram-positive bacteria - the high-resolution crystal structure of <i>Staphylococcus aureus</i> glutamine amidotransferase GatD. <i>Scientific Reports</i> , 2018, 8, 5313.	1.6	12
34	Singularities of Pyogenic Streptococcal Biofilms – From Formation to Health Implication. <i>Frontiers in Microbiology</i> , 2020, 11, 584947.	1.5	12
35	Ligand Binding to Chlorite Dismutase from <i>Magnetospirillum</i> sp.. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13859-13869.	1.2	11
36	Highly selective tungstate transporter protein TupA from <i>Desulfovibrio alaskensis</i> G20. <i>Scientific Reports</i> , 2017, 7, 5798.	1.6	10

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37	Biochemical, Stabilization and Crystallization Studies on a Molecular Chaperone (PaoD) Involved in the Maturation of Molybdoenzymes. PLoS ONE, 2014, 9, e87295.	1.1	10
38	Binding of V^{IV}O₂, V^{IV}OL, V^{IV}OL₂ and V^VO₂L Moieties to Proteins: X-ray/Theoretical Characterization and Biological Implications. Chemistry - A European Journal, 2022, 28, .	1.7	10
39	Family 42 carbohydrate-binding modules display multiple arabinoxylan-binding interfaces presenting different ligand affinities. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 2054-2062.	1.1	9
40	Human aldehyde oxidase (hAOX 1): structure determination of the Moco-free form of the natural variant G1269R and biophysical studies of single nucleotide polymorphisms. FEBS Open Bio, 2019, 9, 925-934.	1.0	9
41	Systematic exploration of predicted destabilizing nonsynonymous single nucleotide polymorphisms (nsSNPs) of human aldehyde oxidase: A Bioinformatics study. Pharmacology Research and Perspectives, 2019, 7, e00538.	1.1	9
42	Kinetic and Structural Studies of Aldehyde Oxidoreductase from Desulfovibrio gigas Reveal a Dithiolene-Based Chemistry for Enzyme Activation and Inhibition by H2O2. PLoS ONE, 2013, 8, e83234.	1.1	9
43	TupA: A Tungstate Binding Protein in the Periplasm of Desulfovibrio alaskensis G20. International Journal of Molecular Sciences, 2014, 15, 11783-11798.	1.8	8
44	Multitask ATPases (NBDs) of bacterial ABC importers type I and their interspecies exchangeability. Scientific Reports, 2020, 10, 19564.	1.6	8
45	<i>In silico</i> and <i>in vitro</i> investigations on the protein-protein interactions of glutathione S-transferases with mitogen-activated protein kinase 8 and apoptosis signal-regulating kinase 1. Journal of Biomolecular Structure and Dynamics, 2022, 40, 1430-1440.	2.0	6
46	Superoxide reductase from the syphilis spirochete Treponema pallidum: crystallization and structure determination using soft X-rays. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 967-970.	0.7	5
47	Imine ligands based on ferrocene: synthesis, structural and Mössbauer characterization and evaluation as chromogenic and electrochemical sensors for Hg ²⁺ . New Journal of Chemistry, 2018, 42, 3334-3343.	1.4	5
48	Interrogating the Inhibition Mechanisms of Human Aldehyde Oxidase by X-ray Crystallography and NMR Spectroscopy: The Raloxifene Case. Journal of Medicinal Chemistry, 2021, 64, 13025-13037.	2.9	5
49	Enhanced Stability of Detergent-Free Human Native STEAP1 Protein from Neoplastic Prostate Cancer Cells upon an Innovative Isolation Procedure. International Journal of Molecular Sciences, 2021, 22, 10012.	1.8	5
50	Aromatic aldehydes at the active site of aldehyde oxidoreductase from Desulfovibrio gigas: reactivity and molecular details of the enzyme-substrate and enzyme-product interaction. Journal of Biological Inorganic Chemistry, 2015, 20, 219-229.	1.1	4
51	Crystallization and preliminary X-ray diffraction analysis of the 16-haem cytochrome of Desulfovibrio gigas. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 968-970.	2.5	3
52	Optical and Structural Characterization of a Chronic Myeloid Leukemia DNA Biosensor. ACS Chemical Biology, 2018, 13, 1235-1242.	1.6	3
53	The crystal structure of human Aldehyde Oxidase in native and inhibited forms. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1828-C1828.	0.0	1
54	Coating of modified plastic optical fibers with proteins for chemical sensing and biosensing: preliminary studies. , 2019, , .		0