Antonio Costa-Filho

List of Publications by Year
in descending order

112	2,494	201674	254184
papers	citations	27 h-index	43 g-index

122	122	122	3247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron Spin Resonance in Studies of Membranes and Proteins. Science, 2001, 291, 266-269.	12.6	338
2	Synthesis and characterization of magnetite nanoparticles coated with lauric acid. Materials Characterization, 2013, 81, 28-36.	4.4	95
3	Mono- and polynuclear complexes of Fe(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) with N,Nâ€²-bis(3-hydroxysalicylidene)-1,3-diamino-2-propanol. Polyhedron, 2000, 19, 185-192.	2.2	76
4	Development of copper(II)-diimine-iminodiacetate mixed ligand complexes as potential antitumor agents. Inorganica Chimica Acta, 2018, 483, 61-70.	2.4	61
5	Novel Cu(II) quinoxaline N1,N4-dioxide complexes as selective hypoxic cytotoxins. European Journal of Medicinal Chemistry, 2005, 40, 473-480.	5.5	58
6	Dynamic Molecular Structure and Phase Diagram of DPPCâ^'Cholesterol Binary Mixtures:â€‰ A 2D-ELDOR Study. Journal of Physical Chemistry B, 2007, 111, 11260-11270.	2.6	58
7	New copper-based complexes with quinoxaline N1,N4-dioxide derivatives, potential antitumoral agents. Journal of Inorganic Biochemistry, 2008, 102, 119-126.	3.5	58
8	SARS-CoV fusion peptides induce membrane surface ordering and curvature. Scientific Reports, 2016, 6, 37131.	3.3	55
9	Engineering Bifunctional Laccase-Xylanase Chimeras for Improved Catalytic Performance. Journal of Biological Chemistry, 2011, 286, 43026-43038.	3.4	52
10	Biochemical and Structural Characterization of Salmonella typhimurium Glyoxalase II:â€‰ New Insights into Metal Ion Selectivity[,]. Biochemistry, 2007, 46, 11069-11079.	2.5	50
11	Effects of the antimalarial drug primaquine on the dynamic structure of lipid model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 55-64.	2.6	49
12	Magnetic Properties of Carboxylate-Bridged Ferromagnetic Copper(II) Chains Coupled by Cationâ^'Ï€ Interactions. Journal of Physical Chemistry B, 2001, 105, 5039-5047.	2.6	48
13	The Met Axial Ligand Determines the Redox Potential in CuA Sites. Journal of the American Chemical Society, 2007, 129, 11884-11885.	13.7	43
14	A 2D-ELDOR Study of the Liquid Ordered Phase in Multilamellar Vesicle Membranes. Biophysical Journal, 2003, 84, 2619-2633.	0.5	41
15	Antihypertensive and antioxidant effects of a single daily dose of sodium nitrite in a model of renovascular hypertension. Naunyn-Schmiedeberg's Archives of Pharmacology, 2012, 385, 509-517.	3.0	40
16	Design of novel iron compounds as potential therapeutic agents against tuberculosis. Journal of Inorganic Biochemistry, 2010, 104, 1164-1170.	3.5	39
17	TEMPOL enhances the antihypertensive effects of sodium nitrite by mechanisms facilitating nitrite-derived gastric nitric oxide formation. Free Radical Biology and Medicine, 2013, 65, 446-455.	2.9	39
18	Synthesis, structural characterization and cytotoxic activity of ternary copper(II)â€“dipeptideâ€“phenanthroline complexes. A step towards the development of new copper compounds for the treatment of cancer. Journal of Inorganic Biochemistry, 2014, 139, 117-123.	3.5	39

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19	Pentacoordinate and hexacoordinate ferric hemes in acid medium: EPR, UVâ€“Vis and CD studies of the giant extracellular hemoglobin of Glossoscolex paulistus. Biophysical Chemistry, 2006, 124, 62-72.	2.8	37
20	Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus Myceliophthora thermophila. PLoS ONE, 2018, 13, e0202148.	2.5	36
21	Lipid-Gramicidin Interactions: Dynamic Structure of the Boundary Lipid by 2D-ELDOR. Biophysical Journal, 2003, 84, 3364-3378.	0.5	32
22	Cloning, expression, purification, and characterization of Leishmania major dihydroorotate dehydrogenase. Protein Expression and Purification, 2006, 48, 98-103.	1.3	32
23	Kinetics of elimination and distribution in blood and liver of biocompatible ferrofluids based on Fe3O4 nanoparticles: An EPR and XRF study. Materials Science and Engineering C, 2008, 28, 519-525.	7.3	32
24	The Crystal Structure of Necrosis- and Ethylene-Inducing Protein 2 from the Causal Agent of Cacaoâ€™s Witchesâ€™ Broom Disease Reveals Key Elements for Its Activity. Biochemistry, 2011, 50, 9901-9910.	2.5	31
25	Cu(II) complexation with Hisâ€“Gly and Hisâ€“Ala. X-ray structure of [Cu(hisâ€“gly)2(H2O)2]Â·6H2O. Inorganica Chimica Acta, 2003, 355, 408-413.	2.4	29
26	Novel vanadyl complexes with quinoxaline N1,N4-dioxide derivatives as potent in vitro insulin-mimetic compounds. Journal of Inorganic Biochemistry, 2006, 100, 281-287.	3.5	29
27	Dynamics and Conformational Studies of TOAC Spin Labeled Analogues of Ctx(Ile21)-Ha Peptide from Hypsiboas albopunctatus. PLoS ONE, 2013, 8, e60818.	2.5	29
28	Crystal structure and exchange pathways of the complex l-(trypthophyl-glycinato)copper(II). Inorganica Chimica Acta, 2001, 312, 133-138.	2.4	28
29	Defects in Vesicle Core Induced by Escherichia coli Dihydroorotate Dehydrogenase. Biophysical Journal, 2008, 94, 1746-1753.	0.5	27
30	The two sides of a lipid-protein story. Biophysical Reviews, 2016, 8, 179-191.	3.2	26
31	Fumarate hydratase isoforms of Leishmania major: Subcellular localization, structural and kinetic properties. International Journal of Biological Macromolecules, 2012, 51, 25-31.	7.5	25
32	Crystal Structures and Magnetic Properties of CuX2(pdmp)2 Complexes (X = Br, Cl). Inorganic Chemistry, 1999, 38, 4413-4421.	4.0	24
33	Interaction of Cu-dipeptide complexes with Calf Thymus DNA and antiproliferative activity of [Cu(ala-phe)] in osteosarcoma-derived cells. Polyhedron, 2009, 28, 2329-2334.	2.2	24
34	New structural insights into Golgi Reassembly and Stacking Protein (GRASP) in solution. Scientific Reports, 2016, 6, 29976.	3.3	24
35	Characterization of a New Glyoxal Oxidase from the Thermophilic Fungus Myceliophthora thermophila M77: Hydrogen Peroxide Production Retained in 5-Hydroxymethylfurfural Oxidation. Catalysts, 2018, 8, 476.	3.5	24
36	Conformational dynamics of a G proteinâ€“coupled receptor helix 8 in lipid membranes. Science Advances, 2020, 6, eaav8207.	10.3	24

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37	EPR Studies of Chlorocatechol 1,2-Dioxygenase: Evidences of Iron Reduction during Catalysis and of the Binding of Amphipatic Molecules. Biophysical Journal, 2005, 88, 3502-3508.	0.5	23
38	EPR and electrochemistry of [NH4]trans-[RuCl4(DMSO)(L)] complexes (L = DMSO, py). X-ray molecular structure of [pyH][RuCl4(DMSO)(py)]. Journal of the Brazilian Chemical Society, 2000, 11, 530-536.	0.6	22
39	Electron Paramagnetic Resonance Study of Weak Exchange Interactions between Metal Ions in a Model System:Â CuIIGly-Trpâ€. Journal of Physical Chemistry B, 2004, 108, 9549-9555.	2.6	22
40	Structural characterization of a series of new Cu-dipeptide complexes in solid state and in solution. Polyhedron, 2006, 25, 2597-2604.	2.2	22
41	Selective hypoxia-cytotoxins based on vanadyl complexes with 3-aminoquinoxaline-2-carbonitrile-N1,N4-dioxide derivatives. Journal of Inorganic Biochemistry, 2006, 100, 1358-1367.	3.5	22
42	Expression in Escherichia coli of cysteine protease inhibitors from cowpea (Vigna unguiculata): The crystal structure of a single-domain cystatin gives insights on its thermal and pH stability. International Journal of Biological Macromolecules, 2017, 102, 29-41.	7.5	22
43	The yeast GRASP Grh1 displays a high polypeptide backbone mobility along with an amyloidogenic behavior. Scientific Reports, 2018, 8, 15690.	3.3	22
44	Weak Exchange Interaction Supported by a Biologically Relevant Long Chemical Bridge in a Cuâ"Peptide Model Compound. Inorganic Chemistry, 2006, 45, 2942-2947.	4.0	21
45	Site directed spin labeling studies of Escherichia coli dihydroorotate dehydrogenase N-terminal extension. Biochemical and Biophysical Research Communications, 2011, 414, 487-492.	2.1	21
46	Interactions of the antimalarial amodiaquine with lipid model membranes. Chemistry and Physics of Lipids, 2015, 186, 68-78.	3.2	21
47	Magnetic characterization by SQUID and FMR of a biocompatible ferrofluid based on Fe₃O₄. Journal of Physics Condensed Matter, 2009, 21, 115104.	1.8	19
48	Synthesis and structural characterization of a series of ternary copper(II)-L-dipeptide-neocuproine complexes. Study of their cytotoxicity against cancer cells including MDA-MB-231, triple negative breast cancer cells. Journal of Inorganic Biochemistry, 2020, 203, 110930.	3.5	19
49	Conformational changes of the HsDHODH N-terminal Microdomain via DEER Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 8693-8697.	2.6	18
50	Disorder-to-order transitions in the molten globule-like Golgi Reassembly and Stacking Protein. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 855-865.	2.4	18
51	Membranotropic and biological activities of the membrane fusion peptides from SARS-CoV spike glycoprotein: The importance of the complete internal fusion peptide domain. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183697.	2.6	18
52	The <scp>GRASP</scp> domain in golgi reassembly and stacking proteins: differences and similarities between lower and higher Eukaryotes. FEBS Journal, 2019, 286, 3340-3358.	4.7	16
53	Effects of GPI-anchored TNAP on the dynamic structure of model membranes. Physical Chemistry Chemical Physics, 2015, 17, 26295-26301.	2.8	15
54	Characterisation of the fumarate hydratase repertoire in Trypanosoma cruzi. International Journal of Biological Macromolecules, 2017, 102, 42-51.	7.5	15

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55	Lipid composition modulates ATP hydrolysis and calcium phosphate mineral propagation by TNAP-harboring proteoliposomes. Archives of Biochemistry and Biophysics, 2020, 691, 108482.	3.0	15
56	Interaction of Genetically Encoded Photosensitizers with Scintillating Nanoparticles for X-ray Activated Photodynamic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 2289-2302.	8.0	15
57	Probing the Interaction of Brain Fatty Acid Binding Protein (B-FABP) with Model Membranes. PLoS ONE, 2013, 8, e60198.	2.5	15
58	Metal-dependent inhibition of glyoxalase II: A possible mechanism to regulate the enzyme activity. Journal of Inorganic Biochemistry, 2010, 104, 726-731.	3.5	14
59	Kinetic mechanism and catalysis of Trypanosoma cruzi dihydroorotate dehydrogenase enzyme evaluated by isothermal titration calorimetry. Analytical Biochemistry, 2010, 399, 13-22.	2.4	14
60	Synthesis, structural characterization and cytotoxic activity against tumor cells of heteroleptic copper (I) complexes with aromatic diimines and phosphines. Inorganica Chimica Acta, 2017, 466, 559-564.	2.4	14
61	Expression, purification and spectroscopic analysis of an HdrC: An ironâ€“sulfur cluster-containing protein from Acidithiobacillus ferrooxidans. Process Biochemistry, 2011, 46, 1335-1341.	3.7	13
62	Co(II), Ni(II) and Cu(II) mononuclear and polynuclear complexes influenced by the aliphatic spacer length of their O2N2O2 Schiff bases. Inorganica Chimica Acta, 2001, 318, 135-142.	2.4	12
63	2D-ELDOR Study of Heterogeneity and Domain Structure Changes in Plasma Membrane Vesicles upon Cross-Linking of Receptors. Journal of Physical Chemistry B, 2011, 115, 10462-10469.	2.6	12
64	Ferric species equilibrium of the giant extracellular hemoglobin of Glossoscolex paulistus in alkaline medium: HALS hemichrome as a precursor of pentacoordinate species. International Journal of Biological Macromolecules, 2008, 42, 103-110.	7.5	11
65	Ferric species of the giant extracellular hemoglobin of Glossoscolex paulistus as function of pH: An EPR study on the irreversibility of the heme transitions. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 150, 292-300.	1.6	11
66	Non-linear van't Hoff behavior in pulmonary surfactant model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1133-1143.	2.6	11
67	The exquisite structural biophysics of the Golgi Reassembly and Stacking Proteins. International Journal of Biological Macromolecules, 2020, 164, 3632-3644.	7.5	11
68	X-ray structure and EPR behavior of a new dimeric copper(II) complex with 4-amino-N-(5-methoxy-2-pyrimidinyl)benzenesulfonamide. Polyhedron, 2007, 26, 3277-3285.	2.2	10
69	Lipid membranes and acyl-CoA esters promote opposing effects on acyl-CoA binding protein structure and stability. International Journal of Biological Macromolecules, 2017, 102, 284-296.	7.5	10
70	Nucleation-dependent amyloid fibrillation of human GRASP55 in aqueous solution. European Biophysics Journal, 2020, 49, 133-143.	2.2	10
71	Conformational flexibility of GRASPs and their constituent PDZ subdomains reveals structural basis of their promiscuous interactome. FEBS Journal, 2020, 287, 3255-3272.	4.7	10
72	Membrane Interactions of S100A12 (Calgranulin C). PLoS ONE, 2013, 8, e82555.	2.5	10

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73	Spin dynamics study in doped polyaniline by continuous wave and pulsed electron paramagnetic resonance. Journal of Chemical Physics, 2000, 112, 2958-2966.	3.0	9
74	Exploring structural aspects of the human Golgi matrix protein GRASP55 in solution. International Journal of Biological Macromolecules, 2019, 135, 481-489.	7.5	9
75	Role of cisâ€“cis muconic acid in the catalysis of Pseudomonas putida chlorocatechol 1,2-dioxygenase. International Journal of Biological Macromolecules, 2010, 47, 233-237.	7.5	8
76	Lignocellulose binding of a Cel5A-RtCBM11 chimera with enhanced Î²-glucanase activity monitored by electron paramagnetic resonance. Biotechnology for Biofuels, 2017, 10, 269.	6.2	8
77	Biophysical characterization of intrinsically disordered human Golgi matrix protein GRASP65. International Journal of Biological Macromolecules, 2020, 162, 1982-1993.	7.5	8
78	Structural and thermodynamic analyses of human TMED1 (p24Î³1) Golgi dynamics. Biochimie, 2022, 192, 72-82.	2.6	8
79	Two-dimensional ELDOR in the study of model and biological membranes. Applied Magnetic Resonance, 2007, 31, 375-386.	1.2	7
80	Antimicrobial evaluation of new metallic complexes with xylitol active against P. aeruginosa and C. albicans: MIC determination, post-agent effect and Zn-uptake. Journal of Inorganic Biochemistry, 2016, 155, 67-75.	3.5	7
81	HsDHODH Microdomainâ€“Membrane Interactions Influenced by the Lipid Composition. Journal of Physical Chemistry B, 2017, 121, 11085-11095.	2.6	7
82	Magnetic resonance in the Zn1â^'xMnxIn2Se4dilute magnetic semiconductor system. Journal of Physics Condensed Matter, 2005, 17, 2755-2762.	1.8	6
83	2D-ELDOR using full Scâ^' fitting and absorption lineshapes. Journal of Magnetic Resonance, 2007, 188, 231-245.	2.1	6
84	Amphipatic molecules affect the kinetic profile of Pseudomonas putida chlorocatechol 1,2-dioxygenase. European Biophysics Journal, 2013, 42, 655-660.	2.2	6
85	THI1, a protein involved in the biosynthesis of thiamin in Arabidopsis thaliana: Structural analysis of THI1(A140V) mutant. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1094-1103.	2.3	6
86	In vitro antioxidant properties of golden grass (Syngonanthus nitens) by electron paramagnetic resonance. Food Science and Nutrition, 2019, 7, 1353-1360.	3.4	6
87	A gold revision of the Golgi Dynamics (GOLD) domain structure and associated cell functionalities. FEBS Letters, 2022, 596, 973-990.	2.8	6
88	Exchange interactions in the copper(II)-N-benzoylglycine (hippuric acid) complex. Journal of the Brazilian Chemical Society, 2008, 19, 1614-1621.	0.6	5
89	Recombinant expression, purification and preliminary biophysical and structural studies of C-terminal carbohydrate recognition domain from human galectin-4. Protein Expression and Purification, 2016, 118, 39-48.	1.3	5
90	Resurrecting Golgi proteins to grasp Golgi ribbon formation and self-association under stress. International Journal of Biological Macromolecules, 2022, 194, 264-275.	7.5	5

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91	Exploring Conformational Transitions and Free-Energy Profiles of Proton-Coupled Oligopeptide Transporters. Journal of Chemical Theory and Computation, 2019, 15, 6433-6443.	5.3	4
92	New Isoniazid Complexes, Promising Agents Against Mycobacterium tuberculosis. Journal of the Mexican Chemical Society, 2017, 57, .	0.6	4
93	Biophysical Studies of TOAC Analogs of the Ctx(Ile21)-Ha Antimicrobial Peptide Using Liposomes. Brazilian Journal of Physics, 2022, 52, 1.	1.4	4
94	Tetramethyl-phenanthroline copper complexes in the development of drugs to treat cancer: synthesis, characterization and cytotoxicity studies of a series of copper(II)-l-dipeptide-3,4,7,8-tetramethyl-phenanthroline complexes. Journal of Biological Inorganic Chemistry, 2022, , 1.	2.6	4
95	Conformation of a synthetic antigenic peptide from HIV-1 p24 protein induced by ionic micelles. Biophysical Chemistry, 2005, 113, 175-182.	2.8	3
96	Synthesis, structural characterization and ex vivo biological properties of a new complex [Cu(propranolol)2]Â·2H2O, a potential beta-blocker. Polyhedron, 2009, 28, 3647-3653.	2.2	3
97	Ligand changes in ferric species of the giant extracellular hemoglobin ofGlossoscolex paulistusas function of pH: correlations between redox, spectroscopic and oligomeric properties and general implications with different hemoproteins. Journal of Porphyrins and Phthalocyanines, 2010, 14, 199-218.	0.8	3
98	Study of chitosans interaction with Cu(II) from the corresponding sulfate and chloride salts. Cellulose, 2015, 22, 2391-2407.	4.9	3
99	Structures, Dynamics, and Functions of Viral Membrane Proteins by NMR. Biophysical Journal, 2018, 114, 237a.	0.5	3
100	Myristoylation and its effects on the human Golgi Reassembly and Stacking Protein 55. Biophysical Chemistry, 2021, 279, 106690.	2.8	3
101	A special issue of Biophysical Reviews dedicated to the 20th IUPAB (virtual) Congress â€œinâ€•Foz do IguaÃ§u. Biophysical Reviews, 2021, 13, 1-5.	3.2	3
102	In vivo observation of amyloid-like fibrils produced under stress. International Journal of Biological Macromolecules, 2022, 199, 42-50.	7.5	2
103	Electron spin-relaxation via vibronic level of nickel (I) and nickel (III) cyanide complexes in NaCl single crystals. Journal of Magnetic Resonance, 2004, 168, 132-136.	2.1	1
104	Quantitative ferromagnetic resonance analysis ofCD133 stem cells labeled with iron oxide nanoparticles. Journal of Physics Condensed Matter, 2008, 20, 204150.	1.8	1
105	SimulaÃ§Ã£o de espectros de ressonÃ¢ncia paramagnÃ©tica eletrÃ´nica (RPE) atravÃ©s do programa NLSL. Quimica Nova, 2007, 30, 1240-1248.	0.3	0
106	Interaction of Biologically-Relevant Peptides with Membrane Model Systems. Biophysical Journal, 2011, 100, 495a.	0.5	0
107	Understanding Chlorocatechol 1,2-Dioxygenase Function: A Promising Player in Bioremediation Processes. Biophysical Journal, 2012, 102, 64a-65a.	0.5	0
108	The Conformational Flexibility of an Internal Fusion Peptide from Sars-Cov Spike Glycoprotein is Modulated by Lipid Membrane Composition. Biophysical Journal, 2014, 106, 295a.	0.5	0

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109	Probing S100A12 Interactions with Model Membranes. Biophysical Journal, 2014, 106, 516a.	0.5	0
110	Does the Golgi Reassembly and Stacking Protein (GRASP) Behave as a Well-Structured Protein in Solution?. Biophysical Journal, 2015, 108, 230a.	0.5	0
111	Ordering Effect Induced by SARS-CoV Fusion Peptides on Membranes Containing Negatively Charged Lipids Might be Important to Membrane Fusion. Biophysical Journal, 2016, 110, 418a.	0.5	0
112	New Insights into the Biophysical Behavior of an Old Molecule: Experimental and Theoretical Studies of the Interaction Between 1,10-Phenanthroline and Model Phospholipid Membranes. Brazilian Journal of Physics, 2022, 52, .	1.4	0