Celia V Romao

List of Publications by Year
in descending order

45 papers	1,120 citations	361296 20 h-index	414303 32 g-index
47 all docs	47 docs citations	47 times ranked	1230 citing authors

#	Article	IF	Citations
1	The nature of the di-iron site in the bacterioferritin from Desulfovibrio desulfuricans. Nature Structural and Molecular Biology, 2003, 10, 285-290.	3.6	106
2	The Role of the Hybrid Cluster Protein in Oxidative Stress Defense. Journal of Biological Chemistry, 2006, 281, 32445-32450.	1.6	97
3	Electron transfer between hydrogenases and mono- and multiheme cytochromes in Desulfovibrio ssp. Journal of Biological Inorganic Chemistry, 1998, 3, 494-498.	1.1	83
4	The dual function of flavodiiron proteins: oxygen and/or nitric oxide reductases. Journal of Biological Inorganic Chemistry, 2016, 21, 39-52.	1.1	55
5	The superoxide dismutase activity of desulfoferrodoxin from Desulfovibrio desulfuricans ATCC 27774. FEBS Journal, 1999, 261, 438-443.	0.2	54
6	The crystal structure of Deinococcus radiodurans Dps protein (DR2263) reveals the presence of a novel metal centre in the N terminus. Journal of Biological Inorganic Chemistry, 2006, 11, 891-902.	1.1	51
7	The Crystal Structure of the Dps2 from Deinococcus radiodurans Reveals an Unusual Pore Profile with a Non-specific Metal Binding Site. Journal of Molecular Biology, 2007, 371, 787-799.	2.0	44
8	Evolution in a family of chelatases facilitated by the introduction of active site asymmetry and protein oligomerization. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 97-102.	3.3	43
9	How superoxide reductases and flavodiiron proteins combat oxidative stress in anaerobes. Free Radical Biology and Medicine, 2019, 140, 36-60.	1.3	43
10	Reduced hybrid cluster proteins (HCP) from Desulfovibrio desulfuricans ATCC 27774 and Desulfovibrio vulgaris (Hildenborough): X-ray structures at high resolution using synchrotron radiation. Journal of Biological Inorganic Chemistry, 2003, 8, 540-548.	1.1	41
11	The rice cold-responsive calcium-dependent protein kinase OsCPK17 is regulated by alternative splicing and post-translational modifications. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 231-246.	1.9	38
12	Iron-coproporphyrin III is a natural cofactor in bacterioferritin from the anaerobic bacteriumDesulfovibrio desulfuricans. FEBS Letters, 2000, 480, 213-216.	1.3	35
13	Hybrid cluster proteins (HCPs) from Desulfovibrio desulfuricans ATCC 27774 and Desulfovibrio vulgaris (Hildenborough): X-ray structures at 1.25ÂÃ... resolution using synchrotron radiation. Journal of Biological Inorganic Chemistry, 2002, 7, 514-525.	1.1	32
14	A Bacterioferritin from the Strict AnaerobeDesulfovibrio desulfuricansATCC 27774â€. Biochemistry, 2000, 39, 6841-6849.	1.2	30
15	Dps from Deinococcus radiodurans: oligomeric forms of Dps1 with distinct cellular functions and Dps2 involved in metal storage. FEBS Journal, 2015, 282, 4307-4327.	2.2	30
16	Structure of Escherichia coli Flavodiiron Nitric Oxide Reductase. Journal of Molecular Biology, 2016, 428, 4686-4707.	2.0	30
17	The genetic organization of Desulfovibrio desulphuricans ATCC 27774 bacterioferritin and rubredoxin-2 genes: involvement of rubredoxin in iron metabolism. Molecular Microbiology, 2001, 41, 217-227.	1.2	24
18	Characterization of the [NiFe] Hydrogenase from the Sulfate ReducerDesulfovibrio vulgarisHildenborough. Biochemical and Biophysical Research Communications, 1997, 240, 75-79.	1.0	23

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19	Two Distinct Roles for Two Functional Cobaltochelatases (CbiK) in Desulfovibrio vulgaris Hildenborough. Biochemistry, 2008, 47, 5851-5857.	1.2	23
20	Characterisation of Desulfovibrio vulgaris haem b synthase, a radical SAM family member. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1238-1247.	1.1	23
21	Flavodiiron Oxygen Reductase from Entamoeba histolytica. Journal of Biological Chemistry, 2014, 289, 28260-28270.	1.6	22
22	The interplay between Mn and Fe in Deinococcus radiodurans triggers cellular protection during paraquat-induced oxidative stress. Scientific Reports, 2019, 9, 17217.	1.6	18
23	Structure of the monofunctional heme catalase <scp>DR</scp>1998 from <scp>D</scp>einococcusÂradiodurans. FEBS Journal, 2014, 281, 4138-4150.	2.2	16
24	Desulforubrerythrin from Campylobacter jejuni, a novel multidomain protein. Journal of Biological Inorganic Chemistry, 2011, 16, 501-510.	1.1	15
25	Thermofluor-based optimization strategy for the stabilization and crystallization of Campylobacter jejuni desulforubrerythrin. Protein Expression and Purification, 2012, 81, 193-200.	0.6	15
26	Activity of antioxidant enzymes in response to atmospheric pressure induced physiological stress in deep-sea hydrothermal vent mussel Bathymodiolus azoricus. Marine Environmental Research, 2016, 114, 65-73.	1.1	14
27	SAXS Structural Studies of Dps from Deinococcus radiodurans Highlights the Conformation of the Mobile N-Terminal Extensions. Journal of Molecular Biology, 2017, 429, 667-687.	2.0	13
28	Analysis of a new flavodiiron core structural arrangement in Flv1-Î”FlR protein from Synechocystis sp. PCC6803. Journal of Structural Biology, 2019, 205, 91-102.	1.3	12
29	Expression, purification, crystallization and preliminary diffraction data characterization ofEscherichia coliribonuclease II (RNase II). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 684-687.	0.7	10
30	Reductive activation and structural rearrangement in superoxide reductase: a combined infrared spectroscopic and computational study. Physical Chemistry Chemical Physics, 2014, 16, 14220-14230.	1.3	10
31	Comparative Fe and Zn K-edge X-ray absorption spectroscopic study of the ferroxidase centres of human H-chain ferritin and bacterioferritin from Desulfovibrio desulfuricans. Journal of Biological Inorganic Chemistry, 2009, 14, 35-49.	1.1	9
32	Desulfovibrio vulgaris CbiK P cobaltochelatase: evolution of a haem binding protein orchestrated by the incorporation of two histidine residues. Environmental Microbiology, 2017, 19, 106-118.	1.8	9
33	Cloning, purification, crystallization and X-ray crystallographic analysis ofIgnicoccus hospitalisneelaredoxin. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 605-607.	0.7	7
34	Superoxide reductase fromGiardia intestinalis: structural characterization of the first SOR from a eukaryotic organism shows an iron centre that is highly sensitive to photoreduction. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2236-2247.	2.5	6
35	Superoxide reduction by a superoxide reductase lacking the highly conserved lysine residue. Journal of Biological Inorganic Chemistry, 2015, 20, 155-164.	1.1	6
36	Phosphorylation status of BolA affects its role in transcription and biofilm development. FEBS Journal, 2021, 288, 961-979.	2.2	6

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37	Insights into the Structures of Superoxide Reductases from the Symbionts Ignicoccus hospitalis and Nanoarchaeum equitans. Biochemistry, 2018, 57, 5271-5281.	1.2	5
38	Expression, purification and crystallization of MnSOD fromArabidopsis thaliana. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 669-672.	0.4	4
39	Structural Basis of RICs Iron Donation for Iron-Sulfur Cluster Biogenesis. Frontiers in Microbiology, 2021, 12, 670681.	1.5	4
40	Superoxide reductase fromNanoarchaeum equitans: expression, purification, crystallization and preliminary X-ray crystallographic analysis. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 591-595.	0.7	3
41	Purification, crystallization and X-ray crystallographic analysis ofArchaeoglobus fulgidusneelaredoxin. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 316-319.	0.7	2
42	Repair of Iron Center Proteinsâ€"A Different Class of Hemerythrin-like Proteins. Molecules, 2022, 27, 4051.	1.7	2
43	Purification, crystallization and phase determination of the DR1998 haembcatalase fromDeinococcus radiodurans. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 659-662.	0.4	1
44	An Internal Promoter Drives the Expression of a Truncated Form of CCC1 Capable of Protecting Yeast from Iron Toxicity. Microorganisms, 2021, 9, 1337.	1.6	1
45	The Amino Acids Motif -32GSSYN36- in the Catalytic Domain of E. coli Flavorubredoxin NO Reductase Is Essential for Its Activity. Catalysts, 2021, 11, 926.	1.6	1