Isabel Moura

List of Publications by Year
in descending order

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314 papers	11,030 citations	29994 54 h-index	53109 85 g-index
328 all docs	328 docs citations	328 times ranked	6797 citing authors

#	Article	IF	Citations
1	Crystal structure of the first dissimilatory nitrate reductase at 1.9 Ã... solved by MAD methods. Structure, 1999, 7, 65-79.	1.6	288
2	A novel type of catalytic copper cluster in nitrous oxide reductase. Nature Structural Biology, 2000, 7, 191-195.	9.7	280
3	A structure-based catalytic mechanism for the xanthine oxidase family of molybdenum enzymes.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8846-8851.	3.3	257
4	Bacterial nitrate reductases: Molecular and biological aspects of nitrate reduction. Journal of Inorganic Biochemistry, 2006, 100, 1015-1023.	1.5	234
5	Metalloenzymes of the denitrification pathway. Journal of Inorganic Biochemistry, 2006, 100, 2087-2100.	1.5	193
6	Revisiting the Catalytic CuZ Cluster of Nitrous Oxide (N2O) Reductase. Journal of Biological Chemistry, 2000, 275, 41133-41136.	1.6	166
7	Gene Sequence and the 1.8 Ã... Crystal Structure of the Tungsten-Containing Formate Dehydrogenase from Desulfovibrio gigas. Structure, 2002, 10, 1261-1272.	1.6	161
8	NMR studies of electron transfer mechanisms in a protein with interacting redox centres: Desulfovibrio gigas cytochrome c3. FEBS Journal, 1984, 141, 283-296.	0.2	156
9	MÃ¶ssbauer Characterization of the Ironâ^'Sulfur Clusters inDesulfovibriovulgarisHydrogenase. Journal of the American Chemical Society, 2001, 123, 2771-2782.	6.6	154
10	Nitrous oxide reductase. Coordination Chemistry Reviews, 2013, 257, 332-349.	9.5	151
11	Isolation and characterization of rubrerythrin, a non-heme iron protein from Desulfovibrio vulgaris that contains rubredoxin centers and a hemerythrin-like binuclear iron cluster. Biochemistry, 1988, 27, 1636-1642.	1.2	138
12	Detection and characterization of exchangeable protons bound to the hydrogen-activation nickel site of Desulfovibrio gigas hydrogenase: a proton and deuterium Q-band ENDOR study. Journal of the American Chemical Society, 1991, 113, 20-24.	6.6	135
13	17O ENDOR Detection of a Solvent-Derived Niâ^'(OHx)â^'Fe Bridge That Is Lost upon Activation of the Hydrogenase from Desulfovibrio gigas. Journal of the American Chemical Society, 2002, 124, 281-286.	6.6	132
14	Nickel-[iron-sulfur]-selenium-containing hydrogenases from Desulfovibrio baculatus (DSM 1743). Redox centers and catalytic properties. FEBS Journal, 1987, 167, 47-58.	0.2	130
15	Molybdenum and tungsten-dependent formate dehydrogenases. Journal of Biological Inorganic Chemistry, 2015, 20, 287-309.	1.1	117
16	Structure of the Ni Sites in Hydrogenases by X-ray Absorption Spectroscopy. Species Variation and the Effects of Redox Poise. Journal of the American Chemical Society, 1996, 118, 11155-11165.	6.6	113
17	Chromatographic-based methods for pesticide determination in honey: An overview. Talanta, 2007, 71, 503-514.	2.9	112
18	Reduction of Carbon Dioxide by a Molybdenum-Containing Formate Dehydrogenase: A Kinetic and Mechanistic Study. Journal of the American Chemical Society, 2016, 138, 8834-8846.	6.6	112

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19	Activation of N2O Reduction by the Fully Reduced Î¼4-Sulfide Bridged Tetranuclear CuZCluster in Nitrous Oxide Reductase. Journal of the American Chemical Society, 2003, 125, 15708-15709.	6.6	106
20	57Fe Q-Band Pulsed ENDOR of the Hetero-Dinuclear Site of Nickel Hydrogenase:Â Comparison of the NiA, NiB, and NiC States. Journal of the American Chemical Society, 1997, 119, 9291-9292.	6.6	103
21	Purification, Characterization, and Preliminary Crystallographic Study of Copper-Containing Nitrous Oxide Reductase from Pseudomonas nautica 617. Biochemistry, 2000, 39, 3899-3907.	1.2	103
22	X-ray absorption spectroscopy of nickel in the hydrogenase from Desulfovibrio gigas. Journal of the American Chemical Society, 1984, 106, 6864-6865.	6.6	99
23	Molybdenum and tungsten enzymes: the xanthine oxidase family. Current Opinion in Chemical Biology, 2006, 10, 109-114.	2.8	99
24	Cytochrome c Nitrite Reductase from Desulfovibrio desulfuricans ATCC 27774. Journal of Biological Chemistry, 2003, 278, 17455-17465.	1.6	98
25	Neelaredoxin, an Iron-binding Protein from the Syphilis Spirochete, Treponema pallidum, Is a Superoxide Reductase. Journal of Biological Chemistry, 2000, 275, 28439-28448.	1.6	97
26	Molybdenum and tungsten-containing formate dehydrogenases: Aiming to inspire a catalyst for carbon dioxide utilization. Inorganica Chimica Acta, 2017, 455, 350-363.	1.2	96
27	Using Cytochromec3To Make Selenium Nanowires. Chemistry of Materials, 2000, 12, 1510-1512.	3.2	94
28	Periplasmic nitrate reductase revisited: a sulfur atom completes the sixth coordination of the catalytic molybdenum. Journal of Biological Inorganic Chemistry, 2008, 13, 737-753.	1.1	94
29	Crystal Structure of Desulforedoxin fromDesulfovibrio gigasDetermined at 1.8 Ã... Resolution: A Novel Non-heme Iron Protein Structure. Journal of Molecular Biology, 1995, 251, 690-702.	2.0	93
30	Spectroscopic and Electronic Structure Studies of the Î¼4-Sulfide Bridged Tetranuclear CuZ Cluster in N2O Reductase:â€‰ Molecular Insight into the Catalytic Mechanism. Journal of the American Chemical Society, 2002, 124, 10497-10507.	6.6	92
31	The Structural Origin of Nonplanar Heme Distortions in Tetraheme Ferricytochromesc3â€. Biochemistry, 1998, 37, 12431-12442.	1.2	90
32	A Novel Protein-Bound Copperâ^'Molybdenum Cluster. Journal of the American Chemical Society, 2000, 122, 8321-8322.	6.6	90
33	Desulfovibrio Gigas Hydrogenase: Redox Properties of the Nickel and Iron-Sulfur Centers. FEBS Journal, 1983, 130, 481-484.	0.2	85
34	Structural aspects of denitrifying enzymes. Current Opinion in Chemical Biology, 2001, 5, 168-175.	2.8	85
35	Electronic Structure Description of the Î¼4-Sulfide Bridged Tetranuclear CuZ Center in N2O Reductase. Journal of the American Chemical Society, 2002, 124, 744-745.	6.6	82
36	The Crystal Structure of Cupriavidus necator Nitrate Reductase in Oxidized and Partially Reduced States. Journal of Molecular Biology, 2011, 408, 932-948.	2.0	78

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37	Evidence for the formation of a ZnFe3S4 cluster in Desulfovibrio gigas ferredoxin II. Journal of the American Chemical Society, 1987, 109, 3805-3807.	6.6	77
38	Nitrate and Nitrite Utilization in Sulfate-Reducing Bacteria. Anaerobe, 1997, 3, 279-290.	1.0	76
39	ATP Sulfurylases from Sulfate-Reducing Bacteria of the GenusDesulfovibrio.A Novel Metalloprotein Containing Cobalt and Zincâ€. Biochemistry, 1998, 37, 16225-16232.	1.2	76
40	The mechanism of formate oxidation by metal-dependent formate dehydrogenases. Journal of Biological Inorganic Chemistry, 2011, 16, 1255-1268.	1.1	75
41	Evidence for the formation of a cobalt-iron-sulfur (CoFe3S4) cluster in Desulfovibrio gigas ferredoxin II. Journal of the American Chemical Society, 1986, 108, 349-351.	6.6	73
42	Spectroscopic studies of cobalt and nickel substituted rubredoxin and desulforedoxin. Journal of Inorganic Biochemistry, 1991, 44, 127-139.	1.5	73
43	Temperature-dependent proton NMR investigation of the electronic structure of the trinuclear iron cluster of the oxidized Desulfovibrio gigas ferredoxin II. Inorganic Chemistry, 1993, 32, 1101-1105.	1.9	73
44	Structure of the Tetraheme Cytochrome from Desulfovibrio desulfuricans ATCC 27774: X-ray Diffraction and Electron Paramagnetic Resonance Studies. Biochemistry, 1995, 34, 12830-12841.	1.2	73
45	Electronic and magnetic properties of nickel-substituted rubredoxin: a variable-temperature magnetic circular dichroism study. Inorganic Chemistry, 1988, 27, 1162-1166.	1.9	71
46	Structure and function of ferrochelatase. Journal of Bioenergetics and Biomembranes, 1995, 27, 221-229.	1.0	70
47	Formate dehydrogenase from Desulfovibrio desulfuricans ATCC 27774: isolation and spectroscopic characterization of the active sites (heme, iron-sulfur centers and molybdenum). Journal of Biological Inorganic Chemistry, 1997, 2, 198-208.	1.1	70
48	Purification and Characterization of a Tungsten-Containing Formate Dehydrogenase fromDesulfovibrio gigasâ€. Biochemistry, 1999, 38, 16366-16372.	1.2	70
49	Gene sequence and crystal structure of the aldehyde oxidoreductase from Desulfovibrio desulfuricans ATCC 27774. Journal of Molecular Biology, 2000, 297, 135-146.	2.0	64
50	A needle in a haystack: The active site of the membrane-bound complex cytochromecnitrite reductase. FEBS Letters, 2007, 581, 284-288.	1.3	60
51	Ecotoxicity tests in the environmental analysis of wastewater treatment plants: Case study in Portugal. Journal of Hazardous Materials, 2009, 163, 665-670.	6.5	60
52	The isolation and characterization of cytochromecnitrite reductase subunits (NrfA and NrfH) fromDesulfovibrio desulfuricansATCC 27774. FEBS Journal, 2003, 270, 3904-3915.	0.2	57
53	Sample treatment for protein identification by mass spectrometry-based techniques. TrAC - Trends in Analytical Chemistry, 2006, 25, 996-1005.	5.8	57
54	NMR Redox Studies of Desrulfovibrio vulgaris Cytochrome c3. Electron Transfer Mechanisms. FEBS Journal, 1982, 127, 151-155.	0.2	56

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55	Resonance Raman spectra of rubredoxin: new assignments and vibrational coupling mechanism from iron-54/iron-56 isotope shifts and variable-wavelength excitation. Inorganic Chemistry, 1986, 25, 696-700.	1.9	55
56	Analysis of the Electron Paramagnetic Resonance Properties of the [2Fe-2S]1+ Centers in Molybdenum Enzymes of the Xanthine Oxidase Family:â€‰ Assignment of Signals I and II. Biochemistry, 2000, 39, 2700-2707.	1.2	55
57	Ultrasonic assisted protein enzymatic digestion for fast protein identification by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Journal of Chromatography A, 2007, 1166, 101-107.	1.8	55
58	Isolation and preliminary characterization of a soluble nitrate reductase from the sulfate reducing organism Desulfovibrio desulfuricans ATCC 27774. Anaerobe, 1995, 1, 55-60.	1.0	54
59	Purification, characterization and redox properties of hydrogenase from Methanosarcina barkeri (DSM 800). FEBS Journal, 1984, 142, 21-28.	0.2	53
60	Structural Basis for the Mechanism of Ca2+ Activation of the Di-Heme Cytochrome c Peroxidase from Pseudomonas nautica 617. Structure, 2004, 12, 961-973.	1.6	53
61	Source and reduction of nitrous oxide. Coordination Chemistry Reviews, 2019, 387, 436-449.	9.5	53
62	Observation of Ligand-Based Redox Chemistry at the Active Site of a Molybdenum Enzyme. Journal of the American Chemical Society, 1999, 121, 2625-2626.	6.6	52
63	Evidence for Antisymmetric Exchange in Cuboidal [3Feâ˜'4S]+ Clusters. Journal of the American Chemical Society, 2000, 122, 11855-11863.	6.6	52
64	Spectroscopic, Computational, and Kinetic Studies of the Î¼4-Sulfide-Bridged Tetranuclear CuZCluster in N2O Reductase:Â pH Effect on the Edge Ligand and Its Contribution to Reactivity. Journal of the American Chemical Society, 2007, 129, 3955-3965.	6.6	52
65	Determination of the Active Form of the Tetranuclear Copper Sulfur Cluster in Nitrous Oxide Reductase. Journal of the American Chemical Society, 2014, 136, 614-617.	6.6	52
66	Incorporation of either molybdenum or tungsten into formate dehydrogenase from Desulfovibrio alaskensis NCIMB 13491; EPR assignment of the proximal iron-sulfur cluster to the pterin cofactor in formate dehydrogenases from sulfate-reducing bacteria. Journal of Biological Inorganic Chemistry, 2004, 9, 145-151.	1.1	49
67	Gas chromatography mass spectrometry determination of acaricides from honey after a new fast ultrasonic-based solid phase micro-extraction sample treatment. Talanta, 2007, 71, 1906-1914.	2.9	49
68	The effect of the sixth sulfur ligand in the catalytic mechanism of periplasmic nitrate reductase. Journal of Computational Chemistry, 2009, 30, 2466-2484.	1.5	48
69	Structural and Electron Paramagnetic Resonance (EPR) Studies of Mononuclear Molybdenum Enzymes from Sulfate-Reducing Bacteria. Accounts of Chemical Research, 2006, 39, 788-796.	7.6	47
70	Functional Necessity and Physicochemical Characteristics of the [2Feâ˜'2S] Cluster in Mammalian Ferrochelatase. Journal of the American Chemical Society, 1996, 118, 9892-9900.	6.6	44
71	Tungsten-containing formate dehydrogenase from Desulfovibrio gigas: metal identification and preliminary structural data by multi-wavelength crystallography. Journal of Biological Inorganic Chemistry, 2001, 6, 398-404.	1.1	44
72	Novel structures in iron-sulfur proteins. Structure and Bonding, 1981, , 187-213.	1.0	44

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73	A cytochrome c peroxidase from Pseudomonas nautica 617 active at high ionic strength: expression, purification and characterization. BBA - Proteins and Proteomics, 1999, 1434, 248-259.	2.1	43
74	EPR characterization of the molybdenum(V) forms of formate dehydrogenase from Desulfovibrio desulfuricans ATCC 27774 upon formate reduction. Journal of Inorganic Biochemistry, 2007, 101, 1617-1622.	1.5	42
75	Electron Transfer Complex between Nitrous Oxide Reductase and Cytochrome c₅₅₂ from Pseudomonas nautica: Kinetic, Nuclear Magnetic Resonance, and Docking Studies. Biochemistry, 2008, 47, 10852-10862.	1.2	42
76	Proton NMR spectra of rubredoxins: new resonances assignable to .alpha.-CH and .beta.-CH2 hydrogens of cysteinate ligands to iron(II). Journal of the American Chemical Society, 1987, 109, 273-275.	6.6	41
77	Redox properties of Desulfovibrio gigas [Fe3S4] and [Fe4S4] ferredoxins and heterometal cubane-type clusters formed within the [Fe3S4] core. Square wave voltammetric studies. Journal of Inorganic Biochemistry, 1994, 53, 219-234.	1.5	41
78	Paracoccus pantotrophusPseudoazurin Is an Electron Donor to CytochromecPeroxidaseâ€. Biochemistry, 2004, 43, 11214-11225.	1.2	41
79	Sonoreactor-Based Technology for Fast High-Throughput Proteolytic Digestion of Proteins. Journal of Proteome Research, 2007, 6, 909-912.	1.8	41
80	NMR and electron-paramagnetic-resonance studies of a dihaem cytochrome from Pseudomonas stutzeri (ATCC 11607) (cytochrome c peroxidase). FEBS Journal, 1984, 141, 305-312.	0.2	40
81	Identification of three classes of hydrogenase in the genus, Desulfovibrio. Biochemical and Biophysical Research Communications, 1987, 149, 369-377.	1.0	40
82	A Cytochrome cd1-type Nitrite Reductase Isolated from the Marine Denitrifier Pseudomonas nautica 617: Purification and Characterization. Anaerobe, 1995, 1, 219-226.	1.0	40
83	EPR and redox properties of periplasmic nitrate reductase from Desulfovibrio desulfuricans ATCC 27774. Journal of Biological Inorganic Chemistry, 2006, 11, 609-616.	1.1	39
84	Isolation of P590 from Methanosarcina barkeri: Evidence for the presence of sulfite reductase activity. Biochemical and Biophysical Research Communications, 1982, 108, 1002-1009.	1.0	38
85	Ferredoxin from Methanosarcina barkeri: Evidence for the Presence of a Three-Iron Center. FEBS Journal, 1982, 126, 95-98.	0.2	38
86	Copper-containing nitrite reductase from Pseudomonas chlororaphis DSM 50135. Evidence for modulation of the rate of intramolecular electron transfer through nitrite binding to the type 2 copper center. FEBS Journal, 2004, 271, 2361-2369.	0.2	38
87	Effects of Molybdate and Tungstate on Expression Levels and Biochemical Characteristics of Formate Dehydrogenases Produced by Desulfovibrio alaskensis NCIMB 13491. Journal of Bacteriology, 2011, 193, 2917-2923.	1.0	38
88	Periplasmic nitrate reductases and formate dehydrogenases: Biological control of the chemical properties of Mo and W for fine tuning of reactivity, substrate specificity and metabolic role. Coordination Chemistry Reviews, 2013, 257, 315-331.	9.5	38
89	Electron transport in sulfate-reducing bacteria. Molecular modeling and NMR studies of the rubredoxin - tetraheme-cytochrome-c3 complex. FEBS Journal, 1989, 185, 695-700.	0.2	37
90	Enzymatic Properties and Effect of Ionic Strength on Periplasmic Nitrate Reductase (NAP) fromDesulfovibrio desulfuricansATCC 27774. Biochemical and Biophysical Research Communications, 1997, 239, 816-822.	1.0	37

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91	The first crystal structure of class III superoxide reductase from Treponema pallidum. Journal of Biological Inorganic Chemistry, 2006, 11, 548-558.	1.1	37
92	The catalytic cycle of nitrous oxide reductase â€" The enzyme that catalyzes the last step of denitrification. Journal of Inorganic Biochemistry, 2017, 177, 423-434.	1.5	37
93	Evidence for a Ternary Complex Formed between Flavodoxin and Cytochrome c3: 1H-NMR and Molecular Modeling Studies. Biochemistry, 1994, 33, 6394-6407.	1.2	36
94	Crystal Structure of Flavodoxin from Desulfovibrio desulfuricans ATCC 27774 in Two Oxidation States. FEBS Journal, 1996, 239, 190-196.	0.2	36
95	Redox Potential Measurements of the Mycobacterium tuberculosis Heme Protein KatG and the Isoniazid-Resistant Enzyme KatG(S315T):â€‰ Insights into Isoniazid Activation. Biochemistry, 2000, 39, 11508-11513.	1.2	36
96	Relations between mercury, methyl-mercury and selenium in tissues of Octopus vulgaris from the Portuguese Coast. Environmental Pollution, 2010, 158, 2094-2100.	3.7	36
97	The iron-sulfur centers of the soluble [NiFeSe] hydrogenase, from Desulfovibrio baculatus (DSM) Tj ETQq1 1 0.784314 rgBT /Overlock	0.2	35
98	Voltammetric studies of the catalytic electron-transfer process between the Desulfovibrio gigas hydrogenase and small proteins isolated from the same genus. FEBS Journal, 1993, 217, 981-989.	0.2	34
99	Low-Spin Heme b₃ in the Catalytic Center of Nitric Oxide Reductase from Pseudomonas nautica. Biochemistry, 2011, 50, 4251-4262.	1.2	34
100	The tetranuclear copper active site of nitrous oxide reductase: the CuZ center. Journal of Biological Inorganic Chemistry, 2011, 16, 183-194.	1.1	34
101	Proteins containing the factor F430 from methanosarcina barkeri and methanobacterium thermoautotrophicum. BBA - Proteins and Proteomics, 1983, 742, 84-90.	2.1	33
102	Assignment of individual heme EPR signalsof Desulfovibrio baculatus (strain 9974) tetraheme cytochrome c3. A redox equilibria study. FEBS Journal, 1988, 176, 365-369.	0.2	33
103	Binding of Protoporphyrin IX and Metal Derivatives to the Active Site of Wild-Type Mouse Ferrochelatase at Low Porphyrin-to-Protein Ratiosâ€. Biochemistry, 2002, 41, 8253-8262.	1.2	33
104	Antagonists Mo and Cu in a heterometallic cluster present on a novel protein (orange protein) isolated from Desulfovibrio gigas. Journal of Inorganic Biochemistry, 2004, 98, 833-840.	1.5	33
105	Superoxide Reductases. European Journal of Inorganic Chemistry, 2007, 2007, 2569-2581.	1.0	33
106	Kinetic, Structural, and EPR Studies Reveal That Aldehyde Oxidoreductase from Desulfovibrio gigas Does Not Need a Sulfido Ligand for Catalysis and Give Evidence for a Direct Moâ^'C Interaction in a Biological System. Journal of the American Chemical Society, 2009, 131, 7990-7998.	6.6	33
107	Substrate-dependent modulation of the enzymatic catalytic activity: Reduction of nitrate, chlorate and perchlorate by respiratory nitrate reductase from Marinobacter hydrocarbonoclasticus 617. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1072-1082.	0.5	33
108	Spectroscopic Definition of the Cu_ZÂ° Intermediate in Turnover of Nitrous Oxide Reductase and Molecular Insight into the Catalytic Mechanism. Journal of the American Chemical Society, 2017, 139, 4462-4476.	6.6	33

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109	New findings for in-gel digestion accelerated by high-intensity focused ultrasound for protein identification by matrix-assisted laser desorption ionization time-of-flight mass spectrometry. Journal of Chromatography A, 2007, 1153, 291-299.	1.8	32
110	Third-generation electrochemical biosensor based on nitric oxide reductase immobilized in a multiwalled carbon nanotubes/1-n-butyl-3-methylimidazolium tetrafluoroborate nanocomposite for nitric oxide detection. Sensors and Actuators B: Chemical, 2019, 285, 445-452.	4.0	32
111	The active centers of adenylylsulfate reductase from Desulfovibrio gigas. Characterization and spectroscopic studies. FEBS Journal, 1990, 188, 653-664.	0.2	31
112	Purification and characterization of bisulfite reductase (desulfofuscidin) from Desulfovibrio thermophilus and its complexes with exogenous ligands. BBA - Proteins and Proteomics, 1990, 1040, 112-118.	2.1	31
113	Kinetics of inter- and intramolecular electron transfer of Pseudomonas nautica cytochrome cd 1 nitrite reductase: regulation of the NO-bound end product. Journal of Biological Inorganic Chemistry, 2001, 6, 55-62.	1.1	31
114	MÃ¶ssbauer Characterization of Paracoccus denitrificans Cytochrome c Peroxidase. Journal of Biological Chemistry, 1995, 270, 24264-24269.	1.6	30
115	Electrochemical Studies on Nitrite Reductase toward a Biosensor. Biochemical and Biophysical Research Communications, 1995, 209, 1018-1025.	1.0	30
116	MAD Structure of Pseudomonas nautica Dimeric Cytochrome c552Mimicks thec4 Dihemic Cytochrome Domain Association. Journal of Molecular Biology, 1999, 289, 1017-1028.	2.0	30
117	Aldehyde oxidoreductase activity in Desulfovibrio alaskensis NCIMB 13491. FEBS Journal, 2000, 267, 2054-2061.	0.2	30
118	Desulfoferrodoxin: a modular protein. Journal of Biological Inorganic Chemistry, 2000, 5, 720-729.	1.1	30
119	Mossbauer study of the native, reduced and substrate-reacted Desulfovibrio gigas aldehyde oxido-reductase. FEBS Journal, 1992, 204, 773-778.	0.2	29
120	Two-dimensional1H NMR studies onDesulfovibrio gigas ferredoxins. Assignment of the iron-sulfur cluster cysteinyl ligand protons. Magnetic Resonance in Chemistry, 1993, 31, S59-S67.	1.1	29
121	Expression of Desulfovibrio gigas Desulforedoxin in Escherichia coli. Journal of Biological Chemistry, 1995, 270, 20273-20277.	1.6	29
122	Characterization of the Iron-binding Site in Mammalian Ferrochelatase by Kinetic and MÃ¶ssbauer Methods. Journal of Biological Chemistry, 1995, 270, 26352-26357.	1.6	29
123	Characterization of Representative Enzymes from a Sulfate Reducing Bacterium Implicated in the Corrosion of Steel. Biochemical and Biophysical Research Communications, 1996, 221, 414-421.	1.0	29
124	Modelling metallothionein induction in the liver of Sparus aurata exposed to metal-contaminated sediments. Ecotoxicology and Environmental Safety, 2008, 71, 117-124.	2.9	29
125	Subunit composition, crystallization and preliminary crystallographic studies of the Desulfovibrio gigas aldehyde oxidoreductase containing molybdenum and [2Fe-2S] centers. FEBS Journal, 1993, 215, 729-732.	0.2	28
126	[15] Characterization of three proteins containing multiple iron sites: Rubrerythrin, desulfoferrodoxin, and a protein containing a six-iron cluster. Methods in Enzymology, 1994, 243, 216-240.	0.4	28

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127	The Affinity and Specificity of Ca2+-Binding Sites of Cytochrome-c Peroxidase from Paracoccus Denitrificans. FEBS Journal, 1995, 234, 878-886.	0.2	28
128	Redox Properties of Cytochrome Nitrite Reductase from ATCC 27774. Journal of Biological Chemistry, 1996, 271, 23191-23196.	1.6	28
129	The Structure of an Electron Transfer Complex Containing a Cytochrome c and a Peroxidase. Journal of Biological Chemistry, 1999, 274, 11383-11389.	1.6	28
130	Camelid nanobodies raised against an integral membrane enzyme, nitric oxide reductase. Protein Science, 2009, 18, 619-628.	3.1	28
131	Electrochemical studies of the hexaheme nitrite reductase from Desulfovibrio desulfuricans ATCC 27774. FEBS Journal, 1993, 212, 79-86.	0.2	27
132	Improving Sample Treatment for In-Solution Protein Identification by Peptide Mass Fingerprint Using Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Journal of Proteome Research, 2007, 6, 3393-3399.	1.8	27
133	Electrochemical behaviour of bacterial nitric oxide reductaseâ€"Evidence of low redox potential non-heme FeB gives new perspectives on the catalytic mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 233-238.	0.5	27
134	Spectroscopic studies on APS reductase isolated from the hyperthermophilic sulfate-reducing archaebacterium Archaeglobus fulgidus. Biochemical and Biophysical Research Communications, 1991, 181, 342-347.	1.0	26
135	A Copper Protein and a Cytochrome Bind at the Same Site on Bacterial Cytochrome c Peroxidase. Biochemistry, 2004, 43, 14566-14576.	1.2	26
136	A new CuZ active form in the catalytic reduction of N2O by nitrous oxide reductase from Pseudomonas nautica. Journal of Biological Inorganic Chemistry, 2010, 15, 967-976.	1.1	26
137	The electron transfer complex between nitrous oxide reductase and its electron donors. Journal of Biological Inorganic Chemistry, 2011, 16, 1241-1254.	1.1	26
138	Biosensor for direct bioelectrocatalysis detection of nitric oxide using nitric oxide reductase incorporated in carboxylated single-walled carbon nanotubes/lipidic 3 bilayer nanocomposite. Bioelectrochemistry, 2019, 127, 76-86.	2.4	26
139	Resonance Raman studies of nickel tetrathiolates and nickel-substituted rubredoxins and desulforedoxin. Inorganic Chemistry, 1993, 32, 406-412.	1.9	25
140	Overexpression and purification of Treponema pallidum rubredoxin; kinetic evidence for a superoxide-mediated electron transfer with the superoxide reductase neelaredoxin. Journal of Biological Inorganic Chemistry, 2004, 9, 839-849.	1.1	25
141	An improved clean sonoreactor-based method for protein identification by mass spectrometry-based techniques. Talanta, 2008, 77, 870-875.	2.9	25
142	Molybdenum Induces the Expression of a Protein Containing a New Heterometallic Mo-Fe Cluster in Desulfovibrio alaskensis. Biochemistry, 2009, 48, 873-882.	1.2	25
143	Biochemical characterization of the purple form of Marinobacter hydrocarbonoclasticus nitrous oxide reductase. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1204-1212.	1.8	25
144	Isolation and characterization of a rubredoxin and an (8Fe-8S) ferredoxin from Desulfuromonas acetoxidans. Biochimica Et Biophysica Acta - Bioenergetics, 1978, 502, 38-44.	0.5	24

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145	Primary structure of desulfoferrodoxin fromDesulfovibrio desulfuricansATCC 27774, a new class of non-heme iron proteins. FEBS Letters, 1996, 385, 138-142.	1.3	24
146	The solution structure of a [3Fe-4S] ferredoxin: oxidised ferredoxin II from Desulfovibrio gigas. Journal of Biological Inorganic Chemistry, 1999, 4, 421-430.	1.1	23
147	Crystal Structure of the 16 Heme Cytochrome from Desulfovibrio gigas: A Glycosylated Protein in a Sulphate-reducing Bacterium. Journal of Molecular Biology, 2007, 370, 659-673.	2.0	23
148	Steady-state kinetics with nitric oxide reductase (NOR): New considerations on substrate inhibition profile and catalytic mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 375-384.	0.5	23
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