Miguel Teixeira

List of Publications by Year
in descending order

236	11,030	34493 54	53065 89
papers	citations	h-index	g-index

260	260	260	9150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superoxide Dismutases and Superoxide Reductases. Chemical Reviews, 2014, 114, 3854-3918.	23.0	717
2	Molecular and Biochemical Characterization of a Highly Stable Bacterial Laccase That Occurs as a Structural Component of the Bacillus subtilis Endospore Coat. Journal of Biological Chemistry, 2002, 277, 18849-18859.	1.6	456
3	A novel scenario for the evolution of haemâ€“copper oxygen reductases. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1505, 185-208.	0.5	408
4	New Insights into Type II NAD(P)H:Quinone Oxidoreductases. Microbiology and Molecular Biology Reviews, 2004, 68, 603-616.	2.9	224
5	Structure of a dioxygen reduction enzyme from Desulfovibrio gigas. Nature Structural Biology, 2000, 7, 1041-1045.	9.7	213
6	A Novel Type of Nitric-oxide Reductase. Journal of Biological Chemistry, 2002, 277, 25273-25276.	1.6	176
7	New Genes Implicated in the Protection of Anaerobically Grown Escherichia coli against Nitric Oxide*. Journal of Biological Chemistry, 2005, 280, 2636-2643.	1.6	172
8	The superfamily of hemeâ€“copper oxygen reductases: Types and evolutionary considerations. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 629-637.	0.5	163
9	Coupling of the pathway of sulphur oxidation to dioxygen reduction: characterization of a novel membrane-bound thiosulphate:quinone oxidoreductase. Molecular Microbiology, 2004, 53, 1147-1160.	1.2	160
10	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
11	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
12	Characterization of theDesulfovibrio desulfuricansATCC 27774 DsrMKJOP ComplexA Membrane-Bound Redox Complex Involved in the Sulfate Respiratory Pathway. Biochemistry, 2006, 45, 249-262.	1.2	127
13	Studies on the Redox Centers of the Terminal Oxidase fromDesulfovibrio gigas and Evidence for Its Interaction with Rubredoxin. Journal of Biological Chemistry, 1997, 272, 22502-22508.	1.6	124
14	Structural and Functional Insights into Sulfide:Quinone Oxidoreductase[,]. Biochemistry, 2009, 48, 5613-5622.	1.2	118
15	Reactive Oxygen Species Mediate Bactericidal Killing Elicited by Carbon Monoxide-releasing Molecules. Journal of Biological Chemistry, 2011, 286, 26708-26717.	1.6	117
16	Escherichia coli Di-iron YtfE Protein Is Necessary for the Repair of Stress-damaged Iron-Sulfur Clusters. Journal of Biological Chemistry, 2007, 282, 10352-10359.	1.6	115
17	Unambiguous identification of the nickel EPR signal in 61Ni-enriched Desulfovibrio gigas hydrogenase. Biochemical and Biophysical Research Communications, 1982, 108, 1388-1393.	1.0	106
18	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

#	Article	IF	Citations
19	A novel membrane-bound respiratory complex from Desulfovibrio desulfuricans ATCC 27774. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1605, 67-82.	0.5	104
20	Entamoeba histolyticamodulates a complex repertoire of novel genes in response to oxidative and nitrosative stresses: implications for amebic pathogenesis. Cellular Microbiology, 2009, 11, 51-69.	1.1	102
21	Purification and Characterization of an Iron Superoxide Dismutase and a Catalase from the Sulfate-Reducing BacteriumDesulfovibrio gigas. Journal of Bacteriology, 2000, 182, 796-804.	1.0	101
22	The â€˜strictâ€™ anaerobeDesulfovibrio gigascontains a membrane-bound oxygen-reducing respiratory chain. FEBS Letters, 2001, 496, 40-43.	1.3	101
23	Module fusion in an A-type flavoprotein from the cyanobacterium Synechocystis condenses a multiple-component pathway in a single polypeptide chain. Biochemical and Biophysical Research Communications, 2002, 294, 82-87.	1.0	101
24	Characterization of a heme c nitrite reductase from a non-ammonifying microorganism, Desulfovibrio vulgaris Hildenborough. BBA - Proteins and Proteomics, 2000, 1481, 119-130.	2.1	100
25	Nitrogen dependent changes in antioxidant system and in fatty acid composition of chloroplast membranes from Coffea arabica L. plants submitted to high irradiance. Plant Science, 1998, 135, 115-124.	1.7	97
26	The Role of the Hybrid Cluster Protein in Oxidative Stress Defense. Journal of Biological Chemistry, 2006, 281, 32445-32450.	1.6	97
27	Quinol:fumarate oxidoreductases and succinate:quinone oxidoreductases: phylogenetic relationships, metal centres and membrane attachment. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 158-170.	0.5	96
28	Membrane-Bound Electron Transfer Chain of the Thermohalophilic Bacterium Rhodothermus marinus:â€‰ A Novel Multihemic Cytochrome bc, a New Complex III. Biochemistry, 1999, 38, 1268-1275.	1.2	88
29	Desulfovibrio Gigas Hydrogenase: Redox Properties of the Nickel and Iron-Sulfur Centers. FEBS Journal, 1983, 130, 481-484.	0.2	85
30	Electron transfer between hydrogenases and mono- and multiheme cytochromes in Desulfovibrio ssp. Journal of Biological Inorganic Chemistry, 1998, 3, 494-498.	1.1	83
31	Hydrogenases in Desulfovibrio vulgaris Hildenborough: structural and physiologic characterisation of the membrane-bound [NiFeSe] hydrogenase. Journal of Biological Inorganic Chemistry, 2005, 10, 667-682.	1.1	83
32	The Role of the Flavodiiron Proteins in Microbial Nitric Oxide Detoxification. Advances in Microbial Physiology, 2004, 49, 77-129.	1.0	81
33	Oxy radicals production and control in the chloroplast of Mn-treated rice. Plant Science, 2000, 152, 7-15.	1.7	79
34	Spectroscopic studies of cobalt and nickel substituted rubredoxin and desulforedoxin. Journal of Inorganic Biochemistry, 1991, 44, 127-139.	1.5	73
35	A Blue Non-Heme Iron Protein from Desulfovibrio gigas. FEBS Journal, 1994, 226, 613-618.	0.2	73
36	Spectroscopic Studies and Characterization of a Novel Electron-Transfer Chain fromEscherichia coliInvolving a Flavorubredoxin and Its Flavoprotein Reductase Partnerâ€. Biochemistry, 2000, 39, 16230-16237.	1.2	72

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37	Escherichia coliYtfE is a di-iron protein with an important function in assembly of ironÃ¢Â€Â“sulphur clusters. FEMS Microbiology Letters, 2006, 257, 278-284.	0.7	72
38	Nitration of tyrosine 74 prevents human cytochrome c to play a key role in apoptosis signaling by blocking caspase-9 activation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 981-993.	0.5	72
39	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
40	Exploring membrane respiratory chains. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1039-1067.	0.5	70
41	Oxygen detoxification in the strict anaerobic archaeon Archaeoglobus fulgidus: superoxide scavenging by Neelaredoxin. Molecular Microbiology, 2000, 38, 322-334.	1.2	69
42	A Membrane-Bound Cytochromec3: A Type II Cytochromec3 fromDesulfovibrio vulgaris Hildenborough. ChemBioChem, 2001, 2, 895-905.	1.3	66
43	A Seven-iron Ferredoxin from the Thermoacidophilic Archaeon Desulfurolobus ambivalens. FEBS Journal, 1995, 227, 322-327.	0.2	64
44	Desulfovibrio gigas Flavodiiron Protein Affords Protection against Nitrosative Stress In Vivo. Journal of Bacteriology, 2006, 188, 2745-2751.	1.0	64
45	Looking for the minimum common denominator in haemâ€“copper oxygen reductases: Towards a unified catalytic mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 929-934.	0.5	64
46	Redox properties and activity studies on a nickel-containing hydrogenase isolated from a halophilic sulfate reducer Desulfovibrio salexigens. Biochimie, 1986, 68, 75-84.	1.3	62
47	Nitrite Reductase fromDesulfovibrio desulfuricans(ATCC 27774)â€” A Heterooligomer Heme Protein with Sulfite Reductase Activity. Biochemical and Biophysical Research Communications, 1996, 224, 611-618.	1.0	62
48	Tyrosine phosphorylation turns alkaline transition into a biologically relevant process and makes human cytochrome c behave as an anti-apoptotic switch. Journal of Biological Inorganic Chemistry, 2011, 16, 1155-1168.	1.1	62
49	Characterization of Mutant Met100Lys of Cytochrome c-550 from Thiobacillus versutus with Lysine-Histidine Heme Ligation. Biochemistry, 1994, 33, 10051-10059.	1.2	61
50	A Bioinformatics Classifier and Database for Heme-Copper Oxygen Reductases. PLoS ONE, 2011, 6, e19117.	1.1	60
51	Hydrogen production and deuterium-proton exchange reactions catalyzed by Desulfovibrio nickel(II)-substituted rubredoxins. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 9378-9380.	3.3	59
52	The anaerobeDesulfovibrio desulfuricansATCC 27774 grows at nearly atmospheric oxygen levels. FEBS Letters, 2007, 581, 433-436.	1.3	59
53	Flavodiiron Protein from Trichomonas vaginalis Hydrogenosomes: the Terminal Oxygen Reductase. Eukaryotic Cell, 2009, 8, 47-55.	3.4	59
54	Desulfovibrio gigasneelaredoxin. FEBS Journal, 1999, 259, 235-243.	0.2	58

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55	The sulphur oxygenase reductase from Acidianus ambivalens is a multimeric protein containing a low-potential mononuclear non-haem iron centre. Biochemical Journal, 2004, 381, 137-146.	1.7	57
56	Membrane-Bound Electron Transfer Chain of the Thermohalophilic Bacterium Rhodothermus marinus:â€‰ Characterization of the Ironâ''Sulfur Centers from the Dehydrogenases and Investigation of the High-Potential Ironâ''Sulfur Protein Function by in Vitro Reconstitution of the Respiratory Chain. Biochemistry, 1999, 38, 1276-1283.	1.2	55
57	The alternative complex III: A different architecture using known building modules. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1869-1876.	0.5	55
58	The dual function of flavodiiron proteins: oxygen and/or nitric oxide reductases. Journal of Biological Inorganic Chemistry, 2016, 21, 39-52.	1.1	55
59	The superoxide dismutase activity of desulfoferrodoxin from Desulfovibrio desulfuricans ATCC 27774. FEBS Journal, 1999, 261, 438-443.	0.2	54
60	Purification, characterization and redox properties of hydrogenase from Methanosarcina barkeri (DSM 800). FEBS Journal, 1984, 142, 21-28.	0.2	53
61	Rice tolerance to excess Mn: Implications in the chloroplast lamellae and synthesis of a novel Mn protein. Plant Physiology and Biochemistry, 2000, 38, 969-978.	2.8	53
62	The alternative complex III from Rhodothermus marinus â€“ A prototype of a new family of quinol:electron acceptor oxidoreductases. FEBS Letters, 2007, 581, 4831-4835.	1.3	52
63	Reductive elimination of superoxide: Structure and mechanism of superoxide reductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 285-297.	1.1	51
64	Trichomonas vaginalis degrades nitric oxide and expresses a flavorubredoxin-like protein: a new pathogenic mechanism?. Cellular and Molecular Life Sciences, 2004, 61, 618-623.	2.4	50
65	The caa3 terminal oxidase of the thermohalophilic bacterium Rhodothermus marinus: a HiPIP:oxygen oxidoreductase lacking the key glutamate of the D-channel. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1413, 1-13.	0.5	49
66	The Tmc Complex fromDesulfovibrio vulgarisHildenborough Is Involved in Transmembrane Electron Transfer from Periplasmic Hydrogen Oxidationâ€. Biochemistry, 2006, 45, 10359-10367.	1.2	48
67	Flavohemoglobin requires microaerophilic conditions for nitrosative protection ofStaphylococcus aureus. FEBS Letters, 2006, 580, 1817-1821.	1.3	48
68	Redox and Spectroscopic Properties of the Escherichia coli Nitric Oxide-detoxifying System Involving Flavorubredoxin and Its NADH-oxidizing Redox Partner. Journal of Biological Chemistry, 2005, 280, 34599-34608.	1.6	47
69	A Detoxifying Oxygen Reductase in the Anaerobic Protozoan Entamoeba histolytica. Eukaryotic Cell, 2012, 11, 1112-1118.	3.4	47
70	The Alternative complex III: Properties and possible mechanisms for electron transfer and energy conservation. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1852-1859.	0.5	47
71	Proton pathways, ligand binding and dynamics of the catalytic site in haem-copper oxygen reductases: a comparison between the three families. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 340-346.	0.5	46
72	Biochemical, Spectroscopic, and Thermodynamic Properties of Flavodiiron Proteins. Methods in Enzymology, 2008, 437, 21-45.	0.4	46

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73	Superoxide Reduction Mechanism of Archaeoglobus fulgidus One-Iron Superoxide Reductase. Biochemistry, 2006, 45, 9266-9278.	1.2	45
74	A Novel Type of Monoheme Cytochrome c: Biochemical and Structural Characterization at 1.23 Ã... Resolution of Rhodothermus marinus Cytochrome c. Biochemistry, 2008, 47, 11953-11963.	1.2	44
75	Molecular Characterization of Desulfovibrio gigas Neelaredoxin, a Protein Involved in Oxygen Detoxification in Anaerobes. Journal of Bacteriology, 2001, 183, 4413-4420.	1.0	43
76	How superoxide reductases and flavodiiron proteins combat oxidative stress in anaerobes. Free Radical Biology and Medicine, 2019, 140, 36-60.	1.3	43
77	The unusual iron sulfur composition of the Acidianus ambivalens succinate dehydrogenase complex. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 134-141.	0.5	41
78	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
79	Binding of Azole Antibiotics to Staphylococcus aureus Flavohemoglobin Increases Intracellular Oxidative Stress. Journal of Bacteriology, 2010, 192, 1527-1533.	1.0	41
80	Decay of the Chloroplast Pool of Ascorbate Switches on the Oxidative Burst in UVâ€Bâ€Irradiated Rice. Journal of Agronomy and Crop Science, 2012, 198, 130-144.	1.7	41
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 mÃ¶ssbauer investigation of oxidized Fe4S4 HiPIP II from Ectothiorohodospira halophila. Journal of Inorganic Biochemistry, 1993, 52, 227-234.	1.5	40
83	Thecaa3Terminal Oxidase ofRhodothermus marinusLacking the Key Glutamate of the D-Channel Is a Proton Pumpâ€. Biochemistry, 2000, 39, 6336-6340.	1.2	40
84	Could a Diiron-Containing Four-Helix-Bundle Protein Have Been a Primitive Oxygen Reductase?. ChemBioChem, 2001, 2, 583-587.	1.3	40
85	Redox properties of the oxygen-detoxifying flavodiiron protein from the human parasite Giardia intestinalis. Archives of Biochemistry and Biophysics, 2009, 488, 9-13.	1.4	40
86	Cytochrome c6 from Monoraphidium braunii. A cytochrome with an unusual heme axial coordination. FEBS Journal, 1993, 216, 329-341.	0.2	39
87	Multiheme Cytochromes from the Sulfur-Reducing Bacterium Desulfuromonas Acetoxidans. FEBS Journal, 1997, 248, 323-328.	0.2	39
88	The Mechanism of Superoxide Scavenging byArchaeoglobus fulgidus Neelaredoxin. Journal of Biological Chemistry, 2001, 276, 38995-39001.	1.6	39
89	Supramolecular organization of bacterial aerobic respiratory chains: From cells and back. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 190-197.	0.5	39
90	Stability and folding of the ferredoxin from the hyperthermophilic archaeon Acidianus ambivalens. Journal of Inorganic Biochemistry, 2000, 78, 35-41.	1.5	38

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91	Acidianus ambivalens Complex II Typifies a Novel Family of Succinate Dehydrogenases. Biochemical and Biophysical Research Communications, 2001, 281, 141-150.	1.0	38
92	Midpoint Potentials of Hemesaanda3in the Quinol Oxidase fromAcidianus ambivalensare Inverted. Journal of the American Chemical Society, 2005, 127, 13561-13566.	6.6	38
93	Structural basis for energy transduction by respiratory alternative complex III. Nature Communications, 2018, 9, 1728.	5.8	38
94	Nickel - a redox catalytic site in hydrogenase. Journal of Molecular Catalysis, 1984, 23, 303-314.	1.2	36
95	Metal complexes of a 12-membered tetraaza macrocycle containing pyridine and N-carboxymethyl groups. Journal of the Chemical Society Dalton Transactions, 1997, , 55-64.	1.1	36
96	Heme-copper oxidases with modified D- and K-pathways are yet efficient proton pumps. FEBS Letters, 2001, 497, 159-164.	1.3	36
97	Nitration of tyrosines 46 and 48 induces the specific degradation of cytochrome c upon change of the heme iron state to high-spin. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1616-1623.	0.5	36
98	The iron-sulfur centers of the soluble [NiFeSe] hydrogenase, from Desulfovibrio baculatus (DSM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.2	35
99	A membrane-bound HIPIP type center in the thermohalophileRhodothermus marinus. FEBS Letters, 1994, 352, 327-330.	1.3	35
100	Iron-coproporphyrin III is a natural cofactor in bacterioferritin from the anaerobic bacteriumDesulfovibrio desulfuricans. FEBS Letters, 2000, 480, 213-216.	1.3	35
101	Gene Cluster of Rhodothermus marinus High-Potential Iron-Sulfur Protein:Oxygen Oxidoreductase, a caa 3 -Type Oxidase Belonging to the Superfamily of Heme-Copper Oxidases. Journal of Bacteriology, 2001, 183, 687-699.	1.0	35
102	Plasticity of proton pathways in haem-copper oxygen reductases. FEBS Letters, 2002, 522, 14-18.	1.3	35
103	Respiratory Chains from Aerobic Thermophilic Prokaryotes. Journal of Bioenergetics and Biomembranes, 2004, 36, 93-105.	1.0	35
104	Superoxide reduction by Archaeoglobus fulgidus desulfoferrodoxin: comparison with neelaredoxin. Journal of Biological Inorganic Chemistry, 2007, 12, 248-256.	1.1	35
105	SERR-Spectroelectrochemical Study of a cbb₃ Oxygen Reductase in a Biomimetic Construct. Journal of Physical Chemistry B, 2008, 112, 16952-16959.	1.2	35
106	Resonance Raman spectroscopy of Feâ€“S proteins and their redox properties. Journal of Biological Inorganic Chemistry, 2018, 23, 647-661.	1.1	35
107	Structural Studies on Flavodiiron Proteins. Methods in Enzymology, 2008, 437, 3-19.	0.4	34
108	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

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109	EPR studies of cytochrome aa3 from Sulfolobus acidocaldarius. Evidence for a binuclear center in archaebacterial terminal oxidase. FEBS Journal, 1992, 210, 133-138.	0.2	33
110	Heme centers of Rhodothermus marinus respiratory chain. Characterization of its cbb3 oxidase. Journal of Bioenergetics and Biomembranes, 2000, 32, 143-152.	1.0	33
111	Regulation of the flavorubredoxin nitric oxide reductase gene inEscherichia coli: nitrate repression, nitrite induction, and possible post-transcription control. FEMS Microbiology Letters, 2003, 218, 385-393.	0.7	33
112	The alternative complex III of Rhodothermus marinus and its structural and functional association with caa3 oxygen reductase. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1477-1482.	0.5	33
113	Functional Characterization of Peroxiredoxins from the Human Protozoan Parasite Giardia intestinalis. PLoS Neglected Tropical Diseases, 2014, 8, e2631.	1.3	33
114	Diversity and complexity of flavodiiron NO/O2 reductases. FEMS Microbiology Letters, 2018, 365, .	0.7	33
115	Evidence for a Rieske-type FeS center in the thermoacidophilic archaebacterium Sulfolobus acidocaldarius. FEBS Letters, 1993, 318, 61-64.	1.3	32
116	Evidence for a Two-Proton-Dependent Redox Equilibrium in an Archaeal Rieske Iron-Sulfur Cluster. Biochemical and Biophysical Research Communications, 1994, 202, 252-257.	1.0	32
117	Di-cluster, seven-iron ferredoxins from hyperthermophilic Sulfolobales. Journal of Biological Inorganic Chemistry, 1998, 3, 499-507.	1.1	32
118	Redox-linked transient deprotonation at the binuclear site in the aa3-type quinol oxidase from Acidianus ambivalens: Implications for proton translocation. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9591-9596.	3.3	32
119	A new type-II NADH dehydrogenase from the archaeon Acidianus ambivalens: characterization and in vitro reconstitution of the respiratory chain. Journal of Bioenergetics and Biomembranes, 2001, 33, 1-8.	1.0	32
120	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
121	Rubredoxin acts as an electron donor for neelaredoxin in Archaeoglobus fulgidus. Biochemical and Biophysical Research Communications, 2005, 329, 1300-1305.	1.0	32
122	Mimicking Tyrosine Phosphorylation in Human Cytochromeâ€...c by the Evolved tRNA Synthetase Technique. Chemistry - A European Journal, 2015, 21, 15004-15012.	1.7	32
123	The active centers of adenylylsulfate reductase from Desulfovibrio gigas. Characterization and spectroscopic studies. FEBS Journal, 1990, 188, 653-664.	0.2	31
124	Escherichia coli RIC Is Able to Donate Iron to Iron-Sulfur Clusters. PLoS ONE, 2014, 9, e95222.	1.1	31
125	A Bacterioferritin from the Strict AnaerobeDesulfovibrio desulfuricansATCC 27774â€. Biochemistry, 2000, 39, 6841-6849.	1.2	30
126	High stability of a ferredoxin from the hyperthermophilic archaeonA. ambivalens: Involvement of electrostatic interactions and cofactors. Protein Science, 2001, 10, 1539-1548.	3.1	30

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127	Functional control of the binuclear metal site in the metallo-Î²-lactamase-like fold by subtle amino acid replacements. Protein Science, 2009, 11, 707-712.	3.1	30
128	Structure of Escherichia coli Flavodiiron Nitric Oxide Reductase. Journal of Molecular Biology, 2016, 428, 4686-4707.	2.0	30
129	Functional Properties of the Quinol Oxidase from Acidianus ambivalens and the Possible Catalytic Role of its Electron Donor. Studies on the Membrane-Integrated and Purified Enzyme. FEBS Journal, 1997, 250, 383-388.	0.2	29
130	Superoxide scavenging by neelaredoxin: dismutation and reduction activities in anaerobes. Journal of Biological Inorganic Chemistry, 2002, 7, 668-674.	1.1	29
131	The succinate dehydrogenase from the thermohalophilic bacterium Rhodothermus marinus: redox-Bohr effect on heme bL. Journal of Bioenergetics and Biomembranes, 2001, 33, 343-352.	1.0	27
132	Acidianus ambivalenstype-II NADH dehydrogenase: genetic characterisation and identification of the flavin moiety as FMN. FEBS Letters, 2002, 531, 273-277.	1.3	27
133	Metal complexes of a tetraaza macrocycle with N-carboxymethyl groups as pendant arms. Journal of the Chemical Society Dalton Transactions, 1997, , 65.	1.1	26
134	The superoxide reductase from the early diverging eukaryote Giardia intestinalis. Free Radical Biology and Medicine, 2011, 51, 1567-1574.	1.3	26
135	Responses of Clostridia to oxygen: from detoxification to adaptive strategies. Environmental Microbiology, 2021, 23, 4112-4125.	1.8	26
136	Pitfalls in assigning heme axial coordination by EPR. FEBS Letters, 1993, 317, 233-236.	1.3	25
137	Isolation and characterization of a high molecular weight cytochrome from the sulfate reducing bacteriumDesulfovibrio gigas. FEBS Letters, 1994, 347, 295-299.	1.3	25
138	Characterisation of a new rubredoxin isolated fromDesulfovibrio desulfuricans27774: definition of a new family of rubredoxins. FEBS Letters, 1998, 429, 295-298.	1.3	25
139	The quinol:fumarate oxidoreductase from the sulphate reducing bacterium Desulfovibrio gigas: spectroscopic and redox studies. Journal of Bioenergetics and Biomembranes, 2002, 34, 21-30.	1.0	25
140	Oxidative Stress Modulates the Nitric Oxide Defense Promoted by Escherichia coli Flavorubredoxin. Journal of Bacteriology, 2012, 194, 3611-3617.	1.0	25
141	Paramagnetic NMR Analysis of the Seven-Iron Ferredoxin from the Hyperthermoacidophilic Archaeon Desulfurolobus ambivalens Reveals Structural Similarity to other Dicluster Ferredoxins. FEBS Journal, 1996, 236, 92-99.	0.2	24
142	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
143	Superoxide reduction by Nanoarchaeum equitans neelaredoxin, an enzyme lacking the highly conserved glutamate iron ligand. Journal of Biological Inorganic Chemistry, 2008, 13, 219-228.	1.1	24
144	The cytochrome ba complex from the thermoacidophilic crenarchaeote Acidianus ambivalens is an analog of bc1 complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 37-45.	0.5	24

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145	EPR Characterization of an Archaeal Succinate Dehydrogenase in the Membrane-Bound State. FEBS Journal, 1995, 232, 563-568.	0.2	24
146	Mï¿½ssbauer studies of electrophoretically purified monoferric and diferric human transferrin. Biology of Metals, 1988, 1, 26-32.	1.1	23
147	Purification and characterization of the Rieske iron-sulfur protein from the thermoacidophilic crenarchaeonSulfolobus acidocaldarius. FEBS Letters, 1995, 359, 239-243.	1.3	23
148	Characterization of the [NiFe] Hydrogenase from the Sulfate ReducerDesulfovibrio vulgarisHildenborough. Biochemical and Biophysical Research Communications, 1997, 240, 75-79.	1.0	23
149	Formation of a linear [3Fe-4S] cluster in a seven-iron ferredoxin triggered by polypeptide unfolding. Journal of Biological Inorganic Chemistry, 2002, 7, 357-362.	1.1	23
150	Redox Properties of Thermus thermophilus ba3: Different Electron-Proton Coupling in Oxygen Reductases?. Biophysical Journal, 2008, 94, 2434-2441.	0.2	23
151	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
152	Simulation of the electrochemical behavior of multi-redox systems. Current potential studies on multiheme cytochromes. FEBS Journal, 1991, 202, 385-393.	0.2	22
153	The membrane-bound high-molecular-mass cytochromes c from Desulfovibrio gigas and Desulfovibrio vulgaris Hildenborough; EPR and MÃ¶ssbauer studies. Journal of Biological Inorganic Chemistry, 1997, 2, 23-31.	1.1	22
154	Structural composition of alternative complex III: Variations on the same theme. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1378-1382.	0.5	22
155	Flavodiiron Oxygen Reductase from Entamoeba histolytica. Journal of Biological Chemistry, 2014, 289, 28260-28270.	1.6	22
156	The multidomain flavodiiron protein from Clostridium difficile 630 is an NADH:oxygen oxidoreductase. Scientific Reports, 2018, 8, 10164.	1.6	22
157	Hemeproteins in anaerobes. , 1998, , 65-89.		21
158	Purification and characterization of the complex I from the respiratory chain of Rhodothermus marinus. Journal of Bioenergetics and Biomembranes, 2002, 34, 413-421.	1.0	21
159	Investigation of protonatable residues in Rhodothermus marinus caa 3 haem-copper oxygen reductase: comparison with Paracoccus denitrificans aa 3 haem-copper oxygen reductase. Journal of Biological Inorganic Chemistry, 2004, 9, 124-134.	1.1	21
160	Studies on the degradation pathway of iron-sulfur centers during unfolding of a hyperstable ferredoxin: cluster dissociation, iron release and protein stability. Journal of Biological Inorganic Chemistry, 2004, 9, 987-996.	1.1	21
161	The role of nickel and iron-sulfur centers in the bioproduction of hydrogen. Pure and Applied Chemistry, 1989, 61, 915-921.	0.9	20
162	The NADH Oxidase from the Thermoacidophilic ArchaeaAcidianus ambivalens:Isolation and Physicochemical Characterisation. Biochemical and Biophysical Research Communications, 1998, 243, 412-415.	1.0	20

#	Article	IF	Citations
163	Docking and electron transfer studies between rubredoxin and rubredoxin:oxygen oxidoreductase. Journal of Biological Inorganic Chemistry, 2003, 8, 475-488.	1.1	20
164	The respiratory chain of the thermophilic archaeon Sulfolobus metallicus: studies on the type-II NADH dehydrogenase. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1557, 13-19.	0.5	20
165	A novel iron centre in the split-Soret cytochrome c from Desulfovibrio desulfuricans ATCC 27774. Journal of Biological Inorganic Chemistry, 2003, 8, 360-370.	1.1	20
166	Structure at 1.0 Ã... resolution of a high-potential ironâ€“sulfur protein involved in the aerobic respiratory chain of Rhodothermus marinus. Journal of Biological Inorganic Chemistry, 2010, 15, 303-313.	1.1	20
167	Structure at 1.3Ã... Resolution of Rhodothermus marinus caa3 Cytochrome c Domain. Journal of Molecular Biology, 2005, 345, 1047-1057.	2.0	19
168	Relationship between retroviral vector membrane and vector stability. Journal of General Virology, 2006, 87, 1349-1356.	1.3	19
169	Ethylmalonic Encephalopathy ETHE1 R163W/R163Q Mutations Alter Protein Stability and Redox Properties of the Iron Centre. PLoS ONE, 2014, 9, e107157.	1.1	19
170	The iron-sulfur centers of the pyruvate:ferredoxin oxidoreductase fromMethanosarcina barkeri(Fusaro). FEBS Letters, 1997, 414, 209-212.	1.3	18
171	A tyrosine residue deprotonates during oxygen reduction by thecaa3 reductase fromRhodothermus marinus. FEBS Letters, 2006, 580, 1350-1354.	1.3	18
172	Thermodynamic Redox Behavior of the Heme Centers of cbb₃ Heme-Copper Oxygen Reductase from Bradyrhizobium japonicum. Biochemistry, 2007, 46, 13245-13253.	1.2	18
173	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
174	EPR and MÃ¶ssbauer Spectroscopic Studies on Enoate Reductase. Journal of Biological Chemistry, 1996, 271, 18743-18748.	1.6	17
175	A Thermal Unfolding Study of Plastocyanin from the Thermophilic Cyanobacterium Phormidium laminosum. Biochemistry, 2004, 43, 14784-14791.	1.2	17
176	Active site structure of the aa3 quinol oxidase of Acidianus ambivalens. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 306-320.	0.5	17
177	Electron Paramagnetic Resonance Studies of the Ironâ˜Sulfur Centers from Complex I ofRhodothermus marinusâ€. Biochemistry, 2006, 45, 1002-1008.	1.2	17
178	Aba3oxygen reductase from the thermohalophilic bacteriumRhodothermus marinus. FEMS Microbiology Letters, 2007, 269, 41-47.	0.7	16
179	The haemâ€“copper oxygen reductase of Desulfovibrio vulgaris contains a dihaem cytochrome c in subunit II. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1528-1534.	0.5	16
180	Kinetics of electron transfer from NADH to the Escherichia coli nitric oxide reductase flavorubredoxin. FEBS Journal, 2007, 274, 677-686.	2.2	15

#	Article	IF	Citations
181	Desulforubrerythrin from Campylobacter jejuni, a novel multidomain protein. Journal of Biological Inorganic Chemistry, 2011, 16, 501-510.	1.1	15
182	Thermofluor-based optimization strategy for the stabilization and crystallization of Campylobacter jejuni desulforubrerythrin. Protein Expression and Purification, 2012, 81, 193-200.	0.6	15
183	Dynamics of the Binuclear Center of the Quinol Oxidase fromAcidianus ambivalensâ€. Biochemistry, 1999, 38, 10032-10041.	1.2	14
184	Quinone reduction by Rhodothermus marinus succinate:menaquinone oxidoreductase is not stimulated by the membrane potential. Biochemical and Biophysical Research Communications, 2005, 330, 565-570.	1.0	14
185	Quaternary Structure of Flavorubredoxin as Revealed by Synchrotron Radiation Small-Angle X-Ray Scattering. Structure, 2008, 16, 1428-1436.	1.6	14
186	A ferredoxin from the thermohalophilic bacterium Rhodothermus marinus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1601, 1-8.	1.1	13
187	FTIR Spectroscopic Characterization of the Cytochromeaa3fromAcidianus ambivalens:Â Evidence for the Involvement of Acidic Residues in Redox Coupled Proton Translocationâ€. Biochemistry, 2003, 42, 6179-6184.	1.2	13
188	Resonance Raman study of the superoxide reductase from Archaeoglobus fulgidus, E12 mutants and a â€˜natural variantâ€™. Physical Chemistry Chemical Physics, 2009, 11, 1809.	1.3	13
189	Ligand Binding and the Catalytic Reaction of Cytochromecaa3from the Thermophilic BacteriumRhodothermus marinusâ€. Biochemistry, 2001, 40, 10578-10585.	1.2	12
190	Electron transfer dynamics of Rhodothermus marinus caa3 cytochrome c domains on biomimetic films. Physical Chemistry Chemical Physics, 2011, 13, 18088.	1.3	12
191	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
192	The role of lysine 99 ofThiobacillus versutuscytochromec-550 in the alkaline transition. FEBS Letters, 1994, 351, 100-104.	1.3	11
193	Characterization of cytochrome c 6 from the cyanobacterium Anabaena PCC 7119. Journal of Biological Inorganic Chemistry, 1997, 2, 225-234.	1.1	11
194	Kinetics of electron and proton transfer during O 2 reduction in cytochrome aa 3 from A. ambivalens : an enzyme lacking Glu(I-286). Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1503, 261-270.	0.5	11
195	Flavodiiron Proteins and Their Role in Cyanobacteria. , 2011, , 631-653.		11
196	Mossbauer characterization of the tetraheme cytochrome c3 from Desulfovibrio baculatus (DSM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	10
197	Evidence for a novel type of iron cluster in the respiratory chain of the archaeonSulfolobus metallicus. FEBS Letters, 1998, 432, 99-102.	1.3	10
198	Crystallisation and preliminary structure determination of a NADH: quinone oxidoreductase from the extremophile Acidianus ambivalens. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 842-845.	1.1	10

#	Article	IF	Citations
199	Crystallographic analysis of the intact metal centres [3Feâ€“4S]^{1+/0} and [4Feâ€“4S]^{2+/1+} in a Zn²⁺â€containing ferredoxin. FEBS Letters, 2008, 582, 763-767.	1.3	10
200	Kinetic Characterization of the Escherichia coli Nitric Oxide Reductase Flavorubredoxin. Methods in Enzymology, 2008, 437, 47-62.	0.4	10
201	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
202	Metal-induced histidine deprotonation in biocatalysis? Experimental and theoretical insights into superoxide reductase. RSC Advances, 2014, 4, 54091-54095.	1.7	10
203	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
204	Insights into the structure of the diiron site of RIC from Escherichia coli. FEBS Letters, 2015, 589, 426-431.	1.3	9
205	Trichomonas vaginalis Repair of Iron Centres Proteins: The Different Role of Two Paralogs. Protist, 2016, 167, 222-233.	0.6	9
206	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
207	A nhaD Na+/H+antiporter and a pcd homologues are among the Rhodothermus marinus complex I genes. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 95-103.	0.5	8
208	Gene expression study of the flavodi-iron proteins from the cyanobacterium Synechocystis sp. PCC6803. Biochemical Society Transactions, 2011, 39, 216-218.	1.6	8
209	Characterisation of cytochrome c6from Chlorella fusca. Photosynthesis Research, 1997, 54, 107-114.	1.6	7
210	Dioxatriazamacrocycle-N,Nâ€²,Nâ€³-triacetic Acids: Synthesis, Protonation Constants, and Metal-Complex Studies. Crystal Structure of Hydrogen [1,4-Dioxa-7,10,13-triazacyclopentadecane-7,10,13-triacetato(4)-ÎºN7,ÎºN11,ÎºN13,ÎºO7]copper(1 -) Hydrate (2 : 1) ([Cu(HL1)]â‹…0.5 H2O). Helvetica Chimica Acta, 2000, 83, 702-721.	1.0	7
211	Is a Q-cycle-like mechanism operative in dihaemic succinate:quinone and quinol:fumarate oxidoreductases?. FEBS Letters, 2003, 543, 1-4.	1.3	7
212	A Rieske ferredoxin typifying a subtype within Rieske proteins: spectroscopic, biochemical and stability studies. FEBS Letters, 2005, 579, 1020-1026.	1.3	7
213	Biochemical, proteomic and genetic characterization of oxygen survival mechanisms in sulphate-reducing bacteria of the genus Desulfovibrio. , 2007, , 185-214.		7
214	Cloning, purification, crystallization and X-ray crystallographic analysis ofIgnicoccus hospitalisneelaredoxin. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 605-607.	0.7	7
215	Nitrosative stress defences of the enterohepatic pathogenic bacterium Helicobacter pullorum. Scientific Reports, 2017, 7, 9909.	1.6	7
216	Structure and coordination of CuB in the Acidianus ambivalens aa 3 quinol oxidase hemeâ€“copper center. Journal of Biological Inorganic Chemistry, 2005, 10, 625-635.	1.1	6

#	Article	IF	Citations
217	The Na+/H+ antiporter of the thermohalophilic bacterium Rhodothermus marinus. Biochemical and Biophysical Research Communications, 2006, 348, 1011-1017.	1.0	6
218	Thermodynamic Redox Behavior of the Heme Centers in A-Type Heme-Copper Oxygen Reductases: Comparison between the Two Subfamilies. Biophysical Journal, 2008, 95, 4448-4455.	0.2	6
219	Superoxide reduction by a superoxide reductase lacking the highly conserved lysine residue. Journal of Biological Inorganic Chemistry, 2015, 20, 155-164.	1.1	6
220	The monoheme cytochrome c subunit of Alternative Complex III is a direct electron donor to caa3 oxygen reductase in Rhodothermus marinus. Biological Chemistry, 2017, 398, 1037-1044.	1.2	6
221	EPR Characterization of an Archaeal Succinate Dehydrogenase in the Membrane-Bound State. FEBS Journal, 1995, 232, 563-568.	0.2	5
222	Ferredoxins from the Archaeon Acidianus ambivalens: Overexpression and Characterization of the Non-Zinc-Containing Ferredoxin FdB. Biological Chemistry, 2001, 382, 1501-7.	1.2	5
223	Insights into the Structures of Superoxide Reductases from the Symbionts Ignicoccus hospitalis and Nanoarchaeum equitans. Biochemistry, 2018, 57, 5271-5281.	1.2	5
224	Modulation of Human Phenylalanine Hydroxylase by 3-Hydroxyquinolin-2(1H)-One Derivatives. Biomolecules, 2021, 11, 462.	1.8	5
225	Structural and functional insights of GSU0105, aÂunique multiheme cytochrome from G.Âsulfurreducens. Biophysical Journal, 2021, 120, 5395-5407.	0.2	4
226	Ambineela, an Unusual Blue Protein Isolated from the ArchaeonAcidianus ambivalens. Biochemical and Biophysical Research Communications, 1998, 249, 23-25.	1.0	3
227	An archaeal b-type cytochrome containing a nonfunctional carbonic anhydrase-like domain. Journal of Biological Inorganic Chemistry, 2002, 7, 483-489.	1.1	3
228	Crystallization and X-Ray Analysis of Rhodothermus marinus Cytochrome c at 1.23 Å Resolution. Protein and Peptide Letters, 2007, 14, 1038-1040.	0.4	3
229	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
230	Purification, crystallization and X-ray crystallographic analysis ofArchaeoglobus fulgidusneelaredoxin. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 316-319.	0.7	2
231	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
232	Nickel containing hydrogenases. Inorganica Chimica Acta, 1983, 79, 13-14.	1.2	0
233	Electron/proton coupling in biological energy transduction. FEBS Letters, 2012, 586, 473-473.	1.3	0
234	Proteinâ€“protein interaction in Rhodothermus marinus respiratory chain studied by NMR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e83-e84.	0.5	0

#	Article	IF	Citations
235	Functional and structural characterization of Alternative Complex III. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e66.	0.5	0
236	Unravelling New Metabolic Pathways: Supramolecular Organization of Aerobic Bacteria Respiratory Chains. , 2015, , 217-238.		0