Manuela M Pereira

List of Publications by Year
in descending order

87	3,527	136950 32	149698 56
papers	citations	h-index	g-index

95	95	95	3076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	3.4	456
2	A novel scenario for the evolution of haemâ€“copper oxygen reductases. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1505, 185-208.	1.0	408
3	Copper incorporation into recombinant CotA laccase from Bacillus subtilis: characterization of fully copper loaded enzymes. Journal of Biological Inorganic Chemistry, 2008, 13, 183-193.	2.6	173
4	The superfamily of hemeâ€“copper oxygen reductases: Types and evolutionary considerations. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 629-637.	1.0	163
5	Structural and Functional Insights into Sulfide:Quinone Oxidoreductase[,]. Biochemistry, 2009, 48, 5613-5622.	2.5	118
6	A missing link between complex I and group 4 membrane-bound [NiFe] hydrogenases. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 198-209.	1.0	108
7	Quinol:fumarate oxidoreductases and succinate:quinone oxidoreductases: phylogenetic relationships, metal centres and membrane attachment. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 158-170.	1.0	96
8	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.	2.5	88
9	Exploring membrane respiratory chains. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1039-1067.	1.0	70
10	Proximal mutations at the typeÂ1 copper site of CotA laccase: spectroscopic, redox, kinetic and structural characterization of I494A and L386A mutants. Biochemical Journal, 2008, 412, 339-346.	3.7	66
11	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.	1.0	64
12	A Bioinformatics Classifier and Database for Heme-Copper Oxygen Reductases. PLoS ONE, 2011, 6, e19117.	2.5	60
13	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.	2.5	55
14	The alternative complex III: A different architecture using known building modules. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1869-1876.	1.0	55
15	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.	2.8	52
16	A robust metallo-oxidase from the hyperthermophilic bacterium Aquifex aeolicus. FEBS Journal, 2007, 274, 2683-2694.	4.7	51
17	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.	1.0	49
18	The role of Glu498 in the dioxygen reactivity of CotA-laccase from Bacillus subtilis. Dalton Transactions, 2010, 39, 2875.	3.3	49

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19	The Alternative complex III: Properties and possible mechanisms for electron transfer and energy conservation. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1852-1859.	1.0	47
20	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.	1.0	46
21	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.	2.5	44
22	Type II NADH:quinone oxidoreductase family: phylogenetic distribution, structural diversity and evolutionary divergences. Environmental Microbiology, 2016, 18, 4697-4709.	3.8	42
23	Thecaa3Terminal Oxidase ofRhodothermus marinusLacking the Key Glutamate of the D-Channel Is a Proton Pumpâ€. Biochemistry, 2000, 39, 6336-6340.	2.5	40
24	Typeâ€‹scp>II NADH</scp>:quinone oxidoreductase from Staphylococcus aureus has two distinct binding sites and is rate limited by quinone reduction. Molecular Microbiology, 2015, 98, 272-288.	2.5	39
25	Midpoint Potentials of Hemesaanda3in the Quinol Oxidase fromAcidianus ambivalensare Inverted. Journal of the American Chemical Society, 2005, 127, 13561-13566.	13.7	38
26	Structural basis for energy transduction by respiratory alternative complex III. Nature Communications, 2018, 9, 1728.	12.8	38
27	Taxonomic distribution, structure/function relationship and metabolic context of the two families of sulfide dehydrogenases: SQR and FCSD. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 742-753.	1.0	36
28	A membrane-bound HIPIP type center in the thermohalophileRhodothermus marinus. FEBS Letters, 1994, 352, 327-330.	2.8	35
29	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.	2.2	35
30	Plasticity of proton pathways in haem-copper oxygen reductases. FEBS Letters, 2002, 522, 14-18.	2.8	35
31	Respiratory Chains from Aerobic Thermophilic Prokaryotes. Journal of Bioenergetics and Biomembranes, 2004, 36, 93-105.	2.3	35
32	SERR-Spectroelectrochemical Study of a cbb₃ Oxygen Reductase in a Biomimetic Construct. Journal of Physical Chemistry B, 2008, 112, 16952-16959.	2.6	35
33	Heme centers of Rhodothermus marinus respiratory chain. Characterization of its cbb3 oxidase. Journal of Bioenergetics and Biomembranes, 2000, 32, 143-152.	2.3	33
34	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.	1.0	33
35	Mechanisms of Energy Transduction by Charge Translocating Membrane Proteins. Chemical Reviews, 2021, 121, 1804-1844.	47.7	30
36	The succinate dehydrogenase from the thermohalophilic bacterium Rhodothermus marinus: redox-Bohr effect on heme bL. Journal of Bioenergetics and Biomembranes, 2001, 33, 343-352.	2.3	27

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37	Isolation and characterization of a high molecular weight cytochrome from the sulfate reducing bacteriumDesulfovibrio gigas. FEBS Letters, 1994, 347, 295-299.	2.8	25
38	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.	1.0	24
39	Energy conservation by Rhodothermus marinus respiratory complex I. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 509-515.	1.0	24
40	Redox Properties of Thermus thermophilus ba3: Different Electron-Proton Coupling in Oxygen Reductases?. Biophysical Journal, 2008, 94, 2434-2441.	0.5	23
41	Decoupling of the Catalytic and Transport Activities of Complex I from Rhodothermus marinus by Sodium/Proton Antiporter Inhibitor. ACS Chemical Biology, 2011, 6, 477-483.	3.4	22
42	Structural composition of alternative complex III: Variations on the same theme. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1378-1382.	1.0	22
43	Reconstitution of Respiratory Complex I on a Biomimetic Membrane Supported on Gold Electrodes. Langmuir, 2014, 30, 9007-9015.	3.5	22
44	Structural and Functional insights into the catalytic mechanism of the Type II NADH:quinone oxidoreductase family. Scientific Reports, 2017, 7, 42303.	3.3	22
45	Purification and characterization of the complex I from the respiratory chain of Rhodothermus marinus. Journal of Bioenergetics and Biomembranes, 2002, 34, 413-421.	2.3	21
46	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.	2.6	21
47	Respiratory complex I: A dual relation with H + and Na + ?. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 928-937.	1.0	20
48	In Silico Discovery of a Substituted 6-Methoxy-quinalidine with Leishmanicidal Activity in Leishmania infantum. Molecules, 2018, 23, 772.	3.8	20
49	Structure at 1.3Ã... Resolution of Rhodothermus marinus caa3 Cytochrome c Domain. Journal of Molecular Biology, 2005, 345, 1047-1057.	4.2	19
50	Sodium influence on energy transduction by complexes I from Escherichia coli and Paracoccus denitrificans. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 286-292.	1.0	19
51	A tyrosine residue deprotonates during oxygen reduction by thecaa3 reductase fromRhodothermus marinus. FEBS Letters, 2006, 580, 1350-1354.	2.8	18
52	Thermodynamic Redox Behavior of the Heme Centers of cbb₃ Heme-Copper Oxygen Reductase from Bradyrhizobium japonicum. Biochemistry, 2007, 46, 13245-13253.	2.5	18
53	Regulation of the mechanism of Type-II NADH: Quinone oxidoreductase from S. aureus. Redox Biology, 2018, 16, 209-214.	9.0	18
54	Active site structure of the aa3 quinol oxidase of Acidianus ambivalens. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 306-320.	1.0	17

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55	Electron Paramagnetic Resonance Studies of the Ironâ^'Sulfur Centers from Complex I ofRhodothermus marinusâ€. Biochemistry, 2006, 45, 1002-1008.	2.5	17
56	The key role of glutamate 172 in the mechanism of type II NADH:quinone oxidoreductase of Staphylococcus aureus. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 823-832.	1.0	17
57	Aba3oxygen reductase from the thermohalophilic bacteriumRhodothermus marinus. FEMS Microbiology Letters, 2007, 269, 41-47.	1.8	16
58	The antiporter-like subunit constituent of the universal adaptor of complex I, group 4 membrane-bound [NiFe]-hydrogenases and related complexes. Biological Chemistry, 2013, 394, 659-666.	2.5	16
59	Quinone reduction by Rhodothermus marinus succinate:menaquinone oxidoreductase is not stimulated by the membrane potential. Biochemical and Biophysical Research Communications, 2005, 330, 565-570.	2.1	14
60	The removal of a disulfide bridge in CotA-laccase changes the slower motion dynamics involved in copper binding but has no effect on the thermodynamic stability. Journal of Biological Inorganic Chemistry, 2011, 16, 641-651.	2.6	14
61	The plethora of membrane respiratory chains in the phyla of life. Advances in Microbial Physiology, 2019, 74, 331-414.	2.4	14
62	A ferredoxin from the thermohalophilic bacterium Rhodothermus marinus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1601, 1-8.	2.3	13
63	The role of proton and sodium ions in energy transduction by respiratory complex I. IUBMB Life, 2012, 64, 492-498.	3.4	13
64	Substrateâ€“Protein Interactions of Type II NADH:Quinone Oxidoreductase from Escherichia coli. Biochemistry, 2016, 55, 2722-2734.	2.5	13
65	Catalytic Activity and Proton Translocation of Reconstituted Respiratory Complex I Monitored by Surface-Enhanced Infrared Absorption Spectroscopy. Langmuir, 2018, 34, 5703-5711.	3.5	13
66	Ligand Binding and the Catalytic Reaction of Cytochromecaa3from the Thermophilic BacteriumRhodothermus marinusâ€. Biochemistry, 2001, 40, 10578-10585.	2.5	12
67	Electron transfer dynamics of Rhodothermus marinus caa3 cytochrome c domains on biomimetic films. Physical Chemistry Chemical Physics, 2011, 13, 18088.	2.8	12
68	Investigating the amino acid sequences of membrane bound dihydroorotate:quinone oxidoreductases (DHOQOs): Structural and functional implications. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148321.	1.0	11
69	Study of ion translocation by respiratory complex I. A new insight using 23Na NMR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1810-1816.	1.0	10
70	Identification of pheromone candidates for the eucalyptus weevil, Gonipterus platensis (Coleoptera, Curculionidae). Journal of Applied Entomology, 2020, 144, 41-53.	1.8	10
71	The Ion-Translocating NrfD-Like Subunit of Energy-Transducing Membrane Complexes. Frontiers in Chemistry, 2021, 9, 663706.	3.6	10
72	Coarse-Grained Parameterization of Nucleotide Cofactors and Metabolites: Protonation Constants, Partition Coefficients, and Model Topologies. Journal of Chemical Information and Modeling, 2021, 61, 335-346.	5.4	9

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73	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.	1.0	8
74	The dihydrolipoamide dehydrogenase from the crenarchaeon Acidianus ambivalens. FEMS Microbiology Letters, 2008, 281, 147-154.	1.8	8
75	Respiratory complex I from Escherichia coli does not transport Na⁺ in the absence of its NuoL subunit. FEBS Letters, 2014, 588, 4520-4525.	2.8	8
76	Is a Q-cycle-like mechanism operative in dihaemic succinate:quinone and quinol:fumarate oxidoreductases?. FEBS Letters, 2003, 543, 1-4.	2.8	7
77	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.	2.6	6
78	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.	0.5	6
79	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.	2.5	6
80	Modularity of membrane-bound charge-translocating protein complexes. Biochemical Society Transactions, 2021, , .	3.4	6
81	Subunit composition of Rhodothermus marinus respiratory complex I. Analytical Biochemistry, 2010, 407, 104-110.	2.4	5
82	Expression, purification, crystallization and preliminary X-ray diffraction analysis of a type II NADH:quinone oxidoreductase from the human pathogenStaphylococcus aureus. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 477-482.	0.8	3
83	Olfactory responses of Anaphes nitens (Hymenoptera, Mymaridae) to host and habitat cues. Journal of Applied Entomology, 2021, 145, 675-687.	1.8	1
84	The molecular selectivity of type II NADH:quinone oxidoreductase for quinones â€” A docking study. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e84.	1.0	0
85	Proteinâ€“protein interaction in Rhodothermus marinus respiratory chain studied by NMR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e83-e84.	1.0	0
86	Functional and structural characterization of Alternative Complex III. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e66.	1.0	0
87	Bioenergetics Theory and Components | Respiratory Alternative Complex III â€“ Structural and Functional Insights. , 2021, , 143-149.		0