

Ricardo O Louro

List of Publications by Year in descending order

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103
papers

2,897
citations

117453

34
h-index

197535

49
g-index

112
all docs

112
docs citations

112
times ranked

2592
citing authors

#	ARTICLE	IF	CITATIONS
1	A dynamic periplasmic electron transfer network enables respiratory flexibility beyond a thermodynamic regulatory regime. <i>ISME Journal</i> , 2015, 9, 1802-1811.	4.4	134
2	Mind the gap: cytochrome interactions reveal electron pathways across the periplasm of <i>Shewanella oneidensis</i> MR-1. <i>Biochemical Journal</i> , 2013, 449, 101-108.	1.7	129
3	IR780 based nanomaterials for cancer imaging and photothermal, photodynamic and combinatorial therapies. <i>International Journal of Pharmaceutics</i> , 2018, 542, 164-175.	2.6	105
4	Hyaluronic acid functionalized green reduced graphene oxide for targeted cancer photothermal therapy. <i>Carbohydrate Polymers</i> , 2018, 200, 93-99.	5.1	95
5	Electron transfer process in microbial electrochemical technologies: The role of cell-surface exposed conductive proteins. <i>Bioresource Technology</i> , 2018, 255, 308-317.	4.8	85
6	Extracellular reduction of solid electron acceptors by <i>Shewanella oneidensis</i> . <i>Molecular Microbiology</i> , 2018, 109, 571-583.	1.2	83
7	Functionalization of graphene family nanomaterials for application in cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 260-275.	2.5	69
8	Energy metabolism in <i>Desulfovibrio vulgaris</i> Hildenborough: insights from transcriptome analysis. <i>Antonie Van Leeuwenhoek</i> , 2008, 93, 347-362.	0.7	66
9	Functional and Mechanistic Studies of Cytochrome c ₃ from <i>Desulfovibrio gigas</i> : Thermodynamics of a Proton Thruster. <i>Biochemistry</i> , 1998, 37, 15808-15815.	1.2	65
10	Exploring the molecular mechanisms of electron shuttling across the microbe/metal space. <i>Frontiers in Microbiology</i> , 2014, 5, 318.	1.5	65
11	Electronic Structure of Low-Spin Ferric Porphyrins: ¹³ C NMR Studies of the Influence of Axial Ligand Orientation. <i>Journal of the American Chemical Society</i> , 1998, 120, 13240-13247.	6.6	62
12	In vitro characterization of 3D printed scaffolds aimed at bone tissue regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 207-218.	2.5	59
13	Redox-Bohr effect in the tetrahaem cytochrome c ₃ from <i>Desulfovibrio vulgaris</i> : a model for energy transduction mechanisms. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 34-38.	1.1	58
14	Cooperativity between Electrons and Protons in a Monomeric Cytochrome c ₃ : The Importance of Mechano-Chemical Coupling for Energy Transduction. <i>ChemBioChem</i> , 2001, 2, 831.	1.3	57
15	Determination of solution structures of paramagnetic proteins by NMR. <i>European Biophysics Journal</i> , 1998, 27, 367-375.	1.2	56
16	Redox-Bohr effect in electron/proton energy transduction: cytochrome c ₃ coupled to hydrogenase works as a 'proton thruster' in <i>Desulfovibrio vulgaris</i> . <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 488-491.	1.1	55
17	Unveiling the Details of Electron Transfer in Multicenter Redox Proteins. <i>Accounts of Chemical Research</i> , 2014, 47, 56-65.	7.6	55
18	Green reduced graphene oxide functionalized 3D printed scaffolds for bone tissue regeneration. <i>Carbon</i> , 2019, 146, 513-523.	5.4	54

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19	Thermodynamic Characterization of Triheme Cytochrome PpcA from <i>Geobacter sulfurreducens</i> : Evidence for a Role Played in e-/H+ Energy Transduction. <i>Biochemistry</i> , 2006, 45, 13910-13917.	1.2	53
20	POxylated graphene oxide nanomaterials for combination chemo-phototherapy of breast cancer cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 162-169.	2.0	52
21	Periodic polarization of electroactive biofilms increases current density and charge carriers concentration while modifying biofilm structure. <i>Biosensors and Bioelectronics</i> , 2018, 121, 183-191.	5.3	49
22	The Tmc Complex from <i>Desulfovibrio vulgaris</i> Hildenborough Is Involved in Transmembrane Electron Transfer from Periplasmic Hydrogen Oxidation. <i>Biochemistry</i> , 2006, 45, 10359-10367.	1.2	48
23	The tetraheme cytochrome from <i>Shewanella oneidensis</i> MR-1 shows thermodynamic bias for functional specificity of the hemes. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 375-385.	1.1	48
24	Electroactive Biochar for Large-Scale Environmental Applications of Microbial Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18198-18212.	3.2	46
25	Characterization of the periplasmic redox network that sustains the versatile anaerobic metabolism of <i>Shewanella oneidensis</i> MR-1. <i>Frontiers in Microbiology</i> , 2015, 6, 665.	1.5	42
26	Tuning of functional heme reduction potentials in <i>Shewanella fumarate</i> reductases. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 113-120.	0.5	40
27	Nonredundant Roles for Cytochrome <i>c</i> ₂ and Two High-Potential Iron-Sulfur Proteins in the Photoferrotroph <i>Rhodospirillum rubrum</i> TIE-1. <i>Journal of Bacteriology</i> , 2014, 196, 850-858.	1.0	40
28	Conformational Component in the Coupled Transfer of Multiple Electrons and Protons in a Monomeric Tetraheme Cytochrome. <i>Journal of Biological Chemistry</i> , 2001, 276, 44044-44051.	1.6	39
29	Thermodynamic and kinetic characterization of trihaem cytochrome <i>c</i> ₃ from <i>Desulfuromonas acetoxidans</i> . <i>FEBS Journal</i> , 2002, 269, 5722-5730.	0.2	39
30	Molecular details of multielectron transfer: the case of multiheme cytochromes from metal respiring organisms. <i>Dalton Transactions</i> , 2010, 39, 4259-4266.	1.6	38
31	Comparative redox and pK _a calculations on cytochrome <i>c</i> ₃ from several <i>Desulfovibrio</i> species using continuum electrostatic methods. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 73-86.	1.1	37
32	Transcriptional response of <i>Desulfovibrio vulgaris</i> Hildenborough to oxidative stress mimicking environmental conditions. <i>Archives of Microbiology</i> , 2008, 189, 451-461.	1.0	37
33	Thermodynamic and kinetic characterisation of individual haems in multicentre cytochromes <i>c</i> ₃ . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1169-1179.	0.5	36
34	The role of intramolecular interactions in the functional control of multiheme cytochromes <i>c</i> ₃ . <i>FEBS Letters</i> , 2012, 586, 504-509.	1.3	36
35	Iron-coproporphyrin III is a natural cofactor in bacterioferritin from the anaerobic bacterium <i>Desulfovibrio desulfuricans</i> . <i>FEBS Letters</i> , 2000, 480, 213-216.	1.3	35
36	D- α -tocopheryl polyethylene glycol 1000 succinate functionalized nanographene oxide for cancer therapy. <i>Nanomedicine</i> , 2017, 12, 443-456.	1.7	35

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37	Distance dependence of interactions between charged centres in proteins with common structural features. <i>FEBS Letters</i> , 2004, 576, 77-80.	1.3	34
38	Proton thrusters: overview of the structural and functional features of soluble tetrahaem cytochromes c 3. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 12, 1-10.	1.1	33
39	Structure-function relationship in type II cytochrome c 3 from <i>Desulfovibrio africanus</i> : a novel function in a familiar heme core. <i>Journal of Biological Inorganic Chemistry</i> , 2002, 7, 815-822.	1.1	29
40	Exploration of the h _c cytochromome™ of <i>Desulfuromonas acetoxidans</i> , a marine bacterium capable of powering microbial fuel cells. <i>Metallomics</i> , 2011, 3, 349.	1.0	28
41	Structural and functional characterization of cytochromec3from <i>D. desulfuricans</i> ATCC 27774 by1H-NMR. <i>FEBS Letters</i> , 1996, 390, 59-62.	1.3	27
42	Functional Characterization of the FoxE Iron Oxidoreductase from the Photoferrotroph <i>Rhodobacter ferrooxidans</i> SW2. <i>Journal of Biological Chemistry</i> , 2012, 287, 25541-25548.	1.6	27
43	Biofunctionalized nanoparticles with pH-responsive and cell penetrating blocks for gene delivery. <i>Nanotechnology</i> , 2013, 24, 275101.	1.3	26
44	Proton-assisted Two-electron Transfer in Natural Variants of Tetraheme Cytochromes from <i>Desulfomicrobium</i> Sp.. <i>Journal of Biological Chemistry</i> , 2004, 279, 52227-52237.	1.6	24
45	Energy conservation by <i>Rhodothermus marinus</i> respiratory complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 509-515.	0.5	24
46	Molecular Basis for Directional Electron Transfer. <i>Journal of Biological Chemistry</i> , 2010, 285, 10370-10375.	1.6	24
47	Thermodynamic characterization of a tetrahaem cytochrome isolated from a facultative aerobic bacterium, <i>Shewanella frigidimarina</i> : a putative redox model for flavocytochrome c3. <i>Biochemical Journal</i> , 2003, 370, 489-495.	1.7	23
48	Orientation of the axial ligands and magnetic properties of the hemes in the triheme ferricytochrome PpcA from <i>G. sulfurreducens</i> determined by paramagnetic NMR. <i>FEBS Letters</i> , 2010, 584, 3442-3445.	1.3	20
49	Mapping the Iron Binding Site(s) on the Small Tetraheme Cytochrome of <i>Shewanella oneidensis</i> MR-1. <i>Biochemistry</i> , 2011, 50, 6217-6224.	1.2	19
50	Heterologous expression and purification of a multiheme cytochrome from a Gram-positive bacterium capable of performing extracellular respiration. <i>Protein Expression and Purification</i> , 2015, 111, 48-52.	0.6	19
51	PRE-driven protein NMR structures: an alternative approach in highly paramagnetic systems. <i>FEBS Journal</i> , 2021, 288, 3010-3023.	2.2	18
52	Orientation of the axial ligands and magnetic properties of the hemes in the cytochrome c7 family from <i>Geobacter sulfurreducens</i> determined by paramagnetic NMR. <i>Dalton Transactions</i> , 2011, 40, 12713.	1.6	17
53	Pivotal role of the strictly conserved aromatic residue F15 in the cytochrome c 7 family. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 11-24.	1.1	15
54	Artificial heme-proteins: determination of axial ligand orientations through paramagnetic NMR shifts. <i>Chemical Communications</i> , 2014, 50, 3852-3855.	2.2	14

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55	Measuring transverse relaxation in highly paramagnetic systems. <i>Journal of Biomolecular NMR</i> , 2020, 74, 431-442.	1.6	14
56	A ferredoxin from the thermohalophilic bacterium <i>Rhodothermus marinus</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002, 1601, 1-8.	1.1	13
57	Redox tuning of the catalytic activity of soluble fumarate reductases from <i>Shewanella</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 717-725.	0.5	13
58	Electrochemical Detection of pH-Responsive Grafted Catechol and Immobilized Cytochrome onto Lipid Deposit-Modified Glassy Carbon Surface. <i>ACS Omega</i> , 2018, 3, 9035-9042.	1.6	13
59	Communicationâ€”Electrochemical Single Nano-Impacts of Electroactive <i>Shewanella Oneidensis</i> Bacteria onto Carbon Ultramicroelectrode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 105501.	1.3	13
60	Redox-Bohr effect in the nine haem cytochrome from <i>Desulfovibrio desulfuricans</i> 27774. <i>Inorganica Chimica Acta</i> , 2002, 339, 248-252.	1.2	12
61	Nature of the Surface-Exposed Cytochromeâ€™Electrode Interactions in Electroactive Biofilms of <i>Desulfovibrio acetoxidans</i> . <i>Journal of Physical Chemistry B</i> , 2015, 119, 7968-7974.	1.2	12
62	Modulation of the reactivity of multiheme cytochromes by site-directed mutagenesis: moving towards the optimization of microbial electrochemical technologies. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 87-97.	1.1	12
63	A brief survey of the â€™cytochromomeâ€™. <i>Advances in Microbial Physiology</i> , 2019, 75, 69-135.	1.0	12
64	Structure and reactivity of a siderophore-interacting protein from the marine bacterium <i>Shewanella</i> reveals unanticipated functional versatility. <i>Journal of Biological Chemistry</i> , 2019, 294, 157-167.	1.6	12
65	Crossing the Wall: Characterization of the Multiheme Cytochromes Involved in the Extracellular Electron Transfer Pathway of <i>Thermincola ferriacetica</i> . <i>Microorganisms</i> , 2021, 9, 293.	1.6	12
66	<i>Sporomusa ovata</i> as Catalyst for Bioelectrochemical Carbon Dioxide Reduction: A Review Across Disciplines From Microbiology to Process Engineering. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	12
67	A New Paradigm of Multiheme Cytochrome Evolution by Grafting and Pruning Protein Modules. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	12
68	Characterization of cytochrome c 6 from the cyanobacterium <i>Anabaena</i> PCC 7119. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 225-234.	1.1	11
69	Replacement of the methionine axial ligand in cytochrome c 550 by a lysine: effects on the haem electronic structure. <i>FEBS Letters</i> , 2002, 510, 185-188.	1.3	11
70	The quest to achieve the detailed structural and functional characterization of CymA. <i>Biochemical Society Transactions</i> , 2012, 40, 1291-1294.	1.6	11
71	Optimizing Electroactive Organisms: The Effect of Orthologous Proteins. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	11
72	Functional properties of type I and type II cytochromes c3 from <i>Desulfovibrio africanus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 178-188.	0.5	10

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73	Study of ion translocation by respiratory complex I. A new insight using ^{23}Na NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1810-1816.	0.5	10
74	Characterization of OmcA Mutants from <i>Shewanella oneidensis</i> MR-1 to Investigate the Molecular Mechanisms Underpinning Electron Transfer Across the Microbe-Electrode Interface. <i>Fuel Cells</i> , 2017, 17, 601-611.	1.5	10
75	Molecular structure of FoxE, the putative iron oxidase of <i>Rhodobacter ferrooxidans</i> SW2. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 847-853.	0.5	10
76	Sequence-specific assignments in NMR spectra of paramagnetic systems: A non-systematic approach. <i>Inorganica Chimica Acta</i> , 2021, 514, 119984.	1.2	10
77	NMR of paramagnetic metalloproteins in solution: Ubi venire, quo vadis?. <i>Journal of Inorganic Biochemistry</i> , 2022, 234, 111871.	1.5	10
78	Efficient and selective isotopic labeling of hemes to facilitate the study of multiheme proteins. <i>BioTechniques</i> , 2012, 52, 1-7.	0.8	9
79	Structure and redox properties of the diheme electron carrier cytochrome c4 from <i>Pseudomonas aeruginosa</i> . <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110889.	1.5	9
80	^1H , ^{13}C and ^{15}N assignment of the paramagnetic high potential iron-sulfur protein (HiPIP) PioC from <i>Rhodospseudomonas palustris</i> TIE-1. <i>Biomolecular NMR Assignments</i> , 2020, 14, 211-215.	0.4	9
81	Structural and magnetic characterisation of the haem core of ferricytochromes c 6. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 68-73.	1.1	8
82	Determination of the orientation of the axial ligands and of the magnetic properties of the haems in the tetrahaem ferricytochrome from <i>Shewanella frigidimarina</i> . <i>FEBS Letters</i> , 2002, 531, 520-524.	1.3	7
83	Binding of ligands originates small perturbations on the microscopic thermodynamic properties of a multicentre redox protein. <i>FEBS Journal</i> , 2005, 272, 2251-2260.	2.2	7
84	Electrochemical properties of pH-dependent flavocytochrome c3 from <i>Shewanella putrefaciens</i> adsorbed onto unmodified and catechol-modified edge plane pyrolytic graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113232.	1.9	7
85	Histidine orientation in artificial peroxidase regioisomers as determined by paramagnetic NMR shifts. <i>Chemical Communications</i> , 2021, 57, 990-993.	2.2	7
86	Redox behaviour of the haem domain of flavocytochromec3from <i>Shewanella frigidimarina</i> probed by NMR. <i>FEBS Letters</i> , 2004, 578, 185-190.	1.3	6
87	NMR and molecular modelling studies on elastase inhibitor-peptides for wound management. <i>Reactive and Functional Polymers</i> , 2013, 73, 1357-1365.	2.0	6
88	The orientation of the iron axial ligands in the low-potential cytochrome c549 from <i>Synechocystis</i> sp. PCC 6803 studied by NMR. <i>Inorganica Chimica Acta</i> , 1998, 273, 196-200.	1.2	4
89	Introduction to Biomolecular NMR and Metals. , 2013, , 77-107.		4
90	Analysis of the residual alignment of a paramagnetic multiheme cytochrome by NMR. <i>Chemical Communications</i> , 2014, 50, 4561.	2.2	4

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91	A putative siderophore-interacting protein from the marine bacterium <i>Shewanella frigidimarina</i> NCIMB 400: cloning, expression, purification, crystallization and X-ray diffraction analysis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 667-671.	0.4	3
92	Biomolecular NMR Assignment: Illustration Using the Heme Signals in Horse Cytochrome c. <i>Journal of Chemical Education</i> , 2017, 94, 1280-1284.	1.1	3
93	Exploring the Molecular Mechanisms of Extracellular Electron Transfer for Harnessing Reducing Power in METs. , 2019, , 261-293.		3
94	Crystallization and preliminary crystallographic studies of FoxE from <i>Rhodobacter ferrooxidans</i> SW2, an Fe ^{II} oxidoreductase involved in photoferrotrophy. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1106-1108.	0.7	2
95	Bacterial Power: An Alternative Energy Source. , 2021, , 215-246.		2
96	Molecular mechanisms of heme based sensors from sediment organisms capable of extracellular electron transfer. <i>Journal of Inorganic Biochemistry</i> , 2014, 133, 104-109.	1.5	1
97	Investigation of the Molecular Mechanisms of the Eukaryotic Cytochrome-c Maturation System. <i>Biomolecules</i> , 2022, 12, 549.	1.8	1
98	Corrigendum to "The role of intramolecular interactions in the functional control of multiheme cytochromes" [FEBS Lett. 586 (2012) 504-509]. <i>FEBS Letters</i> , 2012, 586, 3536-3536.	1.3	0
99	Electron/proton coupling in biological energy transduction. <i>FEBS Letters</i> , 2012, 586, 473-473.	1.3	0
100	Other Spectroscopic Methods for Probing Metal Centres in Biological Systems. , 2013, , 161-177.		0
101	Structure of FoxE, the <i>Rhodobacter ferrooxidans</i> SW2 putative iron oxidase. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1175-C1175.	0.0	0
102	Multi-Electron Transfer in Biological Systems. , 2015, , 1-34.		0
103	Electrochemical Properties of pH-Dependent Flavocytochrome C 3 from <i>Shewanella Putrefaciens</i> Adsorbed Onto Catechol-Modified Carbon Electrode. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2522-2522.	0.0	0