

Catarina M Paquete

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,397
citations

279798

23
h-index

345221

36
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49
all docs

49
docs citations

49
times ranked

1382
citing authors

#	ARTICLE	IF	CITATIONS
1	Letâ€™s chat: Communication between electroactive microorganisms. <i>Bioresource Technology</i> , 2022, 347, 126705.	9.6	33
2	Electron transfer in Gram-positive bacteria: enhancement strategies for bioelectrochemical applications. <i>World Journal of Microbiology and Biotechnology</i> , 2022, 38, 83.	3.6	8
3	Investigation of the Molecular Mechanisms of the Eukaryotic Cytochrome-c Maturation System. <i>Biomolecules</i> , 2022, 12, 549.	4.0	1
4	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.	3.6	12
5	Bacterial Power: An Alternative Energy Source. , 2021, , 215-246.		2
6	Editorial: Microbial Bioenergetics. <i>Frontiers in Microbiology</i> , 2021, 12, 793917.	3.5	1
7	Role of multiheme cytochromes involved in extracellular anaerobic respiration in bacteria. <i>Protein Science</i> , 2020, 29, 830-842.	7.6	48
8	Electroactivity across the cell wall of Gram-positive bacteria. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3796-3802.	4.1	24
9	Exploring the Effects of <i>boA</i> in Biofilm Formation and Current Generation by <i>Shewanella oneidensis</i> MR-1. <i>Frontiers in Microbiology</i> , 2020, 11, 815.	3.5	15
10	How Thermophilic Gram-Positive Organisms Perform Extracellular Electron Transfer: Characterization of the Cell Surface Terminal Reductase <i>OcwA</i> . <i>MBio</i> , 2019, 10, .	4.1	31
11	Electroactive Biochar for Large-Scale Environmental Applications of Microbial Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18198-18212.	6.7	46
12	A brief survey of the "cytochromome". <i>Advances in Microbial Physiology</i> , 2019, 75, 69-135.	2.4	12
13	Optimizing Electroactive Organisms: The Effect of Orthologous Proteins. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	11
14	Secreted Flavin Cofactors for Anaerobic Respiration of Fumarate and Urocanate by <i>Shewanella oneidensis</i> : Cost and Role. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	20
15	Improvement of the electron transfer rate in <i>Shewanella oneidensis</i> MR-1 using a tailored periplasmic protein composition. <i>Bioelectrochemistry</i> , 2019, 129, 18-25.	4.6	31
16	Exploring the Molecular Mechanisms of Extracellular Electron Transfer for Harnessing Reducing Power in METs. , 2019, , 261-293.		3
17	Electron transfer process in microbial electrochemical technologies: The role of cell-surface exposed conductive proteins. <i>Bioresource Technology</i> , 2018, 255, 308-317.	9.6	85
18	Extracellular reduction of solid electron acceptors by <i>Shewanella oneidensis</i> . <i>Molecular Microbiology</i> , 2018, 109, 571-583.	2.5	83

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19	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.	10.1	49
20	Interaction studies between periplasmic cytochromes provide insights into extracellular electron transfer pathways of <i>Geobacter sulfurreducens</i> . <i>Biochemical Journal</i> , 2017, 474, 797-808.	3.7	20
21	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.	2.4	10
22	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.	2.6	12
23	Unraveling the electron transfer processes of a nanowire protein from <i>Geobacter sulfurreducens</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 7-13.	1.0	16
24	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.	3.5	42
25	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.	1.3	19
26	Exploring the molecular mechanisms of electron shuttling across the microbe/metal space. <i>Frontiers in Microbiology</i> , 2014, 5, 318.	3.5	65
27	Synthesis and characterization of micelles as carriers of non-steroidal anti-inflammatory drugs (NSAID) for application in breast cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 375-383.	5.0	29
28	Unveiling the Details of Electron Transfer in Multicenter Redox Proteins. <i>Accounts of Chemical Research</i> , 2014, 47, 56-65.	15.6	55
29	Preparation of end-capped pH-sensitive mesoporous silica nanocarriers for on-demand drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 1012-1025.	4.3	61
30	Molecular mechanisms of heme based sensors from sediment organisms capable of extracellular electron transfer. <i>Journal of Inorganic Biochemistry</i> , 2014, 133, 104-109.	3.5	1
31	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.	1.0	13
32	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.	3.7	129
33	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.	2.8	0
34	The quest to achieve the detailed structural and functional characterization of CymA. <i>Biochemical Society Transactions</i> , 2012, 40, 1291-1294.	3.4	11
35	The role of intramolecular interactions in the functional control of multiheme cytochromes <i>in vivo</i> . <i>FEBS Letters</i> , 2012, 586, 504-509.	2.8	36
36	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.	2.5	19

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37	Exploration of the h ₂ cytochromome™ of <i>Desulfuromonas acetoxidans</i> , a marine bacterium capable of powering microbial fuel cells. <i>Metallomics</i> , 2011, 3, 349.	2.4	28
38	Nanoparticle mediated delivery of pure P53 supercoiled plasmid DNA for gene therapy. <i>Journal of Controlled Release</i> , 2011, 156, 212-222.	9.9	63
39	Molecular Basis for Directional Electron Transfer. <i>Journal of Biological Chemistry</i> , 2010, 285, 10370-10375.	3.4	24
40	Molecular details of multielectron transfer: the case of multiheme cytochromes from metal respiring organisms. <i>Dalton Transactions</i> , 2010, 39, 4259-4266.	3.3	38
41	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.	2.6	48
42	Functional properties of type I and type II cytochromes c ₃ from <i>Desulfovibrio africanus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 178-188.	1.0	10
43	Thermodynamic and kinetic characterisation of individual haems in multicentre cytochromes c ₃ . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1169-1179.	1.0	36
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.	3.4	24
45	Distance dependence of interactions between charged centres in proteins with common structural features. <i>FEBS Letters</i> , 2004, 576, 77-80.	2.8	34
46	Thermodynamic and kinetic characterization of trihaem cytochrome c ₃ from <i>Desulfuromonas acetoxidans</i> . <i>FEBS Journal</i> , 2002, 269, 5722-5730.	0.2	39