

Filipa L Sousa

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,259
citations

257101

24
h-index

189595

50
g-index

53
all docs

53
docs citations

53
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	The physiology and habitat of the last universal common ancestor. <i>Nature Microbiology</i> , 2016, 1, 16116.	5.9	739
2	Endosymbiotic origin and differential loss of eukaryotic genes. <i>Nature</i> , 2015, 524, 427-432.	13.7	251
3	Origins of major archaeal clades correspond to gene acquisitions from bacteria. <i>Nature</i> , 2015, 517, 77-80.	13.7	238
4	Early bioenergetic evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130088.	1.8	199
5	The superfamily of heme-copper oxygen reductases: Types and evolutionary considerations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 629-637.	0.5	163
6	Energy at life's origin. <i>Science</i> , 2014, 344, 1092-1093.	6.0	121
7	Structural and Functional Insights into Sulfide:Quinone Oxidoreductase. <i>Biochemistry</i> , 2009, 48, 5613-5622.	1.2	118
8	YCF1: A Green TIC?. <i>Plant Cell</i> , 2015, 27, 1827-1833.	3.1	115
9	Lokiarchaeon is hydrogen dependent. <i>Nature Microbiology</i> , 2016, 1, 16034.	5.9	107
10	Chlorophyll Biosynthesis Gene Evolution Indicates Photosystem Gene Duplication, Not Photosystem Merger, at the Origin of Oxygenic Photosynthesis. <i>Genome Biology and Evolution</i> , 2013, 5, 200-216.	1.1	79
11	Biochemical fossils of the ancient transition from geoenergetics to bioenergetics in prokaryotic one carbon compound metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 964-981.	0.5	78
12	Early Microbial Evolution: The Age of Anaerobes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a018127.	2.3	78
13	The emergence of protein complexes: quaternary structure, dynamics and allostery. <i>Biochemical Society Transactions</i> , 2012, 40, 475-491.	1.6	75
14	Autocatalytic sets in <i>E. coli</i> metabolism. <i>Journal of Systems Chemistry</i> , 2015, 6, 4.	1.7	68
15	Looking for the minimum common denominator in haem-copper oxygen reductases: Towards a unified catalytic mechanism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 929-934.	0.5	64
16	The Future of Origin of Life Research: Bridging Decades-Old Divisions. <i>Life</i> , 2020, 10, 20.	1.1	63
17	Serpentinization: Connecting Geochemistry, Ancient Metabolism and Industrial Hydrogenation. <i>Life</i> , 2018, 8, 41.	1.1	61
18	A Bioinformatics Classifier and Database for Heme-Copper Oxygen Reductases. <i>PLoS ONE</i> , 2011, 6, e19117.	1.1	60

#	ARTICLE	IF	CITATIONS
19	The alternative complex III: A different architecture using known building modules. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1869-1876.	0.5	55
20	One step beyond a ribosome: The ancient anaerobic core. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1027-1038.	0.5	51
21	Native metals, electron bifurcation, and CO ₂ reduction in early biochemical evolution. <i>Current Opinion in Microbiology</i> , 2018, 43, 77-83.	2.3	48
22	Physiology, phylogeny, and LUCA. <i>Microbial Cell</i> , 2016, 3, 582-587.	1.4	31
23	Energy for two: New archaeal lineages and the origin of mitochondria. <i>BioEssays</i> , 2016, 38, 850-856.	1.2	31
24	Oxygen Reductases in Alphaproteobacterial Genomes: Physiological Evolution From Low to High Oxygen Environments. <i>Frontiers in Microbiology</i> , 2019, 10, 499.	1.5	30
25	The physiology of trace elements in biological methane production. <i>Bioresource Technology</i> , 2017, 241, 775-786.	4.8	28
26	An electrogenic redox loop in sulfate reduction reveals a likely widespread mechanism of energy conservation. <i>Nature Communications</i> , 2018, 9, 5448.	5.8	27
27	Dissimilatory sulfate reduction in the archaeon <i>Candidatus Vulcanisaeta moutnovskia</i> ™ sheds light on the evolution of sulfur metabolism. <i>Nature Microbiology</i> , 2020, 5, 1428-1438.	5.9	27
28	Redox Properties of <i>Thermus thermophilus</i> ba3: Different Electron-Proton Coupling in Oxygen Reductases?. <i>Biophysical Journal</i> , 2008, 94, 2434-2441.	0.2	23
29	Energy at Origins: Favorable Thermodynamics of Biosynthetic Reactions in the Last Universal Common Ancestor (LUCA). <i>Frontiers in Microbiology</i> , 2021, 12, 793664.	1.5	23
30	Structure at 1.3Å... Resolution of <i>Rhodothermus marinus</i> caa3 Cytochrome c Domain. <i>Journal of Molecular Biology</i> , 2005, 345, 1047-1057.	2.0	19
31	A tyrosine residue deprotonates during oxygen reduction by the caa3 reductase from <i>Rhodothermus marinus</i> . <i>FEBS Letters</i> , 2006, 580, 1350-1354.	1.3	18
32	Thermodynamic Redox Behavior of the Heme Centers of <i>Cbb₃</i> Heme-Copper Oxygen Reductase from <i>Bradyrhizobium japonicum</i> . <i>Biochemistry</i> , 2007, 46, 13245-13253.	1.2	18
33	AlloRep: A Repository of Sequence, Structural and Mutagenesis Data for the LacI/GalR Transcription Regulators. <i>Journal of Molecular Biology</i> , 2016, 428, 671-678.	2.0	18
34	<i>Staphylococcus aureus</i> haem biosynthesis and acquisition pathways are linked through haem monooxygenase IsdG. <i>Molecular Microbiology</i> , 2018, 109, 385-400.	1.2	18
35	Electron Paramagnetic Resonance Studies of the Iron-Sulfur Centers from Complex I of <i>Rhodothermus marinus</i> . <i>Biochemistry</i> , 2006, 45, 1002-1008.	1.2	17
36	Metagenomes from Coastal Marine Sediments Give Insights into the Ecological Role and Cellular Features of <i>Loki</i> - and <i>Thorarchaeota</i> . <i>MBio</i> , 2019, 10, .	1.8	16

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37	DiSCo: a sequence-based type-specific predictor of Dsr-dependent dissimilatory sulphur metabolism in microbial data. <i>Microbial Genomics</i> , 2021, 7, .	1.0	16
38	Reply to "Is LUCA a thermophilic progenote?". <i>Nature Microbiology</i> , 2016, 1, 16230.	5.9	14
39	Plastid origin: who, when and why?. <i>Acta Societatis Botanicorum Poloniae</i> , 2014, 83, 281-289.	0.8	10
40	A nhaD Na ⁺ /H ⁺ antiporter and a pcd homologues are among the <i>Rhodothermus marinus</i> complex I genes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 95-103.	0.5	8
41	Metabopolis: scalable network layout for biological pathway diagrams in urban map style. <i>BMC Bioinformatics</i> , 2019, 20, 187.	1.2	8
42	Meet the relatives of our cellular ancestor. <i>Nature</i> , 2020, 577, 478-479.	13.7	8
43	Thermodynamic Redox Behavior of the Heme Centers in A-Type Heme-Copper Oxygen Reductases: Comparison between the Two Subfamilies. <i>Biophysical Journal</i> , 2008, 95, 4448-4455.	0.2	6
44	Data on publications, structural analyses, and queries used to build and utilize the AlloRep database. <i>Data in Brief</i> , 2016, 8, 948-957.	0.5	2
45	Identification of the sirohaem biosynthesis pathway in <i>Staphylococcus Aureus</i> . <i>FEBS Journal</i> , 2020, 287, 1537-1553.	2.2	2
46	The alternative complex III: A different architecture using known building modules. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 116.	0.5	1
47	9 Early life. , 0, , .		1