

Marcin Sarewicz

List of Publications by Year in descending order

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43
papers

1,021
citations

471509

17
h-index

454955

30
g-index

45
all docs

45
docs citations

45
times ranked

970
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Connection Between the Quinone and Cytochrome <i>c</i> Redox Pools and Its Role in Regulation of Mitochondrial Electron Transport and Redox Signaling. <i>Physiological Reviews</i> , 2015, 95, 219-243.	28.8	123
2	An Electronic Bus Bar Lies in the Core of Cytochrome <i>bc</i> ₁ . <i>Science</i> , 2010, 329, 451-454.	12.6	119
3	Catalytic Reactions and Energy Conservation in the Cytochrome <i>bc</i> ₁ and <i>b</i> ₆ <i>f</i> Complexes of Energy-Transducing Membranes. <i>Chemical Reviews</i> , 2021, 121, 2020-2108.	47.7	63
4	Movement of the Iron-Sulfur Head Domain of Cytochrome <i>bc</i> ₁ Transiently Opens the Catalytic Q _o Site for Reaction with Oxygen. <i>Biochemistry</i> , 2008, 47, 12365-12370.	2.5	58
5	Discrimination between two possible reaction sequences that create potential risk of generation of deleterious radicals by cytochrome <i>bc</i> ₁ . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1820-1827.	1.0	58
6	Atomistic simulations indicate cardiolipin to have an integral role in the structure of the cytochrome <i>bc</i> ₁ complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 769-778.	1.0	54
7	Triplet State of the Semiquinone-Rieske Cluster as an Intermediate of Electronic Bifurcation Catalyzed by Cytochrome <i>bc</i> ₁ . <i>Biochemistry</i> , 2013, 52, 6388-6395.	2.5	44
8	Key role of water in proton transfer at the Q _o -site of the cytochrome <i>bc</i> ₁ complex predicted by atomistic molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 761-768.	1.0	39
9	Demonstration of Short-lived Complexes of Cytochrome <i>c</i> with Cytochrome <i>bc</i> ₁ by EPR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2008, 283, 24826-24836.	3.4	36
10	Enzymatic Activities of Isolated Cytochrome <i>bc</i> ₁ -like Complexes Containing Fused Cytochrome <i>b</i> Subunits with Asymmetrically Inactivated Segments of Electron Transfer Chains. <i>Biochemistry</i> , 2012, 51, 829-835.	2.5	34
11	Magnetic Interactions Sense Changes in Distance between Heme <i>b</i> _L and the Iron-Sulfur Cluster in Cytochrome <i>bc</i> ₁ . <i>Biochemistry</i> , 2009, 48, 5708-5720.	2.5	33
12	Metastable radical state, nonreactive with oxygen, is inherent to catalysis by respiratory and photosynthetic cytochromes <i>bc</i> ₁ / <i>b</i> ₆ <i>f</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1323-1328.	7.1	31
13	Distinct properties of semiquinone species detected at the ubiquinol oxidation Q _o site of cytochrome <i>bc</i> ₁ and their mechanistic implications. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160133.	3.4	25
14	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller Gd(III) Complex with the Smallest Helicene Ligand. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1508-1515.	4.6	24
15	Atomistic determinants of co-enzyme Q reduction at the Q _i -site of the cytochrome <i>bc</i> ₁ complex. <i>Scientific Reports</i> , 2016, 6, 33607.	3.3	23
16	Fusing two cytochromes <i>b</i> of <i>Rhodobacter capsulatus</i> cytochrome <i>bc</i> ₁ using various linkers defines a set of protein templates for asymmetric mutagenesis. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 15-25.	2.1	22
17	Large breathing effect induced by water sorption in a remarkably stable nonporous cyanide-bridged coordination polymer. <i>Chemical Science</i> , 2021, 12, 9176-9188.	7.4	20
18	Visualizing changes in electron distribution in coupled chains of cytochrome <i>bc</i> ₁ by modifying barrier for electron transfer between the FeS cluster and heme <i>c</i> ₁ . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 296-303.	1.0	18

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19	Tuning of Hemes b Equilibrium Redox Potential Is Not Required for Cross-Membrane Electron Transfer. <i>Journal of Biological Chemistry</i> , 2016, 291, 6872-6881.	3.4	18
20	Parameterization of the prosthetic redox centers of the bacterial cytochrome bc ₁ complex for atomistic molecular dynamics simulations. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	1.4	16
21	Mitochondrial Disease-related Mutation G167P in Cytochrome b of <i>Rhodobacter capsulatus</i> Cytochrome bc ₁ (S151P in Human) Affects the Equilibrium Distribution of [2Fe-2S] Cluster and Generation of Superoxide. <i>Journal of Biological Chemistry</i> , 2015, 290, 23781-23792.	3.4	16
22	Identifying involvement of Lys251/Asp252 pair in electron transfer and associated proton transfer at the quinone reduction site of <i>Rhodobacter capsulatus</i> cytochrome bc ₁ . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1661-1668.	1.0	15
23	Catalytically-relevant electron transfer between two hemes b _L in the hybrid cytochrome bc ₁ -like complex containing a fusion of <i>Rhodobacter sphaeroides</i> and <i>capsulatus</i> cytochromes b. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 751-760.	1.0	14
24	Hybrid fusions show that inter-monomer electron transfer robustly supports cytochrome bc ₁ function in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 270-275.	2.1	13
25	Effect of H bond removal and changes in the position of the iron-sulphur head domain on the spin-lattice relaxation properties of the [2Fe-2S] ²⁺ Rieske cluster in cytochrome bc ₁ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25297-25308.	2.8	13
26	Estimation of binding parameters for the protein-protein interaction using a site-directed spin labeling and EPR spectroscopy. <i>European Biophysics Journal</i> , 2008, 37, 483-493.	2.2	12
27	Suppression of superoxide production by a spin-spin coupling between semiquinone and the Rieske cluster in cytochrome bc ₁ . <i>FEBS Letters</i> , 2019, 593, 3-12.	2.8	12
28	Molecular Organization of Cytochrome c ₂ near the Binding Domain of Cytochrome bc ₁ Studied by Electron Spin-Lattice Relaxation Enhancement. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6634-6643.	2.6	11
29	Charge polarization imposed by the binding site facilitates enzymatic redox reactions of quinone. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148216.	1.0	10
30	Generation of semiquinone-[2Fe-2S] ⁺ spin-coupled center at the Q _o site of cytochrome bc ₁ in redox-poised, illuminated photosynthetic membranes from <i>Rhodobacter capsulatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 145-153.	1.0	9
31	Heterotrimetallic Cyanide-Bridged 3d-4d-5d Frameworks Based on a Photomagnetic Secondary Building Unit. <i>Inorganic Chemistry</i> , 2020, 59, 8925-8934.	4.0	8
32	Reorientation of cytochrome c ₂ upon interaction with oppositely charged macromolecules probed by SR EPR: implications for the role of dipole moment to facilitate collisions in proper configuration for electron transfer. <i>Metallomics</i> , 2011, 3, 404.	2.4	7
33	Electron sweep across four b-hemes of cytochrome bc ₁ revealed by unusual paramagnetic properties of the Q _i semiquinone intermediate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 459-469.	1.0	7
34	Fusing proteins as an approach to study bioenergetic enzymes and processes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1847-1851.	1.0	6
35	Hydrogen bonding rearrangement by a mitochondrial disease mutation in cytochrome bc ₁ perturbs heme b _H redox potential and spin state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	4
36	The High-Spin Heme b _L Mutant Exposes Dominant Reaction Leading to the Formation of the Semiquinone Spin-Coupled to the [2Fe-2S] ⁺ Cluster at the Q _o Site of <i>Rhodobacter capsulatus</i> Cytochrome bc ₁ . <i>Frontiers in Chemistry</i> , 2021, 9, 658877.	3.6	2

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37	The Monoheme <i>c</i> Subunit of Respiratory Alternative Complex III Is Not Essential for Electron Transfer to Cytochrome <i>aa</i> ₃ in <i>Flavobacterium johnsoniae</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0013521.	3.0	2
38	Inter-Monomer Electron Transfer in Cytochrome bc Complexes. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 281-294.	1.0	1
39	Multichannel pulse high-current driver of magnetic actuator. <i>HardwareX</i> , 2022, 11, e00286.	2.2	1
40	Bridging a Gap Between Cytochrome Bc1 Complex Structure and Function. <i>Biophysical Journal</i> , 2014, 106, 586a-587a.	0.5	0
41	Heterogeneity of the Hydrophobic Core of a Membrane Protein Complex. <i>Biophysical Journal</i> , 2016, 110, 57a.	0.5	0
42	Role of the 2Fe-2S Rieske cluster in protection against ROS generation by cytochrome bc1 complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, e66.	1.0	0
43	Respiration Cytochrome bc1 Complex (Respiratory Chain Complex III)., 2021, , 502-511.		0