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	Multichannel pulse high-current driver of magnetic actuator. HardwareX, 2022, 11, e00286.	2.2	1
2	Respiration | Cytochrome bc1 Complex (Respiratory Chain Complex III). , 2021, , 502-511.		0
3	Large breathing effect induced by water sorption in a remarkably stable nonporous cyanide-bridged coordination polymer. Chemical Science, 2021, 12, 9176-9188.	7.4	20
4	Catalytic Reactions and Energy Conservation in the Cytochrome bc₁ and b₆f Complexes of Energy-Transducing Membranes. Chemical Reviews, 2021, 121, 2020-2108.	47.7	63
5	The High-Spin Heme bL Mutant Exposes Dominant Reaction Leading to the Formation of the Semiquinone Spin-Coupled to the [2Fe-2S]+ Cluster at the Qo Site of Rhodobacter capsulatus Cytochrome bc1. Frontiers in Chemistry, 2021, 9, 658877.	3.6	2
6	Hydrogen bonding rearrangement by a mitochondrial disease mutation in cytochrome bc₁ perturbs heme b _H redox potential and spin state. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
7	The Monoheme c Subunit of Respiratory Alternative Complex III Is Not Essential for Electron Transfer to Cytochrome aa₃ in Flavobacterium johnsoniae. Microbiology Spectrum, 2021, 9, e0013521.	3.0	2
8	Charge polarization imposed by the binding site facilitates enzymatic redox reactions of quinone. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148216.	1.0	10
9	Heterotrimetallic Cyanide-Bridged 3d-4d-5d Frameworks Based on a Photomagnetic Secondary Building Unit. Inorganic Chemistry, 2020, 59, 8925-8934.	4.0	8
10	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller Gd(III) Complex with the Smallest Helicene Ligand. Journal of Physical Chemistry Letters, 2020, 11, 1508-1515.	4.6	24
11	Suppression of superoxide production by a spinâ€spin coupling between semiquinone and the Rieske cluster in cytochrome bc 1. FEBS Letters, 2019, 593, 3-12.	2.8	12
12	Generation of semiquinone-[2Fe-2S]+ spin-coupled center at the Qo site of cytochrome bc1 in redox-poised, illuminated photosynthetic membranes from Rhodobacter capsulatus. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 145-153.	1.0	9
13	Electron sweep across four b-hemes of cytochrome bc1 revealed by unusual paramagnetic properties of the Qi semiquinone intermediate. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 459-469.	1.0	7
14	Role of the 2Fe-2S Rieske cluster in protection against ROS generation by cytochrome bc1 complex. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e66.	1.0	0
15	Metastable radical state, nonreactive with oxygen, is inherent to catalysis by respiratory and photosynthetic cytochromes bc₁ / b₆f. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1323-1328.	7.1	31
16	Identifying involvement of Lys251/Asp252 pair in electron transfer and associated proton transfer at the quinone reduction site of Rhodobacter capsulatus cytochrome bc1. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1661-1668.	1.0	15
17	Atomistic determinants of co-enzyme Q reduction at the Qi-site of the cytochrome bc1 complex. Scientific Reports, 2016, 6, 33607.	3.3	23
18	Distinct properties of semiquinone species detected at the ubiquinol oxidation Q _o site of cytochrome bc₁ and their mechanistic implications. Journal of the Royal Society Interface, 2016, 13, 20160133.	3.4	25

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19	Inter-Monomer Electron Transfer in Cytochrome bc Complexes. Advances in Photosynthesis and Respiration, 2016, , 281-294.	1.0	1
20	Tuning of Hemes b Equilibrium Redox Potential Is Not Required for Cross-Membrane Electron Transfer. Journal of Biological Chemistry, 2016, 291, 6872-6881.	3.4	18
21	Heterogeneity of the Hydrophobic Core of a Membrane Protein Complex. Biophysical Journal, 2016, 110, 57a.	0.5	0
22	Mitochondrial Disease-related Mutation G167P in Cytochrome b of Rhodobacter capsulatus Cytochrome bc1 (S151P in Human) Affects the Equilibrium Distribution of [2Fe-2S] Cluster and Generation of Superoxide. Journal of Biological Chemistry, 2015, 290, 23781-23792.	3.4	16
23	Effect of H bond removal and changes in the position of the ironâ€“sulphur head domain on the spinâ€“lattice relaxation properties of the [2Feâ€“2S]²⁺Rieske cluster in cytochrome bc₁. Physical Chemistry Chemical Physics, 2015, 17, 25297-25308.	2.8	13
24	Electronic Connection Between the Quinone and CytochromecRedox Pools and Its Role in Regulation of Mitochondrial Electron Transport and Redox Signaling. Physiological Reviews, 2015, 95, 219-243.	28.8	123
25	Hybrid fusions show that inter-monomer electron transfer robustly supports cytochrome bc1 function in vivo. Biochemical and Biophysical Research Communications, 2014, 451, 270-275.	2.1	13
26	Molecular Organization of Cytochrome c₂ near the Binding Domain of Cytochrome bc₁ Studied by Electron Spinâ€“Lattice Relaxation Enhancement. Journal of Physical Chemistry B, 2014, 118, 6634-6643.	2.6	11
27	Bridging a Gap Between Cytochrome Bc1 Complex Structure and Function. Biophysical Journal, 2014, 106, 586a-587a.	0.5	0
28	Parameterization of the prosthetic redox centers of the bacterial cytochrome bc 1 complex for atomistic molecular dynamics simulations. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	16
29	Key role of water in proton transfer at the Qo-site of the cytochrome bc1 complex predicted by atomistic molecular dynamics simulations. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 761-768.	1.0	39
30	Triplet State of the Semiquinoneâ€“Rieske Cluster as an Intermediate of Electronic Bifurcation Catalyzed by Cytochrome bc₁. Biochemistry, 2013, 52, 6388-6395.	2.5	44
31	Atomistic simulations indicate cardiolipin to have an integral role in the structure of the cytochrome bc1 complex. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 769-778.	1.0	54
32	Catalytically-relevant electron transfer between two hemes bL in the hybrid cytochrome bc1-like complex containing a fusion of Rhodobacter sphaeroides and capsulatus cytochromes b. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 751-760.	1.0	14
33	Fusing two cytochromes b of Rhodobacter capsulatus cytochrome bc1 using various linkers defines a set of protein templates for asymmetric mutagenesis. Protein Engineering, Design and Selection, 2012, 25, 15-25.	2.1	22
34	Enzymatic Activities of Isolated Cytochrome bc₁-like Complexes Containing Fused Cytochrome b Subunits with Asymmetrically Inactivated Segments of Electron Transfer Chains. Biochemistry, 2012, 51, 829-835.	2.5	34
35	Fusing proteins as an approach to study bioenergetic enzymes and processes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1847-1851.	1.0	6
36	Reorientation of cytochrome c2 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. Metallomics, 2011, 3, 404.	2.4	7

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37	Visualizing changes in electron distribution in coupled chains of cytochrome bc1 by modifying barrier for electron transfer between the FeS cluster and heme c1. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 296-303.	1.0	18
38	Discrimination between two possible reaction sequences that create potential risk of generation of deleterious radicals by cytochrome bc1. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1820-1827.	1.0	58
39	An Electronic Bus Bar Lies in the Core of Cytochrome bc ₁. Science, 2010, 329, 451-454.	12.6	119
40	Magnetic Interactions Sense Changes in Distance between Heme b_L and the Ironâ^'Sulfur Cluster in Cytochrome bc₁. Biochemistry, 2009, 48, 5708-5720.	2.5	33
41	Estimation of binding parameters for the proteinâ€“protein interaction using a site-directed spin labeling and EPR spectroscopy. European Biophysics Journal, 2008, 37, 483-493.	2.2	12
42	Movement of the Ironâ^'Sulfur Head Domain of Cytochrome bc₁ Transiently Opens the Catalytic Q_o Site for Reaction with Oxygen. Biochemistry, 2008, 47, 12365-12370.	2.5	58
43	Demonstration of Short-lived Complexes of Cytochrome c with Cytochrome bc1 by EPR Spectroscopy. Journal of Biological Chemistry, 2008, 283, 24826-24836.	3.4	36