

Jonathan J Ruprecht

List of Publications by Year in descending order

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27
papers

1,875
citations

394421

19
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

1973
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron crystallography reveals the structure of metarhodopsin I. <i>EMBO Journal</i> , 2004, 23, 3609-3620.	7.8	300
2	The Molecular Mechanism of Transport by the Mitochondrial ADP/ATP Carrier. <i>Cell</i> , 2019, 176, 435-447.e15.	28.9	221
3	The SLC25 Mitochondrial Carrier Family: Structure and Mechanism. <i>Trends in Biochemical Sciences</i> , 2020, 45, 244-258.	7.5	197
4	Structures of yeast mitochondrial ADP/ATP carriers support a domain-based alternating-access transport mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E426-34.	7.1	182
5	The transport mechanism of the mitochondrial ADP/ATP carrier. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2379-2393.	4.1	110
6	Three-dimensional Structure of <i>Chlamydomonas reinhardtii</i> and <i>Synechococcus elongatus</i> Photosystem II Complexes Allows for Comparison of Their Oxygen-evolving Complex Organization. <i>Journal of Biological Chemistry</i> , 2000, 275, 27940-27946.	3.4	109
7	Calcium-induced conformational changes of the regulatory domain of human mitochondrial aspartate/glutamate carriers. <i>Nature Communications</i> , 2014, 5, 5491.	12.8	81
8	The SLC25 Carrier Family: Important Transport Proteins in Mitochondrial Physiology and Pathology. <i>Physiology</i> , 2020, 35, 302-327.	3.1	77
9	Structure of <i>Escherichia coli</i> Succinate:Quinone Oxidoreductase with an Occupied and Empty Quinone-binding Site. <i>Journal of Biological Chemistry</i> , 2009, 284, 29836-29846.	3.4	76
10	Determining the structure of biological macromolecules by transmission electron microscopy, single particle analysis and 3D reconstruction. <i>Progress in Biophysics and Molecular Biology</i> , 2001, 75, 121-164.	2.9	70
11	Trends in Thermostability Provide Information on the Nature of Substrate, Inhibitor, and Lipid Interactions with Mitochondrial Carriers. <i>Journal of Biological Chemistry</i> , 2015, 290, 8206-8217.	3.4	67
12	Lipid, Detergent, and Coomassie Blue G-250 Affect the Migration of Small Membrane Proteins in Blue Native Gels. <i>Journal of Biological Chemistry</i> , 2013, 288, 22163-22173.	3.4	60
13	Structural changes in the transport cycle of the mitochondrial ADP/ATP carrier. <i>Current Opinion in Structural Biology</i> , 2019, 57, 135-144.	5.7	48
14	Cardiolipin dynamics and binding to conserved residues in the mitochondrial ADP/ATP carrier. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1035-1045.	2.6	45
15	Large-scale functional expression of WT and truncated human adenosine A2A receptor in <i>Pichia pastoris</i> bioreactor cultures. <i>Microbial Cell Factories</i> , 2008, 7, 28.	4.0	43
16	Rhodopsin Photoproducts in 2D Crystals. <i>Journal of Molecular Biology</i> , 2004, 338, 597-609.	4.2	36
17	Calcium-induced conformational changes in the regulatory domain of the human mitochondrial ATP-Mg/Pi carrier. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1245-1253.	1.0	34
18	Perturbation of the Quinone-binding Site of Complex II Alters the Electronic Properties of the Proximal [3Fe-4S] Iron-Sulfur Cluster. <i>Journal of Biological Chemistry</i> , 2011, 286, 12756-12765.	3.4	27

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19	The mitochondrial ADP/ATP carrier exists and functions as a monomer. <i>Biochemical Society Transactions</i> , 2020, 48, 1419-1432.	3.4	24
20	A purified C-terminally truncated human adenosine A2A receptor construct is functionally stable and degradation resistant. <i>Protein Expression and Purification</i> , 2010, 74, 80-87.	1.3	22
21	Substrate binding in the mitochondrial ADP/ATP carrier is a step-wise process guiding the structural changes in the transport cycle. <i>Nature Communications</i> , 2022, 13, .	12.8	17
22	Concerns with yeast mitochondrial ADP/ATP carrier's integrity in DPC. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 747-749.	8.2	11
23	Rhodopsin Photointermediates in Two-Dimensional Crystals at Physiological Temperatures. <i>Biochemistry</i> , 2006, 45, 4974-4982.	2.5	10
24	Structure, substrate binding and symmetry of the mitochondrial ADP/ATP carrier in its matrix-open state. <i>Biophysical Journal</i> , 2021, 120, 5187-5195.	0.5	5
25	Electron Crystallographic Studies of Rhodopsin. <i>Phase Transitions</i> , 2002, 75, 1-10.	1.3	0
26	Editorial overview: COSB Membranes. <i>Current Opinion in Structural Biology</i> , 2019, 57, vi-viii.	5.7	0
27	Electrons and X-Rays Reveal the Structure of Rhodopsin: A Prototypical G Protein-Coupled Receptor-Implications for Colour Vision. , 2003, , 3-13.		0