

# Christoph von Ballmoos

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,633  
citations

201674

27  
h-index

189892

50  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Estimation of Membrane Protein Orientation in Liposomes. <i>ChemBioChem</i> , 2022, 23, .	2.6	6
2	Functional design of bacterial superoxide:quinone oxidoreductase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148583.	1.0	2
3	Biochemical consequences of two clinically relevant ND-gene mutations in <i>Escherichia coli</i> respiratory complex. <i>Scientific Reports</i> , 2021, 11, 12641.	3.3	6
4	The missing enzymatic link in syntrophic methane formation from fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
5	Energy transfer between the nicotinamide nucleotide transhydrogenase and ATP synthase of <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2021, 11, 21234.	3.3	4
6	CD31 (PECAM-1) Serves as the Endothelial Cell-Specific Receptor of <i>Clostridium perfringens</i> $\beta$ -Toxin. <i>Cell Host and Microbe</i> , 2020, 28, 69-78.e6.	11.0	28
7	Bifunctional DNA Duplexes Permit Efficient Incorporation of pH Probes into Liposomes. <i>ChemBioChem</i> , 2020, 21, 2219-2224.	2.6	3
8	Kinetic coupling of the respiratory chain with ATP synthase, but not proton gradients, drives ATP production in cristae membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2412-2421.	7.1	52
9	Current problems and future avenues in proteoliposome research. <i>Biochemical Society Transactions</i> , 2020, 48, 1473-1492.	3.4	29
10	The proton pumping bo oxidase from <i>Vitreoscilla</i> . <i>Scientific Reports</i> , 2019, 9, 4766.	3.3	7
11	ATP synthesis at physiological nucleotide concentrations. <i>Scientific Reports</i> , 2019, 9, 3070.	3.3	31
12	Towards a Synthetic Mitochondrion. <i>Chimia</i> , 2018, 72, 291.	0.6	13
13	Scavenging of superoxide by a membrane-bound superoxide oxidase. <i>Nature Chemical Biology</i> , 2018, 14, 788-793.	8.0	71
14	Dissecting the proton transport pathway in electrogenic Na <sup>+</sup> /H <sup>+</sup> antiporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1101-E1110.	7.1	43
15	The lateral distance between a proton pump and ATP synthase determines the ATP-synthesis rate. <i>Scientific Reports</i> , 2017, 7, 2926.	3.3	41
16	Splitting of the O-O bond at the heme-copper catalytic site of respiratory oxidases. <i>Science Advances</i> , 2017, 3, e1700279.	10.3	50
17	Activation of Proton Translocation by Respiratory Complex I. <i>Biochemistry</i> , 2017, 56, 5691-5697.	2.5	13
18	Delivery of membrane proteins into small and giant unilamellar vesicles by charge-mediated fusion. <i>FEBS Letters</i> , 2016, 590, 2051-2062.	2.8	41

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19	Lipid-mediated Protein-protein Interactions Modulate Respiration-driven ATP Synthesis. Scientific Reports, 2016, 6, 24113.	3.3	38
20	Regulatory role of the respiratory supercomplex factors in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4476-85.	7.1	45
21	Isolation of yeast complex IV in native lipid nanodiscs. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2984-2992.	2.6	45
22	Rapid Electron Transfer within the III-IV Supercomplex in <i>Corynebacterium glutamicum</i> . Scientific Reports, 2016, 6, 34098.	3.3	20
23	Mimicking respiratory phosphorylation using purified enzymes. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 321-331.	1.0	40
24	Mutation of a single residue in the <i>ba<sub>3</sub></i> oxidase specifically impairs protonation of the pump site. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3397-3402.	7.1	23
25	Effect of lipid bilayer properties on the photocycle of green proteorhodopsin. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 698-708.	1.0	17
26	Isolation, N-glycosylations and Function of a Hyaluronidase-Like Enzyme from the Venom of the Spider <i>Cupiennius salei</i> . PLoS ONE, 2015, 10, e0143963.	2.5	23
27	Crystal structure of the sodium-proton antiporter NhaA dimer and new mechanistic insights. Journal of General Physiology, 2014, 144, 529-544.	1.9	79
28	SNARE-fusion mediated insertion of membrane proteins into native and artificial membranes. Nature Communications, 2014, 5, 4303.	12.8	26
29	A two-domain elevator mechanism for sodium/proton antiport. Nature, 2013, 501, 573-577.	27.8	221
30	Single Mutations That Redirect Internal Proton Transfer in the <i>ba<sub>3</sub></i> Oxidase from <i>Thermus thermophilus</i> . Biochemistry, 2013, 52, 7022-7030.	2.5	6
31	An alternative role of FoF1-ATP synthase in <i>Escherichia coli</i> : synthesis of thiamine triphosphate. Scientific Reports, 2013, 3, 1071.	3.3	19
32	Selective and ATP-driven transport of ions across supported membranes into nanoporous carriers using gramicidin A and ATP synthase. Physical Chemistry Chemical Physics, 2013, 15, 2733.	2.8	9
33	The Membrane Modulates Internal Proton Transfer in Cytochrome <i>c</i> Oxidase. Biochemistry, 2012, 51, 1092-1100.	2.5	19
34	Timing of Electron and Proton Transfer in the <i>ba<sub>3</sub></i> Cytochrome <i>c</i> Oxidase from <i>Thermus thermophilus</i> . Biochemistry, 2012, 51, 4507-4517.	2.5	15
35	Reconstitution of respiratory oxidases in membrane nanodiscs for investigation of proton-coupled electron transfer. FEBS Letters, 2012, 586, 640-645.	2.8	21
36	Proton transfer in <i>ba<sub>3</sub></i> cytochrome <i>c</i> oxidase from <i>Thermus thermophilus</i> . Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 650-657.	1.0	52

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37	Kinetic design of the respiratory oxidases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11057-11062.	7.1	36
38	Functional Role of Thr-312 and Thr-315 in the Proton-Transfer Pathway in <i>Cytochrome c Oxidase</i> from <i>Thermus thermophilus</i> . Biochemistry, 2010, 49, 7033-7039.	2.5	18
39	Functional asymmetry of the F <sub>0</sub> motor in bacterial ATP synthases. Molecular Microbiology, 2009, 72, 479-490.	2.5	27
40	Essentials for ATP Synthesis by F <sub>1</sub> F <sub>0</sub> ATP Synthases. Annual Review of Biochemistry, 2009, 78, 649-672.	11.1	326
41	Crucial Role of Asp408 in the Proton Translocation Pathway of Multidrug Transporter AcrB: Evidence from Site-Directed Mutagenesis and Carbodiimide Labeling. Biochemistry, 2009, 48, 5801-5812.	2.5	74
42	Arginine-induced conformational change in the c-ring/a-subunit interface of ATP synthase. FEBS Journal, 2008, 275, 2137-2150.	4.7	25
43	Engineered disulfide bonds support the functional rotation mechanism of multidrug efflux pump AcrB. Nature Structural and Molecular Biology, 2008, 15, 199-205.	8.2	142
44	Unique Rotary ATP Synthase and Its Biological Diversity. Annual Review of Biophysics, 2008, 37, 43-64.	10.0	167
45	$\Delta\mu\text{H}^+$ and $\Delta\text{pH}$ are equivalent driving forces for proton transport through isolated F <sub>0</sub> complexes of ATP synthases. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1301-1310.	1.0	48
46	Two Distinct Proton Binding Sites in the ATP Synthase Family. Biochemistry, 2007, 46, 11800-11809.	2.5	54
47	ATP Synthesis by Decarboxylation Phosphorylation. Results and Problems in Cell Differentiation, 2007, 45, 153-184.	0.7	25
48	Alternative proton binding mode in ATP synthases. Journal of Bioenergetics and Biomembranes, 2007, 39, 441-445.	2.3	15
49	Catalytic and mechanical cycles in F <sub>1</sub> ATP synthases. EMBO Reports, 2006, 7, 276-282.	4.5	119
50	The ion channel of F <sub>1</sub> -ATP synthase is the target of toxic organotin compounds. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11239-11244.	7.1	88
51	A continuous fluorescent method for measuring Na <sup>+</sup> transport. Analytical Biochemistry, 2004, 335, 334-337.	2.4	9
52	Torque Generation by the F <sub>o</sub> motor of the Sodium ATPase. Biophysical Journal, 2004, 87, 2148-2163.	0.5	49
53	Electrical Power Fuels Rotary ATP Synthase. Structure, 2003, 11, 1469-1473.	3.3	45
54	Complete DNA sequence of the atp operon of the sodium-dependent F <sub>1</sub> F <sub>o</sub> ATP synthase from <i>Llyobacter tartaricus</i> and identification of the encoded subunits. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1625, 221-226.	2.4	7

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55	Evidence for Structural Integrity in the Undecameric c-Rings Isolated from Sodium ATP Synthases. Journal of Molecular Biology, 2003, 325, 389-397.	4.2	80
56	Purification and Biochemical Characterization of the F <sub>1</sub> F <sub>o</sub> -ATP Synthase from Thermoalkaliphilic Bacillus sp. Strain TA2.A1. Journal of Bacteriology, 2003, 185, 4442-4449.	2.2	59
57	Membrane Topography of the Coupling Ion Binding Site in Na <sup>+</sup> -translocating F <sub>1</sub> F <sub>o</sub> ATP Synthase. Journal of Biological Chemistry, 2002, 277, 3504-3510.	3.4	36
58	Membrane embedded location of Na <sup>+</sup> or H <sup>+</sup> binding sites on the rotor ring of F <sub>1</sub> F <sub>o</sub> ATP synthases. FEBS Journal, 2002, 269, 5581-5589.	0.2	19