

Carola Hunte

List of Publications by Year in descending order

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96
papers

7,893
citations

71061

41
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51562

86
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121
all docs

121
docs citations

121
times ranked

7178
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiolipin Stabilizes Respiratory Chain Supercomplexes. <i>Journal of Biological Chemistry</i> , 2003, 278, 52873-52880.	1.6	701
2	Structure of a Na ⁺ /H ⁺ antiporter and insights into mechanism of action and regulation by pH. <i>Nature</i> , 2005, 435, 1197-1202.	13.7	608
3	Structure at 2.3 Å... resolution of the cytochrome bc ₁ complex from the yeast <i>Saccharomyces cerevisiae</i> co-crystallized with an antibody Fv fragment. <i>Structure</i> , 2000, 8, 669-684.	1.6	577
4	Specific roles of protein-phospholipid interactions in the yeast cytochrome bc ₁ complex structure. <i>EMBO Journal</i> , 2001, 20, 6591-6600.	3.5	402
5	Lipids in membrane protein structures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1666, 2-18.	1.4	372
6	Mechanistic insight from the crystal structure of mitochondrial complex I. <i>Science</i> , 2015, 347, 44-49.	6.0	366
7	Functional Modules and Structural Basis of Conformational Coupling in Mitochondrial Complex I. <i>Science</i> , 2010, 329, 448-451.	6.0	353
8	Crystal structure of the yeast cytochrome bc ₁ complex with its bound substrate cytochrome c. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2800-2805.	3.3	352
9	Structure and function of mitochondrial complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 902-914.	0.5	252
10	Structure of Complex III with Bound Cytochrome c in Reduced State and Definition of a Minimal Core Interface for Electron Transfer. <i>Journal of Biological Chemistry</i> , 2008, 283, 17542-17549.	1.6	197
11	Protonmotive pathways and mechanisms in the cytochrome bc ₁ complex. <i>FEBS Letters</i> , 2003, 545, 39-46.	1.3	192
12	Phosphatidylethanolamine and Cardiolipin Differentially Affect the Stability of Mitochondrial Respiratory Chain Supercomplexes. <i>Journal of Molecular Biology</i> , 2012, 423, 677-686.	2.0	183
13	Crystallisation of membrane proteins mediated by antibody fragments. <i>Current Opinion in Structural Biology</i> , 2002, 12, 503-508.	2.6	180
14	Structure of the Yeast Cytochrome bc ₁ Complex with a Hydroxyquinone Anion Qo Site Inhibitor Bound. <i>Journal of Biological Chemistry</i> , 2003, 278, 31303-31311.	1.6	174
15	Lipids and membrane protein structures. <i>Current Opinion in Structural Biology</i> , 2008, 18, 406-411.	2.6	171
16	Structural analysis of atovaquone-inhibited cytochrome bc ₁ complex reveals the molecular basis of antimalarial drug action. <i>Nature Communications</i> , 2014, 5, 4029.	5.8	151
17	Molecular Basis for Atovaquone Binding to the Cytochrome bc ₁ Complex. <i>Journal of Biological Chemistry</i> , 2003, 278, 31312-31318.	1.6	146
18	Role of phospholipids in respiratory cytochrome bc ₁ complex catalysis and supercomplex formation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 609-616.	0.5	139

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19	Discontinuous membrane helices in transport proteins and their correlation with function. <i>Journal of Structural Biology</i> , 2007, 159, 261-267.	1.3	133
20	Dual Function of Sdh3 in the Respiratory Chain and TIM22 Protein Translocase of the Mitochondrial Inner Membrane. <i>Molecular Cell</i> , 2011, 44, 811-818.	4.5	121
21	Coupling of Mitochondrial Import and Export Translocases by Receptor-Mediated Supercomplex Formation. <i>Cell</i> , 2013, 154, 596-608.	13.5	115
22	Membrane protein insertion through a mitochondrial β -barrel gate. <i>Science</i> , 2018, 359, .	6.0	111
23	High level production of functional antibody fab fragments in an oxidizing bacterial cytoplasm11Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2002, 315, 1-8.	2.0	82
24	Locking loop movement in the ubiquinone pocket of complex I disengages the proton pumps. <i>Nature Communications</i> , 2018, 9, 4500.	5.8	80
25	Mgr2 promotes coupling of the mitochondrial presequence translocase to partner complexes. <i>Journal of Cell Biology</i> , 2012, 197, 595-604.	2.3	79
26	Functional Implications from an Unexpected Position of the 49-kDa Subunit of NADH:Ubiquinone Oxidoreductase. <i>Journal of Biological Chemistry</i> , 2003, 278, 29072-29078.	1.6	77
27	Cell Free Expression and Functional Reconstitution of Eukaryotic Drug Transporters. <i>Biochemistry</i> , 2008, 47, 4552-4564.	1.2	68
28	The Large Extracellular Loop of Organic Cation Transporter 1 Influences Substrate Affinity and Is Pivotal for Oligomerization. <i>Journal of Biological Chemistry</i> , 2011, 286, 37874-37886.	1.6	64
29	Accessory NUMM (NDUFS6) subunit harbors a Zn-binding site and is essential for biogenesis of mitochondrial complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5685-5690.	3.3	64
30	Changes to the length of the flexible linker region of the Rieske protein impair the interaction of ubiquinol with the cytochromebc1complex. <i>FEBS Journal</i> , 2000, 267, 5777-5782.	0.2	62
31	Multiconformation continuum electrostatics analysis of the NhaA Na ⁺ /H ⁺ antiporter of <i>Escherichia coli</i> with functional implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2629-2634.	3.3	61
32	A bacterial toxin catalyzing tyrosine glycosylation of Rho and deamidation of Gq and Gi proteins. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1273-1280.	3.6	61
33	Mutational Analysis of Cytochrome b at the Ubiquinol Oxidation Site of Yeast Complex III. <i>Journal of Biological Chemistry</i> , 2007, 282, 3977-3988.	1.6	58
34	Cryo-slicing Blue Native-Mass Spectrometry (csBN-MS), a Novel Technology for High Resolution Complexome Profiling. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 669-681.	2.5	58
35	The Monoclonal Antibody 1F6 Identifies a pH-dependent Conformational Change in the Hydrophilic NH ₂ Terminus of NhaA Na ⁺ /H ⁺ Antiporter of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 4734-4742.	1.6	52
36	Probing the Role of E272 in Quinol Oxidation of Mitochondrial Complex III. <i>Biochemistry</i> , 2006, 45, 9042-9052.	1.2	49

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37	Electron transfer between yeast cytochrome bc1 complex and cytochrome c: a structural analysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1555, 21-28.	0.5	47
38	A Comparison of Stigmatellin Conformations, Free and Bound to the Photosynthetic Reaction Center and the Cytochrome bc1 Complex. <i>Journal of Molecular Biology</i> , 2007, 368, 197-208.	2.0	47
39	X-ray structure of the dimeric cytochrome bc1 complex from the soil bacterium <i>Paracoccus denitrificans</i> at 2.7-Å... resolution. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1606-1615.	0.5	47
40	Biogenesis of mitochondrial β -barrel proteins: the POTRA domain is involved in precursor release from the SAM complex. <i>Molecular Biology of the Cell</i> , 2011, 22, 2823-2833.	0.9	47
41	Production and characterization of monoclonal antibodies directed against native epitopes of NhaA, the Na ⁺ /H ⁺ antiporter of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1998, 441, 53-58.	1.3	44
42	Redox-linked protonation state changes in cytochrome bc1 identified by Poisson-Boltzmann electrostatics calculations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 204-221.	0.5	42
43	The obligate respiratory supercomplex from Actinobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1705-1714.	0.5	41
44	Insights from the structure of the yeast cytochrome bc1 complex: crystallization of membrane proteins with antibody fragments. <i>FEBS Letters</i> , 2001, 504, 126-132.	1.3	40
45	Crucial Steps in the Structure Determination of the Na ⁺ /H ⁺ Antiporter NhaA in its Native Conformation. <i>Journal of Molecular Biology</i> , 2006, 362, 192-202.	2.0	40
46	The Molecular Evolution of the Qo Motif. <i>Genome Biology and Evolution</i> , 2014, 6, 1894-1910.	1.1	37
47	Structural Perspective on Mechanism and Function of the Cytochrome bc 1 Complex. , 2008, 45, 253-278.		32
48	Characterization of two different acyl carrier proteins in complex I from <i>Yarrowia lipolytica</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 152-159.	0.5	31
49	Monitoring the redox and protonation dependent contributions of cardiolipin in electrochemically induced FTIR difference spectra of the cytochrome bc1 complex from yeast. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 617-625.	0.5	30
50	Transforming Rhinacanthin Analogues from Potent Anticancer Agents into Potent Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1211-1221.	2.9	27
51	Stairway to Asymmetry: Five Steps to Lipid-Asymmetric Proteoliposomes. <i>Biophysical Journal</i> , 2020, 118, 294-302.	0.2	27
52	Pneumocystis Cytochrome b Mutants Associated With Atovaquone Prophylaxis Failure as the Cause of Pneumocystis Infection Outbreak Among Heart Transplant Recipients. <i>Clinical Infectious Diseases</i> , 2018, 67, 913-919.	2.9	23
53	Multiple forms of phosphoenolpyruvate carboxylase in mesophyll, epidermal and guard cells of <i>Vicia faba</i> . <i>Physiologia Plantarum</i> , 1992, 86, 315-321.	2.6	21
54	Modulation of the Antigenic Peptide Transporter TAP by Recombinant Antibodies Binding to the Last Five Residues of TAP1. <i>Journal of Molecular Biology</i> , 2007, 369, 95-107.	2.0	20

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55	Molecular Characterization of the Na ⁺ /H ⁺ -Antiporter NhaA from Salmonella Typhimurium. PLoS ONE, 2014, 9, e101575.	1.1	20
56	Rapid Electron Transfer within the III-IV Supercomplex in Corynebacterium glutamicum. Scientific Reports, 2016, 6, 34098.	1.6	20
57	The N-terminus of the Qcr7 Protein of the Cytochrome bc ₁ Complex in <i>S. cerevisiae</i> May Be Involved in Facilitating Stability of the Subcomplex with the Qcr8 Protein and Cytochrome b. Archives of Biochemistry and Biophysics, 2001, 393, 215-221.	1.4	19
58	Direct Evidence for the Interaction of Stigmatellin with a Protonated Acidic Group in the bc ₁ Complex from <i>Saccharomyces cerevisiae</i> As Monitored by FTIR Difference Spectroscopy and ¹³ C Specific Labeling. Biochemistry, 2004, 43, 8439-8446.	1.2	19
59	Flexibility and dynamics of NhaA Na ⁺ /H ⁺ -antiporter of <i>Escherichia coli</i> studied by Fourier transform infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 102-109.	2.0	18
60	Immunological Evidence of Connexin-like Proteins in the Plasma Membrane of <i>Vicia faba</i> L.. Botanica Acta, 1992, 105, 104-110.	1.6	17
61	Involvement of Ubiquitin in Phosphoenolpyruvate Carboxylase Degradation. Botanica Acta, 1993, 106, 143-145.	1.6	17
62	A structural analysis of the transient interaction between the cytochrome bc ₁ complex and its substrate cytochrome c. Biochemical Society Transactions, 2008, 36, 981-985.	1.6	15
63	Species differences in bacterial NhaA Na ⁺ /H ⁺ exchangers. FEBS Letters, 2014, 588, 3111-3116.	1.3	13
64	Protein glutamylation is a yeast-specific posttranslational modification of elongation factor 1A. Journal of Biological Chemistry, 2017, 292, 16014-16023.	1.6	13
65	Monoclonal antibodies for the structural analysis of the Na ⁺ /H ⁺ antiporter NhaA from <i>Escherichia coli</i> . Biochimica Et Biophysica Acta - Biomembranes, 2003, 1610, 46-50.	1.4	12
66	Epitope Mapping of Conformational Monoclonal Antibodies Specific to NhaA Na ⁺ /H ⁺ Antiporter: Structural and Functional Implications. Journal of Molecular Biology, 2008, 379, 471-481.	2.0	11
67	Membrane Protein Crystallization. , 2003, , 143-160.		10
68	Structural basis for safe and efficient energy conversion in a respiratory supercomplex. Nature Communications, 2022, 13, 545.	5.8	10
69	Monitoring redox-dependent contribution of lipids in Fourier transform infrared difference spectra of complex I from <i>Escherichia coli</i> . Biopolymers, 2006, 82, 291-294.	1.2	9
70	Unanticipated functional diversity among the TatA-type components of the Tat protein translocase. Scientific Reports, 2018, 8, 1326.	1.6	9
71	Inverse control of Rab proteins by <i>Yersinia</i> ADP-ribosyltransferase and glycosyltransferase related to clostridial glucosylating toxins. Science Advances, 2020, 6, eaaz2094.	4.7	9
72	Photo-induced dynamics of the heme centers in cytochrome bc ₁ . Physical Chemistry Chemical Physics, 2015, 17, 2143-2151.	1.3	8

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73	A cysteine proteaseâ€‘like domain enhances the cytotoxic effects of the Photorhabdus asymbiotica toxin PaTox. Journal of Biological Chemistry, 2019, 294, 1035-1044.	1.6	8
74	Influence of Clinostat Rotation on Plant Proteins: 2. Effects on Membrane Bound Enzyme Activities and Ubiquitin-Protein-Conjugates in Leaves of Vicia faba L.. Journal of Plant Physiology, 1993, 142, 31-36.	1.6	7
75	Ageâ€‘Dependent Modifications and Further Localization of the CX 26â€‘like Protein from <i>Vicia faba</i> L.. Botanica Acta, 1993, 106, 207-212.	1.6	7
76	Production and Purification of Recombinant Membrane Proteins. , 2003, , 55-83.		6
77	Purification of the Cytochrome bc1 Complex from Yeast. , 2003, , 191-203.		6
78	Resolving the EPR Spectra in the Cytochrome bc 1 Complex from Saccharomyces cerevisiae. Applied Magnetic Resonance, 2010, 37, 305-316.	0.6	6
79	Recent advances in mitochondrial biology - integrated aspects. Cell and Tissue Research, 2017, 367, 1-3.	1.5	6
80	Quinone binding sites of cyt <i>bc</i> complexes analysed by X-ray crystallography and cryogenic electron microscopy. Biochemical Society Transactions, 2022, 50, 877-893.	1.6	6
81	Native immunoblotting of blue native gels to identify conformationâ€‘specific antibodies. Proteomics, 2010, 10, 159-163.	1.3	5
82	Calcineurin B homologous protein 3 binds with high affinity to the CHP binding domain of the human sodium/proton exchanger NHE1. Scientific Reports, 2018, 8, 14837.	1.6	5
83	A first low-resolution difference Fourier map of phosphorus in a membrane protein from near-edge anomalous diffraction. Journal of Synchrotron Radiation, 2009, 16, 658-665.	1.0	4
84	Generation of Recombinant Antibody Fragments for Membrane Protein Crystallization. Methods in Enzymology, 2015, 557, 201-218.	0.4	4
85	Calcium affects CHP1 and CHP2 conformation and their interaction with sodium/proton exchanger 1. FASEB Journal, 2020, 34, 3253-3266.	0.2	4
86	Antibody Fragment Mediated Crystallization of Membrane Proteins. , 2003, , 205-I.		3
87	Structural analysis of mitochondrial cytochrome bc1 complex with atovaquone bound reveals the molecular basis of antimalarial drug action. Malaria Journal, 2014, 13, .	0.8	3
88	Tissue- and Cell-Specific Distribution of Connexin 32-and Connexin 26-related Proteins from Vicia faba L.. Botanica Acta, 1994, 107, 468-472.	1.6	2
89	S15.8 Characterisation of the interaction between cytochrome bc1 complex and its substrate cytochrome c. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S104.	0.5	1
90	P/22 Cytochrome c binding to the cytochrome bc1 complex: An interaction critical for electron transfer. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S7.	0.5	0

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91	S4.16 Crystallization and structural characterization of Fab co-complexes of mitochondrial complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, S36.	0.5	0
92	Crystallization of mitochondrial complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 24.	0.5	0
93	Structural Basis and Mechanism of Proton Translocation in Complex I and Complex III. <i>Biophysical Journal</i> , 2011, 100, 343a.	0.2	0
94	Alpha helix prediction based on Metropolis-Hastings sampling. , 2011, , .		0
95	Efficient Energy Transduction in Respiratory Complexes and Supercomplexes. <i>Biophysical Journal</i> , 2018, 114, 206a.	0.2	0
96	Asymmetric Proteoliposomes - Striking a New Path in the World of Model Membranes. <i>Biophysical Journal</i> , 2019, 116, 316a-317a.	0.2	0