Robert B Gennis

List of Publications by Year
in descending order

173 papers	7,988 citations	47006 47 h-index	62596 80 g-index
177 all docs	177 docs citations	177 times ranked	4887 citing authors

#	Article	IF	Citations
1	Escherichia coli amino acid auxotrophic expression host strains for investigating protein structureâ€"function relationships. Journal of Biochemistry, 2021, 169, 387-394.	1.7	6
2	Time-Resolved Electrometric Study of the Fâ†'O Transition in Cytochrome c Oxidase. The Effect of Zn2+ Ions on the Positive Side of the Membrane. Biochemistry (Moscow), 2021, 86, 105-122.	1.5	7
3	Evolution of the cytochrome bd oxygen reductase superfamily and the function of CydAAâ€™ in Archaea. ISME Journal, 2021, 15, 3534-3548.	9.8	18
4	Identification of a cytochrome bc1-aa3 supercomplex in Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148433.	1.0	8
5	Cryo-EM structures of Escherichia coli cytochrome bo ₃ reveal bound phospholipids and ubiquinone-8 in a dynamic substrate binding site. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
6	The Monoheme c Subunit of Respiratory Alternative Complex III Is Not Essential for Electron Transfer to Cytochrome aa ₃ in Flavobacterium johnsoniae. Microbiology Spectrum, 2021, 9, e0013521.	3.0	2
7	Specific inhibition of proton pumping by the T315V mutation in the K channel of cytochrome ba from Thermus thermophilus. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148450.	1.0	5
8	The three-spin intermediate at the Oâ€"O cleavage and proton-pumping junction in hemeâ€"Cu oxidases. Science, 2021, 373, 1225-1229.	12.6	13
9	Energy transfer between the nicotinamide nucleotide transhydrogenase and ATP synthase of Escherichia coli. Scientific Reports, 2021, 11, 21234.	3.3	4
10	Structure of the cytochrome aa ₃ -600 heme-copper menaquinol oxidase bound to inhibitor HQNO shows TM0 is part of the quinol binding site. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 872-876.	7.1	21
11	The oligomeric state of the Caldivirga maquilingensis type III sulfide:Quinone Oxidoreductase is required for membrane binding. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148132.	1.0	2
12	Discovery of Prenyltransferase Inhibitors with In Vitro and In Vivo Antibacterial Activity. ACS Infectious Diseases, 2020, 6, 2979-2993.	3.8	14
13	Role of respiratory <scp>NADH</scp> oxidation in the regulation of Staphylococcus aureus virulence. EMBO Reports, 2020, 21, e45832.	4.5	16
14	The carboxy-terminal insert in the Q-loop is needed for functionality of Escherichia coli cytochrome bd-I. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148175.	1.0	19
15	The Ubiquinol Binding Site of Cytochrome bo₃ from Escherichia coli Accommodates Menaquinone and Stabilizes a Functional Menasemiquinone. Biochemistry, 2019, 58, 4559-4569.	2.5	6
16	Characterization and X-ray structure of the NADH-dependent coenzyme A disulfide reductase from Thermus thermophilus. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 148080.	1.0	1
17	Single-particle cryo-EM studies of transmembrane proteins in SMA copolymer nanodiscs. Chemistry and Physics of Lipids, 2019, 221, 114-119.	3.2	34
18	Microcin J25 inhibits ubiquinol oxidase activity of purified cytochrome bd-I from Escherichia coli. Biochimie, 2019, 160, 141-147.	2.6	14

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19	X-ray transparent microfluidic platforms for membrane protein crystallization with microseeds. Lab on A Chip, 2018, 18, 944-954.	6.0	19
20	Structure of the alternative complex III in a supercomplex with cytochrome oxidase. Nature, 2018, 557, 123-126.	27.8	198
21	Unpaired Electron Spin Density Distribution across Reduced [2Fe-2S] Cluster Ligands by ¹³C_{Î²}-Cysteine Labeling. Inorganic Chemistry, 2018, 57, 741-746.	4.0	7
22	Cytochrome aa₃ Oxygen Reductase Utilizes the Tunnel Observed in the Crystal Structures To Deliver O₂ for Catalysis. Biochemistry, 2018, 57, 2150-2161.	2.5	5
23	Role of the tightly bound quinone for the oxygen reaction of cytochrome bo₃ oxidase from Escherichia coli. FEBS Letters, 2018, 592, 3380-3387.	2.8	8
24	Mechanism of proton transfer through the KC proton pathway in the Vibrio cholerae cbb3 terminal oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1191-1198.	1.0	3
25	The electron distribution in the â€œactivatedâ€•state of cytochrome c oxidase. Scientific Reports, 2018, 8, 7502.	3.3	15
26	Functional importance of Glutamate-445 and Glutamate-99 in proton-coupled electron transfer during oxygen reduction by cytochrome bd from Escherichia coli. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 577-590.	1.0	11
27	Ionophoric effects of the antitubercular drug bedaquiline. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7326-7331.	7.1	85
28	Type 2 NADH Dehydrogenase Is the Only Point of Entry for Electrons into the Streptococcus agalactiae Respiratory Chain and Is a Potential Drug Target. MBio, 2018, 9, .	4.1	24
29	Bacterial denitrifying nitric oxide reductases and aerobic respiratory terminal oxidases use similar delivery pathways for their molecular substrates. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 712-724.	1.0	10
30	Dynamics of the K^B Proton Pathway in Cytochrome ba₃ from Thermus thermophilus. Israel Journal of Chemistry, 2017, 57, 424-436.	2.3	6
31	Searching for the low affinity ubiquinone binding site in cytochrome bo3 from Escherichia coli. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 366-370.	1.0	8
32	X-ray transparent microfluidic chips for high-throughput screening and optimization of in meso membrane protein crystallization. Biomicrofluidics, 2017, 11, 024118.	2.4	7
33	Location of the Substrate Binding Site of the Cytochrome bo₃ Ubiquinol Oxidase from Escherichia coli. Journal of the American Chemical Society, 2017, 139, 8346-8354.	13.7	17
34	Critical Role of Water Molecules in Proton Translocation by the Membrane-Bound Transhydrogenase. Structure, 2017, 25, 1111-1119.e3.	3.3	12
35	The <scp>CO</scp> Photodissociation and Recombination Dynamics of the W172Y/F282T Ligand Channel Mutant of Rhodobacter sphaeroides aa₃ Cytochrome c Oxidase. Photochemistry and Photobiology, 2016, 92, 410-419.	2.5	3
36	Proton Dynamics at the Membrane Surface. Biophysical Journal, 2016, 110, 1909-1911.	0.5	17

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37	The unusual redox properties of C-type oxidases. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1892-1899.	1.0	27
38	Q-Band Electron-Nuclear Double Resonance Reveals Out-of-Plane Hydrogen Bonds Stabilize an Anionic Ubisemiquinone in Cytochrome bo3 from Escherichia coli. Biochemistry, 2016, 55, 5714-5725.	2.5	9
39	CtaM Is Required for Menaquinol Oxidase aa ₃ Function in Staphylococcus aureus. MBio, 2016, 7, .	4.1	34
40	All the O₂ Consumed by Thermus thermophilus Cytochrome ba₃ Is Delivered to the Active Site through a Long, Open Hydrophobic Tunnel with Entrances within the Lipid Bilayer. Biochemistry, 2016, 55, 1265-1278.	2.5	17
41	Escherichia coli Auxotroph Host Strains for Amino Acid-Selective Isotope Labeling of Recombinant Proteins. Methods in Enzymology, 2015, 565, 45-66.	1.0	19
42	Antiinfectives targeting enzymes and the proton motive force. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E7073-82.	7.1	138
43	Division of labor in transhydrogenase by alternating proton translocation and hydride transfer. Science, 2015, 347, 178-181.	12.6	36
44	Mutation of a single residue in the ba ₃ 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
45	The two transmembrane helices of CcoP are sufficient for assembly of the cbb3-type heme-copper oxygen reductase from Vibrio cholerae. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1231-1239.	1.0	8
46	Review and Hypothesis. New insights into the reaction mechanism of transhydrogenase: Swivelling the dIII component may gate the proton channel. FEBS Letters, 2015, 589, 2027-2033.	2.8	16
47	Plasticity in the High Affinity Menaquinone Binding Site of the Cytochrome aa₃-600 Menaquinol Oxidase from Bacillus subtilis. Biochemistry, 2015, 54, 5030-5044.	2.5	9
48	Replacing Arg70 by Histidine in The Cytochrome Aa 3 â€600 Menaquinol Oxidase from Bacillus Subtilis Changes The Nitrogen Interacting with The Semiquinone Formed at The Q h Site But Does Not Eliminate Catalytic Function. FASEB Journal, 2015, 29, LB110.	0.5	0
49	Conformational coupling between the active site and residues within the KC-channel of theVibrio cholerae cbb3-type (C-family) oxygen reductase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4419-E4428.	7.1	8
50	Characterization of the type 2 NADH:menaquinone oxidoreductases from Staphylococcus aureus and the bactericidal action of phenothiazines. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 954-963.	1.0	41
51	Subunit CydX of Escherichia coli cytochrome bd ubiquinol oxidase is essential for assembly and stability of the diâ€heme active site. FEBS Letters, 2014, 588, 1537-1541.	2.8	68
52	The K ^C Channel in the cbb ₃ -Type Respiratory Oxygen Reductase from Rhodobacter capsulatus Is Required for Both Chemical and Pumped Protons. Journal of Bacteriology, 2014, 196, 1825-1832.	2.2	2
53	Multitarget Drug Discovery for Tuberculosis and Other Infectious Diseases. Journal of Medicinal Chemistry, 2014, 57, 3126-3139.	6.4	205
54	Kinetics and Intermediates of the Reaction of Fully Reduced Escherichia coli bo₃ Ubiquinol Oxidase with O₂. Biochemistry, 2014, 53, 5393-5404.	2.5	6

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55	Proton pumping by an inactive structural variant of cytochrome c oxidase. Journal of Inorganic Biochemistry, 2014, 140, 6-11.	3.5	11
56	The Semiquinone at the Q_i Site of the bc₁ Complex Explored Using HYSCORE Spectroscopy and Specific Isotopic Labeling of Ubiquinone in Rhodobacter sphaeroides via ¹³C Methionine and Construction of a Methionine Auxotroph. Biochemistry, 2014, 53, 6022-6031.	2.5	14
57	Characterization of the Type III sulfide:quinone oxidoreductase from Caldivirga maquilingensis and its membrane binding. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 266-275.	1.0	34
58	Alternate pathways for NADH oxidation in Thermus thermophilus using type 2 NADH dehydrogenases. Biological Chemistry, 2013, 394, 667-676.	2.5	7
59	Characterization of the nitric oxide reductase from Thermus thermophilus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12613-12618.	7.1	15
60	Dissection of Hydrogen Bond Interaction Network around an Ironâ€"Sulfur Cluster by Site-Specific Isotope Labeling of Hyperthermophilic Archaeal Rieske-Type Ferredoxin. Journal of the American Chemical Society, 2012, 134, 19731-19738.	13.7	19
61	Interactions of Intermediate Semiquinone with Surrounding Protein Residues at the Q_H Site of Wild-Type and D75H Mutant Cytochrome bo₃ from Escherichia coli. Biochemistry, 2012, 51, 3827-3838.	2.5	31
62	Product-controlled steady-state kinetics between cytochrome aa3 from Rhodobacter sphaeroides and equine ferrocytochrome c analyzed by a novel spectrophotometric approach. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1894-1900.	1.0	1
63	Functional Importance of a Pair of Conserved Glutamic Acid Residues and of Ca²⁺ Binding in the cbb₃-Type Oxygen Reductases from Rhodobacter sphaeroides and Vibrio cholerae. Biochemistry, 2012, 51, 7290-7296.	2.5	8
64	Structure Changes upon Deprotonation of the Proton Release Group in the Bacteriorhodopsin Photocycle. Biophysical Journal, 2012, 103, 444-452.	0.5	16
65	Timing of Electron and Proton Transfer in the ba₃ Cytochrome c Oxidase from Thermus thermophilus. Biochemistry, 2012, 51, 4507-4517.	2.5	15
66	Cell-free synthesis of cytochrome bo3 ubiquinol oxidase in artificial membranes. Analytical Biochemistry, 2012, 423, 39-45.	2.4	20
67	Proton transfer in ba3 cytochrome c oxidase from Thermus thermophilus. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 650-657.	1.0	52
68	Solid-State NMR Study of the Charge-Transfer Complex between Ubiquinone-8 and Disulfide Bond Generating Membrane Protein DsbB. Journal of the American Chemical Society, 2011, 133, 4359-4366.	13.7	20
69	A rapid and robust method for selective isotope labeling of proteins. Methods, 2011, 55, 370-378.	3.8	55
70	2I1436 Optimization of expression condition and purification of cbb_3-type cytochrome c oxidase(Heme) Tj ETQq0 0 0 rgBT /Overlock 1	0.1	0
71	Differential effects of glutamate-286 mutations in the aa3-type cytochrome c oxidase from Rhodobacter sphaeroides and the cytochrome bo3 ubiquinol oxidase from Escherichia coli. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1342-1348.	1.0	2
72	The cytochrome bd respiratory oxygen reductases. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1398-1413.	1.0	445

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73	Oriented immobilization and electron transfer to the cytochrome c oxidase. Journal of Solid State Electrochemistry, 2011, 15, 105-114.	2.5	31
74	Aerobic respiratory chain of Escherichia coli is not allowed to work in fully uncoupled mode. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17320-17324.	7.1	121
75	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
76	Entrance of the proton pathway in cbb ₃ -type heme-copper oxidases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17661-17666.	7.1	35
77	Exploring by Pulsed EPR the Electronic Structure of Ubisemiquinone Bound at the QH Site of Cytochrome bo3 from Escherichia coli with in Vivo 13C-Labeled Methyl and Methoxy Substituents. Journal of Biological Chemistry, 2011, 286, 10105-10114.	3.4	20
78	Adaptation of aerobic respiration to low O ₂ environments. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14109-14114.	7.1	119
79	Partial Steps of Charge Translocation in the Nonpumping N139L Mutant of Rhodobacter sphaeroides Cytochrome c Oxidase with a Blocked D-Channel. Biochemistry, 2010, 49, 3060-3073.	2.5	30
80	Nitroxide spin labels as EPR reporters of the relaxation and magnetic properties of the hemeâ€"copper site in cytochrome bo 3, E. coli. Journal of Biological Inorganic Chemistry, 2010, 15, 1255-1264.	2.6	6
81	Blocking the K-pathway still allows rapid one-electron reduction of the binuclear center during the anaerobic reduction of the aa3-type cytochrome c oxidase from Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 619-624.	1.0	15
82	The quinone-binding sites of the cytochrome bo3 ubiquinol oxidase from Escherichia coli. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1924-1932.	1.0	41
83	Hemeâ€"heme and hemeâ€"ligand interactions in the di-heme oxygen-reducing site of cytochrome bd from Escherichia coli revealed by nanosecond absorption spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1657-1664.	1.0	36
84	Functional interactions between membrane-bound transporters and membranes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15763-15767.	7.1	27
85	Characterization of the Semiquinone Radical Stabilized by the Cytochrome aa3-600 Menaquinol Oxidase of Bacillus subtilis. Journal of Biological Chemistry, 2010, 285, 18241-18251.	3.4	24
86	Decoupling Mutations in the D-Channel of the aa3-Type Cytochrome c Oxidase from Rhodobacter sphaeroides Suggest That a Continuous Hydrogen-Bonded Chain of Waters Is Essential for Proton Pumping. Biochemistry, 2010, 49, 4476-4482.	2.5	28
87	The Diheme Cytochrome c₄ from Vibrio cholerae Is a Natural Electron Donor to the Respiratory cbb₃ Oxygen Reductase. Biochemistry, 2010, 49, 7494-7503.	2.5	34
88	Conformational transitions and molecular hysteresis of cytochrome c oxidase: Varying the redox state by electronic wiring. Soft Matter, 2010, 6, 5523.	2.7	21
89	The cytochrome ba ₃ oxygen reductase from Thermus thermophilus uses a single input channel for proton delivery to the active site and for proton pumping. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16169-16173.	7.1	102
90	Critical structural role of R481 in cytochrome c oxidase from Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1272-1275.	1.0	14

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91	Properties of Arg481 Mutants of the aa₃-Type Cytochrome c Oxidase from Rhodobacter sphaeroides Suggest That neither R481 nor the Nearby D-Propionate of Heme a₃ Is Likely To Be the Proton Loading Site of the Proton Pump. Biochemistry, 2009, 48, 7123-7131.	2.5	33
92	Cytochrome c oxidase: exciting progress and remaining mysteries. Journal of Bioenergetics and Biomembranes, 2008, 40, 521-531.	2.3	252
93	Diversity of the Hemeâ€"Copper Superfamily in Archaea: Insights from Genomics and Structural Modeling. , 2008, 45, 1-31.		124
94	The fully oxidized form of the cytochrome bd quinol oxidase from E. coli does not participate in the catalytic cycle: Direct evidence from rapid kinetics studies. FEBS Letters, 2008, 582, 3705-3709.	2.8	33
95	Impaired proton pumping in cytochrome c oxidase upon structural alteration of the D pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 897-903.	1.0	43
96	Strong Excitonic Interactions in the Oxygen-Reducing Site of bd-Type Oxidase:â€‰ The Fe-to-Fe Distance between Hemes d and b₅₉₅ is 10 Ã.... Biochemistry, 2008, 47, 1752-1759.	2.5	41
97	Identification of the Nitrogen Donor Hydrogen Bonded with the Semiquinone at the Q_H Site of the Cytochrome bo₃ from Escherichia coli. Journal of the American Chemical Society, 2008, 130, 15768-15769.	13.7	28
98	Characterization of Mutants That Change the Hydrogen Bonding of the Semiquinone Radical at the QH Site of the Cytochrome bo3 from Escherichia coli. Journal of Biological Chemistry, 2007, 282, 8777-8785.	3.4	29
99	Comparative Genomics and Site-Directed Mutagenesis Support the Existence of Only One Input Channel for Protons in the C-Family (cbb₃ Oxidase) of Hemeâ˜Copper Oxygen Reductases. Biochemistry, 2007, 46, 9963-9972.	2.5	70
100	Flash-Photolysis of Fully Reduced and Mixed-Valence CO-Bound Rhodobacter sphaeroides Cytochrome c Oxidase:â€‰ Heme Spectral Shifts. Biochemistry, 2007, 46, 12568-12578.	2.5	11
101	Glutamate 107 in Subunit I of the CytochromebdQuinol Oxidase fromEscherichia coliIs Protonated and near the Hemed/Hemeb595Binuclear Centerâ€. Biochemistry, 2007, 46, 3270-3278.	2.5	31
102	A New Ruthenium Complex To Study Single-Electron Reduction of the Pulsed OH State of Detergent-Solubilized Cytochrome Oxidase. Biochemistry, 2007, 46, 14610-14618.	2.5	26
103	Controlled uncoupling and recoupling of proton pumping in cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 317-322.	7.1	89
104	Single-electron photoreduction of the PM intermediate of cytochrome c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1122-1132.	1.0	38
105	Replacing Asn207 by Aspartate at the Neck of the D Channel in the aa3-Type Cytochrome c Oxidase from Rhodobacter sphaeroides Results in Decoupling the Proton Pump. Biochemistry, 2006, 45, 14064-14074.	2.5	44
106	Water as a Cofactor in the Unidirectional Light-Driven Proton Transfer Steps in Bacteriorhodopsin. Photochemistry and Photobiology, 2006, 82, 1398-1405.	2.5	9
107	Magic-angle spinning solid-state NMR of a 144ÂkDa membrane protein complex: E. coli cytochrome bo3 oxidase. Journal of Biomolecular NMR, 2006, 36, 55-71.	2.8	75
108	Characterization of the Exchangeable Protons in the Immediate Vicinity of the Semiquinone Radical at the QH Site of the Cytochrome bo3 from Escherichia coli. Journal of Biological Chemistry, 2006, 281, 16879-16887.	3.4	39

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109	Spectral and Kinetic Equivalence of Oxidized Cytochrome c Oxidase as Isolated and â€œActivatedâ€•by Reoxidation. Journal of Biological Chemistry, 2006, 281, 30319-30325.	3.4	45
110	Respiration in Archaea and Bacteria: Diversity of Prokaryotic Electron Transport Carriers. Davide Zannoni, Advances in Photosynthesis and Respiration (Series Editor, Govindjee), Kluwer Academic Publishers, Dordrecht, The Netherlands, Volume 15, 2004, 350 pp, ISBN 1-4020-2001-5, Price EUR 175.00, USD 193.00, GBP 121.00.. Photosynthesis Research, 2005, 83, 363-364.	2.9	0
111	Time-resolved electrometric and optical studies on cytochrome bd suggest a mechanism of electron-proton coupling in the di-heme active site. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3657-3662.	7.1	76
112	Helix Switching of a Key Active-Site Residue in the Cytochromecbb3Oxidasesâ€. Biochemistry, 2005, 44, 10766-10775.	2.5	56
113	Transmembrane Charge Separation during the Ferryl-oxo â†' Oxidized Transition in a Nonpumping Mutant of Cytochrome c Oxidase. Journal of Biological Chemistry, 2004, 279, 52558-52565.	3.4	75
114	Some recent contributions of FTIR difference spectroscopy to the study of cytochrome oxidase1. FEBS Letters, 2003, 555, 2-7.	2.8	26
115	The Entry Point of the K-Proton-Transfer Pathway in CytochromecOxidaseâ€. Biochemistry, 2002, 41, 10794-10798.	2.5	68
116	A Mutation in Subunit I of Cytochrome Oxidase fromRhodobacter sphaeroidesResults in an Increase in Steady-State Activity but Completely Eliminates Proton Pumpingâ€. Biochemistry, 2002, 41, 13417-13423.	2.5	122
117	Identification of the Residues Involved in Stabilization of the Semiquinone Radical in the High-Affinity Ubiquinone Binding Site in Cytochrome bo3 from Escherichia coli by Site-Directed Mutagenesis and EPR Spectroscopy. Biochemistry, 2002, 41, 10675-10679.	2.5	35
118	Expression and mutagenesis of the NqrC subunit of the NQR respiratory Na+pump fromVibrio choleraewith covalently attached FMN. FEBS Letters, 2001, 492, 45-49.	2.8	50
119	Perfusion-induced redox differences in cytochrome c oxidase: ATR/FT-IR spectroscopy. FEBS Letters, 2001, 505, 63-67.	2.8	59
120	Direct Evidence for the Protonation of Aspartate-75, Proposed To Be at a Quinol Binding Site, upon Reduction of Cytochromebo3fromEscherichia coliâ€. Biochemistry, 2001, 40, 1077-1082.	2.5	22
121	Role of the K-Channel in the pH-Dependence of the Reaction of CytochromecOxidase with Hydrogen Peroxideâ€. Biochemistry, 2001, 40, 9695-9708.	2.5	41
122	Site-Directed Mutation of the Highly Conserved Region near the Q-Loop of the Cytochrome bd Quinol Oxidase from Escherichia coli Specifically Perturbs Heme b595. Biochemistry, 2001, 40, 8548-8556.	2.5	36
123	Mutations in the Putative H-Channel in the CytochromecOxidase fromRhodobactersphaeroidesShow That This Channel Is Not Important for Proton Conduction but Reveal Modulation of the Properties of Hemeaâ€. Biochemistry, 2000, 39, 2989-2996.	2.5	112
124	Q-Band ENDOR (Electron Nuclear Double Resonance) of the High-Affinity Ubisemiquinone Center in Cytochromebo3fromEscherichia coliâ€. Biochemistry, 2000, 39, 3169-3175.	2.5	31
125	Q-Band ENDOR (Electron Nuclear Double Resonance) of the Hemeo3Liganding Environment at the Binuclear Center in Cytochromebo3fromEscherichia coli. Journal of the American Chemical Society, 2000, 122, 8712-8716.	13.7	12
126	Detergent-solubilizedEscherichia colicytochromebo3ubiquinol oxidase: a monomeric, not a dimeric complex. FEBS Letters, 1999, 457, 153-156.	2.8	16

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127	Mechanism of Ubiquinol Oxidation by thebc1Complex:Â Different Domains of the Quinol Binding Pocket and Their Role in the Mechanism and Binding of Inhibitorsâ€. Biochemistry, 1999, 38, 15807-15826.	2.5	155
128	Sequencing and Preliminary Characterization of the Na⁺-Translocating NADH:Ubiquinone Oxidoreductase from Vibrio harveyi. Biochemistry, 1999, 38, 16246-16252.	2.5	88
129	Vibrational Modes of Ubiquinone in Cytochrome bo3 from Escherichia coli Identified by Fourier Transform Infrared Difference Spectroscopy and Specific 13C Labeling. Biochemistry, 1999, 38, 14683-14689.	2.5	50
130	Magnetic Circular Dichroism Used To Examine the Interaction of Escherichia coli Cytochrome bd with Ligands. Biochemistry, 1999, 38, 740-750.	2.5	65
131	Examination of the Reaction of Fully Reduced Cytochrome Oxidase with Hydrogen Peroxide by Flow-Flash Spectroscopyâ€. Biochemistry, 1999, 38, 16016-16023.	2.5	6
132	Aspartate-132 in Cytochrome c Oxidase from Rhodobacter sphaeroides Is Involved in a Two-Step Proton Transfer during Oxo-Ferryl Formation. Biochemistry, 1999, 38, 6826-6833.	2.5	89
133	The cbb3-type cytochrome c oxidase from Rhodobacter sphaeroides, a proton-pumping heme-copper oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1365, 421-434.	1.0	84
134	The Post-Translational Modification in CytochromecOxidase Is Required To Establish a Functional Environment of the Catalytic Siteâ€. Biochemistry, 1998, 37, 14471-14476.	2.5	81
135	Role of the Pathway through K(I-362) in Proton Transfer in CytochromecOxidase fromR. sphaeroidesâ€. Biochemistry, 1998, 37, 2470-2476.	2.5	139
136	Tryptophan-136 in Subunit II of Cytochromebo3fromEscherichiacoliMay Participate in the Binding of Ubiquinolâ€. Biochemistry, 1998, 37, 11806-11811.	2.5	29
137	Using Matrix-Assisted Laser Desorption Ionization Mass Spectrometry To Map the Quinol Binding Site of Cytochrome bo3 from Escherichia coli. Biochemistry, 1998, 37, 9884-9888.	2.5	32
138	Substitution of Lysine-362 in a Putative Proton-Conducting Channel in the CytochromecOxidase fromRhodobacter sphaeroidesBlocks Turnover with O2but Not with H2O2. Biochemistry, 1998, 37, 3062-3067.	2.5	46
139	Rapid Formation of a Semiquinone Species on Oxidation of Quinol by the Cytochrome bo 3 Oxidase from Escherichia coli. , 1998, , 33-39.		2
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