C Roy D Lancaster

List of Publications by Year
in descending order

61	2,677	186265 28	182427 51
papers	citations	h-index	g-index

67	67	67	2588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of fumarate reductase from Wolinella succinogenes at 2.2â€‰Ã… resolution. Nature, 1999, 402, 377-385.	27.8	346
2	Reversal of Mitochondrial Transhydrogenase Causes Oxidative Stress in Heart Failure. Cell Metabolism, 2015, 22, 472-484.	16.2	307
3	The coupling of light-induced electron transfer and proton uptake as derived from crystal structures of reaction centres from Rhodopseudomonas viridis modified at the binding site of the secondary quinone, QB. Structure, 1997, 5, 1339-1359.	3.3	211
4	The Coupling of Electron Transfer and Proton Translocation: Electrostatic Calculations on Paracoccus denitrificans Cytochrome c Oxidase. Biophysical Journal, 1998, 74, 708-721.	0.5	159
5	Fumarate respiration of Wolinella succinogenes: enzymology, energetics and coupling mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 23-38.	1.0	134
6	Succinate:quinone oxidoreductases: an overview. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 1-6.	1.0	119
7	Purification and Characterization of the Recombinant Na⁺-Translocating NADH:Quinone Oxidoreductase from Vibrio cholerae. Biochemistry, 2002, 41, 3781-3789.	2.5	111
8	Evidence for transmembrane proton transfer in a dihaem-containing membrane protein complex. EMBO Journal, 2006, 25, 4963-4970.	7.8	67
9	The Human Cdc37Â·Hsp90 Complex Studied by Heteronuclear NMR Spectroscopy. Journal of Biological Chemistry, 2009, 284, 3885-3896.	3.4	60
10	Structural Basis of the Drastically Increased Initial Electron Transfer Rate in the Reaction Center from a Rhodopseudomonas viridis Mutant Described at 2.00-Ã… Resolution. Journal of Biological Chemistry, 2000, 275, 39364-39368.	3.4	57
11	Three Molecules of Ubiquinone Bind Specifically to Mitochondrial Cytochrome bc 1Complex. Journal of Biological Chemistry, 2001, 276, 35231-35234.	3.4	56
12	A third crystal form ofWolinella succinogenesquinol:fumarate reductase reveals domain closure at the site of fumarate reduction. FEBS Journal, 2001, 268, 1820-1827.	0.2	52
13	Succinate:quinone oxidoreductases from Ïµ-proteobacteria11Dedicated to Achim KrÃ¶ger on the occasion of his 65th birthday. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 84-101.	1.0	52
14	Wolinella succinogenes quinol:fumarate reductaseâ€”2.2-Ã… resolution crystal structure and the E-pathway hypothesis of coupled transmembrane proton and electron transfer. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1565, 215-231.	2.6	50
15	Design, Synthesis, and Biological Testing of Novel Naphthoquinones as Substrate-Based Inhibitors of the Quinol/Fumarate Reductase from Wolinella succinogenes. Journal of Medicinal Chemistry, 2013, 56, 9530-9541.	6.4	50
16	Experimental Evidence for Proton Motive Force-Dependent Catalysis by the Diheme-Containing Succinate:Menaquinone Oxidoreductase from the Gram-Positive Bacterium Bacillus licheniformis. Biochemistry, 2006, 45, 15049-15055.	2.5	49
17	Experimental support for the "E pathway hypothesis" of coupled transmembrane e- and H+ transfer in dihemic quinol:fumarate reductase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18860-18865.	7.1	47
18	A Comparison of Stigmatellin Conformations, Free and Bound to the Photosynthetic Reaction Center and the Cytochrome bc1 Complex. Journal of Molecular Biology, 2007, 368, 197-208.	4.2	47

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19	Modulation of the bilayer to hexagonal phase transition of phosphatidylethanolamines by acylglycerols. Biochimica Et Biophysica Acta - Biomembranes, 1988, 945, 161-166.	2.6	44
20	Characterization of the Menaquinone Reduction Site in the Diheme Cytochrome b Membrane Anchor of Wolinella succinogenes NiFe-hydrogenase. Journal of Biological Chemistry, 2004, 279, 274-281.	3.4	43
21	Identification of histidine residues in Wolinella succinogenes hydrogenase that are essential for menaquinone reduction by H2. Molecular Microbiology, 1998, 30, 639-646.	2.5	41
22	Wolinella succinogenes quinol:fumarate reductase and its comparison to E. coli succinate:quinone reductase. FEBS Letters, 2003, 555, 21-28.	2.8	39
23	Calculated Coupling of Transmembrane Electron and Proton Transfer in Dihemic Quinol:Fumarate Reductase. Biophysical Journal, 2004, 87, 4298-4315.	0.5	39
24	Heterologous production in Wolinella succinogenes and characterization of the quinol:fumarate reductase enzymes from Helicobacter pylori and Campylobacter jejuni. Biochemical Journal, 2006, 395, 191-201.	3.7	38
25	Production, characterization and determination of the real catalytic properties of the putative â€˜succinate dehydrogenaseâ€™ from Wolinella succinogenes. Molecular Microbiology, 2009, 71, 1088-1101.	2.5	35
26	The di-heme family of respiratory complex II enzymes. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 679-687.	1.0	35
27	Three-dimensional structures of photosynthetic reaction centers. Photosynthesis Research, 1996, 48, 65-74.	2.9	34
28	Mimicking the membrane-mediated conformation of dynorphin A-(1-13)-peptide: circular dichroism and nuclear magnetic resonance studies in methanolic solution. Biochemistry, 1991, 30, 4715-4726.	2.5	31
29	The role of electrostatics in proton-conducting membrane protein complexes. FEBS Letters, 2003, 545, 52-60.	2.8	28
30	The role of electrostatic interactions for cytochrome c oxidase function. Journal of Bioenergetics and Biomembranes, 1998, 30, 81-87.	2.3	25
31	Structural and molecular comparison of bacterial and eukaryotic trigger factors. Scientific Reports, 2017, 7, 10680.	3.3	24
32	Probing Heme Propionate Involvement in Transmembrane Proton Transfer Coupled to Electron Transfer in Dihemic Quinol:Fumarate Reductase by13C-Labeling and FTIR Difference Spectroscopyâ€. Biochemistry, 2005, 44, 16718-16728.	2.5	23
33	Electroneutral and electrogenic catalysis by dihaem-containing succinate:quinone oxidoreductases. Biochemical Society Transactions, 2008, 36, 996-1000.	3.4	19
34	FTIR Difference Spectra ofWolinella succinogenesQuinol:Fumarate Reductase Support a Key Role of Glu C180 within the â€œE-Pathway Hypothesisâ€•of Coupled Transmembrane Electron and Proton Transferâ€. Biochemistry, 2005, 44, 13949-13961.	2.5	18
35	Crystal Structure of CYP106A2 in Substrateâ€Free and Substrateâ€Bound Form. ChemBioChem, 2016, 17, 852-860.	2.6	18
36	Recent progress on obtaining theoretical and experimental support for the â€œE-pathway hypothesisâ€•of coupled transmembrane electron and proton transfer in dihaem-containing quinol:fumarate reductase. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 988-995.	1.0	17

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37	The correlation of cathodic peak potentials of vitamin K3 derivatives and their calculated electron affinities. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 601-608.	1.0	16
38	The structure of Wolinella succinogenes quinol:Fumarate reductase and its relevance to the superfamily of succinate:Quinone oxidoreductases. Advances in Protein Chemistry, 2003, 63, 131-149.	4.4	14
39	Limited reversibility of transmembrane proton transfer assisting transmembrane electron transfer in a dihaem-containing succinate:quinone oxidoreductase. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 593-600.	1.0	13
40	Structureâ€“function analysis for the hydroxylation of Î”4 C21â€steroids by the myxobacterial CYP260B1. FEBS Letters, 2016, 590, 1838-1851.	2.8	13
41	Heterologous production and characterisation of two distinct dihaem-containing membrane integral cytochrome b561 enzymes from Arabidopsis thaliana in Pichia pastoris and Escherichia coli cells. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 679-688.	2.6	12
42	Ion pump in the movies. Nature, 2004, 432, 286-287.	27.8	11
43	Energy barriers of proton transfer reactions between amino acid side chain analogs and water fromab initio calculations. Journal of Computational Chemistry, 2006, 27, 1534-1547.	3.3	10
44	Structural characterization of <scp>CYP</scp>260A1 from Sorangium cellulosum to investigate the 1Î±â€hydroxylation of a mineralocorticoid. FEBS Letters, 2016, 590, 4638-4648.	2.8	10
45	Hydrogen-Bonded Networks Along and Bifurcation of the E-Pathway in Quinol:Fumarate Reductase. Biophysical Journal, 2012, 103, 1305-1314.	0.5	8
46	Proton transfer in the photosynthetic reaction center of Blastochloris viridis. FEBS Letters, 2008, 582, 238-242.	2.8	7
47	Replacement of Highly Conserved E222 by the Photostable Nonâ€photoconvertible Histidine in GFP. ChemBioChem, 2014, 15, 1404-1408.	2.6	6
48	Crystallization of Membrane Proteins. Methods in Molecular Biology, 2013, 1033, 67-83.	0.9	6
49	A P-type ion pump at work. , 2002, 9, 643-645.		5
50	Transmembrane Electron and Proton Transfer in Dihemeâ€Containing Succinateâ€‰:â€‰Quinone Oxidoreductases. Israel Journal of Chemistry, 2017, 57, 370-380.	2.3	5
51	Proton-Coupled Electron Transport in Two Distinct CYBASC Paralogs of Arabidopsis thaliana: A Comparative Characterization of Highly Conserved Tyrosine and Lysine Residues. Biochemistry, 2020, 59, 2328-2339.	2.5	4
52	Crystallization of Wolinella succinogenes Quinol: Fumarate Reductase. , 2003, , 219-II.		2
53	2-Hydroxy-3-(3-oxobutyl)naphthalene-1,4-dione. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, o671-o673.	0.4	2
54	The Coupling of Light-Induced Electron Transfer and Proton Uptake: Electrostatic Calculations on the Photosynthetic Reaction Centre from Rhodopseudomonas Viridis. , 1995, , 903-906.		2

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55	The Structure of the Rhodopseudomonas Viridis Reaction Centre - An Overview and Recent Advances. , 1998, , 673-678.		2
56	Potent inhibitors of glucagon-stimulated adenylate cyclase associated with serum lipoprotein particles. Biochemistry and Cell Biology, 1989, 67, 759-762.	2.0	1
57	The Superfamily of Succinate:Quinone Oxidoreductases and its Implications for the Cyanobacterial Enzymes. , 2011, , 469-511.		1
58	A third crystal form of Wolinella succinogenes quinol:fumarate reductase reveals domain closure at the site of fumarate reduction. FEBS Journal, 2001, 268, 1820-1827.	0.2	1
59	An Unconventional Anaerobic Membrane Protein Production System Based on Wolinella succinogenes. Methods in Enzymology, 2015, 556, 99-121.	1.0	0
60	Respiration | Respiratory Chain Complex II and Succinate: Quinone Oxidoreductases. , 2021, , 494-501.		0
61	Respiratory Chain Complex II and Succinate:Quinone Oxidoreductases. , 2018, , .		0