

Judy Hirst

List of Publications by Year in descending order

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120
papers

13,257
citations

24978

57
h-index

23472

111
g-index

133
all docs

133
docs citations

133
times ranked

13290
citing authors

#	ARTICLE	IF	CITATIONS
1	An inhibitor of oxidative phosphorylation exploits cancer vulnerability. <i>Nature Medicine</i> , 2018, 24, 1036-1046.	15.2	622
2	The mechanism of superoxide production by NADH:ubiquinone oxidoreductase (complex I) from bovine heart mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7607-7612.	3.3	612
3	Mitochondrial Complex I. <i>Annual Review of Biochemistry</i> , 2013, 82, 551-575.	5.0	529
4	Effects of metformin and other biguanides on oxidative phosphorylation in mitochondria. <i>Biochemical Journal</i> , 2014, 462, 475-487.	1.7	502
5	Structure of mammalian respiratory complex I. <i>Nature</i> , 2016, 536, 354-358.	13.7	477
6	Reversible interconversion of carbon dioxide and formate by an electroactive enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10654-10658.	3.3	472
7	Bovine Complex I Is a Complex of 45 Different Subunits. <i>Journal of Biological Chemistry</i> , 2006, 281, 32724-32727.	1.6	412
8	Reaction of complex metalloproteins studied by protein-film voltammetry. <i>Chemical Society Reviews</i> , 1997, 26, 169.	18.7	398
9	Reversible Glutathionylation of Complex I Increases Mitochondrial Superoxide Formation. <i>Journal of Biological Chemistry</i> , 2003, 278, 19603-19610.	1.6	357
10	Architecture of mammalian respiratory complex I. <i>Nature</i> , 2014, 515, 80-84.	13.7	350
11	The nuclear encoded subunits of complex I from bovine heart mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1604, 135-150.	0.5	345
12	Analysis of the Subunit Composition of Complex I from Bovine Heart Mitochondria*S. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 117-126.	2.5	337
13	Reversibility and efficiency in electrocatalytic energy conversion and lessons from enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14049-14054.	3.3	310
14	The Enigma of the Respiratory Chain Supercomplex. <i>Cell Metabolism</i> , 2017, 25, 765-776.	7.2	279
15	The production of reactive oxygen species by complex I. <i>Biochemical Society Transactions</i> , 2008, 36, 976-980.	1.6	262
16	Superoxide Is Produced by the Reduced Flavin in Mitochondrial Complex I. <i>Journal of Biological Chemistry</i> , 2011, 286, 18056-18065.	1.6	241
17	GRIM-19, a Cell Death Regulatory Gene Product, Is a Subunit of Bovine Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I). <i>Journal of Biological Chemistry</i> , 2001, 276, 38345-38348.	1.6	227
18	Interaction of the Mitochondria-targeted Antioxidant MitoQ with Phospholipid Bilayers and Ubiquinone Oxidoreductases*. <i>Journal of Biological Chemistry</i> , 2007, 282, 14708-14718.	1.6	213

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19	Cryo-EM structures of complex I from mouse heart mitochondria in two biochemically defined states. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 548-556.	3.6	202
20	Reversible Interconversion of CO ₂ and Formate by a Molybdenum-Containing Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2014, 136, 15473-15476.	6.6	200
21	Interactions between Phospholipids and NADH:Ubiquinone Oxidoreductase (Complex I) from Bovine Mitochondria. <i>Biochemistry</i> , 2006, 45, 241-248.	1.2	188
22	An iron-sulfur domain of the eukaryotic primase is essential for RNA primer synthesis. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 875-877.	3.6	177
23	Fast-Scan Cyclic Voltammetry of Protein Films on Pyrolytic Graphite Edge Electrodes: Characteristics of Electron Exchange. <i>Analytical Chemistry</i> , 1998, 70, 5062-5071.	3.2	174
24	Atomically defined mechanism for proton transfer to a buried redox centre in a protein. <i>Nature</i> , 2000, 405, 814-817.	13.7	161
25	Towards the molecular mechanism of respiratory complex I. <i>Biochemical Journal</i> , 2010, 425, 327-339.	1.7	158
26	Kinetic evidence against partitioning of the ubiquinone pool and the catalytic relevance of respiratory-chain supercomplexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15735-15740.	3.3	149
27	Definition of the Nuclear Encoded Protein Composition of Bovine Heart Mitochondrial Complex I. <i>Journal of Biological Chemistry</i> , 2002, 277, 50311-50317.	1.6	141
28	Interpreting the Catalytic Voltammetry of Electroactive Enzymes Adsorbed on Electrodes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6889-6902.	1.2	139
29	Reduction Potentials of Rieske Clusters: Importance of the Coupling between Oxidation State and Histidine Protonation State. <i>Biochemistry</i> , 2003, 42, 12400-12408.	1.2	135
30	A scalable, GFP-based pipeline for membrane protein overexpression screening and purification. <i>Protein Science</i> , 2005, 14, 2011-2017.	3.1	121
31	Direct assignment of EPR spectra to structurally defined iron-sulfur clusters in complex I by double electron-electron resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1930-1935.	3.3	116
32	Energy conversion, redox catalysis and generation of reactive oxygen species by respiratory complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 872-883.	0.5	111
33	Mitochondrial Supercomplexes Do Not Enhance Catalysis by Quinone Channeling. <i>Cell Metabolism</i> , 2018, 28, 525-531.e4.	7.2	111
34	Production of Reactive Oxygen Species by Complex I (NADH:Ubiquinone Oxidoreductase) from <i>Escherichia coli</i> and Comparison to the Enzyme from Mitochondria. <i>Biochemistry</i> , 2008, 47, 3964-3971.	1.2	109
35	Structure of the Deactive State of Mammalian Respiratory Complex I. <i>Structure</i> , 2018, 26, 312-319.e3.	1.6	108
36	Electrocatalytic Voltammetry of Succinate Dehydrogenase: Direct Quantification of the Catalytic Properties of a Complex Electron-Transport Enzyme. <i>Journal of the American Chemical Society</i> , 1996, 118, 5031-5038.	6.6	105

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37	Kinetics and Mechanism of Redox-Coupled, Long-Range Proton Transfer in an Iron ²⁺ Sulfur Protein. Investigation by Fast-Scan Protein-Film Voltammetry. <i>Journal of the American Chemical Society</i> , 1998, 120, 7085-7094.	6.6	104
38	High-Resolution Structure of the Soluble, Respiratory-Type Rieske Protein from <i>Thermus thermophilus</i> : Analysis and Comparison. <i>Biochemistry</i> , 2003, 42, 7303-7317.	1.2	96
39	Correlating kinetic and structural data on ubiquinone binding and reduction by respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12737-12742.	3.3	91
40	Reduction of Hydrophilic Ubiquinones by the Flavin in Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I) and Production of Reactive Oxygen Species. <i>Biochemistry</i> , 2009, 48, 2053-2062.	1.2	89
41	Mitochondrial complex I structure reveals ordered water molecules for catalysis and proton translocation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 892-900.	3.6	88
42	Fast voltammetric studies of the kinetics and energetics of coupled electron-transfer reactions in proteins. <i>Faraday Discussions</i> , 2000, 116, 191-203.	1.6	87
43	Elucidating the mechanisms of coupled electron transfer and catalytic reactions by protein film voltammetry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 225-239.	0.5	86
44	Mammalian Respiratory Complex I Through the Lens of Cryo-EM. <i>Annual Review of Biophysics</i> , 2019, 48, 165-184.	4.5	82
45	The Deactive Form of Respiratory Complex I from Mammalian Mitochondria Is a Na ⁺ /H ⁺ Antiporter. <i>Journal of Biological Chemistry</i> , 2012, 287, 34743-34751.	1.6	74
46	Reevaluating the relationship between EPR spectra and enzyme structure for the iron ²⁺ sulfur clusters in NADH:quinone oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12720-12725.	3.3	73
47	Energy transduction by respiratory complex I – an evaluation of current knowledge. <i>Biochemical Society Transactions</i> , 2005, 33, 525-529.	1.6	71
48	Structural basis for a complex I mutation that blocks pathological ROS production. <i>Nature Communications</i> , 2021, 12, 707.	5.8	71
49	Respiratory Complex I in <i>Bos taurus</i> and <i>Paracoccus denitrificans</i> Pumps Four Protons across the Membrane for Every NADH Oxidized. <i>Journal of Biological Chemistry</i> , 2017, 292, 4987-4995.	1.6	69
50	Oxidation-State-Dependent Binding Properties of the Active Site in a Mo-Containing Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2017, 139, 9927-9936.	6.6	69
51	Complete Thermodynamic Characterization of Reduction and Protonation of the bc ₁ -type Rieske [2Fe-2S] Center of <i>Thermus thermophilus</i> . <i>Journal of the American Chemical Society</i> , 2001, 123, 9906-9907.	6.6	68
52	Structure of inhibitor-bound mammalian complex I. <i>Nature Communications</i> , 2020, 11, 5261.	5.8	68
53	The Inhibition of Mitochondrial Complex I (NADH:Ubiquinone Oxidoreductase) by Zn ²⁺ . <i>Journal of Biological Chemistry</i> , 2006, 281, 34803-34809.	1.6	67
54	The Post-translational Modifications of the Nuclear Encoded Subunits of Complex I from Bovine Heart Mitochondria. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 693-699.	2.5	65

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55	Molecular features of biguanides required for targeting of mitochondrial respiratory complex I and activation of AMP-kinase. <i>BMC Biology</i> , 2016, 14, 65.	1.7	65
56	Reversible, Electrochemical Interconversion of NADH and NAD ⁺ by the Catalytic (Î²) Subcomplex of Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I). <i>Journal of the American Chemical Society</i> , 2003, 125, 6020-6021.	6.6	64
57	Direct Observation of Redox-Linked Histidine Protonation Changes in the Iron-Sulfur Protein of the Cytochromebc1Complex by ATR-FTIR Spectroscopy. <i>Biochemistry</i> , 2005, 44, 4230-4237.	1.2	63
58	Redox Properties of the [2Fe-2S] Center in the 24 kDa (NQO2) Subunit of NADH:Ubiquinone Oxidoreductase (Complex I). <i>Biochemistry</i> , 2002, 41, 10056-10069.	1.2	61
59	Fumarate Hydratase Loss Causes Combined Respiratory Chain Defects. <i>Cell Reports</i> , 2017, 21, 1036-1047.	2.9	61
60	Reactions of the Flavin Mononucleotide in Complex I: A Combined Mechanism Describes NADH Oxidation Coupled to the Reduction of APAD ⁺ , Ferricyanide, or Molecular Oxygen. <i>Biochemistry</i> , 2009, 48, 12005-12013.	1.2	58
61	Open questions: respiratory chain supercomplexes—why are they there and what do they do?. <i>BMC Biology</i> , 2018, 16, 111.	1.7	58
62	Replacement of the Axial Histidine Ligand with Imidazole in CytochromecPeroxidase. 2. Effects on Heme Coordination and Function. <i>Biochemistry</i> , 2001, 40, 1274-1283.	1.2	56
63	Structure of subcomplex Î² of mammalian respiratory complex I leads to new supernumerary subunit assignments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12087-12092.	3.3	50
64	A spectrophotometric coupled enzyme assay to measure the activity of succinate dehydrogenase. <i>Analytical Biochemistry</i> , 2013, 442, 19-23.	1.1	49
65	Characterization of clinically identified mutations in NDUFV1, the flavin-binding subunit of respiratory complex I, using a yeast model system. <i>Human Molecular Genetics</i> , 2015, 24, 6350-6360.	1.4	48
66	Roles of the Disulfide Bond and Adjacent Residues in Determining the Reduction Potentials and Stabilities of Respiratory-Type Rieske Clusters. <i>Biochemistry</i> , 2005, 44, 7048-7058.	1.2	46
67	Modulation of Heme Redox Potential in the Cytochrome c Family. <i>Journal of the American Chemical Society</i> , 2007, 129, 9468-9475.	6.6	45
68	Reduction of the Iron-Sulfur Clusters in Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I). <i>Journal of Biological Chemistry</i> , 2000, 275, 41000-41006.	1.2	45
69	The mechanism of catalysis by type-II NADH:quinone oxidoreductases. <i>Scientific Reports</i> , 2017, 7, 40165.	1.6	45
70	Formation and characterization of an all-ferrous Rieske cluster and stabilization of the [2Fe-2S]O core by protonation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10913-10918.	3.3	44
71	The Flavoprotein Subcomplex of Complex I (NADH:Ubiquinone Oxidoreductase) from Bovine Heart Mitochondria: Insights into the Mechanisms of NADH Oxidation and NAD ⁺ Reduction from Protein Film Voltammetry. <i>Biochemistry</i> , 2007, 46, 3454-3464.	1.2	44
72	Exploring Interactions between the 49 kDa and ND1 Subunits in Mitochondrial NADH-Ubiquinone Oxidoreductase (Complex I) by Photoaffinity Labeling. <i>Biochemistry</i> , 2011, 50, 6901-6908.	1.2	44

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73	Investigating the function of [2Fe-2S] cluster N1a, the off-pathway cluster in complex I, by manipulating its reduction potential. <i>Biochemical Journal</i> , 2013, 456, 139-146.	1.7	44
74	Voltammetric studies of bidirectional catalytic electron transport in <i>Escherichia coli</i> succinate dehydrogenase: comparison with the enzyme from beef heart mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1412, 262-272.	0.5	43
75	Mössbauer Spectroscopy on Respiratory Complex I: The Iron-Sulfur Cluster Ensemble in the NADH-Reduced Enzyme Is Partially Oxidized. <i>Biochemistry</i> , 2012, 51, 149-158.	1.2	43
76	Modelling electrode reactions using the strongly implicit procedure. <i>Journal of Electroanalytical Chemistry</i> , 1995, 383, 13-19.	1.9	42
77	Detection and interpretation of redox potential optima in the catalytic activity of enzymes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1555, 54-59.	0.5	41
78	Investigation of the mechanism of proton translocation by NADH:ubiquinone oxidoreductase (complex I) from bovine heart mitochondria: does the enzyme operate by a Q-cycle mechanism?. <i>Biochemical Journal</i> , 2006, 400, 541-550.	1.7	41
79	Bottom-Up Construction of a Minimal System for Cellular Respiration and Energy Regeneration. <i>ACS Synthetic Biology</i> , 2020, 9, 1450-1459.	1.9	40
80	Global Observation of Hydrogen/Deuterium Isotope Effects on Bidirectional Catalytic Electron Transport in an Enzyme: A Direct Measurement by Protein-Film Voltammetry. <i>Journal of the American Chemical Society</i> , 1997, 119, 7434-7439.	6.6	39
81	Complexome profile of <i>Toxoplasma gondii</i> mitochondria identifies divergent subunits of respiratory chain complexes including new subunits of cytochrome bc ₁ complex. <i>PLoS Pathogens</i> , 2021, 17, e1009301.	2.1	39
82	The Subunit Composition of Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I) From <i>Pichia pastoris</i> . <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2318-2326.	2.5	38
83	Why does mitochondrial complex I have so many subunits?. <i>Biochemical Journal</i> , 2011, 437, e1-e3.	1.7	38
84	Cryo-EM structures define ubiquinone-10 binding to mitochondrial complex I and conformational transitions accompanying Q-site occupancy. <i>Nature Communications</i> , 2022, 13, 2758.	5.8	38
85	Very Rapid, Cooperative Two-Electron/Two-Proton Redox Reactions of [3Fe-4S] Clusters: A Detection and Analysis by Protein-Film Voltammetry. <i>Journal of the American Chemical Society</i> , 1998, 120, 11994-11999.	6.6	37
86	Replacement of the Axial Histidine Ligand with Imidazole in Cytochrome c Peroxidase. 1. Effects on Structure. <i>Biochemistry</i> , 2001, 40, 1265-1273.	1.2	37
87	A Self-Assembled Respiratory Chain that Catalyzes NADH Oxidation by Ubiquinone-10 Cycling between Complex I and the Alternative Oxidase. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 728-731.	7.2	37
88	Subunit NDUFV3 is present in two distinct isoforms in mammalian complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 197-207.	0.5	37
89	Truncation of subunit ND2 disrupts the threefold symmetry of the antiporter-like subunits in complex I from higher metazoans. <i>FEBS Letters</i> , 2010, 584, 4247-4252.	1.3	36
90	Cork-in-bottle mechanism of inhibitor binding to mammalian complex I. <i>Science Advances</i> , 2021, 7, .	4.7	36

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91	Off-Pathway, Oxygen-Dependent Thiamine Radical in the Krebs Cycle. <i>Journal of the American Chemical Society</i> , 2008, 130, 1662-1668.	6.6	35
92	Interpreting the Catalytic Voltammetry of an Adsorbed Enzyme by Considering Substrate Mass Transfer, Enzyme Turnover, and Interfacial Electron Transport. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1394-1404.	1.2	34
93	Investigation of NADH Binding, Hydride Transfer, and NAD ⁺ Dissociation during NADH Oxidation by Mitochondrial Complex I Using Modified Nicotinamide Nucleotides. <i>Biochemistry</i> , 2013, 52, 4048-4055.	1.2	32
94	Using Hyperfine Electron Paramagnetic Resonance Spectroscopy to Define the Proton-Coupled Electron Transfer Reaction at Fe ²⁺ -S Cluster N2 in Respiratory Complex I. <i>Journal of the American Chemical Society</i> , 2017, 139, 16319-16326.	6.6	32
95	Reversible and Selective Interconversion of Hydrogen and Carbon Dioxide into Formate by a Semiartificial Formate Hydrogenlyase Mimic. <i>Journal of the American Chemical Society</i> , 2019, 141, 17498-17502.	6.6	32
96	Unusual Oxidative Chemistry of N ^ε -Hydroxyarginine and N-Hydroxyguanidine Catalyzed at an Engineered Cavity in a Heme Peroxidase. <i>Journal of Biological Chemistry</i> , 2000, 275, 8582-8591.	1.6	31
97	Mechanisms of Redox-Coupled Proton Transfer in Proteins: A Role of the Proximal Proline in Reactions of the [3Fe-4S] Cluster in <i>Azotobacter vinelandii</i> Ferredoxin I. <i>Biochemistry</i> , 2003, 42, 10589-10599.	1.2	31
98	Transhydrogenation Reactions Catalyzed by Mitochondrial NADH ⁺ Ubiquinone Oxidoreductase (Complex I). <i>Biochemistry</i> , 2007, 46, 14250-14258.	1.2	29
99	Breaking and Re-Forming the Disulfide Bond at the High-Potential, Respiratory-Type Rieske [2Fe-2S] Center of <i>Thermus thermophilus</i> : Characterization of the Sulfhydryl State by Protein-Film Voltammetry. <i>Biochemistry</i> , 2002, 41, 14054-14065.	1.2	28
100	The mitochondrial-encoded subunits of respiratory complex I (NADH:ubiquinone oxidoreductase): identifying residues important in mechanism and disease. <i>Biochemical Society Transactions</i> , 2011, 39, 799-806.	1.6	27
101	Antisymmetric Exchange in [2Fe ²⁺ 2S] ¹⁺ Clusters: EPR of the Rieske Protein from <i>Thermus thermophilus</i> at pH 14. <i>Journal of the American Chemical Society</i> , 2004, 126, 5338-5339.	6.6	26
102	A ternary mechanism for NADH oxidation by positively charged electron acceptors, catalyzed at the flavin site in respiratory complex I. <i>FEBS Letters</i> , 2011, 585, 2318-2322.	1.3	26
103	The respiratory complexes I from the mitochondria of two <i>Pichia</i> species. <i>Biochemical Journal</i> , 2009, 422, 151-159.	1.7	24
104	ATR-FTIR Redox Difference Spectroscopy of <i>Yarrowia lipolytica</i> and Bovine Complex I. <i>Biochemistry</i> , 2006, 45, 5458-5467.	1.2	23
105	The dichotomy of complex I: A sodium ion pump or a proton pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 773-775.	3.3	21
106	Deleting the IF ₁ -like σ subunit from <i>Paracoccus denitrificans</i> ATP synthase is not sufficient to activate ATP hydrolysis. <i>Open Biology</i> , 2018, 8, 170206.	1.5	19
107	Cryo-electron microscopy reveals how acetogenins inhibit mitochondrial respiratory complex I. <i>Journal of Biological Chemistry</i> , 2022, 298, 101602.	1.6	19
108	Small-volume potentiometric titrations: EPR investigations of Fe-S cluster N2 in mitochondrial complex I. <i>Journal of Inorganic Biochemistry</i> , 2016, 162, 201-206.	1.5	17

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109	Using a chimeric respiratory chain and EPR spectroscopy to determine the origin of semiquinone species previously assigned to mitochondrial complex I. <i>BMC Biology</i> , 2020, 18, 54.	1.7	17
110	Understanding How the Rate of C-H Bond Cleavage Affects Formate Oxidation Catalysis by a Mo-Dependent Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2020, 142, 12226-12236.	6.6	16
111	Reverse Electron Transfer by Respiratory Complex I Catalyzed in a Modular Proteoliposome System. <i>Journal of the American Chemical Society</i> , 2022, 144, 6791-6801.	6.6	15
112	Identification of a novel toxicophore in anti-cancer chemotherapeutics that targets mitochondrial respiratory complex I. <i>ELife</i> , 2020, 9, .	2.8	14
113	Photoelectrochemical reduction of meta-halonnitrobenzenes and related species. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 1673.	0.9	13
114	Hydroxylated Rotenoids Selectively Inhibit the Proliferation of Prostate Cancer Cells. <i>Journal of Natural Products</i> , 2020, 83, 1829-1845.	1.5	13
115	Regulation of ATP hydrolysis by the $\hat{\mu}$ subunit, $\hat{\nu}$ subunit and Mg-ADP in the ATP synthase of <i>Paracoccus denitrificans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148355.	0.5	13
116	<i>Paracoccus denitrificans</i> : a genetically tractable model system for studying respiratory complex I. <i>Scientific Reports</i> , 2021, 11, 10143.	1.6	12
117	Comment on "Protein assemblies ejected directly from native membranes yield complexes for mass spectrometry". <i>Science</i> , 2019, 366, .	6.0	10
118	Mechanistic Study of Photoelectrochemical Reactions: Phototransient Experiments. <i>The Journal of Physical Chemistry</i> , 1994, 98, 10497-10503.	2.9	8
119	A conserved arginine residue is critical for stabilizing the N2 FeS cluster in mitochondrial complex I. <i>Journal of Biological Chemistry</i> , 2021, 296, 100474.	1.6	7
120	Initial characterization of the ferric H175G cytochrome c peroxidase cavity mutant using magnetic circular dichroism spectroscopy: phosphate from the buffer as an axial ligand. <i>International Congress Series</i> , 2002, 1233, 25-35.	0.2	0