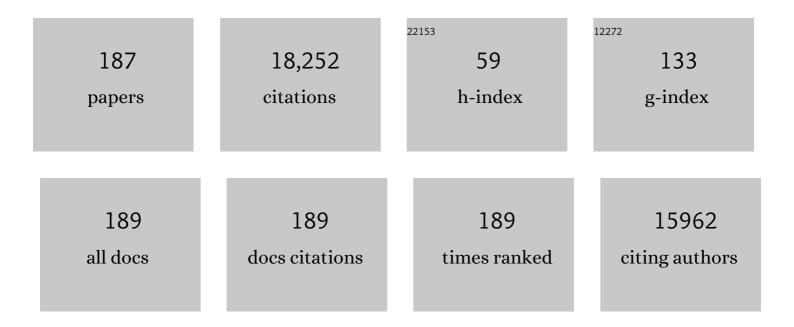
Chris E Cooper

List of Publications by Year in descending order

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CHDIS F COODED

#	Article	IF	CITATIONS
1	Nitric oxide synthases: structure, function and inhibition. Biochemical Journal, 2001, 357, 593-615.	3.7	3,123
2	Nitric oxide synthases: structure, function and inhibition. Biochemical Journal, 2001, 357, 593.	3.7	2,118
3	Association between mitochondrial dysfunction and severity and outcome of septic shock. Lancet, The, 2002, 360, 219-223.	13.7	1,360
4	Nanomolar concentrations of nitric oxide reversibly inhibit synaptosomal respiration by competing with oxygen at cytochrome oxidase. FEBS Letters, 1994, 356, 295-298.	2.8	921
5	The inhibition of mitochondrial cytochrome oxidase by the gases carbon monoxide, nitric oxide, hydrogen cyanide and hydrogen sulfide: chemical mechanism and physiological significance. Journal of Bioenergetics and Biomembranes, 2008, 40, 533-9.	2.3	608
6	Performance Comparison of Several Published Tissue Near-Infrared Spectroscopy Algorithms. Analytical Biochemistry, 1995, 227, 54-68.	2.4	568
7	Nitric oxide and iron proteins. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 290-309.	1.0	451
8	Global Iron-dependent Gene Regulation in Escherichia coli. Journal of Biological Chemistry, 2003, 278, 29478-29486.	3.4	414
9	Mild Hypothermia after Severe Transient Hypoxia-Ischemia Ameliorates Delayed Cerebral Energy Failure in the Newborn Piglet. Pediatric Research, 1995, 37, 667-670.	2.3	368
10	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. Journal of Biological Chemistry, 2003, 278, 48534-48545.	3.4	283
11	Specific Inhibition of Apoptosis after Cerebral Hypoxia-Ischemia by Moderate Post-Insult Hypothermia. Biochemical and Biophysical Research Communications, 1995, 217, 1193-1199.	2.1	272
12	Exercise-Induced Oxidative Stress. Sports Medicine, 2005, 35, 1045-1062.	6.5	255
13	Exercise, free radicals and oxidative stress. Biochemical Society Transactions, 2002, 30, 280-285.	3.4	245
14	A Causative Role for Redox Cycling of Myoglobin and Its Inhibition by Alkalinization in the Pathogenesis and Treatment of Rhabdomyolysis-induced Renal Failure. Journal of Biological Chemistry, 1998, 273, 31731-31737.	3.4	234
15	Nitric oxide inhibition of respiration involves both competitive (heme) and noncompetitive (copper) binding to cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 708-713.	7.1	211
16	Reactions of nitric oxide with mitochondrial cytochrome c: a novel mechanism for the formation of nitroxyl anion and peroxynitrite. Biochemical Journal, 1998, 332, 9-19.	3.7	196
17	Nitric oxide and cytochrome oxidase: substrate, inhibitor or effector?. Trends in Biochemical Sciences, 2002, 27, 33-39.	7.5	193
18	Nanotransducers in cellular redox signaling: modification of thiols by reactive oxygen and nitrogen species. Trends in Biochemical Sciences, 2002, 27, 489-492.	7.5	178

#	Article	lF	CITATIONS
19	Noninvasive method for measuring local hemoglobin oxygen saturation in tissue using wide gap second derivative near-infrared spectroscopy. Journal of Biomedical Optics, 2005, 10, 034017.	2.6	158
20	Cytochrome bd confers nitric oxide resistance to Escherichia coli. Nature Chemical Biology, 2009, 5, 94-96.	8.0	158
21	The Relationship of Intracellular Iron Chelation to the Inhibition and Regeneration of Human Ribonucleotide Reductase. Journal of Biological Chemistry, 1996, 271, 20291-20299.	3.4	153
22	Nitric oxide regulation of mitochondrial oxygen consumption II: molecular mechanism and tissue physiology. American Journal of Physiology - Cell Physiology, 2007, 292, C1993-C2003.	4.6	145
23	Sulfide inhibition of and metabolism by cytochrome <i>c</i> oxidase. Biochemical Society Transactions, 2013, 41, 1312-1316.	3.4	138
24	Measurement of cytochrome oxidase and mitochondrial energetics by near–infrared spectroscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 669-676.	4.0	136
25	Absolute quantification of deoxyhaemoglobin concentration in tissue near infrared spectroscopy. Physics in Medicine and Biology, 1994, 39, 1295-1312.	3.0	133
26	Interaction of Peroxynitrite with Mitochondrial Cytochrome Oxidase. Journal of Biological Chemistry, 1998, 273, 30961-30972.	3.4	121
27	Increased apoptosis in the cingulate sulcus of newborn piglets following transient hypoxia-ischaemia is related to the degree of high energy phosphate depletion during the insult. Neuroscience Letters, 1994, 181, 121-125.	2.1	120
28	Characterisation of â€~fast' and â€~slow' forms of bovine heart cytochrome-c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1059, 189-207.	1.0	113
29	Tyrosine Residues as Redox Cofactors in Human Hemoglobin. Journal of Biological Chemistry, 2008, 283, 30780-30787.	3.4	109
30	Noninvasive Assessment of Changes in Cytochrome- <i>c</i> Oxidase Oxidation in Human Subjects during Visual Stimulation. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 592-603.	4.3	103
31	Cytochrome c oxidase rapidly metabolises nitric oxide to nitrite. FEBS Letters, 2000, 475, 263-266.	2.8	102
32	Nitric oxide regulation of mitochondrial oxygen consumption I: cellular physiology. American Journal of Physiology - Cell Physiology, 2006, 291, C1225-C1231.	4.6	101
33	Nitric oxide ejects electrons from the binuclear centre of cytochromecoxidase by reacting with oxidised copper: a general mechanism for the interaction of copper proteins with nitric oxide?. FEBS Letters, 1997, 414, 281-284.	2.8	100
34	A Common Mechanism for the Interaction of Nitric Oxide with the Oxidized Binuclear Centre and Oxygen Intermediates of Cytochromec Oxidase. Journal of Biological Chemistry, 1998, 273, 8756-8766.	3.4	98
35	Near-infrared spectroscopy of the brain: relevance to cytochrome oxidase bioenergetics. Biochemical Society Transactions, 1994, 22, 974-980.	3.4	95
36	Ascorbate removes key precursors to oxidative damage by cell-free haemoglobin in vitro and in vivo. Biochemical Journal, 2006, 399, 513-524.	3.7	92

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37	The steady-state kinetics of cytochrome c oxidation by cytochrome oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1017, 187-203.	1.0	91
38	Use of Mitochondrial Inhibitors to Demonstrate That Cytochrome Oxidase Near-Infrared Spectroscopy Can Measure Mitochondrial Dysfunction Noninvasively in the Brain. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 27-38.	4.3	91
39	Performance comparison of the MOXY and PortaMon near-infrared spectroscopy muscle oximeters at rest and during exercise. Journal of Biomedical Optics, 2018, 23, 1.	2.6	90
40	A New Method of Identifying the Site of Tyrosyl Radicals in Proteins. Biophysical Journal, 2004, 87, 582-595.	0.5	87
41	Cytochrome <i>c</i> oxidase: structure, function, and membrane topology of the polypeptide subunits. Biochemistry and Cell Biology, 1991, 69, 586-607.	2.0	86
42	Endogenous Superoxide Production and the Nitrite/Nitrate Ratio Control the Concentration of Bioavailable Free Nitric Oxide in Leaves. Journal of Biological Chemistry, 2004, 279, 24100-24107.	3.4	86
43	Mitochondrial dysfunction in patients with severe sepsis: An EPR interrogation of individual respiratory chain components. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 262-272.	1.0	82
44	Comparative Study of Tyrosine Radicals in Hemoglobin and Myoglobins Treated with Hydrogen Peroxide. Biophysical Journal, 2002, 83, 2845-2855.	0.5	80
45	A Model of Brain Circulation and Metabolism: NIRS Signal Changes during Physiological Challenges. PLoS Computational Biology, 2008, 4, e1000212.	3.2	77
46	Treatment of Phenytoin Toxicity by the Molecular Adsorbents Recirculating System (MARS). Epilepsia, 2003, 44, 265-267.	5.1	74
47	Re-evaluation of the near infrared spectra of mitochondrial cytochrome c oxidase: Implications for non invasive in vivo monitoring of tissues. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1882-1891.	1.0	73
48	The mechanism of formation, structure and physiological relevance of covalent hemoglobin attachment to the erythrocyte membrane. Free Radical Biology and Medicine, 2017, 103, 95-106.	2.9	73
49	Ferryl haem protonation gates peroxidatic reactivity in globins. Biochemical Journal, 2007, 403, 391-395.	3.7	71
50	Cytochrome c oxidase response to changes in cerebral oxygen delivery in the adult brain shows higher brain-specificity than haemoglobin. NeuroImage, 2014, 85, 234-244.	4.2	71
51	Haptoglobin Binding Stabilizes Hemoglobin Ferryl Iron and the Globin Radical on Tyrosine β145. Antioxidants and Redox Signaling, 2013, 18, 2264-2273.	5.4	71
52	Estimation of cerebral blood flow with near infrared spectroscopy and indocyanine green. Lancet, The, 1993, 342, 1425.	13.7	70
53	EPR and Optical Spectroscopic Studies of Met80X Mutants of Yeast Ferricytochromec. Models for Intermediates in the Alkaline Transition. Journal of the American Chemical Society, 2005, 127, 92-99.	13.7	66
54	A new sensitive assay reveals that hemoglobin is oxidatively modified in vivo. Free Radical Biology and Medicine, 2005, 39, 1216-1228.	2.9	64

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55	Nitric oxide and peroxynitrite cause irreversible increases in the Km for oxygen of mitochondrial cytochrome oxidase: in vitro and in vivo studies. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1607, 27-34.	1.0	63
56	The Environment of the Lipoxygenase Iron Binding Site Explored with Novel Hydroxypyridinone Iron Chelators. Journal of Biological Chemistry, 1996, 271, 7965-7972.	3.4	62
57	Peroxidase activity of hemoglobin towards ascorbate and urate: A synergistic protective strategy against toxicity of Hemoglobin-Based Oxygen Carriers (HBOC). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1415-1420.	2.3	62
58	Haptoglobin Binding Stabilizes Hemoglobin Ferryl Iron and the Globin Radical on Tyrosine β145. Antioxidants and Redox Signaling, 2013, 18, 2264-2273.	5.4	62
59	Detection of Nitrosyl Complexes in Human Substantia Nigra, in Relation to Parkinson's Disease. Biochemical and Biophysical Research Communications, 1996, 228, 298-305.	2.1	58
60	The relationship of oxygen delivery to absolute haemoglobin oxygenation and mitochondrial cytochrome oxidase redox state in the adult brain: a near-infrared spectroscopy study. Biochemical Journal, 1998, 332, 627-632.	3.7	57
61	Systematic investigation of changes in oxidized cerebral cytochrome c oxidase concentration during frontal lobe activation in healthy adults. Biomedical Optics Express, 2012, 3, 2550.	2.9	55
62	[12] Electron paramagnetic resonance spectroscopy of iron complexes and iron-containing proteins. Methods in Enzymology, 1993, 227, 353-384.	1.0	49
63	Tryptophan or tyrosine? On the nature of the amino acid radical formed following hydrogen peroxide treatment of cytochrome c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 372-380.	1.0	48
64	Asymmetry of Quadriceps Muscle Oxygenation during Elite Short-Track Speed Skating. Medicine and Science in Sports and Exercise, 2012, 44, 501-508.	0.4	48
65	Fast Reduction of a Copper Center in Laccase by Nitric Oxide and Formation of a Peroxide Intermediate. Journal of the American Chemical Society, 2002, 124, 963-967.	13.7	47
66	Biomarkers of oxidative stress study V: Ozone exposure of rats and its effect on lipids, proteins, and DNA in plasma and urine. Free Radical Biology and Medicine, 2013, 61, 408-415.	2.9	47
67	The pH dependence of naturally occurring low-spin forms of methaemoglobin and metmyoglobin: an EPR study. Biochemical Journal, 2000, 351, 595-605.	3.7	46
68	Measurement of cerebral blood flow during cardiopulmonary bypass with near-infrared spectroscopy. Journal of Thoracic and Cardiovascular Surgery, 1998, 115, 94-102.	0.8	45
69	A New Method for Quantitation of Spin Concentration by EPR Spectroscopy: Application to Methemoglobin and Metmyoglobin. Journal of Magnetic Resonance, 2000, 142, 266-275.	2.1	42
70	Oxidation and reduction of cytochrome oxidase in the neonatal brain observed by in vivo near-infrared spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1366, 291-300.	1.0	41
71	Muscle Oxygen Changes following Sprint Interval Cycling Training in Elite Field Hockey Players. PLoS ONE, 2015, 10, e0120338.	2.5	41
72	Iron speciation at physiological pH in media containing ascorbate and oxygen. British Journal of Nutrition, 1993, 70, 157-169.	2.3	39

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73	Effects of nitric oxide and peroxynitrite on the cytochrome oxidase Km for oxygen: implications for mitochondrial pathology. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1459, 390-396.	1.0	39
74	A Hydrogen-Donating Monohydroxamate Scavenges Ferryl Myoglobin Radicals. Free Radical Research, 1994, 20, 219-227.	3.3	38
75	Time course of the haemodynamic response to visual stimulation in migraine, measured using near-infrared spectroscopy. Cephalalgia, 2012, 32, 621-629.	3.9	37
76	The Radical and Redox Chemistry of Myoglobin and Hemoglobin: From<1> In Vitro 1 Studies to Human Pathology. Antioxidants and Redox Signaling, 2004, 6, 954-966.	5.4	37
77	Competitive, Reversible, Physiological? Inhibition of Mitochondrial Cytochrome Oxidase by Nitric Oxide. IUBMB Life, 2004, 55, 591-597.	3.4	36
78	On the formation, nature, stability and biological relevance of the primary reaction intermediates of myoglobins with hydrogen peroxide. Dalton Transactions, 2005, , 3483.	3.3	36
79	A new method to measure local oxygen consumption in human skeletal muscle during dynamic exercise using near-infrared spectroscopy. Physiological Measurement, 2010, 31, 1257-1269.	2.1	36
80	Non-transferrin-bound iron species in the serum of hypotransferrinaemic mice. Biochimica Et Biophysica Acta - General Subjects, 1992, 1156, 19-26.	2.4	35
81	Brain-metabolite transverse relaxation times in magnetic resonance spectroscopy increase as adenosine triphosphate depletes during secondary energy failure following acute hypoxia-ischaemia in the newborn piglet. Neuroscience Letters, 1994, 182, 201-204.	2.1	35
82	The steady-state mechanism of cytochrome <i>c</i> oxidase: redox interactions between metal centres. Biochemical Journal, 2009, 422, 237-246.	3.7	35
83	Experimental and theoretical comparison of NIR spectroscopy measurements of cerebral hemoglobin changes. Journal of Applied Physiology, 1998, 85, 1915-1921.	2.5	34
84	A dynamic model of nitric oxide inhibition of mitochondrial cytochrome c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 867-876.	1.0	34
85	Differences in Muscle Oxygenation, Perceived Fatigue and Recovery between Long-Track and Short-Track Speed Skating. Frontiers in Physiology, 2016, 7, 619.	2.8	34
86	Structure-Function Investigation of the Interaction of 1- and 2-Substituted 3-Hydroxypyridin-4-ones with 5-Lipoxygenase and Ribonucleotide Reductase. Journal of Biological Chemistry, 2001, 276, 48814-48822.	3.4	33
87	Warm-up effects on muscle oxygenation, metabolism and sprint cycling performance. European Journal of Applied Physiology, 2012, 112, 3129-3139.	2.5	31
88	Reaction of Aplysia limacina metmyoglobin with hydrogen peroxide. Dalton Transactions, 2007, , 840.	3.3	30
89	Underwater near-infrared spectroscopy measurements of muscle oxygenation: laboratory validation and preliminary observations in swimmers and triathletes. Journal of Biomedical Optics, 2014, 19, 127002.	2.6	30
90	A novel copper site in a cyanobacterial metallochaperone. Biochemical Journal, 2004, 378, 293-297.	3.7	29

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91	Transient species involved in catalytic dioxygen/peroxide activation by hemoproteins: possible involvement of protonated Compound I species. Dalton Transactions, 2005, , 3477.	3.3	29
92	The Interactions between Nitric Oxide and Brain Nerve Terminals as Studied by Electron Paramagnetic Resonance. Biochemical and Biophysical Research Communications, 1995, 212, 404-412.	2.1	28
93	Investigation ofin vivomeasurement of cerebral cytochrome-c-oxidase redox changes using near-infrared spectroscopy in patients with orthostatic hypotension. Physiological Measurement, 2007, 28, 199-211.	2.1	28
94	Engineering Tyrosine-Based Electron Flow Pathways in Proteins: The Case of Aplysia Myoglobin. Journal of the American Chemical Society, 2012, 134, 7741-7749.	13.7	27
95	Oxidised low density lipoproteins induce iron release from activated myoglobin. FEBS Letters, 1993, 326, 177-182.	2.8	26
96	Transport of K+ and other cations across phospholipid membranes by nonesterified fatty acids. Journal of Membrane Biology, 1994, 141, 21-8.	2.1	25
97	Interconversion of Fast and Slow Forms of Cytochrome bo from Escherichia coli. Biochemistry, 1995, 34, 6838-6846.	2.5	25
98	Use of Oxonol V as a probe of membrane potential in proteoliposomes containing cytochrome oxidase in the submitochondrial orientation. Biochemistry, 1990, 29, 3859-3865.	2.5	23
99	Interaction of human myeloperoxidase with nitrite. FEBS Letters, 1992, 314, 58-60.	2.8	23
100	Haem, flavin and oxygen interactions in Hmp, a flavohaemoglobin from <i>Escherichia coli</i> . Biochemical Society Transactions, 1994, 22, 709-713.	3.4	23
101	Exogenous ferrous iron is required for the nitric oxide-catalysed destruction of the iron–sulphur centre in adrenodoxin. Biochemical Journal, 2002, 368, 633-639.	3.7	23
102	Protein-Template-Driven Formation of Polynuclear Iron Speciesâ€. Journal of the American Chemical Society, 2004, 126, 496-504.	13.7	23
103	Nitrite binding to globins: linkage isomerism, EPR silence and reductive chemistry. Nitric Oxide - Biology and Chemistry, 2014, 42, 32-39.	2.7	23
104	Engineering tyrosine electron transfer pathways decreases oxidative toxicity in hemoglobin: implications for blood substitute design. Biochemical Journal, 2016, 473, 3371-3383.	3.7	23
105	Comparison of the oxidative reactivity of recombinant fetal and adult human hemoglobin: implications for the design of hemoglobin-based oxygen carriers. Bioscience Reports, 2018, 38, .	2.4	22
106	Free radical in blood: a measure of haemoglobin autoxidation in vivo? â€. Journal of the Chemical Society Perkin Transactions II, 1997, , 2539-2544.	0.9	21
107	The Reactivity of Heme in Biological Systems:  Autocatalytic Formation of Both Tyrosineâ^'Heme and Tryptophanâ^'Heme Covalent Links in a Single Protein Architecture. Biochemistry, 2007, 46, 13269-13278.	2.5	21
108	Computational modelling of the piglet brain to simulate near-infrared spectroscopy and magnetic resonance spectroscopy data collected during oxygen deprivation. Journal of the Royal Society Interface, 2012, 9, 1499-1509.	3.4	20

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109	A Hybrid Multi-Distance Phase and Broadband Spatially Resolved Spectrometer and Algorithm for Resolving Absolute Concentrations of Chromophores in the Near-Infrared Light Spectrum. Advances in Experimental Medicine and Biology, 2010, 662, 169-175.	1.6	20
110	Nitrosyl heme production compared in endotoxemic and hemorrhagic shock. Free Radical Biology and Medicine, 2005, 38, 41-49.	2.9	19
111	Exercise-Induced Oxidative Stress in Overload Training and Tapering. Medicine and Science in Sports and Exercise, 2006, 38, 1335-1341.	0.4	19
112	Engineering tyrosine residues into hemoglobin enhances heme reduction, decreases oxidative stress and increases vascular retention of a hemoglobin based blood substitute. Free Radical Biology and Medicine, 2019, 134, 106-118.	2.9	19
113	Slow (â€~resting') forms of mitochondrial cytochrome c oxidase consist of two kinetically distinct conformations of the binuclear CuBa3 centre — relevance to the mechanism of proton translocation. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1144, 149-160.	1.0	18
114	Assessment of the response of carrot somaclones to Pythium violae, causal agent of cavity spot. Plant Pathology, 2006, 55, 427-432.	2.4	18
115	The pH dependence of naturally occurring low-spin forms of methaemoglobin and metmyoglobin: an EPR study. Biochemical Journal, 2000, 351, 595.	3.7	17
116	The importance of the effect of shear stress on endothelial cells in determining the performance of hemoglobin based oxygen carriers. Biomaterials, 2009, 30, 445-451.	11.4	17
117	Drug cheating at the Olympics: who, what, and why?. Lancet, The, 2012, 380, 21-22.	13.7	17
118	Effect of Race Distance on Muscle Oxygenation in Short-Track Speed Skating. Medicine and Science in Sports and Exercise, 2013, 45, 83-92.	0.4	16
119	Engineering hemoglobin to enable homogenous PEGylation without modifying protein functionality. Biomaterials Science, 2020, 8, 3896-3906.	5.4	16
120	Comparison of Local Adipose Tissue Content and SRS-Derived NIRS Muscle Oxygenation Measurements in 90 Individuals. Advances in Experimental Medicine and Biology, 2010, 662, 177-181.	1.6	16
121	Reactivity of nitric oxide with cytochrome c oxidase: interactions with the binuclear centre and mechanism of inhibition. Journal of Bioenergetics and Biomembranes, 1998, 30, 63-69.	2.3	15
122	Ascorbate peroxidase activity of cytochrome <i>c</i> . Free Radical Research, 2011, 45, 439-444.	3.3	15
123	Radical Producing and Consuming Reactions of Hemoglobin: How Can We Limit Toxicity?. Artificial Organs, 2009, 33, 110-114.	1.9	14
124	A model for the nitric oxide producing nitrite reductase activity of hemoglobin as a function of oxygen saturation. Nitric Oxide - Biology and Chemistry, 2013, 33, 74-80.	2.7	14
125	The Use of Portable NIRS to Measure Muscle Oxygenation and Haemodynamics During a Repeated Sprint Running Test. Advances in Experimental Medicine and Biology, 2013, 789, 185-191.	1.6	14
126	The mechanism of potassium movement across the liposomal membrane. Biochemical and Biophysical Research Communications, 1990, 173, 1008-1012.	2.1	13

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127	Morphological and biochemical response of carrots to Pythium violae, causative agent of Cavity Spot. Physiological and Molecular Plant Pathology, 2004, 64, 27-35.	2.5	13
128	Modelling Blood Flow and Metabolism in the Preclinical Neonatal Brain during and Following Hypoxic-Ischaemia. PLoS ONE, 2015, 10, e0140171.	2.5	13
129	High- and low-affinity PEGylated hemoglobin-based oxygen carriers: Differential oxidative stress in a Guinea pig transfusion model. Free Radical Biology and Medicine, 2018, 124, 299-310.	2.9	13
130	The effect of ferredoxin(BED) overexpression on benzene dioxygenase activity in Pseudomonas putida ML2. Journal of Bacteriology, 1994, 176, 2507-2512.	2.2	12
131	The Cytochrome Oxidase Redox State in Vivo. Advances in Experimental Medicine and Biology, 1997, 428, 449-456.	1.6	12
132	Control of proteoliposomal cytochrome <i>c</i> oxidase: the overall reaction. Biochemistry and Cell Biology, 1990, 68, 1128-1134.	2.0	11
133	Interactions of cytochrome c oxidase with nitric oxide: reactions of the â€~turnover' intermediates. Biochemical Society Transactions, 1997, 25, 905-909.	3.4	11
134	NMR spectroscopy and imaging of the neonatal brain. Biochemical Society Transactions, 2000, 28, 121-126.	3.4	11
135	NIRS Measurements with Elite Speed Skaters: Comparison Between the Ice Rink and the Laboratory. Advances in Experimental Medicine and Biology, 2013, 765, 81-86.	1.6	11
136	Development of a Model to Aid NIRS Data Interpretation: Results from a Hypercapnia Study in Healthy Adults. Advances in Experimental Medicine and Biology, 2012, 737, 293-300.	1.6	11
137	Structure and vectorial properties of proteoliposomes containing cytochrome oxidase in the submitochondrial orientation. Biochemistry, 1990, 29, 3865-3871.	2.5	10
138	The biochemistry of drugs and doping methods used to enhance aerobic sport performance. Essays in Biochemistry, 2008, 44, 63-84.	4.7	10
139	A Wide Gap Second Derivative NIR Spectroscopic Method for Measuring Tissue Hemoglobin Oxygen Saturation. Advances in Experimental Medicine and Biology, 2006, 578, 217-222.	1.6	9
140	Muscle Oxygen Saturation Measured Using "Cyclic NIR Signals―During Exercise. Advances in Experimental Medicine and Biology, 2010, 662, 183-189.	1.6	9
141	Using Portable NIRS to Compare Arm and Leg Muscle Oxygenation During Roller Skiing in Biathletes: A Case Study. Advances in Experimental Medicine and Biology, 2013, 789, 179-184.	1.6	9
142	Radical Formation and Migration in Myoglobins. Progress in Reaction Kinetics and Mechanism, 2003, 28, 105-118.	2.1	8
143	Nitrite and nitrate reduction by molybdenum centers of the nitrate reductase type: Computational predictions on the catalytic mechanism. Nitric Oxide - Biology and Chemistry, 2012, 26, 27-31.	2.7	8
144	Nitrogen dioxide oxidizes mitochondrial cytochrome c. Free Radical Biology and Medicine, 2012, 52, 80-87.	2.9	8

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145	Effects of Assuming Constant Optical Scattering on Haemoglobin Concentration Measurements Using NIRS during a Valsalva Manoeuvre. Advances in Experimental Medicine and Biology, 2011, 701, 15-20.	1.6	8
146	Reactions of Cross-Linked Methaemoglobins with Hydrogen Peroxide. Advances in Experimental Medicine and Biology, 1999, 471, 9-15.	1.6	8
147	Antioxidant drugs and the inhibition of low-density lipoprotein oxidation. Biochemical Society Transactions, 1993, 21, 362-366.	3.4	7
148	The electron paramagnetic resonance characterisation of a copper-containing extracellular peroxidase from Thermomonospora fusca BD25. BBA - Proteins and Proteomics, 1999, 1434, 74-85.	2.1	7
149	Modelling of Mitochondrial Oxygen Consumption and NIRS Detection of Cytochrome Oxidase Redox State. Advances in Experimental Medicine and Biology, 2010, 662, 285-291.	1.6	7
150	Underwater near-infrared spectroscopy can measure training adaptations in adolescent swimmers. PeerJ, 2018, 6, e4393.	2.0	7
151	Effects of subunit V antibodies on the topology of the subunit and the activity of beef heart cytochrome-c oxidase. Biochemistry and Cell Biology, 1988, 66, 1210-1217.	2.0	6
152	A Quantitative Approach to Nitric Oxide Inhibition of Terminal Oxidases of the Respiratory Chain. Methods in Enzymology, 2008, 437, 135-159.	1.0	6
153	Use of a Hybrid Optical Spectrometer for the Measurement of Changes in Oxidized Cytochrome c Oxidase Concentration and Tissue Scattering During Functional Activation. Advances in Experimental Medicine and Biology, 2012, 737, 119-124.	1.6	6
154	Activity of proteoliposomes containing cytochrome oxidase in the submitochondrial orientation. FEBS Letters, 1987, 223, 155-160.	2.8	5
155	Effects of antibodies to intact cytochrome-c oxidase and its subunit V on the enzymatic activity. Biochemistry and Cell Biology, 1988, 66, 1218-1225.	2.0	5
156	Non-Invasive measurements of mitochondrial damage during neonatal hypoxia-Ischaemia - a role for nitric oxide?. Biochemical Society Transactions, 1997, 25, 398S-398S.	3.4	5
157	Modelling Noninvasively Measured Cerebral Signals during a Hypoxemia Challenge: Steps towards Individualised Modelling. PLoS ONE, 2012, 7, e38297.	2.5	5
158	Steady State Redox Levels in Cytochrome Oxidase: Relevance for in Vivo Near Infrared Spectroscopy (Nirs). Advances in Experimental Medicine and Biology, 2009, 645, 123-128.	1.6	5
159	Modeling Hemoglobin Nitrite Reductase Activity as a Mechanism of Hypoxic Vasodilation?. Advances in Experimental Medicine and Biology, 2013, 789, 361-368.	1.6	5
160	A comparison of nitric oxide and hydrogen sulphide interactions with mitochondrial cytochrome c oxidase. Nitric Oxide - Biology and Chemistry, 2012, 27, S11-S12.	2.7	4
161	The reaction of oxyhemoglobin with nitric oxide: EPR evidence for an iron(III)-nitrate intermediate. Inorganica Chimica Acta, 2015, 436, 179-183.	2.4	4
162	Stability of Maleimide-PEG and Mono-Sulfone-PEG Conjugation to a Novel Engineered Cysteine in the Human Hemoglobin Alpha Subunit. Frontiers in Chemistry, 2021, 9, 707797.	3.6	4

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163	NIRS-Detected Changes in the Motor Cortex During Mental Rehearsal of Physical Activity (Imaginary) Tj ETQq1	1 0.784314	rg _f BT /Overlo
164	Bicuculline-Induced Seizures: A Challenge for Optical and Biochemical Modeling of the Cytochrome Oxidase CuA Nirs Signal. Advances in Experimental Medicine and Biology, 2009, 645, 129-134.	1.6	4
165	Can Mitochondrial Cytochrome Oxidase Mediate Hypoxic Vasodilation Via Nitric Oxide Metabolism?. Advances in Experimental Medicine and Biology, 2013, 765, 231-238.	1.6	4
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