

Chris E Cooper

List of Publications by Year in descending order

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187
papers

18,252
citations

22153

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189
times ranked

15962
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of Maleimide-PEG and Mono-Sulfone-PEG Conjugation to a Novel Engineered Cysteine in the Human Hemoglobin Alpha Subunit. <i>Frontiers in Chemistry</i> , 2021, 9, 707797.	3.6	4
2	Engineering hemoglobin to enable homogenous PEGylation without modifying protein functionality. <i>Biomaterials Science</i> , 2020, 8, 3896-3906.	5.4	16
3	Engineering tyrosine residues into hemoglobin enhances heme reduction, decreases oxidative stress and increases vascular retention of a hemoglobin based blood substitute. <i>Free Radical Biology and Medicine</i> , 2019, 134, 106-118.	2.9	19
4	Comparison of the oxidative reactivity of recombinant fetal and adult human hemoglobin: implications for the design of hemoglobin-based oxygen carriers. <i>Bioscience Reports</i> , 2018, 38, .	2.4	22
5	High- and low-affinity PEGylated hemoglobin-based oxygen carriers: Differential oxidative stress in a Guinea pig transfusion model. <i>Free Radical Biology and Medicine</i> , 2018, 124, 299-310.	2.9	13
6	Performance comparison of the MOXY and PortaMon near-infrared spectroscopy muscle oximeters at rest and during exercise. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	90
7	Underwater near-infrared spectroscopy can measure training adaptations in adolescent swimmers. <i>PeerJ</i> , 2018, 6, e4393.	2.0	7
8	The mechanism of formation, structure and physiological relevance of covalent hemoglobin attachment to the erythrocyte membrane. <i>Free Radical Biology and Medicine</i> , 2017, 103, 95-106.	2.9	73
9	Differences in Muscle Oxygenation, Perceived Fatigue and Recovery between Long-Track and Short-Track Speed Skating. <i>Frontiers in Physiology</i> , 2016, 7, 619.	2.8	34
10	Engineering tyrosine electron transfer pathways decreases oxidative toxicity in hemoglobin: implications for blood substitute design. <i>Biochemical Journal</i> , 2016, 473, 3371-3383.	3.7	23
11	Hemoglobin Effects on Nitric Oxide Mediated Hypoxic Vasodilation. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 121-127.	1.6	3
12	Modelling Blood Flow and Metabolism in the Preclinical Neonatal Brain during and Following Hypoxic-Ischaemia. <i>PLoS ONE</i> , 2015, 10, e0140171.	2.5	13
13	Muscle Oxygen Changes following Sprint Interval Cycling Training in Elite Field Hockey Players. <i>PLoS ONE</i> , 2015, 10, e0120338.	2.5	41
14	The reaction of oxyhemoglobin with nitric oxide: EPR evidence for an iron(III)-nitrate intermediate. <i>Inorganica Chimica Acta</i> , 2015, 436, 179-183.	2.4	4
15	Is artificial blood safe for vampires to eat?. <i>Biochemist</i> , 2015, 37, 10-13.	0.5	0
16	Re-evaluation of the near infrared spectra of mitochondrial cytochrome c oxidase: Implications for non invasive in vivo monitoring of tissues. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1882-1891.	1.0	73
17	Underwater near-infrared spectroscopy measurements of muscle oxygenation: laboratory validation and preliminary observations in swimmers and triathletes. <i>Journal of Biomedical Optics</i> , 2014, 19, 127002.	2.6	30
18	Nitrite binding to globins: linkage isomerism, EPR silence and reductive chemistry. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 42, 32-39.	2.7	23

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19	Cytochrome c oxidase response to changes in cerebral oxygen delivery in the adult brain shows higher brain-specificity than haemoglobin. <i>NeuroImage</i> , 2014, 85, 234-244.	4.2	71
20	Modelling Blood Flow and Metabolism in the Piglet Brain During Hypoxia-Ischaemia: Simulating Brain Energetics. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 339-344.	1.6	3
21	Biomarkers of oxidative stress study V: Ozone exposure of rats and its effect on lipids, proteins, and DNA in plasma and urine. <i>Free Radical Biology and Medicine</i> , 2013, 61, 408-415.	2.9	47
22	Modulating hemoglobin nitrite reductase activity through allostery: A mathematical model. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 35, 193-198.	2.7	3
23	Sulfide inhibition of and metabolism by cytochrome c oxidase. <i>Biochemical Society Transactions</i> , 2013, 41, 1312-1316.	3.4	138
24	A model for the nitric oxide producing nitrite reductase activity of hemoglobin as a function of oxygen saturation. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 33, 74-80.	2.7	14
25	Effect of Race Distance on Muscle Oxygenation in Short-Track Speed Skating. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 83-92.	0.4	16
26	NIRS Measurements with Elite Speed Skaters: Comparison Between the Ice Rink and the Laboratory. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 81-86.	1.6	11
27	The Use of Portable NIRS to Measure Muscle Oxygenation and Haemodynamics During a Repeated Sprint Running Test. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 185-191.	1.6	14
28	Can Mitochondrial Cytochrome Oxidase Mediate Hypoxic Vasodilation Via Nitric Oxide Metabolism?. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 231-238.	1.6	4
29	Using Portable NIRS to Compare Arm and Leg Muscle Oxygenation During Roller Skiing in Biathletes: A Case Study. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 179-184.	1.6	9
30	Modeling Hemoglobin Nitrite Reductase Activity as a Mechanism of Hypoxic Vasodilation?. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 361-368.	1.6	5
31	Haptoglobin Binding Stabilizes Hemoglobin Ferryl Iron and the Globin Radical on Tyrosine \hat{I}^{2145} . <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2264-2273.	5.4	62
32	Haptoglobin Binding Stabilizes Hemoglobin Ferryl Iron and the Globin Radical on Tyrosine \hat{I}^{2145} . <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2264-2273.	5.4	71
33	Asymmetry of Quadriceps Muscle Oxygenation during Elite Short-Track Speed Skating. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 501-508.	0.4	48
34	Computational modelling of the piglet brain to simulate near-infrared spectroscopy and magnetic resonance spectroscopy data collected during oxygen deprivation. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1499-1509.	3.4	20
35	Time course of the haemodynamic response to visual stimulation in migraine, measured using near-infrared spectroscopy. <i>Cephalgia</i> , 2012, 32, 621-629.	3.9	37
36	Systematic investigation of changes in oxidized cerebral cytochrome c oxidase concentration during frontal lobe activation in healthy adults. <i>Biomedical Optics Express</i> , 2012, 3, 2550.	2.9	55

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37	Drug cheating at the Olympics: who, what, and why?. <i>Lancet, The</i> , 2012, 380, 21-22.	13.7	17
38	Engineering Tyrosine-Based Electron Flow Pathways in Proteins: The Case of Aplysia Myoglobin. <i>Journal of the American Chemical Society</i> , 2012, 134, 7741-7749.	13.7	27
39	Nitrite and nitrate reduction by molybdenum centers of the nitrate reductase type: Computational predictions on the catalytic mechanism. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 26, 27-31.	2.7	8
40	A comparison of nitric oxide and hydrogen sulphide interactions with mitochondrial cytochrome c oxidase. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 27, S11-S12.	2.7	4
41	Modelling Noninvasively Measured Cerebral Signals during a Hypoxemia Challenge: Steps towards Individualised Modelling. <i>PLoS ONE</i> , 2012, 7, e38297.	2.5	5
42	Warm-up effects on muscle oxygenation, metabolism and sprint cycling performance. <i>European Journal of Applied Physiology</i> , 2012, 112, 3129-3139.	2.5	31
43	Nitrogen dioxide oxidizes mitochondrial cytochrome c. <i>Free Radical Biology and Medicine</i> , 2012, 52, 80-87.	2.9	8
44	Use of a Hybrid Optical Spectrometer for the Measurement of Changes in Oxidized Cytochrome c Oxidase Concentration and Tissue Scattering During Functional Activation. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 119-124.	1.6	6
45	Development of a Model to Aid NIRS Data Interpretation: Results from a Hypercapnia Study in Healthy Adults. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 293-300.	1.6	11
46	Ascorbate peroxidase activity of cytochrome c. <i>Free Radical Research</i> , 2011, 45, 439-444.	3.3	15
47	Effects of Assuming Constant Optical Scattering on Haemoglobin Concentration Measurements Using NIRS during a Valsalva Manoeuvre. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 15-20.	1.6	8
48	A new method to measure local oxygen consumption in human skeletal muscle during dynamic exercise using near-infrared spectroscopy. <i>Physiological Measurement</i> , 2010, 31, 1257-1269.	2.1	36
49	Muscle Oxygen Saturation Measured Using Cyclic NIR Signals During Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 183-189.	1.6	9
50	A Hybrid Multi-Distance Phase and Broadband Spatially Resolved Spectrometer and Algorithm for Resolving Absolute Concentrations of Chromophores in the Near-Infrared Light Spectrum. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 169-175.	1.6	20
51	Comparison of Local Adipose Tissue Content and SRS-Derived NIRS Muscle Oxygenation Measurements in 90 Individuals. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 177-181.	1.6	16
52	Modelling of Mitochondrial Oxygen Consumption and NIRS Detection of Cytochrome Oxidase Redox State. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 285-291.	1.6	7
53	Multi-Wavelength, Depth Resolved, Scattering and Pathlength Corrected in-vivo Near-Infrared Spectroscopy of Brain Tissue. , 2010, , .		3
54	Cytochrome bd confers nitric oxide resistance to Escherichia coli. <i>Nature Chemical Biology</i> , 2009, 5, 94-96.	8.0	158

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55	Radical Producing and Consuming Reactions of Hemoglobin: How Can We Limit Toxicity?. <i>Artificial Organs</i> , 2009, 33, 110-114.	1.9	14
56	The importance of the effect of shear stress on endothelial cells in determining the performance of hemoglobin based oxygen carriers. <i>Biomaterials</i> , 2009, 30, 445-451.	11.4	17
57	The steady-state mechanism of cytochrome <i>c</i> oxidase: redox interactions between metal centres. <i>Biochemical Journal</i> , 2009, 422, 237-246.	3.7	35
58	Steady State Redox Levels in Cytochrome Oxidase: Relevance for in Vivo Near Infrared Spectroscopy (Nirs). <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 123-128.	1.6	5
59	Bicuculline-Induced Seizures: A Challenge for Optical and Biochemical Modeling of the Cytochrome Oxidase CuA Nirs Signal. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 129-134.	1.6	4
60	The inhibition of mitochondrial cytochrome oxidase by the gases carbon monoxide, nitric oxide, hydrogen cyanide and hydrogen sulfide: chemical mechanism and physiological significance. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 533-9.	2.3	608
61	Peroxidase activity of hemoglobin towards ascorbate and urate: A synergistic protective strategy against toxicity of Hemoglobin-Based Oxygen Carriers (HBOC). <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1415-1420.	2.3	62
62	A dynamic model of nitric oxide inhibition of mitochondrial cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 867-876.	1.0	34
63	Tyrosine Residues as Redox Cofactors in Human Hemoglobin. <i>Journal of Biological Chemistry</i> , 2008, 283, 30780-30787.	3.4	109
64	A Model of Brain Circulation and Metabolism: NIRS Signal Changes during Physiological Challenges. <i>PLoS Computational Biology</i> , 2008, 4, e1000212.	3.2	77
65	A Quantitative Approach to Nitric Oxide Inhibition of Terminal Oxidases of the Respiratory Chain. <i>Methods in Enzymology</i> , 2008, 437, 135-159.	1.0	6
66	The biochemistry of drugs and doping methods used to enhance aerobic sport performance. <i>Essays in Biochemistry</i> , 2008, 44, 63-84.	4.7	10
67	A Hybrid Multi-Distance Phase and Broadband Spatially Resolved Algorithm for Resolving Absolute Concentrations of Chromophores in the Near-Infrared Light Spectrum: Results from Studies in Dynamic Phantoms. , 2008, , .		3
68	Drugs and ergogenic aids to improve sport performance. <i>Essays in Biochemistry</i> , 2008, 44, 1-10.	4.7	4
69	Nitric oxide regulation of mitochondrial oxygen consumption II: molecular mechanism and tissue physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1993-C2003.	4.6	145
70	Investigation of in vivo measurement of cerebral cytochrome-c-oxidase redox changes using near-infrared spectroscopy in patients with orthostatic hypotension. <i>Physiological Measurement</i> , 2007, 28, 199-211.	2.1	28
71	Ferryl haem protonation gates peroxidatic reactivity in globins. <i>Biochemical Journal</i> , 2007, 403, 391-395.	3.7	71
72	The Reactivity of Heme in Biological Systems: Autocatalytic Formation of Both Tyrosine-Heme and Tryptophan-Heme Covalent Links in a Single Protein Architecture. <i>Biochemistry</i> , 2007, 46, 13269-13278.	2.5	21

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73	Reaction of <i>Aplysia limacina</i> metmyoglobin with hydrogen peroxide. <i>Dalton Transactions</i> , 2007, , 840.	3.3	30
74	A Wide Gap Second Derivative NIR Spectroscopic Method for Measuring Tissue Hemoglobin Oxygen Saturation. <i>Advances in Experimental Medicine and Biology</i> , 2006, 578, 217-222.	1.6	9
75	Mitochondrial dysfunction in patients with severe sepsis: An EPR interrogation of individual respiratory chain components. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 262-272.	1.0	82
76	Exercise-Induced Oxidative Stress in Overload Training and Tapering. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 1335-1341.	0.4	19
77	Ascorbate removes key precursors to oxidative damage by cell-free haemoglobin in vitro and in vivo. <i>Biochemical Journal</i> , 2006, 399, 513-524.	3.7	92
78	Assessment of the response of carrot somaclones to <i>Pythium violae</i> , causal agent of cavity spot. <i>Plant Pathology</i> , 2006, 55, 427-432.	2.4	18
79	Nitric oxide regulation of mitochondrial oxygen consumption I: cellular physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C1225-C1231.	4.6	101
80	Nitric oxide inhibition of respiration involves both competitive (heme) and noncompetitive (copper) binding to cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 708-713.	7.1	211
81	NIRS-Detected Changes in the Motor Cortex During Mental Rehearsal of Physical Activity (Imaginary) Tj ETQq1 1 0.784314 rgBT /Over		
82	NIRS-Detected Changes in the Arm During Mental Rehearsal of Physical Activity (Imaginary Exercise). , 2006, 578, 191-196.		1
83	Near Infrared Spectroscopy as a Non-Invasive Assessment of Cortical Abnormality in Migraine?. , 2006, 578, 203-208.		3
84	Nitrosyl heme production compared in endotoxemic and hemorrhagic shock. <i>Free Radical Biology and Medicine</i> , 2005, 38, 41-49.	2.9	19
85	A new sensitive assay reveals that hemoglobin is oxidatively modified in vivo. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1216-1228.	2.9	64
86	On the formation, nature, stability and biological relevance of the primary reaction intermediates of myoglobins with hydrogen peroxide. <i>Dalton Transactions</i> , 2005, , 3483.	3.3	36
87	Transient species involved in catalytic dioxygen/peroxide activation by hemoproteins: possible involvement of protonated Compound I species. <i>Dalton Transactions</i> , 2005, , 3477.	3.3	29
88	EPR and Optical Spectroscopic Studies of Met80X Mutants of Yeast Ferricytochromec. Models for Intermediates in the Alkaline Transition. <i>Journal of the American Chemical Society</i> , 2005, 127, 92-99.	13.7	66
89	Exercise-Induced Oxidative Stress. <i>Sports Medicine</i> , 2005, 35, 1045-1062.	6.5	255
90	Noninvasive method for measuring local hemoglobin oxygen saturation in tissue using wide gap second derivative near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2005, 10, 034017.	2.6	158

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91	Endogenous Superoxide Production and the Nitrite/Nitrate Ratio Control the Concentration of Bioavailable Free Nitric Oxide in Leaves. <i>Journal of Biological Chemistry</i> , 2004, 279, 24100-24107.	3.4	86
92	Competitive, Reversible, Physiological? Inhibition of Mitochondrial Cytochrome Oxidase by Nitric Oxide. <i>IUBMB Life</i> , 2004, 55, 591-597.	3.4	36
93	Protein-Template-Driven Formation of Polynuclear Iron Species. <i>Journal of the American Chemical Society</i> , 2004, 126, 496-504.	13.7	23
94	A New Method of Identifying the Site of Tyrosyl Radicals in Proteins. <i>Biophysical Journal</i> , 2004, 87, 582-595.	0.5	87
95	Tryptophan or tyrosine? On the nature of the amino acid radical formed following hydrogen peroxide treatment of cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1655, 372-380.	1.0	48
96	Morphological and biochemical response of carrots to <i>Pythium violae</i> , causative agent of Cavity Spot. <i>Physiological and Molecular Plant Pathology</i> , 2004, 64, 27-35.	2.5	13
97	A novel copper site in a cyanobacterial metallochaperone. <i>Biochemical Journal</i> , 2004, 378, 293-297.	3.7	29
98	The Radical and Redox Chemistry of Myoglobin and Hemoglobin: From <i>In Vitro</i> Studies to Human Pathology. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 954-966.	5.4	37
99	Treatment of Phenytoin Toxicity by the Molecular Adsorbents Recirculating System (MARS). <i>Epilepsia</i> , 2003, 44, 265-267.	5.1	74
100	Nitric oxide and peroxynitrite cause irreversible increases in the Km for oxygen of mitochondrial cytochrome oxidase: in vitro and in vivo studies. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1607, 27-34.	1.0	63
101	Global Iron-dependent Gene Regulation in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 29478-29486.	3.4	414
102	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 48534-48545.	3.4	283
103	Radical Formation and Migration in Myoglobins. <i>Progress in Reaction Kinetics and Mechanism</i> , 2003, 28, 105-118.	2.1	8
104	Exogenous ferrous iron is required for the nitric oxide-catalysed destruction of the iron-sulphur centre in adrenodoxin. <i>Biochemical Journal</i> , 2002, 368, 633-639.	3.7	23
105	Exercise, free radicals and oxidative stress. <i>Biochemical Society Transactions</i> , 2002, 30, 280-285.	3.4	245
106	Fast Reduction of a Copper Center in Laccase by Nitric Oxide and Formation of a Peroxide Intermediate. <i>Journal of the American Chemical Society</i> , 2002, 124, 963-967.	13.7	47
107	Association between mitochondrial dysfunction and severity and outcome of septic shock. <i>Lancet</i> , 2002, 360, 219-223.	13.7	1,360
108	Comparative Study of Tyrosine Radicals in Hemoglobin and Myoglobins Treated with Hydrogen Peroxide. <i>Biophysical Journal</i> , 2002, 83, 2845-2855.	0.5	80

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109	Nitric oxide and cytochrome oxidase: substrate, inhibitor or effector?. Trends in Biochemical Sciences, 2002, 27, 33-39.	7.5	193
110	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
111	Nitric oxide synthases: structure, function and inhibition. Biochemical Journal, 2001, 357, 593.	3.7	2,118
112	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
113	Nitric oxide synthases: structure, function and inhibition. Biochemical Journal, 2001, 357, 593-615.	3.7	3,123
114	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
115	NMR spectroscopy and imaging of the neonatal brain. Biochemical Society Transactions, 2000, 28, 121-126.	3.4	11
116	The pH dependence of naturally occurring low-spin forms of methaemoglobin and metmyoglobin: an EPR study. Biochemical Journal, 2000, 351, 595.	3.7	17
117	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
118	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
119	Cytochrome c oxidase rapidly metabolises nitric oxide to nitrite. FEBS Letters, 2000, 475, 263-266.	2.8	102
120	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
121	Noninvasive Assessment of Changes in Cytochrome-c Oxidase Oxidation in Human Subjects during Visual Stimulation. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 592-603.	4.3	103
122	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
123	Nitric oxide and iron proteins. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 290-309.	1.0	451
124	Reactions of Cross-Linked Methaemoglobins with Hydrogen Peroxide. Advances in Experimental Medicine and Biology, 1999, 471, 9-15.	1.6	8
125	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
126	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

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127	Oxidation and reduction of cytochrome oxidase in the neonatal brain observed by in vivo near-infrared spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1366, 291-300.	1.0	41
128	A Common Mechanism for the Interaction of Nitric Oxide with the Oxidized Binuclear Centre and Oxygen Intermediates of Cytochromec Oxidase. <i>Journal of Biological Chemistry</i> , 1998, 273, 8756-8766.	3.4	98
129	A Causative Role for Redox Cycling of Myoglobin and Its Inhibition by Alkalinization in the Pathogenesis and Treatment of Rhabdomyolysis-induced Renal Failure. <i>Journal of Biological Chemistry</i> , 1998, 273, 31731-31737.	3.4	234
130	Interaction of Peroxynitrite with Mitochondrial Cytochrome Oxidase. <i>Journal of Biological Chemistry</i> , 1998, 273, 30961-30972.	3.4	121
131	Reactions of nitric oxide with mitochondrial cytochrome c: a novel mechanism for the formation of nitroxyl anion and peroxynitrite. <i>Biochemical Journal</i> , 1998, 332, 9-19.	3.7	196
132	The relationship of oxygen delivery to absolute haemoglobin oxygenation and mitochondrial cytochrome oxidase redox state in the adult brain: a near-infrared spectroscopy study. <i>Biochemical Journal</i> , 1998, 332, 627-632.	3.7	57
133	Experimental and theoretical comparison of NIR spectroscopy measurements of cerebral hemoglobin changes. <i>Journal of Applied Physiology</i> , 1998, 85, 1915-1921.	2.5	34
134	Peroxynitrite Reacts with Methemoglobin to Generate Globin-Bound Free Radical Species. <i>Advances in Experimental Medicine and Biology</i> , 1998, 454, 195-202.	1.6	3
135	Interactions of cytochrome c oxidase with nitric oxide: reactions of the "turnover" intermediates. <i>Biochemical Society Transactions</i> , 1997, 25, 905-909.	3.4	11
136	Reactions of Ntric Oxide with Cytochrome <i>c</i> Oxidase. <i>Biochemical Society Transactions</i> , 1997, 25, 383S-383S.	3.4	0
137	Non-Invasive measurements of mitochondrial damage during neonatal hypoxia-Ischaemia - a role for nitric oxide?. <i>Biochemical Society Transactions</i> , 1997, 25, 398S-398S.	3.4	5
138	Does carbon monoxide inhibit cytochrome oxidase in vivo?. <i>Biochemical Society Transactions</i> , 1997, 25, 406S-406S.	3.4	1
139	Nitric Oxide Reacts With Mitochondrial Cytochrome c. <i>Biochemical Society Transactions</i> , 1997, 25, 407S-407S.	3.4	3
140	Free radical in blood: a measure of haemoglobin autoxidation in vivo? <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 2539-2544.	0.9	21
141	Measurement of cytochrome oxidase and mitochondrial energetics by near-infrared spectroscopy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 669-676.	4.0	136
142	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?. <i>FEBS Letters</i> , 1997, 414, 281-284.	2.8	100
143	The Cytochrome Oxidase Redox State in Vivo. <i>Advances in Experimental Medicine and Biology</i> , 1997, 428, 449-456.	1.6	12
144	Detection of Nitrosyl Complexes in Human Substantia Nigra, in Relation to Parkinson's Disease. <i>Biochemical and Biophysical Research Communications</i> , 1996, 228, 298-305.	2.1	58

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145	Free fatty acids as modulators of cytochrome c oxidase activity. <i>Biochemical Society Transactions</i> , 1996, 24, 451S-451S.	3.4	2
146	The Relationship of Intracellular Iron Chelation to the Inhibition and Regeneration of Human Ribonucleotide Reductase. <i>Journal of Biological Chemistry</i> , 1996, 271, 20291-20299.	3.4	153
147	The Environment of the Lipoxygenase Iron Binding Site Explored with Novel Hydroxypyridinone Iron Chelators. <i>Journal of Biological Chemistry</i> , 1996, 271, 7965-7972.	3.4	62
148	Performance Comparison of Several Published Tissue Near-Infrared Spectroscopy Algorithms. <i>Analytical Biochemistry</i> , 1995, 227, 54-68.	2.4	568
149	Mild Hypothermia after Severe Transient Hypoxia-Ischemia Ameliorates Delayed Cerebral Energy Failure in the Newborn Piglet. <i>Pediatric Research</i> , 1995, 37, 667-670.	2.3	368
150	Interconversion of Fast and Slow Forms of Cytochrome bo from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1995, 34, 6838-6846.	2.5	25
151	The Interactions between Nitric Oxide and Brain Nerve Terminals as Studied by Electron Paramagnetic Resonance. <i>Biochemical and Biophysical Research Communications</i> , 1995, 212, 404-412.	2.1	28
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