

# James Peterson

## List of Publications by Year in descending order

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80  
papers

2,546  
citations

172457

29  
h-index

197818

49  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peroxidase Activity and Structural Transitions of Cytochrome c Bound to Cardiolipin-Containing Membranes. <i>Biochemistry</i> , 2006, 45, 4998-5009.	2.5	346
2	Environmental toxicology of hydrogen sulfide. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 71, 1-13.	2.7	192
3	Cardiolipin Switch in Mitochondria: Shutting off the Reduction of Cytochrome c and Turning on the Peroxidase Activity. <i>Biochemistry</i> , 2007, 46, 3423-3434.	2.5	189
4	The Catabolic Fate of Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2002, 277, 13556-13562.	3.4	92
5	A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. <i>Nature Communications</i> , 2011, 2, 497.	12.8	91
6	Reversal of Cyanide Inhibition of Cytochrome c Oxidase by the Auxiliary Substrate Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2003, 278, 52139-52145.	3.4	80
7	A spectroscopic investigation of the structure and redox properties of Escherichia coli cytochrome b-562. <i>BBA - Proteins and Proteomics</i> , 1985, 829, 83-96.	2.1	76
8	Identification of Respiratory Complexes I and III as Mitochondrial Sites of Damage Following Exposure to Ionizing Radiation and Nitric Oxide. <i>Nitric Oxide - Biology and Chemistry</i> , 2001, 5, 128-136.	2.7	73
9	Topography of tyrosine residues and their involvement in peroxidation of polyunsaturated cardiolipin in cytochrome c/cardiolipin peroxidase complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2147-2155.	2.6	64
10	Differing roles of mitochondrial nitric oxide synthase in cardiomyocytes and urothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H13-H21.	3.2	62
11	Observation and Interpretation of Temperature-Dependent Valence Delocalization in the [2Fe-2S]-Cluster of a Ferredoxin from Clostridium pasteurianum. <i>Journal of the American Chemical Society</i> , 1999, 121, 3704-3714.	13.7	57
12	Mitochondrial Targeting of a Catalase Transgene Product by Plasmid Liposomes Increases Radioresistance <i>In Vitro</i> and <i>In Vivo</i> . <i>Radiation Research</i> , 2009, 171, 588-595.	1.5	53
13	Magnetization of fast and slow oxidized cytochrome c oxidase. <i>Biochemistry</i> , 1993, 32, 7855-7860.	2.5	47
14	The Peroxynitrite Reductase Activity of Cytochrome c Oxidase Involves a Two-electron Redox Reaction at the Heme a <sub>3</sub> -Cu <sub>B</sub> Site. <i>Journal of Biological Chemistry</i> , 1999, 274, 35763-35767.	3.4	44
15	Nitrosative stress results in irreversible inhibition of purified mitochondrial complexes I and III without modification of cofactors. <i>Nitric Oxide - Biology and Chemistry</i> , 2005, 13, 254-263.	2.7	44
16	The Structure of the Cytochrome a <sub>3</sub> -Cu <sub>B</sub> Site of Mammalian Cytochrome c Oxidase as probed by MCD and EPR Spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 1985, 23, 187-197.	3.5	40
17	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. <i>Free Radical Biology and Medicine</i> , 2014, 71, 221-230.	2.9	40
18	On the preparation and Mossbauer properties of some heme peptides of cytochrome c. <i>Journal of Inorganic Biochemistry</i> , 1983, 19, 165-178.	3.5	39

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19	Saturation magnetization of ureases from <i>Klebsiella aerogenes</i> and jack bean: no evidence for exchange coupling between the two active site nickel ions in the native enzymes. <i>Inorganic Chemistry</i> , 1993, 32, 634-638.	4.0	39
20	The case of the missing NO- hemoglobin: Spectral changes suggestive of heme redox reactions reflect changes in NO- heme geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12087-12092.	7.1	39
21	The purification and Mössbauer parameters of the haem undecapeptide of cytochrome c. <i>Journal of Inorganic Biochemistry</i> , 1980, 13, 75-82.	3.5	37
22	Acute, Sublethal Cyanide Poisoning in Mice Is Ameliorated by Nitrite Alone: Complications Arising from Concomitant Administration of Nitrite and Thiosulfate as an Antidotal Combination. <i>Chemical Research in Toxicology</i> , 2011, 24, 1104-1112.	3.3	36
23	A comparative study of the low-temperature magnetic circular dichroism spectra of horse heart metmyoglobin and bovine liver catalase derivatives. <i>BBA - Proteins and Proteomics</i> , 1983, 742, 648-658.	2.1	35
24	Magnetization of the sulfite and nitrite complexes of oxidized sulfite and nitrite reductases: EPR silent spin $S = 1/2$ states. <i>Biochemistry</i> , 1988, 27, 2126-2132.	2.5	34
25	Identification of the axial heme ligands of cytochrome b <sub>556</sub> in succinate: Ubiquinone oxidoreductase from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1994, 355, 155-156.	2.8	33
26	Mössbauer, EPR, and MCD studies of the C9S and C42S variants of <i>Clostridium pasteurianum</i> rubredoxin and MCD studies of the wild-type protein. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 475-487.	2.6	32
27	Spectroscopic and magnetochemical studies on the active site copper complex in galactose oxidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2000, 8, 3-15.	1.8	31
28	Magnetic circular dichroism spectra of soybean leghaemoglobin a at room temperature and 4.2 K. <i>BBA - Proteins and Proteomics</i> , 1983, 742, 637-647.	2.1	30
29	Characterization of N-Acetylated Heme Undecapeptide and Some of Its Derivatives in Aqueous Media: A Monomeric Model System for Hemoproteins. <i>Inorganic Chemistry</i> , 1996, 35, 6885-6891.	4.0	29
30	Antagonism of Nitric Oxide Toward the Inhibition of Cytochrome c Oxidase by Carbon Monoxide and Cyanide. <i>Chemical Research in Toxicology</i> , 2008, 21, 2073-2081.	3.3	29
31	A study of the electron transfer properties of the heme undecapeptide from cytochrome c by 1H nmr spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 1981, 15, 11-25.	3.5	27
32	Glutathione depletion renders rat hepatocytes sensitive to nitric oxide donor-mediated toxicity. <i>Hepatology</i> , 2005, 42, 598-607.	7.3	27
33	Internal Electron Transfer between Hemes and Cu(II) Bound at Cysteine 293 Promotes Methemoglobin Reduction by Carbon Monoxide. <i>Journal of Biological Chemistry</i> , 1999, 274, 5499-5507.	3.4	26
34	Magnetic Circular Dichroism Study of the All-Ferrous [4Fe-4S] Cluster of the Fe-Protein of <i>Azotobacter vinelandii</i> Nitrogenase. <i>Journal of the American Chemical Society</i> , 1998, 120, 9704-9705.	13.7	25
35	Identification of axial ligands of cytochrome c <sub>552</sub> from <i>Nitrosomonas europaea</i> . <i>FEBS Letters</i> , 1994, 342, 217-220.	2.8	23
36	The resistance of electron-transport chain Fe-S clusters to oxidative damage during the reaction of peroxynitrite with mitochondrial complex II and rat-heart pericardium. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 20, 135-142.	2.7	23

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37	Comparison of the Relative Propensities of Isoamyl Nitrite and Sodium Nitrite to Ameliorate Acute Cyanide Poisoning in Mice and a Novel Antidotal Effect Arising from Anesthetics. <i>Chemical Research in Toxicology</i> , 2013, 26, 828-836.	3.3	23
38	Antagonism of Acute Sulfide Poisoning in Mice by Nitrite Anion without Methemoglobinemia. <i>Chemical Research in Toxicology</i> , 2015, 28, 1398-1408.	3.3	21
39	Metabolic Adaptation of Macrophages as Mechanism of Defense against Crystalline Silica. <i>Journal of Immunology</i> , 2021, 207, 1627-1640.	0.8	17
40	THE ELECTROCHROMIC BEHAVIOUR OF LANTHANIDE BISPHTHALOCYANINES: THE ANOMALOUS NATURE OF THE GREEN LUTETIUM SPECIES. <i>Journal of Coordination Chemistry</i> , 1993, 30, 357-366.	2.2	16
41	Structural Re-arrangement and Peroxidase Activation of Cytochrome c by Anionic Analogues of Vitamin E, Tocopherol Succinate and Tocopherol Phosphate. <i>Journal of Biological Chemistry</i> , 2014, 289, 32488-32498.	3.4	15
42	Monomeric ferric heme peptide derivatives: Model systems for hemoproteins. <i>Journal of Inorganic Biochemistry</i> , 1995, 60, 267-276.	3.5	14
43	Covalent Modifications of Hemoglobin by Nitrite Anion: Formation Kinetics and Properties of Nitrihemoglobin. <i>Chemical Research in Toxicology</i> , 2010, 23, 1786-1795.	3.3	14
44	Oxygen binding to partially nitrosylated hemoglobin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1894-1900.	2.3	14
45	Metallothionein-induced zinc partitioning exacerbates hyperoxic acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L350-L360.	2.9	14
46	Characterization of heme c peptides by mass spectrometry. <i>Journal of Inorganic Biochemistry</i> , 1993, 52, 201-207.	3.5	13
47	THE ELECTROCHROMIC BEHAVIOUR OF LANTHANIDE BISPHTHALOCYANINES: THE ACID-BASE NATURE OF THE MECHANISM. <i>Journal of Coordination Chemistry</i> , 1993, 28, 23-31.	2.2	12
48	Cyanide Scavenging by a Cobalt Schiff-Base Macrocyclic: A Cost-Effective Alternative to Corrinoids. <i>Chemical Research in Toxicology</i> , 2016, 29, 1011-1019.	3.3	12
49	Identification of heme macrocycle type by near-infrared magnetic circular dichroism spectroscopy at cryogenic temperatures. <i>FEBS Letters</i> , 1992, 309, 157-160.	2.8	11
50	Metalloporphyrin CoIII-TMPyP Ameliorates Acute, Sublethal Cyanide Toxicity in Mice. <i>Chemical Research in Toxicology</i> , 2012, 25, 2678-2686.	3.3	11
51	Magnetization of manganese superoxide dismutase from <i>Thermus thermophilus</i> . <i>BBA - Proteins and Proteomics</i> , 1991, 1079, 161-168.	2.1	10
52	Relative Propensities of Cytochrome c Oxidase and Cobalt Corrinoids for Reaction with Cyanide and Oxygen: Implications for Amelioration of Cyanide Toxicity. <i>Chemical Research in Toxicology</i> , 2017, 30, 2197-2208.	3.3	9
53	The reduction of haem peptides by dithionite. A kinetic investigation. <i>Inorganica Chimica Acta</i> , 1987, 135, 101-107.	2.4	8
54	Function and regulation of mitochondrially produced nitric oxide in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H11-H12.	3.2	8

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55	A Comparison of the Cyanide-Scavenging Capabilities of Some Cobalt-Containing Complexes in Mice. <i>Chemical Research in Toxicology</i> , 2018, 31, 259-268.	3.3	8
56	A Comparison of Potential Azide Antidotes in a Mouse Model. <i>Chemical Research in Toxicology</i> , 2020, 33, 594-603.	3.3	8
57	A carbon monoxide irreducible form of cytochrome c oxidase and other unusual properties of the monomeric shark enzyme. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1996, 114, 345-352.	1.6	7
58	The Alkaline Transition of Bis(N-acetylated) Heme Undecapeptide. <i>Inorganic Chemistry</i> , 1998, 37, 4654-4661.	4.0	7
59	A mitochondrial role for catabolism of nitric oxide in cardiomyocytes not involving oxymyoglobin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H55-H58.	3.2	7
60	Effect of Ascorbate on the Cyanide-Scavenging Capability of Cobalt(III) meso-Tetra(4-N-methylpyridyl)porphine Pentaiodide: Deactivation by Reduction?. <i>Chemical Research in Toxicology</i> , 2016, 29, 270-278.	3.3	7
61	A Cobalt Schiff-Base Complex as a Putative Therapeutic for Azide Poisoning. <i>Chemical Research in Toxicology</i> , 2020, 33, 333-342.	3.3	7
62	Antimicrobial Synergism Toward <i>Pseudomonas aeruginosa</i> by Gallium(III) and Inorganic Nitrite. <i>Frontiers in Microbiology</i> , 2020, 11, 2113.	3.5	7
63	The use of near-infrared charge-transfer transitions of low-spin ferric chlorins in axial ligand assignment. <i>FEBS Letters</i> , 1994, 356, 159-161.	2.8	6
64	Visible Region Magnetic Linear Dichroism Spectra of Ferrocycytochromec and Deoxymyoglobin: Demonstration of a New Tool for the Study of Metalloproteins. <i>Journal of the American Chemical Society</i> , 1999, 121, 5972-5980.	13.7	6
65	Peer Reviewed: Resolving Molecular Electronic Spectra Using Magnetic Linear Dichroism.. <i>Analytical Chemistry</i> , 2002, 74, 527 A-533 A.	6.5	6
66	l-Arginine is a Radioprotector for Hematopoietic Progenitor Cells. <i>Radiation Research</i> , 2011, 177, 792.	1.5	6
67	Spectral and Cyanide Binding Properties of the Cytochrome aa <sub>3</sub> (600 nm) Complex from <i>Bacillus subtilis</i> . <i>Archives of Biochemistry and Biophysics</i> , 1998, 350, 273-282.	3.0	5
68	Sulfide Toxicity and Its Modulation by Nitric Oxide in Bovine Pulmonary Artery Endothelial Cells. <i>Chemical Research in Toxicology</i> , 2017, 30, 2100-2109.	3.3	5
69	Reaction Kinetics of Cyanide Binding to a Cobalt Schiff-Base Macrocycle Relevant to Its Mechanism of Antidotal Action. <i>Chemical Research in Toxicology</i> , 2019, 32, 1630-1637.	3.3	4
70	Antidotal Action of Some Gold(I) Complexes toward Phosphine Toxicity. <i>Chemical Research in Toxicology</i> , 2019, 32, 1310-1316.	3.3	4
71	Assessing modulators of cytochrome c oxidase activity in <i>Galleria mellonella</i> larvae. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019, 219, 77-86.	2.6	4
72	Development and experimental verification of a theory for high-field, ultralow-temperature magnetic linear dichroism of glasses containing molecular chromophores with spin doublet ground states. <i>Journal of Chemical Physics</i> , 1999, 111, 7512-7518.	3.0	3

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73	Manganese Superoxide Dismutase is not Protective in Bovine Pulmonary Artery Endothelial Cells at Systemic Oxygen Levels. <i>Radiation Research</i> , 2010, 174, 679-690.	1.5	3
74	Photolytic studies on cytochrome <i>c</i> peroxidase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Society Transactions</i> , 1985, 13, 625-626.	3.4	2
75	The site of the redox-linked proton pump in eukaryotic cytochromecoxidases. <i>FEBS Letters</i> , 1995, 370, 53-58.	2.8	2
76	Theory for magnetic linear dichroism of electronic transitions between twofold-degenerate molecular spin levels. <i>Journal of Chemical Physics</i> , 1998, 109, 942-950.	3.0	2
77	Visible region MCD and MLD spectra of nitrosylferrohemoglobin and oxyhemoglobin. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 220-223.	2.1	2
78	Manganese and $\alpha$ -epinnglobin in <i>Pinna nobilis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1996, 113, 525-532.	1.6	1
79	Radiation Protection by MnSOD-Plasmid Liposome Gene Therapy. , 2012, , 387-406.		1
80	Resolution of overlapping charge-transfer transitions by a combined absorption-MCD-MLD approach. <i>Chemical Physics Letters</i> , 2002, 365, 164-169.	2.6	0