Jay L Zweier

List of Publications by Year
in descending order

301	23,969	9786 73	8630 146
papers	citations	h-index	g-index

305	305	305	22068
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of Fast Scan EPR for High-Resolution Imaging Using Nitroxide Radical Probes at 1.2ÂGHz. Applied Magnetic Resonance, 2022, 53, 233.	1.2	1
2	Role of cytoglobin in cigarette smoke constituent-induced loss of nitric oxide bioavailability in vascular smooth muscle cells. Nitric Oxide - Biology and Chemistry, 2022, 119, 9-18.	2.7	2
3	Electronic cigarette exposure causes vascular endothelial dysfunction due to NADPH oxidase activation and eNOS uncoupling. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H549-H567.	3.2	25
4	In Situ EPR Spin Trapping and Competition Kinetics Demonstrate Temperature-Dependent Mechanisms of Synergistic Radical Production by Ultrasonically Activated Persulfate. Environmental Science & Technology, 2022, 56, 3729-3738.	10.0	34
5	Electronic Cigarette Exposure Induces Vascular Endothelial Dysfunction with NADPH Oxidase Activation and eNOS Uncoupling. FASEB Journal, 2022, 36, .	0.5	0
6	Role of Human Aldehyde Oxidase in the Generation of Reactive Oxygen Species during the Metabolism of Nicotine. FASEB Journal, 2022, 36, .	0.5	0
7	Chronic Exposure to Electronic Cigarettes Induces Lung Oxidative Stress, Inflammation, Fibrosis, and Impaired DNA Repair. FASEB Journal, 2022, 36, .	0.5	1
8	CD38 Genetic Knockout Confers Marked Protection Against In Vivo Myocardial Ischemia/Reperfusion Injury. FASEB Journal, 2021, 35, .	0.5	0
9	Role of Nicotine and Exposure Duration in the Cardiovascular Toxicity of Electronic Cigarettes and Tobacco Cigarettes in a Longâ€term Mouse Exposure Model. FASEB Journal, 2021, 35, .	0.5	0
10	Mechanism of NO Decay in Vascular Smooth Muscle Cells: Role of Cytoglobin and Identification of its Cellular Reducing System. FASEB Journal, 2021, 35, .	0.5	0
11	Long-term electronic cigarette exposure induces cardiovascular dysfunction similar to tobacco cigarettes: role of nicotine and exposure duration. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H2112-H2129.	3.2	38
12	Development of an Lâ€band resonator optimized for fast scan EPR imaging of the mouse head. Magnetic Resonance in Medicine, 2021, 86, 2316-2327.	3.0	5
13	High fidelity triangular sweep of the magnetic field for millisecond scan EPR imaging. Journal of Magnetic Resonance, 2021, 329, 107024.	2.1	8
14	Serine mutations in overexpressed Hsp27 abrogate the protection against doxorubicin-induced p53-dependent cardiac apoptosis in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H963-H975.	3.2	4
15	Defining the reducing system of the NO dioxygenase cytoglobin in vascular smooth muscle cells and its critical role in regulating cellular NO decay. Journal of Biological Chemistry, 2021, 296, 100196.	3.4	9
16	Characterizing the Neuroimaging and Histopathological Correlates of Cerebral Small Vessel Disease in Spontaneously Hypertensive Stroke-Prone Rats. Frontiers in Neurology, 2021, 12, 740298.	2.4	10
17	Cytoglobin has potent superoxide dismutase function. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
18	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie, 2020, 132, 938-944.	2.0	6

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19	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie - International Edition, 2020, 59, 928-934.	13.8	18
20	Regulation of Nitric Oxide Metabolism and Vascular Tone by Cytoglobin. Antioxidants and Redox Signaling, 2020, 32, 1172-1187.	5.4	28
21	Algebraic reconstruction of 3D spatial EPR images from high numbers of noisy projections: An improved image reconstruction technique for high resolution fast scan EPR imaging. Journal of Magnetic Resonance, 2020, 319, 106812.	2.1	7
22	The novel SOD mimetic GC4419 increases cancer cell killing with sensitization to ionizing radiation while protecting normal cells. Free Radical Biology and Medicine, 2020, 160, 630-642.	2.9	21
23	Whole body electronic cigarette exposure system for efficient evaluation of diverse inhalation conditions and products. Inhalation Toxicology, 2020, 32, 477-486.	1.6	4
24	Chronic cigarette smoke exposure triggers a vicious cycle of leukocyte and endothelial-mediated oxidant stress that results in vascular dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H51-H65.	3.2	27
25	Imbalance in zinc homeostasis enhances lung Tissue Loss following cigarette smoke exposure. Journal of Trace Elements in Medicine and Biology, 2020, 60, 126483.	3.0	11
26	Dioxygen Binding and Sensing Proteins. Antioxidants and Redox Signaling, 2020, 32, 1151-1154.	5.4	1
27	Synergistic, aqueous PAH degradation by ultrasonically-activated persulfate depends on bulk temperature and physicochemical parameters. Ultrasonics Sonochemistry, 2020, 67, 105172.	8.2	38
28	Membrane-specific spin trap, 5-dodecylcarbamoyl-5-N-dodecylacetamide-1-pyroline-N-oxide (diC₁₂PO): theoretical, bioorthogonal fluorescence imaging and EPR studies. Organic and Biomolecular Chemistry, 2019, 17, 7694-7705.	2.8	5
29	Inhibition of CD38 with the Thiazoloquin(az)olin(on)e 78c Protects the Heart against Postischemic Injury. Journal of Pharmacology and Experimental Therapeutics, 2019, 369, 55-64.	2.5	24
30	Preclinical Development of a vWF Aptamer to Limit Thrombosis and Engender Arterial Recanalization of Occluded Vessels. Molecular Therapy, 2019, 27, 1228-1241.	8.2	52
31	Development of a fastâ€scan EPR imaging system for highly accelerated free radical imaging. Magnetic Resonance in Medicine, 2019, 82, 842-853.	3.0	9
32	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6958-6967.	3.3	11
33	Genetic deletion of CD38 confers post-ischemic myocardial protection through preserved pyridine nucleotides. Journal of Molecular and Cellular Cardiology, 2018, 118, 81-94.	1.9	29
34	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6865-6865.	3.3	1
35	A Potent and Specific CD38 Inhibitor Ameliorates Age-Related Metabolic Dysfunction by Reversing Tissue NAD+ Decline. Cell Metabolism, 2018, 27, 1081-1095.e10.	16.2	238
36	Cigarette smoke constituents cause endothelial nitric oxide synthase dysfunction and uncoupling due to depletion of tetrahydrobiopterin with degradation of GTP cyclohydrolase. Nitric Oxide - Biology and Chemistry, 2018, 76, 113-121.	2.7	26

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37	Angiotensin Receptor Expression and Vascular Endothelial Dysfunction in Obstructive Sleep Apnea. American Journal of Hypertension, 2018, 31, 355-361.	2.0	18
38	Characterization of CD38 in the major cell types of the heart: endothelial cells highly express CD38 with activation by hypoxia-reoxygenation triggering NAD(P)H depletion. American Journal of Physiology - Cell Physiology, 2018, 314, C297-C309.	4.6	47
39	Mitochondrial complex I in the post-ischemic heart: reperfusion-mediated oxidative injury and protein cysteine sulfonation. Journal of Molecular and Cellular Cardiology, 2018, 121, 190-204.	1.9	28
40	A Small Animal Model of Ex Vivo Normothermic Liver Perfusion. Journal of Visualized Experiments, 2018, , .	0.3	4
41	Nitro-Triarylmethyl Radical as Dual Oxygen and Superoxide Probe. Cell Biochemistry and Biophysics, 2017, 75, 241-246.	1.8	14
42	Luteolinidin Protects the Postischemic Heart through CD38 Inhibition with Preservation of NAD(P)(H). Journal of Pharmacology and Experimental Therapeutics, 2017, 361, 99-108.	2.5	43
43	Kcnj11 Ablation Is Associated With Increased Nitro-Oxidative Stress During Ischemia-Reperfusion Injury. Circulation: Heart Failure, 2017, 10, .	3.9	6
44	Cytoglobin regulates blood pressure and vascular tone through nitric oxide metabolism in the vascular wall. Nature Communications, 2017, 8, 14807.	12.8	73
45	Oxygen binding and nitric oxide dioxygenase activity of cytoglobin are altered to different extents by cysteine modification. FEBS Open Bio, 2017, 7, 845-853.	2.3	15
46	Synthesis and Characterization of PEGylated Trityl Radicals: Effect of PEGylation on Physicochemical Properties. Journal of Organic Chemistry, 2017, 82, 588-596.	3.2	25
47	Thiol-Dependent Reduction of the Triester and Triamide Derivatives of Finland Trityl Radical Triggers O₂-Dependent Superoxide Production. Chemical Research in Toxicology, 2017, 30, 1664-1672.	3.3	14
48	Role of Dietary Antioxidants in the Preservation of Vascular Function and the Modulation of Health and Disease. Frontiers in Cardiovascular Medicine, 2017, 4, 64.	2.4	62
49	Measurement of Reactive Oxygen Species, Reactive Nitrogen Species, and Redox-Dependent Signaling in the Cardiovascular System. Circulation Research, 2016, 119, e39-75.	4.5	290
50	Trityl radicals in perfluorocarbon emulsions as stable, sensitive, and biocompatible oximetry probes. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5685-5688.	2.2	6
51	Accelerated dynamic EPR imaging using fast acquisition and compressive recovery. Journal of Magnetic Resonance, 2016, 273, 105-112.	2.1	7
52	Sulfite oxidase activity of cytochrome c: Role of hydrogen peroxide. Biochemistry and Biophysics Reports, 2016, 5, 96-104.	1.3	27
53	Poly-arginine conjugated triarylmethyl radical as intracellular spin label. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1742-1744.	2.2	10
54	Supramolecular hostâ€“guest interaction of trityl-nitroxide biradicals with cyclodextrins: modulation of spinâ€“spin interaction and redox sensitivity. Organic and Biomolecular Chemistry, 2016, 14, 1694-1701.	2.8	8

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55	Genetic and hypoxic alterations of the micro <scp>RNA</scp> â€210â€•<scp>ISCU</scp> 1/2 axis promote ironâ€“sulfur deficiency and pulmonary hypertension. EMBO Molecular Medicine, 2015, 7, 695-713.	6.9	120
56	Efficient Dynamic Nuclear Polarization at 800â€…MHz/527â€…GHz with Tritylâ€Nitroxide Biradicals. Angewandte Chemie - International Edition, 2015, 54, 11770-11774.	13.8	172
57	Endothelial nitric oxide synthase uncoupling: A novel pathway in OSA induced vascular endothelial dysfunction. Respiratory Physiology and Neurobiology, 2015, 207, 40-47.	1.6	50
58	Liposomal tetrahydrobiopterin preserves eNOS coupling in the post-ischemic heart conferring in vivo cardioprotection. Journal of Molecular and Cellular Cardiology, 2015, 86, 14-22.	1.9	21
59	Depletion of NADP(H) due to CD38 activation triggers endothelial dysfunction in the postischemic heart. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11648-11653.	7.1	49
60	Silver-Zinc Redox-Coupled Electroceutical Wound Dressing Disrupts Bacterial Biofilm. PLoS ONE, 2015, 10, e0119531.	2.5	56
61	Reoxygenationâ€Derived Toxic Reactive Oxygen/Nitrogen Species Modulate the Contribution of Bone Marrow Progenitor Cells to Remodeling After Myocardial Infarction. Journal of the American Heart Association, 2014, 3, e000471.	3.7	6
62	Fluid Mechanical Forces and Endothelial Mitochondria: A Bioengineering Perspective. Cellular and Molecular Bioengineering, 2014, 7, 483-496.	2.1	30
63	Measurement and Characterization of Superoxide Generation from Xanthine Dehydrogenase: A Redox-Regulated Pathway of Radical Generation in Ischemic Tissues. Biochemistry, 2014, 53, 6615-6623.	2.5	45
64	Compressed sensing of spatial electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 72, 893-901.	3.0	20
65	Effect of temperature, pH and heme ligands on the reduction of Cygb(Fe3+) by ascorbate. Archives of Biochemistry and Biophysics, 2014, 554, 1-5.	3.0	7
66	In Vivo Protonâ€“Electron Double-Resonance Imaging of Extracellular Tumor pH Using an Advanced Nitroxide Probe. Analytical Chemistry, 2014, 86, 1045-1052.	6.5	50
67	Fourier Transform EPR Spectroscopy of Trityl Radicals for Multifunctional Assessment of Chemical Microenvironment. Angewandte Chemie - International Edition, 2014, 53, 2735-2738.	13.8	29
68	Cardiac Mitochondria and Reactive Oxygen Species Generation. Circulation Research, 2014, 114, 524-537.	4.5	449
69	Characterization of the binding of the Finland trityl radical with bovine serum albumin. RSC Advances, 2014, 4, 47649-47656.	3.6	59
70	Hypoxia and Reoxygenation Induce Endothelial Nitric Oxide Synthase Uncoupling in Endothelial Cells through Tetrahydrobiopterin Depletion and S-Glutathionylation. Biochemistry, 2014, 53, 3679-3688.	2.5	95
71	Proton-Electron Double-Resonance Imaging of pH Using Phosphonated Trityl Probe. Applied Magnetic Resonance, 2014, 45, 817-826.	1.2	9
72	Uniform spinning sampling gradient electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 893-900.	3.0	4

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73	Thymoquinone protects against myocardial ischemiaâ€reperfusion injury via modulation of oxidant generation and nuclear factorâ€kappaBâ€mediated responses (1080.1). FASEB Journal, 2014, 28, 1080.1.	0.5	0
74	Fast gated EPR imaging of the beating heart: Spatiotemporally resolved 3D imaging of freeâ€radical distribution during the cardiac cycle. Magnetic Resonance in Medicine, 2013, 69, 594-601.	3.0	13
75	Differences in oxygenâ€dependent nitric oxide metabolism by cytoglobin and myoglobin account for their differing functional roles. FEBS Journal, 2013, 280, 3621-3631.	4.7	50
76	Redox Modulation of Endothelial Nitric Oxide Synthase by Glutaredoxin-1 through Reversible Oxidative Post-Translational Modification. Biochemistry, 2013, 52, 6712-6723.	2.5	59
77	Application of electrode methods in studies of nitric oxide metabolism and diffusion kinetics. Journal of Electroanalytical Chemistry, 2013, 688, 32-39.	3.8	5
78	Esterified Dendritic TAM Radicals with Very High Stability and Enhanced Oxygen Sensitivity. Journal of Organic Chemistry, 2013, 78, 1371-1376.	3.2	30
79	Nitric Oxide Signaling in Biology. Messenger (Los Angeles, Calif: Print), 2013, 2, 1-18.	0.3	7
80	Cardiomyocyte-specific overexpression of an active form of Rac predisposes the heart to increased myocardial stunning and ischemia-reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H294-H302.	3.2	21
81	Cigarette smoke extract causes endothelial nitric oxide synthase dysfunction through Sâ€glutathionylation. FASEB Journal, 2013, 27, 890.11.	0.5	0
82	Thymoquinone enhances coronary flow and reduces infarct size in Langendorffâ€perfused rat hearts through attenuation of inflammatory responce and apoptosis. FASEB Journal, 2013, 27, 652.7.	0.5	0
83	Endothelial nitric oxide synthase Sâ€glutathionylation and Ser1177 phosphorylation modulate myocardial protection. FASEB Journal, 2013, 27, 1191.5.	0.5	0
84	Reciprocal Endothelial NO Synthase (eNOS) Ser1177 Phosphorylation and Thr495 Dephosphorylation is Key for Robust in vivo Cardioprotection: Therapeutic Implication of a Novel Ischemic Preconditioning Stimuli. FASEB Journal, 2013, 27, 1130.9.	0.5	0
85	Cigarette smoke extract causes endothelial nitric oxide synthase dysfunction through stimulation of ubiquitin proteasome system. FASEB Journal, 2013, 27, 654.12.	0.5	1
86	Modulation of myocardial contraction by peroxynitrite. Frontiers in Physiology, 2012, 3, 468.	2.8	15
87	Ischemic preconditioning preserves mitochondrial membrane potential and limits reactive oxygen species production. Journal of Surgical Research, 2012, 178, 8-17.	1.6	18
88	Tetrathiatriarylmethyl radical with a single aromatic hydrogen as a highly sensitive and specific superoxide probe. Free Radical Biology and Medicine, 2012, 53, 2081-2091.	2.9	43
89	Characterization of the Mechanism and Magnitude of Cytoglobin-mediated Nitrite Reduction and Nitric Oxide Generation under Anaerobic Conditions. Journal of Biological Chemistry, 2012, 287, 36623-36633.	3.4	114
90	Aldehyde Oxidase Functions as a Superoxide Generating NADH Oxidase: An Important Redox Regulated Pathway of Cellular Oxygen Radical Formation. Biochemistry, 2012, 51, 2930-2939.	2.5	85

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91	HPLC analysis of tetrahydrobiopterin and its pteridine derivatives using sequential electrochemical and fluorimetric detection: Application to tetrahydrobiopterin autoxidation and chemical oxidation. Archives of Biochemistry and Biophysics, 2012, 520, 7-16.	3.0	28
92	Pulsed ESR Dipolar Spectroscopy for Distance Measurements in Immobilized Spin Labeled Proteins in Liquid Solution. Journal of the American Chemical Society, 2012, 134, 9950-9952.	13.7	179
93	Characterization of the Function of Cytoglobin as an Oxygen-Dependent Regulator of Nitric Oxide Concentration. Biochemistry, 2012, 51, 5072-5082.	2.5	56
94	Mitochondrial fission in endothelial cells after simulated ischemia/reperfusion: role of nitric oxide and reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 348-356.	2.9	96
95	Organ specific mapping of in vivo redox state in control and cigarette smoke-exposed mice using EPR/NMR co-imaging. Journal of Magnetic Resonance, 2012, 216, 21-27.	2.1	29
96	In vivo proton electron double resonance imaging of mice With fast spin echo pulse sequence. Journal of Magnetic Resonance Imaging, 2012, 35, 471-475.	3.4	4
97	Involvement of the Endothelial Nitric Oxide Pathway and Leukocyte Infiltration in Secondhand Smoke Exposureâ€Induced Vascular Endothelial Dysfunction and Hypertension. FASEB Journal, 2012, 26, 866.7.	0.5	1
98	Sodium Nitrite Administered Immediately before Reperfusion Reduces in vivo Myocardial Infarction and Improves Postischemic Cardiac Function: Significance of Critical Dose Response and Safety Margin of Nitrite in Cardioprotection. FASEB Journal, 2012, 26, 1136.6.	0.5	0
99	Potential Proteomic Biomarkers of Secondhand Smokingâ€Induced Cardiovascular Disease. FASEB Journal, 2012, 26, 874.13.	0.5	0
100	Novel Rapidâ€Multipleâ€Shortâ€Cycle Preconditioning Stimuli Induces Robust Cardioprotective Signaling Mechanisms and Protects the Heart against in vivo Ischemia Reperfusion Injury: An Effective Approach with Clinical Justification. FASEB Journal, 2012, 26, 1136.5.	0.5	1
101	S-Glutathionylation Reshapes Our Understanding of Endothelial Nitric Oxide Synthase Uncoupling and Nitric Oxide/Reactive Oxygen Species-Mediated Signaling. Antioxidants and Redox Signaling, 2011, 14, 1769-1775.	5.4	123
102	Synthesis of Trityl Radical-Conjugated Disulfide Biradicals for Measurement of Thiol Concentration. Journal of Organic Chemistry, 2011, 76, 3853-3860.	3.2	38
103	Standard-based method for protonâ€“electron double resonance imaging of oxygen. Journal of Magnetic Resonance, 2011, 212, 197-203.	2.1	9
104	Removal of H2O2 and generation of superoxide radical: Role of cytochrome c and NADH. Free Radical Biology and Medicine, 2011, 51, 160-170.	2.9	53
105	Variable radio frequency protonâ€“electron double-resonance imaging: Application to pH mapping of aqueous samples. Journal of Magnetic Resonance, 2011, 209, 227-232.	2.1	19
106	Identification of differentially expressed proteins in blood plasma of control and cigarette smokeâ€exposed mice by 2â€Ð DIGE/MS. Proteomics, 2011, 11, 2051-2062.	2.2	20
107	Sustained Activation of Nuclear Erythroid 2-Related Factor 2/Antioxidant Response Element Signaling Promotes Reductive Stress in the Human Mutant Protein Aggregation Cardiomyopathy in Mice. Antioxidants and Redox Signaling, 2011, 14, 957-971.	5.4	121
108	Is NOS uncoupling the missing link between atrial fibrillation and chronic non-ischaemic cardiomyopathy? Reply. Cardiovascular Research, 2011, 91, 557-558.	3.8	2

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109	Superoxide Induces Endothelial Nitric-oxide Synthase Protein Thiyl Radical Formation, a Novel Mechanism Regulating eNOS Function and Coupling. Journal of Biological Chemistry, 2011, 286, 29098-29107.	3.4	66
110	Cardiac Resynchronization Therapy and Reverse Molecular Remodeling. Circulation Research, 2011, 109, 716-719.	4.5	16
111	Chronic cigarette smoking causes hypertension, increased oxidative stress, impaired NO bioavailability, endothelial dysfunction, and cardiac remodeling in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H388-H396.	3.2	225
112	Aktâ€•and PKAâ€•mediated endothelial nitric oxide synthase activation triggers early ischemic preconditioning in isolated rat hearts. FASEB Journal, 2011, 25, 1097.14.	0.5	1
113	Role of Endothelial Nitric Oxide Synthase (eNOS) in in vivo Cardioprotection Mediated by Ischemic Preconditioning (IPC) and Ischemic Postconditioning (IPostC) in Mice and Rats. FASEB Journal, 2011, 25, 1033.16.	0.5	0
114	Ischemic Postconditioning (IPostC) Protects the Heart against in vivo Ischemia/Reperfusion (I/R) Injury with Effective Akt and ERK1/2 Activation and Decreased Superoxide Generation. FASEB Journal, 2011, 25, 1097.5.	0.5	0
115	Oxygen regulates the effective diffusion distance of nitric oxide in the aortic wall. Free Radical Biology and Medicine, 2010, 48, 554-559.	2.9	25
116	Variable Field Protonâ€“Electron Double-Resonance Imaging: Application to pH mapping of aqueous samples. Journal of Magnetic Resonance, 2010, 202, 267-273.	2.1	22
117	Dual frequency resonator for 1.2GHz EPR/16.2MHz NMR co-imaging. Journal of Magnetic Resonance, 2010, 205, 1-8.	2.1	14
118	A novel variable field system for field-cycled dynamic nuclear polarization spectroscopy. Journal of Magnetic Resonance, 2010, 205, 202-208.	2.1	9
119	Synthesis, structure, and EPR characterization of deuterated derivatives of Finland trityl radical. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3946-3949.	2.2	41
120	S-glutathionylation uncouples eNOS and regulates its cellular and vascular function. Nature, 2010, 468, 1115-1118.	27.8	507
121	Role of heat shock factor-1 activation in the doxorubicin-induced heart failure in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1832-H1841.	3.2	55
122	eNOS is required for acute in vivo ischemic preconditioning of the heart: effects of ischemic duration and sex. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H437-H445.	3.2	39
123	Fast Reactivity of a Cyclic Nitroneâ^'Calix[4]pyrrole Conjugate with Superoxide Radical Anion: Theoretical and Experimental Studies. Journal of the American Chemical Society, 2010, 132, 17157-17173.	13.7	50
124	Synthesis of ¹⁴N- and ¹⁵N-labeled Trityl-nitroxide Biradicals with Strong Spinâ^'Spin Interaction and Improved Sensitivity to Redox Status and Oxygen. Journal of Organic Chemistry, 2010, 75, 7796-7802.	3.2	58
125	Peroxynitrite Induces Destruction of the Tetrahydrobiopterin and Heme in Endothelial Nitric Oxide Synthase: Transition from Reversible to Irreversible Enzyme Inhibition. Biochemistry, 2010, 49, 3129-3137.	2.5	101
126	Ischemic Postconditioning Does Not Provide Cardioprotection from Long-Term Ischemic Injury in Isolated Male or Female Rat Hearts1. Journal of Surgical Research, 2010, 164, 175-181.	1.6	12

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127	Mechanisms of nitrite reduction to nitric oxide in the heart and vessel wall. Nitric Oxide - Biology and Chemistry, 2010, 22, 83-90.	2.7	110
128	Application of carbon fiber composite minielectrodes for measurement of kinetic constants of nitric oxide decay in solution. Nitric Oxide - Biology and Chemistry, 2010, 23, 311-318.	2.7	7
129	Reactive oxygen and nitrogen species regulate inducible nitric oxide synthase function shifting the balance of nitric oxide and superoxide production. Archives of Biochemistry and Biophysics, 2010, 494, 130-137.	3.0	92
130	Trityl-nitroxide biradicals as unique molecular probes for the simultaneous measurement of redox status and oxygenation. Chemical Communications, 2010, 46, 628-630.	4.1	58
131	Mitochondrial Depolarization Is Not responsible for Cardioprotection During Ischemic Preconditioning. FASEB Journal, 2010, 24, 591.11.	0.5	0
132	The Radical Trap 5,5-Dimethyl-1-PyrrolineN-Oxide Exerts Dose-Dependent Protection against Myocardial Ischemia-Reperfusion Injury through Preservation of Mitochondrial Electron Transport. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 515-523.	2.5	48
133	Esterified trityl radicals as intracellular oxygen probes. Free Radical Biology and Medicine, 2009, 46, 876-883.	2.9	55
134	Trityl-based EPR probe with enhanced sensitivity to oxygen. Free Radical Biology and Medicine, 2009, 47, 654-658.	2.9	52
135	Nitrite as regulator of hypoxic signaling in mammalian physiology. Medicinal Research Reviews, 2009, 29, 683-741.	10.5	373
136	Segmented surface coil resonator for in vivo EPR applications at 1.1GHz. Journal of Magnetic Resonance, 2009, 198, 8-14.	2.1	12
137	Targeting calcium transport in ischaemic heart disease. Cardiovascular Research, 2009, 84, 345-352.	3.8	90
138	Regulation of FMN Subdomain Interactions and Function in Neuronal Nitric Oxide Synthase. Biochemistry, 2009, 48, 3864-3876.	2.5	48
139	Characterization of the Magnitude and Mechanism of Aldehyde Oxidase-mediated Nitric Oxide Production from Nitrite. Journal of Biological Chemistry, 2009, 284, 33850-33858.	3.4	104
140	NADPH Plays a Critical Role in Modulating Endothelial Dysfunction in the Postâ€ischemic Heart.. FASEB Journal, 2009, 23, 793.22.	0.5	0
141	Cigarette smoke exposure doseâ€dependently alters the activity and coupling of endothelial nitric oxide synthase in the endothelium.. FASEB Journal, 2009, 23, 628.21.	0.5	0
142	Aldehyde oxidase catalyzes nitrite reduction: An important nitric oxide producing pathway during ischemia. FASEB Journal, 2009, 23, 502.15.	0.5	1
143	A loop resonator for slice-selective in vivo EPR imaging in rats. Journal of Magnetic Resonance, 2008, 190, 124-134.	2.1	26
144	Nitric Oxide Diffusion Rate is Reduced in the Aortic Wall. Biophysical Journal, 2008, 94, 1880-1889.	0.5	37

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145	Synthesis and Characterization of Amino Derivatives of Persistent Trityl Radicals as Dual Function pH and Oxygen Paramagnetic Probes. Journal of the American Chemical Society, 2008, 130, 10780-10787.	13.7	58
146	Superoxide Radical Anion Adduct of 5,5-Dimethyl-1-pyrroline N-Oxide. 4. Conformational Effects on the EPR Hyperfine Splitting Constants. Journal of Physical Chemistry A, 2008, 112, 12607-12615.	2.5	26
147	Dose dependent effects of reactive oxygen and nitrogen species on the function of neuronal nitric oxide synthase. Archives of Biochemistry and Biophysics, 2008, 471, 126-133.	3.0	47
148	Highly stable dendritic trityl radicals as oxygen and pH probe. Chemical Communications, 2008, , 4336.	4.1	45
149	Heme proteins mediate the conversion of nitrite to nitric oxide in the vascular wall. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H499-H508.	3.2	96
150	Synthesis and Characterization of Ester-Derivatized Tetrathiatriarylmethyl Radicals as Intracellular Oxygen Probes. Journal of Organic Chemistry, 2008, 73, 1490-1497.	3.2	62
151	Regulation of eNOS-Derived Superoxide by Endogenous Methylarginines. Biochemistry, 2008, 47, 7256-7263.	2.5	98
152	Synthesis and Spin-Trapping Properties of a New Spirolactonyl Nitrone. Journal of Organic Chemistry, 2008, 73, 2533-2541.	3.2	26
153	Nitric Oxide Production from Nitrite Occurs Primarily in Tissues Not in the Blood. Journal of Biological Chemistry, 2008, 283, 17855-17863.	3.4	235
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