

Kazunori Anzai

List of Publications by Year in descending order

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93
papers

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citations

136950

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189892

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times ranked

2989
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#	ARTICLE	IF	CITATIONS
1	Method to Improve Azo-Compound (AAPH)-Induced Hemolysis of Erythrocytes for Assessing Antioxidant Activity of Lipophilic Compounds. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 67-71.	1.3	7
2	In vivo ESR imaging of redox status in mice after X-ray irradiation, measured by acyl-protected hydroxylamine probe, ACP. <i>Free Radical Biology and Medicine</i> , 2020, 160, 596-603.	2.9	2
3	Basic Investigations of Singlet Oxygen Detection Systems with ESR for the Measurement of Singlet Oxygen Quenching Activities. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 150-154.	1.3	13
4	Sonolysis of aqueous solutions under CO ₂ -Ar: ESR study of variation in the number of OH radicals with CO ₂ concentration. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGD05.	1.5	4
5	Formation of reactive oxygen species by irradiation of cold atmospheric pressure plasma jet to water depends on the irradiation distance. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2019, 64, 187-193.	1.4	16
6	Reactivity of redox sensitive paramagnetic nitroxyl contrast agents with reactive oxygen species. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2019, 64, 13-19.	1.4	3
7	Effect of amifostine, a radiation-protecting drug, on oxygen concentration in tissue measured by EPR oximetry and imaging. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2017, 60, 151-155.	1.4	14
8	Density of Hydroxyl Radicals Generated in an Aqueous Solution by Irradiating Carbon-Ion Beam. <i>Chemical and Pharmaceutical Bulletin</i> , 2015, 63, 195-199.	1.3	28
9	Scavenging of reactive oxygen species induced by hyperthermia in biological fluid. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2014, 54, 75-80.	1.4	4
10	Gamma-tocopherol-N,N-dimethylglycine ester as a potent post-irradiation mitigator against whole body X-irradiation-induced bone marrow death in mice. <i>Journal of Radiation Research</i> , 2014, 55, 67-74.	1.6	13
11	Lineal energy-based evaluation of oxidative DNA damage induced by proton beams and X-rays. <i>International Journal of Radiation Biology</i> , 2013, 89, 36-43.	1.8	15
12	Kinetics and Mechanism for the Scavenging Reaction of the 2,2-Diphenyl-1-picrylhydrazyl Radical by Synthetic Artepillin C Analogues. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 877-883.	3.2	6
13	Spin-Trapping Reactions of a Novel Gauchetype Radical Trapper G-CYPMPO. <i>Analytical Chemistry</i> , 2011, 83, 9600-9604.	6.5	41
14	Edaravone containing isoindoline nitroxides for the potential treatment of cardiovascular ischaemia. <i>MedChemComm</i> , 2011, 2, 436.	3.4	27
15	Vitamin E-Deficiency Did Not Exacerbate Partial Skin Reactions in Mice Locally Irradiated with X-rays. <i>Journal of Radiation Research</i> , 2011, 52, 32-38.	1.6	5
16	Fukushima Daiichi Nuclear Power Plant accident: facts, environmental contamination, possible biological effects, and countermeasures. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2011, 50, 2-8.	1.4	39
17	Temperature-dependent free radical reaction in water. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2011, 50, 40-46.	1.4	13
18	Synthesis and Enhanced Radical Scavenging Activity of a Conformationally Constrained Epigallocatechin Analogue. <i>Chemistry Letters</i> , 2011, 40, 1417-1419.	1.3	7

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19	Stratum Corneum Lipid of Hairless Mouse Investigated by EPR. Applied Magnetic Resonance, 2011, 40, 557-565.	1.2	5
20	Neurocytotoxic effects of iron-ions on the developing brain measured in vivo using medaka (<i>Oryzias latipes</i>), a vertebrate model. International Journal of Radiation Biology, 2011, 87, 915-922.	1.8	9
21	Brain Redox Imaging. Methods in Molecular Biology, 2011, 711, 397-419.	0.9	21
22	EPR Investigation of Radical-Production Cross Sections for Sucrose and L-alanine Irradiated with X-rays and Heavy-ions. Applied Magnetic Resonance, 2010, 39, 285-293.	1.2	6
23	Stratum Corneum Lipid Structure Investigated by EPR Spin-Probe Method: Application of Terpenes. Lipids, 2010, 45, 1081-1087.	1.7	7
24	Distribution of Hydrogen Peroxide-dependent Reaction in a Gelatin Sample Irradiated by Carbon Ion Beam. Magnetic Resonance in Medical Sciences, 2010, 9, 131-140.	2.0	9
25	Vascular Homeostasis Regulators, Edn1 and Agpt2, are Upregulated as a Protective Effect of Heat-treated Zinc Yeast in Irradiated Murine Bone Marrow. Journal of Radiation Research, 2010, 51, 519-525.	1.6	2
26	Live Imaging of Radiation-Induced Apoptosis by Yolk Injection of Acridine Orange in the Developing Optic Tectum of Medaka. Journal of Radiation Research, 2009, 50, 487-494.	1.6	13
27	Visualization of free radical reactions in an aqueous sample irradiated by 290 MeV carbon beam. Magnetic Resonance in Medicine, 2009, 61, 1033-1039.	3.0	15
28	Cranial irradiation-induced inhibition of neurogenesis in hippocampal dentate gyrus of adult mice: attenuation by melatonin pretreatment. Journal of Pineal Research, 2009, 46, 71-78.	7.4	82
29	Nitroxyl Radicals for Labeling of Conventional Therapeutics and Noninvasive Magnetic Resonance Imaging of Their Permeability for Blood-Brain Barrier: Relationship between Structure, Blood Clearance, and MRI Signal Dynamic in the Brain. Molecular Pharmaceutics, 2009, 6, 504-512.	4.6	62
30	Modification of Mortality and Tumorigenesis by Tocopherol-mono-glucoside (TMG) Administered after X Irradiation in Mice and Rats. Radiation Research, 2009, 172, 519-524.	1.5	17
31	Intracellular and Extracellular Redox Environments Surrounding Redox-Sensitive Contrast Agents under Oxidative Atmosphere. Biological and Pharmaceutical Bulletin, 2009, 32, 535-541.	1.4	9
32	Detection of Free Radical Reactions in an Aqueous Sample Induced by Low Linear-Energy-Transfer Irradiation. Biological and Pharmaceutical Bulletin, 2009, 32, 542-547.	1.4	14
33	Sucrose radical-production cross-section regarding heavy-ion irradiation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 1384-1387.	3.9	10
34	Modification of nitroxyl contrast agents with multiple spins and their proton T1 relaxivity. Magnetic Resonance Imaging, 2008, 26, 117-121.	1.8	17
35	Melatonin mitigates oxidative damage and apoptosis in mouse cerebellum induced by high-LET ⁵⁶ Fe particle irradiation. Journal of Pineal Research, 2008, 44, 189-196.	7.4	45
36	Space radiation-induced inhibition of neurogenesis in the hippocampal dentate gyrus and memory impairment in mice: ameliorative potential of the melatonin metabolite, AFMK. Journal of Pineal Research, 2008, 45, 430-438.	7.4	92

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37	Memory impairment, oxidative damage and apoptosis induced by space radiation: Ameliorative potential of α -lipoic acid. <i>Behavioural Brain Research</i> , 2008, 187, 387-395.	2.2	98
38	A SEC-HPLC-ICP MS hyphenated technique for identification of sulfur-containing arsenic metabolites in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 874, 64-76.	2.3	32
39	Enhanced radical-scavenging activity of naturally-oriented artemisinin C derivatives. <i>Chemical Communications</i> , 2008, , 626-628.	4.1	10
40	Heat-Treated Mineral-Yeast as a Potent Post-irradiation Radioprotector. <i>Journal of Radiation Research</i> , 2008, 49, 425-430.	1.6	12
41	Impact of arsenic in foodstuffs on the people living in the arsenic-affected areas of West Bengal, India. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 1741-1752.	1.7	36
42	Involvement of Electron Transfer in the Radical-scavenging Reaction of Resveratrol. <i>Chemistry Letters</i> , 2007, 36, 1276-1277.	1.3	31
43	Scandium Ion-accelerated Scavenging Reaction of Cumylperoxyl Radical by a Cyclic Nitroxyl Radical via Electron Transfer. <i>Chemistry Letters</i> , 2007, 36, 378-379.	1.3	9
44	Effect of Solvent Polarity on the One-electron Oxidation of Cyclic Nitroxyl Radicals. <i>Chemistry Letters</i> , 2007, 36, 914-915.	1.3	8
45	Radiation-induced cognitive dysfunction and cerebellar oxidative stress in mice: Protective effect of α -lipoic acid. <i>Behavioural Brain Research</i> , 2007, 177, 7-14.	2.2	80
46	Nitroxyl radicals: electrochemical redox behaviour and structure-activity relationships. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3951.	2.8	41
47	Comparisons of EPR imaging and T1-weighted MRI for efficient imaging of nitroxyl contrast agents. <i>Journal of Magnetic Resonance</i> , 2007, 187, 155-162.	2.1	12
48	AFMK, a melatonin metabolite, attenuates X-ray-induced oxidative damage to DNA, proteins and lipids in mice. <i>Journal of Pineal Research</i> , 2007, 42, 386-393.	7.4	206
49	Melatonin attenuates radiation-induced learning deficit and brain oxidative stress in mice. <i>Acta Neurobiologiae Experimentalis</i> , 2007, 67, 63-70.	0.7	15
50	In Vivo Nitric Oxide Production and iNOS Expression in X-Ray Irradiated Mouse Skin. <i>Biological and Pharmaceutical Bulletin</i> , 2006, 29, 348-353.	1.4	14
51	Comparison of stable nitroxide, 3-substituted 2,2,5,5-tetramethylpyrrolidine-N-oxyls, with respect to protection from radiation, prevention of DNA damage, and distribution in mice. <i>Free Radical Biology and Medicine</i> , 2006, 40, 1170-1178.	2.9	15
52	Quantitative Measurements of Oxidative Stress in Mouse Skin Induced by X-Ray Irradiation. <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 1411-1415.	1.3	19
53	Biting reduces acute stress-induced oxidative stress in the rat hypothalamus. <i>Redox Report</i> , 2005, 10, 19-24.	4.5	26
54	In Vivo Radioprotection of Mice by 3-Methyl-1-phenyl-2-pyrazolin-5-one (Edaravone; Radicut [®]), a Clinical Drug. <i>Journal of Radiation Research</i> , 2004, 45, 319-323.	1.6	50

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55	Speciation of arsenic in biological samples. <i>Toxicology and Applied Pharmacology</i> , 2004, 198, 307-318.	2.8	156
56	Pharmacokinetic study of acyl-protected hydroxylamine probe, 1-acetoxy-3-carbamoyl-2,2,5,5-tetramethylpyrrolidine, for in vivo measurements of reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2004, 36, 517-525.	2.9	11
57	In vivo monitoring of hydroxyl radical generation caused by x-ray irradiation of rats using the spin trapping/epr technique. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1134-1143.	2.9	60
58	Dimethylthioarsenicals as Arsenic Metabolites and Their Chemical Preparations. <i>Chemical Research in Toxicology</i> , 2004, 17, 914-921.	3.3	101
59	Assessment of Oxidative Stress in the Spontaneously Hypertensive Rat Brain Using Electron Spin Resonance (ESR) Imaging and in Vivo L-Band ESR. <i>Hypertension Research</i> , 2004, 27, 485-492.	2.7	59
60	Assessment of ESR-CT imaging by comparison with autoradiography for the distribution of a blood-brain-barrier permeable spin probe, MC-PROXYL, to rodent brain. <i>Magnetic Resonance Imaging</i> , 2003, 21, 765-772.	1.8	51
61	ESR measurement of rapid penetration of DMPO and DEPMPO spin traps through lipid bilayer membranes. <i>Archives of Biochemistry and Biophysics</i> , 2003, 415, 251-256.	3.0	65
62	ESR Spin Trapping of Hydroxyl Radicals in Aqueous Solution Irradiated with High-LET Carbon-Ion Beams. <i>Radiation Research</i> , 2003, 159, 670-675.	1.5	42
63	Measurement of Oxidative Stress in the Rodent Brain Using Computerized Electron Spin Resonance Tomography. <i>Magnetic Resonance in Medical Sciences</i> , 2003, 2, 79-84.	2.0	22
64	Kinetic study on ESR signal decay of nitroxyl radicals, potent redox probes for in vivo ESR spectroscopy, caused by reactive oxygen species. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1573, 156-164.	2.4	74
65	Non-invasive assessment of oxidative stress in the brain of small animal models by using in vivo electron spin resonance (ESR) imaging system. , 2002, , 562-566.		0
66	Pathophysiological significance of in vivo ESR signal decay in brain damage caused by X-irradiation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1525, 167-172.	2.4	7
67	Quantitative comparison of two types of planar lipid bilayersâ€”folded and paintedâ€”with respect to fusion with vesicles. <i>Journal of Proteomics</i> , 2001, 48, 283-291.	2.4	7
68	Novel Approach to In Vivo Screening for Radioprotective Activity in Whole Mice: In Vivo Electron Spin Resonance Study Probing the Redox Reaction of Nitroxyl. <i>Journal of Radiation Research</i> , 2000, 41, 103-111.	1.6	17
69	Oxidative Modification of Ion Channel Activity of Ryanodine Receptor. <i>Antioxidants and Redox Signaling</i> , 2000, 2, 35-40.	5.4	56
70	Oxidation-Dependent Changes in the Stability and Permeability of Lipid Bilayers. <i>Antioxidants and Redox Signaling</i> , 1999, 1, 339-347.	5.4	29
71	Effects of Hydroxyl Radical and Sulfhydryl Reagents on the Open Probability of the Purified Cardiac Ryanodine Receptor Channel Incorporated into Planar Lipid Bilayers. <i>Biochemical and Biophysical Research Communications</i> , 1998, 249, 938-942.	2.1	74
72	Membrane Permeabilization Mechanisms of a Cyclic Antimicrobial Peptide, Tachyplesin I, and Its Linear Analogâ€. <i>Biochemistry</i> , 1997, 36, 9799-9806.	2.5	130

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73	A novel lipophilic spin probe for the measurement of radiation damage in mouse brain using in vivo electron spin resonance (ESR). <i>FEBS Letters</i> , 1997, 419, 99-102.	2.8	37
74	In Vivo Electron Paramagnetic Resonance Studies on Oxidative Stress Caused by X-Irradiation in Whole Mice. <i>Free Radical Biology and Medicine</i> , 1997, 23, 533-540.	2.9	54
75	Hydroxyl and superoxide anion radical scavenging activities of natural source antioxidants using the computerized JESâ€FR30 ESR spectrometer system. <i>IUBMB Life</i> , 1997, 42, 35-44.	3.4	85
76	A voltage-dependent chloride channel from <i>Tetrahymena</i> ciliary membrane incorporated into planar lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1280, 207-216.	2.6	7
77	Enhanced Membrane-Perturbing Activities of Bundled Amphiphilic α -Helix Polypeptides on Interaction with Phospholipid Bilayer. <i>Bulletin of the Chemical Society of Japan</i> , 1995, 68, 2931-2939.	3.2	9
78	Phosphatidylserine-Specific Transbilayer Lipid Translocation in Synaptosomal Plasma Membranes from <i>Narke japonica</i> . <i>Journal of Biochemistry</i> , 1995, 117, 1232-1237.	1.7	3
79	Two mode ion channels induced by interaction of acidic amphipathic α -helical peptides with lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1191, 181-189.	2.6	11
80	Effect of salts on conformational change of basic amphipathic peptides from α -structure to α -helix in the presence of phospholipid liposomes and their channel-forming ability. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1151, 76-82.	2.6	40
81	Frequent Fusion of Liposomes to a Positively Charged Planar Bilayer without Calcium Ions. <i>Journal of Biochemistry</i> , 1993, 114, 487-491.	1.7	11
82	Formation of ion channels in planar lipid bilayer membranes by synthetic basic peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1064, 256-266.	2.6	52
83	Change in intravesicular volume of liposomes by freeze-thaw treatment as studied by the ESR stopped-flow technique. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1021, 21-26.	2.6	41
84	Rapid determination of internal volumes of membrane vesicles with electron spin resonance-stopped flow technique. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 937, 73-80.	2.6	11
85	Cation Channels from Ciliary Membrane of <i>Tetrahymena</i> Reconstituted into Planar Lipid Bilayer. Comparison between the Channels from the Wild <i>T. Thermophila</i> and from Its Mutant Which Does Not Show Ciliary Reversal. <i>Journal of Biochemistry</i> , 1988, 104, 344-348.	1.7	12
86	Transmembrane electron transfer as catalyzed by poly(ethylenimine)-linked manganese porphyrins. <i>Journal of the American Chemical Society</i> , 1986, 108, 5865-5871.	13.7	33
87	A Kinetic Study of Thermal Rotational Isomerization of 5,10,15,20-Tetrakis(o-aminophenyl)porphyrin and 5,10,15,20-Tetrakis(o-pivaloylaminophenyl)porphyrin. <i>Bulletin of the Chemical Society of Japan</i> , 1985, 58, 3653-3654.	3.2	15
88	Physicochemical properties of the atropisomers of meso-tetra(o-pivalamidophenyl)porphyrin.. <i>Chemical and Pharmaceutical Bulletin</i> , 1984, 32, 1273-1278.	1.3	10
89	A Freeze-Fracture Study of the Aggregation State of Ca ²⁺ , Mg ²⁺ -ATPase of Sarcoplasmic Reticulum in Reconstituted Vesicles at Low and High Temperature. <i>Journal of Biochemistry</i> , 1981, 89, 1403-1409.	1.7	6
90	Synthesis and Kinetic Investigation of the Atropisomerization of meso-Tetra(2-cyanophenyl)porphine. <i>Bulletin of the Chemical Society of Japan</i> , 1981, 54, 3518-3521.	3.2	26

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91	EFFECTS OF TEMPERATURE, NUCLEOTIDES AND METAL CATIONS ON THE STATE OF Ca ²⁺ , Mg ²⁺ -DEPENDENT ATPASE OF SARCOPLASMIC RETICULUM MEMBRANES AS STUDIED BY HYDROGEN-DEUTERIUM EXCHANGE REACTION KINETICS AND SATURATION TRANSFER ELECTRON SPIN RESONANCE. , 1979, , 105-117.		1
92	Temperature-Induced Change in the Ca ²⁺ -Dependent ATPase Activity and in the State of the ATPase Protein of Sarcoplasmic Reticulum Membrane. Journal of Biochemistry, 1978, 84, 815-821.	1.7	44
93	Thermotropic Transition in the States of Proteins in Sarcoplasmic Reticulum Vesicles. Journal of Biochemistry, 1977, 82, 1181-1184.	1.7	17