

Kazuhiro Ichikawa

List of Publications by Year in descending order

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77
papers

1,737
citations

304743

22
h-index

276875

41
g-index

84
all docs

84
docs citations

84
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	Research and development of pre-clinical OMRI. <i>Antioxidants and Redox Signaling</i> , 2022, , .	5.4	0
2	Dual channel EPR excitation coil array for Overhauser-enhanced MRI. <i>Journal of Magnetic Resonance</i> , 2021, 323, 106890.	2.1	1
3	Imaging analysis for multiple paramagnetic agents using OMRI and electrophoresis. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2021, 70, 103-107.	1.4	0
4	Biomedical Overhauser Magnetic Resonance Imaging (OMRI): Noninvasive Imaging of Redox Processes. <i>Biological Magnetic Resonance</i> , 2020, , 221-229.	0.4	2
5	Dynamic nuclear polarization magnetic resonance imaging and the oxygen-sensitive paramagnetic agent OX63 provide a noninvasive quantitative evaluation of kidney hypoxia in diabetic mice. <i>Kidney International</i> , 2019, 96, 787-792.	5.2	17
6	<i>In Vitro</i> and <i>In Vivo</i> Detection of Drug-induced Apoptosis Using Annexin V-conjugated Ultrasmall Superparamagnetic Iron Oxide (USPIO): A Pilot Study. <i>Magnetic Resonance in Medical Sciences</i> , 2019, 18, 142-149.	2.0	5
7	<i>In Vivo</i> Imaging of the Intra- and Extracellular Redox Status in Rat Stomach with Indomethacin-Induced Gastric Ulcers Using Overhauser-Enhanced Magnetic Resonance Imaging. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1147-1161.	5.4	12
8	Rational Design of [¹³ C, ¹⁴ D] ¹³ C ₁₄ Tert-butylbenzene as a Scaffold Structure for Designing Long-lived Hyperpolarized ¹³ C Probes. <i>Chemistry - an Asian Journal</i> , 2018, 13, 280-283.	3.3	8
9	Hyperpolarized [1- ¹³ C]-Pyruvate Magnetic Resonance Spectroscopic Imaging of Prostate Cancer <i>In Vivo</i> Predicts Efficacy of Targeting the Warburg Effect. <i>Clinical Cancer Research</i> , 2018, 24, 3137-3148.	7.0	36
10	Imaging Doxorubicin Free Radical in Mice with Overhauser Enhanced MRI and its Tumor Suppression Effect in Mice. <i>Applied Magnetic Resonance</i> , 2018, 49, 869-879.	1.2	1
11	Design of a ¹⁵ N Molecular Unit to Achieve Long Retention of Hyperpolarized Spin State. <i>Scientific Reports</i> , 2017, 7, 40104.	3.3	39
12	A Strategy to Design Hyperpolarized ¹³ C Magnetic Resonance Probes Using [¹³ C]-Amino Acid as a Scaffold Structure. <i>Chemistry - an Asian Journal</i> , 2017, 12, 949-953.	3.3	12
13	Construction of 0.15 Tesla Overhauser Enhanced MRI. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 393-398.	1.6	2
14	Direct Monitoring of ¹³ C-Glutamyl Transpeptidase Activity <i>In Vivo</i> Using a Hyperpolarized ¹³ C-Labeled Molecular Probe. <i>Angewandte Chemie</i> , 2016, 128, 10784-10787.	2.0	7
15	Development of a PET/OMRI combined system for simultaneous imaging of positron and free radical probes for small animals. <i>Medical Physics</i> , 2016, 43, 5676-5684.	3.0	5
16	Direct Monitoring of ¹³ C-Glutamyl Transpeptidase Activity <i>In Vivo</i> Using a Hyperpolarized ¹³ C-Labeled Molecular Probe. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10626-10629.	13.8	40
17	Effect of ionic interaction between a hyperpolarized magnetic resonance chemical probe and a gadolinium contrast agent for the hyperpolarized lifetime after dissolution. <i>Journal of Magnetic Resonance</i> , 2016, 270, 157-160.	2.1	1
18	Design of a Hyperpolarized Molecular Probe for Detection of Aminopeptidase N Activity. <i>Angewandte Chemie</i> , 2016, 128, 1797-1800.	2.0	10

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19	Design of a Hyperpolarized Molecular Probe for Detection of Aminopeptidase N Activity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1765-1768.	13.8	36
20	Diffusion studies on permeable nitroxyl spin probes through bilayer lipid membranes: A low frequency ESR study. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
21	Design of a hyperpolarized ¹⁵ N NMR probe that induces a large chemical-shift change upon binding of calcium ions. <i>Chemical Communications</i> , 2015, 51, 12290-12292.	4.1	25
22	Diffusion studies on permeable nitroxyl spin probe through lipid bilayer membrane. , 2014, , .		0
23	Nitroxyl radicals-modified dendritic poly(<i>l</i> -lysine) as a contrast agent for Overhauser-enhanced MRI. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1425-1439.	3.5	11
24	Observation of Glycolytic Metabolites in Tumor Cell Lysate by Using Hyperpolarization of Deuterated Glucose. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 1416-1421.	1.4	10
25	Change in Overhauser Effect-enhanced MRI Signal in Response to uPA Highly Expressing in Tumor. <i>Chemistry Letters</i> , 2014, 43, 999-1001.	1.3	2
26	In vivo toxicity and antitumor activity of mangosteen extract. <i>Journal of Natural Medicines</i> , 2013, 67, 255-263.	2.3	47
27	Permeability Studies of Redox-Sensitive Nitroxyl Spin Probes Through Lipid Membranes Using an L-Band ESR Spectrometer. <i>Applied Magnetic Resonance</i> , 2013, 44, 439-447.	1.2	9
28	Non-invasive Redox Imaging of Cisplatin-Induced Nephrotoxicity Using Overhauser-MRI. <i>Free Radical Biology and Medicine</i> , 2013, 65, S126.	2.9	0
29	Electron spin resonance spectroscopy studies on [¹⁵ N]-labeled and their deuterated nitroxyl spin probes used in molecular imaging. , 2013, , .		0
30	A platform for designing hyperpolarized magnetic resonance chemical probes. <i>Nature Communications</i> , 2013, 4, 2411.	12.8	70
31	Molecular dynamics dependence of overhauser-enhanced magnetic resonance imaging (OMRI): An ESR study. , 2013, , .		0
32	Permeability studies of redox-sensitive nitroxyl radicals through bilayer lipid membranes. , 2013, , .		0
33	Imaging <i>in vivo</i> redox status in high spatial resolution with OMRI. <i>Free Radical Research</i> , 2012, 46, 1004-1010.	3.3	12
34	Permeability studies of nitroxyl spin probes through lipid membranes using L-band ESR spectrometer. , 2012, , .		0
35	Mouse lactate dehydrogenase X: A promising magnetic resonance reporter protein using hyperpolarized pyruvic acid derivative Y. <i>Chemical Science</i> , 2012, 3, 800-806.	7.4	11
36	Oxidative Stress Imaging in Live Animals with Techniques Based on Electron Paramagnetic Resonance. <i>Radiation Research</i> , 2012, 177, 514-523.	1.5	28

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37	The Japanese Emperor Bestows Medal with Purple Ribbon on Antioxidants and Redox Signaling Editor Hideo Utsumi for Contributions to Redox Biology. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 463-467.	5.4	0
38	Design of a ¹³ C Magnetic Resonance Probe Using a Deuterated Methoxy Group as a Long-Lived Hyperpolarization Unit. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10114-10117.	13.8	27
39	Redox Imaging of lung inflammation in mice. <i>Free Radical Biology and Medicine</i> , 2012, 53, S223.	2.9	1
40	Whole-body kinetic image of a redox probe in mice using Overhauser-enhanced MRI. <i>Free Radical Biology and Medicine</i> , 2012, 53, 328-336.	2.9	30
41	Overhauser-enhanced magnetic resonance imaging characterization of mitochondria functional changes in the 6-hydroxydopamine rat model. <i>Neurochemistry International</i> , 2011, 59, 804-811.	3.8	27
42	Nitroxides prevent exacerbation of indomethacin-induced gastric damage in adjuvant arthritis rats. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1799-1805.	2.9	20
43	Dynamic nuclear polarization studies of redox-sensitive nitroxyl spin probes in liposomal solution. <i>Journal of Magnetic Resonance</i> , 2010, 204, 131-138.	2.1	20
44	Application of a Homebuilt Overhauser-enhanced MRI using in vivo EPR Spectrometer to Mice Redox Imaging. <i>Free Radical Biology and Medicine</i> , 2010, 49, S185.	2.9	0
45	Analysis of Nitroxyl Spin Probes in Mouse Brain by X-Band ESR with Microdialysis Technique. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4101-4107.	3.3	5
46	A kinetic study of resorcinol-enhanced hydroxyl radical generation during ozonation with a power law type equation. <i>Journal of Water and Environment Technology</i> , 2008, 6, 1-7.	0.7	0
47	Application of In Vivo ESR/Spin-Probe Technique to Monitor Tumor In Vivo in Mouse Footpad. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1699-1708.	5.4	7
48	Advantageous application of a surface coil to EPR irradiation in overhauser-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 806-811.	3.0	37
49	An ESR contrast agent is transported to rat liver through organic anion transporter. <i>Free Radical Research</i> , 2006, 40, 403-408.	3.3	5
50	Reduction of Image Artifacts in Mice by Bladder Flushing with a Novel Double-Lumen Urethral Catheter. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00020.	1.4	14
51	Dynamic nuclear polarization properties of nitroxyl radicals used in Overhauser-enhanced MRI for simultaneous molecular imaging. <i>Journal of Magnetic Resonance</i> , 2006, 182, 273-282.	2.1	51
52	Simultaneous molecular imaging of redox reactions monitored by Overhauser-enhanced MRI with ¹⁴ N- and ¹⁵ N-labeled nitroxyl radicals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1463-1468.	7.1	146
53	Nitroxide conjugate of a thermally responsive elastin-like polypeptide for noninvasive thermometry. <i>Medical Physics</i> , 2004, 31, 2755-2762.	3.0	20
54	Influence of Conformation on the EPR Spectrum of 5,5-Dimethyl-1-hydroperoxy-1-pyrrolidinyloxy: A Spin Trapped Adduct of Superoxide. <i>Journal of Organic Chemistry</i> , 2004, 69, 1321-1330.	3.2	50

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55	Dendrimeric-Containing Nitronyl Nitroxides as Spin Traps for Nitric Oxide:Â Synthesis, Kinetic, and Stability Studies. <i>Macromolecules</i> , 2003, 36, 1021-1027.	4.8	26
56	A kinetic study of 3-chlorophenol enhanced hydroxyl radical generation during ozonation. <i>Water Research</i> , 2003, 37, 4924-4928.	11.3	18
57	Esters of 5-Carboxyl-5-methyl-1-pyrrolineN-Oxide:Â A Family of Spin Traps for Superoxide. <i>Journal of Organic Chemistry</i> , 2003, 68, 7811-7817.	3.2	64
58	[41] Nitroxyl probes for brain research and their application to brain imaging. <i>Methods in Enzymology</i> , 2002, 352, 494-506.	1.0	22
59	Enhanced Generation of Reactive Oxygen Species in the Limb Skeletal Muscles From a Murine Infarct Model of Heart Failure. <i>Circulation</i> , 2001, 104, 134-136.	1.6	115
60	Direct Evidence for Increased Hydroxyl Radicals Originating From Superoxide in the Failing Myocardium. <i>Circulation Research</i> , 2000, 86, 152-157.	4.5	389
61	Quantification of hydroxyl radical during ozonation in batch system.. <i>Journal of Japan Society on Water Environment</i> , 1999, 22, 921-925.	0.4	1
62	Bioassay for Endocrine Disrupting Chemicals.. <i>Waste Management Research</i> , 1999, 10, 263-270.	0.0	0
63	Enhancement of hydroxyl radical generation by phenols and their reaction intermediates during ozonation. <i>Water Science and Technology</i> , 1998, 38, 147.	2.5	14
64	Generation of p-semiquinone radicals from chlorophenols in water during ozonation. <i>Water Research</i> , 1998, 32, 1978-1981.	11.3	18
65	Quantitative analysis for the enhancement of hydroxyl radical generation by phenols during ozonation of water. <i>Water Research</i> , 1998, 32, 3261-3266.	11.3	45
66	Enhancement of hydroxyl radical generation by phenols and their reaction intermediates during ozonation. <i>Water Science and Technology</i> , 1998, 38, 147-154.	2.5	6
67	In Vivo ESR Measurement of Free Radical Reactions in Living Mice. , 1998, , 13-22.		0
68	The In vitro Bioassay System as it Closely Correlate with Toxicity Levels in the Body.. <i>Waste Management Research</i> , 1998, 9, 379-383.	0.0	0
69	Genotoxicity and Cytotoxicity of Tama River Water Estimated with in vitro Micronucleus Test and Colony Formation Inhibition Test.. <i>Journal of Japan Society on Water Environment</i> , 1997, 20, 716-721.	0.4	1
70	In Vitro Bioassay System Closely Related to Whole Body Toxicity.. <i>Journal of Japan Society on Water Environment</i> , 1997, 20, 701-704.	0.4	1
71	Application of micronucleus assay to micropollutants in river water. <i>Water Science and Technology</i> , 1997, 35, 9.	2.5	2
72	Application of micronucleus in vitro assay to micropollutants in river water. <i>Water Science and Technology</i> , 1997, 35, 9-13.	2.5	13

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73	Long-term cytotoxicities of various pesticides evaluated by albumin secretion of primary cultured rat hepatocytes. <i>Biotechnology Letters</i> , 1996, 10, 99-102.	0.5	2
74	Quantitative comparison of rat hepatocyte functions in two improved culture systems with or without rat liver epithelial cell line. <i>Cytotechnology</i> , 1996, 21, 243-252.	1.6	10
75	In vivo ESR measurements of free radical reactions in living mice. <i>Toxicology Letters</i> , 1995, 82-83, 561-565.	0.8	31
76	Primary culture of rat hepatocytes using membrane-supported collagen sandwich with hormone-free medium. <i>Biotechnology Letters</i> , 1994, 8, 385-388.	0.5	2
77	Long-term culture of primary rat hepatocytes with high albumin secretion using membrane-supported collagen sandwich. <i>Cytotechnology</i> , 1993, 11, 213-218.	1.6	19