

Periannan Kuppusamy

List of Publications by Year in descending order

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163
papers

6,028
citations

61984

43
h-index

88630

70
g-index

168
all docs

168
docs citations

168
times ranked

6738
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive imaging of tumor redox status and its modification by tissue glutathione levels. <i>Cancer Research</i> , 2002, 62, 307-12.	0.9	547
2	Curcumin induces G2/M arrest and apoptosis in cisplatin-resistant human ovarian cancer cells by modulating akt and p38 mAPK. <i>Cancer Biology and Therapy</i> , 2007, 6, 178-184.	3.4	249
3	Oxygen, the Lead Actor in the Pathophysiologic Drama: Enactment of the Trinity of Normoxia, Hypoxia, and Hyperoxia in Disease and Therapy. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1717-1730.	5.4	150
4	Diphenyl Difluoroketone: A Curcumin Derivative with Potent <i>In vivo</i> Anticancer Activity. <i>Cancer Research</i> , 2008, 68, 1962-1969.	0.9	147
5	Novel particulate spin probe for targeted determination of oxygen in cells and tissues. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1138-1148.	2.9	143
6	Theory, Instrumentation, and Applications of Electron Paramagnetic Resonance Oximetry. <i>Chemical Reviews</i> , 2010, 110, 3212-3236.	47.7	136
7	EF24 Induces G2/M Arrest and Apoptosis in Cisplatin-resistant Human Ovarian Cancer Cells by Increasing PTEN Expression. <i>Journal of Biological Chemistry</i> , 2007, 282, 28609-28618.	3.4	123
8	Endothelium-Derived Nitric Oxide Regulates Postischemic Myocardial Oxygenation and Oxygen Consumption by Modulation of Mitochondrial Electron Transport. <i>Circulation</i> , 2005, 111, 2966-2972.	1.6	116
9	Regulation of glucose metabolism by p53: Emerging new roles for the tumor suppressor. <i>Oncotarget</i> , 2011, 2, 948-957.	1.8	115
10	Elevated STAT3 expression in ovarian cancer ascites promotes invasion and metastasis: a potential therapeutic target. <i>Oncogene</i> , 2017, 36, 168-181.	5.9	99
11	Flower isoforms promote competitive growth in cancer. <i>Nature</i> , 2019, 572, 260-264.	27.8	96
12	Methods for Noninvasive Imaging of Tissue Hypoxia. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1745-1756.	5.4	93
13	Synthesis of N-Substituted 3,5-Bis(arylidene)-4-piperidones with High Antitumor and Antioxidant Activity. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5414-5421.	6.4	86
14	ErbB2 overexpression upregulates antioxidant enzymes, reduces basal levels of reactive oxygen species, and protects against doxorubicin cardiotoxicity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1271-H1280.	3.2	85
15	Electron paramagnetic resonance oxygen mapping (EPR-OM): Direct visualization of oxygen concentration in tissue. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 804-809.	3.0	84
16	In vivo measurement of regional oxygenation and imaging of redox status in RIF-1 murine tumor: Effect of carbogen-breathing. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 723-730.	3.0	80
17	Mitochondrial-Targeted Curcuminoids: A Strategy to Enhance Bioavailability and Anticancer Efficacy of Curcumin. <i>PLoS ONE</i> , 2014, 9, e89351.	2.5	80
18	Absolute oxygen tension (pO ₂) in murine fatty and muscle tissue as determined by EPR. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1530-1535.	3.0	78

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19	Requisite Role of Kv1.5 Channels in Coronary Metabolic Dilation. <i>Circulation Research</i> , 2015, 117, 612-621.	4.5	78
20	Clinical EPR. <i>Academic Radiology</i> , 2014, 21, 197-206.	2.5	74
21	Three-dimensional spatial EPR imaging of the rat heart. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 99-105.	3.0	72
22	Anticancer Efficacy of a Difluorodiarlylidenyl Piperidone (HO-3867) in Human Ovarian Cancer Cells and Tumor Xenografts. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 1169-1179.	4.1	72
23	HO-3867, a Safe STAT3 Inhibitor, Is Selectively Cytotoxic to Ovarian Cancer. <i>Cancer Research</i> , 2014, 74, 2316-2327.	0.9	71
24	HO-3867, a curcumin analog, sensitizes cisplatin-resistant ovarian carcinoma, leading to therapeutic synergy through STAT3 inhibition. <i>Cancer Biology and Therapy</i> , 2011, 12, 837-845.	3.4	64
25	Safe and targeted anticancer efficacy of a novel class of antioxidant-conjugated difluorodiarlylidenyl piperidones: Differential cytotoxicity in healthy and cancer cells. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1228-1235.	2.9	63
26	Radiation, Radicals, and Images. <i>Annals of the New York Academy of Sciences</i> , 2000, 899, 28-43.	3.8	62
27	In vivo topical EPR spectroscopy and imaging of nitroxide free radicals and polynitroxyl-albumin. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 806-811.	3.0	61
28	Cardiac applications of EPR imaging. <i>NMR in Biomedicine</i> , 2004, 17, 226-239.	2.8	60
29	Comparison of Human Induced Pluripotent Stem-Cell Derived Cardiomyocytes with Human Mesenchymal Stem Cells following Acute Myocardial Infarction. <i>PLoS ONE</i> , 2014, 9, e116281.	2.5	60
30	Electron paramagnetic resonance evidence that cellular oxygen toxicity is caused by the generation of superoxide and hydroxyl free radicals. <i>FEBS Letters</i> , 1989, 252, 12-16.	2.8	59
31	A naphthalocyanine-based EPR probe for localized measurements of tissue oxygenation. <i>Free Radical Biology and Medicine</i> , 2002, 32, 139-147.	2.9	58
32	Oxidative stress in silicosis: evidence for the enhanced clearance of free radicals from whole lungs. <i>Molecular and Cellular Biochemistry</i> , 1997, 168, 125-132.	3.1	57
33	In vivo imaging of changes in tumor oxygenation during growth and after treatment. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 950-959.	3.0	57
34	High resolution electron paramagnetic resonance imaging of biological samples with a single line paramagnetic label. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 479-483.	3.0	55
35	HO-3867, a Synthetic Compound, Inhibits the Migration and Invasion of Ovarian Carcinoma Cells through Downregulation of Fatty Acid Synthase and Focal Adhesion Kinase. <i>Molecular Cancer Research</i> , 2010, 8, 1188-1197.	3.4	54
36	Skeletal myoblasts transplanted in the ischemic myocardium enhance in situ oxygenation and recovery of contractile function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2129-H2139.	3.2	50

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37	Hyperbaric oxygenation enhances transplanted cell graft and functional recovery in the infarct heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 275-287.	1.9	50
38	Spatial mapping of nitric oxide generation in the ischemic heart using electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 212-218.	3.0	49
39	Stem cell transplantation as a therapy for cardiac fibrosis. <i>Journal of Pathology</i> , 2013, 229, 347-354.	4.5	49
40	In vivo measurement of tumor redox environment using EPR spectroscopy. <i>Molecular and Cellular Biochemistry</i> , 2002, 234/235, 393-398.	3.1	47
41	Oxygen sensitivity and biocompatibility of an implantable paramagnetic probe for repeated measurements of tissue oxygenation. <i>Biomedical Microdevices</i> , 2009, 11, 817-826.	2.8	47
42	Electrochemical Preparation and EPR Studies of Lithium Phthalocyanine. 3. Measurements of Oxygen Concentration in Tissues and Biochemical Reactions. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5323-5330.	2.6	46
43	A Novel Curcumin Analog (H-4073) Enhances the Therapeutic Efficacy of Cisplatin Treatment in Head and Neck Cancer. <i>PLoS ONE</i> , 2014, 9, e93208.	2.5	45
44	Oxygen cycling in conjunction with stem cell transplantation induces NOS3 expression leading to attenuation of fibrosis and improved cardiac function. <i>Cardiovascular Research</i> , 2012, 93, 89-99.	3.8	44
45	Myocardial oxygenation and functional recovery in infarct rat hearts transplanted with mesenchymal stem cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1263-H1273.	3.2	43
46	Amelioration of Doxorubicin-Induced Cardiotoxicity by an Anticancer-Antioxidant Dual-Function Compound, HO-3867. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 350-357.	2.5	43
47	HIF-transcribed p53 chaperones HIF-1 α . <i>Nucleic Acids Research</i> , 2019, 47, 10212-10234.	14.5	43
48	EPR oximetry in the beating heart: Myocardial oxygen consumption rate as an index of posts ischemic recovery. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 835-842.	3.0	42
49	A forward-subtraction procedure for removing hyperfine artifacts in electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 316-322.	3.0	41
50	Inhibition of Vascular Smooth-Muscle Cell Proliferation and Arterial Restenosis by HO-3867, a Novel Synthetic Curcuminoid, through Up-Regulation of PTEN Expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 329, 959-966.	2.5	41
51	Mechanism of oxygen-induced EPR line broadening in lithium phthalocyanine microcrystals. <i>Journal of Magnetic Resonance</i> , 2004, 170, 42-48.	2.1	40
52	Fabrication and physical evaluation of a polymer-encapsulated paramagnetic probe for biomedical oximetry. <i>Biomedical Microdevices</i> , 2009, 11, 773-782.	2.8	40
53	Noninvasive Monitoring of Small Intestinal Oxygen in a Rat Model of Chronic Mesenteric Ischemia. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 451-459.	1.8	40
54	Whole body detection and imaging of nitric oxide generation in mice following cardiopulmonary arrest: Detection of intrinsic nitrosoheme complexes. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 700-707.	3.0	39

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55	Cellular uptake, retention and bioabsorption of HO-3867, a fluorinated curcumin analog with potential antitumor properties. <i>Cancer Biology and Therapy</i> , 2010, 10, 1027-1032.	3.4	39
56	HO-3867, a STAT3 inhibitor induces apoptosis by inactivation of STAT3 activity in BRCA1-mutated ovarian cancer cells. <i>Cancer Biology and Therapy</i> , 2012, 13, 766-775.	3.4	39
57	In vivo measurement and imaging of tumor oxygenation using coembedded paramagnetic particulates. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 650-657.	3.0	38
58	Sulfaphenazole Protects Heart Against Ischemia-Induced Reperfusion Injury and Cardiac Dysfunction by Overexpression of iNOS, Leading to Enhancement of Nitric Oxide Bioavailability and Tissue Oxygenation. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 725-738.	5.4	38
59	Three-Dimensional gated EPR imaging of the beating heart: Time-resolved measurements of free radical distribution during the cardiac contractile cycle. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 323-328.	3.0	37
60	The open molecular framework of paramagnetic lithium octabutoxy-naphthalocyanine: implications for the detection of oxygen and nitric oxide using EPR spectroscopy. <i>Journal of Materials Chemistry</i> , 2006, 16, 3609.	6.7	37
61	Preconditioning mesenchymal stem cells with caspase inhibition and hyperoxia prior to hypoxia exposure increases cell proliferation. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 2612-2623.	2.6	37
62	Increased Electron Paramagnetic Resonance Signal Correlates with Mitochondrial Dysfunction and Oxidative Stress in an Alzheimer's disease Mouse Brain. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 571-580.	2.6	36
63	Advances in Probes and Methods for Clinical EPR Oximetry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 73-79.	1.6	36
64	The curcumin analog HO-3867 selectively kills cancer cells by converting mutant p53 protein to transcriptionally active wildtype p53. <i>Journal of Biological Chemistry</i> , 2018, 293, 4262-4276.	3.4	35
65	SCO2 Induces p53-Mediated Apoptosis by Thr845 Phosphorylation of ASK-1 and Dissociation of the ASK-1-Trx Complex. <i>Molecular and Cellular Biology</i> , 2013, 33, 1285-1302.	2.3	34
66	Dysregulation of PTEN in Cardiopulmonary Vascular Remodeling Induced by Pulmonary Hypertension. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 363-372.	1.8	33
67	Targeting constitutively-activated STAT3 in hypoxic ovarian cancer, using a novel STAT3 inhibitor. <i>Oncoscience</i> , 2014, 1, 216-228.	2.2	33
68	Pre-clinical evaluation of OxyChip for long-term EPR oximetry. <i>Biomedical Microdevices</i> , 2018, 20, 29.	2.8	32
69	Chaperoning of Mutant p53 Protein by Wild-type p53 Protein Causes Hypoxic Tumor Regression*. <i>Journal of Biological Chemistry</i> , 2012, 287, 2907-2914.	3.4	31
70	Hyperoxygenation as a Therapeutic Supplement for Treatment of Triple Negative Breast Cancer. <i>Frontiers in Oncology</i> , 2018, 8, 527.	2.8	31
71	Transcutaneous oxygen measurement in humans using a paramagnetic skin adhesive film. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 781-794.	3.0	31
72	Protection Against Oxidative Stress by Nitroxides. <i>Experimental Biology and Medicine</i> , 2001, 226, 620-621.	2.4	30

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73	Mapping of the B1 field distribution of a surface coil resonator using EPR imaging. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 1057-1062.	3.0	30
74	Cardioprotection by HO-4038, a novel verapamil derivative, targeted against ischemia and reperfusion-mediated acute myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H140-H151.	3.2	29
75	Carvedilol Enhances Mesenchymal Stem Cell Therapy for Myocardial Infarction via Inhibition of Caspase-3 Expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 343, 62-71.	2.5	29
76	EPR oxygen mapping (EPROM) of engineered cartilage grown in a hollow-fiber bioreactor. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 819-826.	3.0	27
77	Oxygen and oxygenation in stem-cell therapy for myocardial infarction. <i>Life Sciences</i> , 2010, 87, 269-274.	4.3	27
78	p53's choice of myocardial death or survival: Oxygen protects infarct myocardium by recruiting p53 on <i>NOS3</i> promoter through regulation of p53 ^{Lys118} acetylation. <i>EMBO Molecular Medicine</i> , 2013, 5, 1662-1683.	6.9	27
79	A Highly Sensitive Biocompatible Spin Probe for Imaging of Oxygen Concentration in Tissues. <i>Biophysical Journal</i> , 2007, 92, 2918-2925.	0.5	25
80	Pulmonary Hypertension Secondary to Left-Heart Failure Involves Peroxynitrite-Induced Downregulation of PTEN in the Lung. <i>Hypertension</i> , 2013, 61, 593-601.	2.7	24
81	Electron spin resonance microscopic imaging of oxygen concentration in cancer spheroids. <i>Journal of Magnetic Resonance</i> , 2015, 256, 77-85.	2.1	23
82	Direct and Repeated Measurement of Heart and Brain Oxygenation Using In Vivo EPR Oximetry. <i>Methods in Enzymology</i> , 2015, 564, 529-552.	1.0	23
83	Direct and Repeated Clinical Measurements of pO ₂ for Enhancing Cancer Therapy and Other Applications. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 95-104.	1.6	22
84	Reply to "Enzymatic/non-enzymatic formation of nitric oxide". <i>Nature Medicine</i> , 1995, 1, 1103-1104.	30.7	21
85	A parametric approach to spectral-spatial EPR imaging. <i>Journal of Magnetic Resonance</i> , 2007, 186, 1-10.	2.1	21
86	A paramagnetic implant containing lithium naphthalocyanine microcrystals for high-resolution biological oximetry. <i>Journal of Magnetic Resonance</i> , 2010, 203, 185-189.	2.1	21
87	Deep-Tissue Oxygen Monitoring in the Brain of Rabbits for Stroke Research. <i>Stroke</i> , 2015, 46, e62-6.	2.0	21
88	Polymer coating of paramagnetic particulates for in vivo oxygen-sensing applications. <i>Biomedical Microdevices</i> , 2009, 11, 379-387.	2.8	20
89	Safe and targeted anticancer therapy for ovarian cancer using a novel class of curcumin analogs. <i>Journal of Ovarian Research</i> , 2013, 6, 35.	3.0	20
90	Aberrantly activated pSTAT3-Ser727 in human endometrial cancer is suppressed by HO-3867, a novel STAT3 inhibitor. <i>Gynecologic Oncology</i> , 2014, 135, 133-141.	1.4	20

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91	Mitochondrial Electron Transport Chain-Derived Superoxide Exits Macrophages: Implications for Mononuclear Cell-Mediated Pathophysiological Processes. <i>Reactive Oxygen Species (Apex, N C)</i> , 2016, 1, 81-98.	5.4	19
92	A New Tetragonal Crystalline Polymorph of Lithium Octa- <i>n</i> -Butoxy-Naphthalocyanine (LiNc-BuO) Radical: Structural, Magnetic and Oxygen-Sensing Properties. <i>Chemistry of Materials</i> , 2010, 22, 6254-6262.	6.7	18
93	Implantable microchip containing oxygen-sensing paramagnetic crystals for long-term, repeated, and multisite in vivo oximetry. <i>Biomedical Microdevices</i> , 2019, 21, 71.	2.8	18
94	DNA damage response in vascular endothelial senescence: Implication for radiation-induced cardiovascular diseases. <i>Journal of Radiation Research</i> , 2021, 62, 564-573.	1.6	18
95	Measurement of Oxygenation at the Site of Stem Cell Therapy in a Murine Model of Myocardial Infarction. <i>Advances in Experimental Medicine and Biology</i> , 2008, 614, 45-52.	1.6	18
96	A Comparative Evaluation of EPR and OxyLite Oximetry Using a Random Sampling of O_2 in a Murine Tumor. <i>Radiation Research</i> , 2007, 168, 308-315.	1.5	17
97	Induction of Oxidative Stress in <i>Trypanosoma brucei</i> by the Antitrypanosomal Dihydroquinoline OSU-40. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2428-2434.	3.2	17
98	Real-Time, In Vivo Determination of Dynamic Changes in Lung and Heart Tissue Oxygenation Using EPR Oximetry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 81-86.	1.6	16
99	Formation of Lithium Phthalocyanine Nanotubes by Size Reduction Using Low- and High-Frequency Ultrasound. <i>Chemistry of Materials</i> , 2006, 18, 4183-4189.	6.7	15
100	Skeletal Muscle Oxygenation Measured by EPR Oximetry Using a Highly Sensitive Polymer-Encapsulated Paramagnetic Sensor. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 351-357.	1.6	15
101	Anticancer potential of diarylidenyl piperidone derivatives, HO-4200 and H-4318, in cisplatin resistant primary ovarian cancer. <i>Cancer Biology and Therapy</i> , 2016, 17, 1107-1115.	3.4	15
102	OxyChip Implantation and Subsequent Electron Paramagnetic Resonance Oximetry in Human Tumors Is Safe and Feasible: First Experience in 24 Patients. <i>Frontiers in Oncology</i> , 2020, 10, 572060.	2.8	15
103	Evaluation of nitroxides for the study of myocardial metabolism and oxygenation. <i>Magnetic Resonance in Chemistry</i> , 1995, 33, S123-S128.	1.9	14
104	Development of the Implantable Resonator System for Clinical EPR Oximetry. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 275-283.	1.8	14
105	Advanced surface resonators for electron spin resonance of single microcrystals. <i>Review of Scientific Instruments</i> , 2018, 89, 124707.	1.3	14
106	Measuring Brain Tissue Oxygenation under Oxidative Stress by ESR/MR Dual Imaging System. <i>Magnetic Resonance in Medical Sciences</i> , 2007, 6, 83-89.	2.0	13
107	Dynamic EPR Oximetry of Changes in Intracerebral Oxygen Tension During Induced Thromboembolism. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 285-294.	1.8	12
108	First-In-Human Study in Cancer Patients Establishing the Feasibility of Oxygen Measurements in Tumors Using Electron Paramagnetic Resonance With the OxyChip. <i>Frontiers in Oncology</i> , 2021, 11, 743256.	2.8	12

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109	Skeletal Muscle and Glioma Oxygenation by Carbogen Inhalation in Rats: A Longitudinal Study by EPR Oximetry Using Single-Probe Implantable Oxygen Sensors. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 97-103.	1.6	12
110	Effect of Oxygenation on Stem-Cell Therapy for Myocardial Infarction. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 175-181.	1.6	11
111	Magnetic Force Microscopy of an Oxygen-Sensing Spin-Probe. <i>Israel Journal of Chemistry</i> , 2008, 48, 33-38.	2.3	10
112	A molecular paramagnetic spin-doped biopolymeric oxygen sensor. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2283-2289.	10.1	10
113	An implantable Teflon chip holding lithium naphthalocyanine microcrystals for secure, safe, and repeated measurements of pO ₂ in tissues. <i>Biomedical Microdevices</i> , 2010, 12, 381-387.	2.8	10
114	Oxygen regulates molecular mechanisms of cancer progression and metastasis. <i>Cancer and Metastasis Reviews</i> , 2014, 33, 183-215.	5.9	10
115	Ataxia-Telangiectasia Mutated (ATM) Kinase Regulates eNOS Expression and Modulates Radiosensitivity in Endothelial Cells Exposed to Ionizing Radiation. <i>Radiation Research</i> , 2018, 189, 519-528.	1.5	10
116	Diarylidenylpiperidones, H-4073 and HO-3867, Induce G2/M Cell-Cycle Arrest, Apoptosis and Inhibit STAT3 Phosphorylation in Human Pancreatic Cancer Cells. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 109-119.	1.8	10
117	Sivelestat Attenuates Myocardial Reperfusion Injury during Brief Low Flow Postischemic Infusion. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-9.	4.0	9
118	A Miniature Electron Spin Resonance Probehead for Transcutaneous Oxygen Monitoring. <i>Applied Magnetic Resonance</i> , 2014, 45, 955-967.	1.2	9
119	Supplemental Oxygen Protects Heart Against Acute Myocardial Infarction. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 114.	2.4	9
120	Antiproliferative Effect of a Novel 4,4'-Disulfonyldiarylidenyl Piperidone in Human Colon Cancer Cells. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 61-67.	1.8	9
121	Measurement of pO ₂ in a Pre-clinical Model of Rabbit Tumor Using OxyChip, a Paramagnetic Oxygen Sensor. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 313-318.	1.6	9
122	Hyperfine artifacts in electron paramagnetic resonance imaging. <i>Research on Chemical Intermediates</i> , 1996, 22, 593-604.	2.7	8
123	Development of Functional Electron Paramagnetic Resonance Imaging. <i>Breast Disease</i> , 1998, 10, 209-220.	0.8	8
124	Electron-Spin-Resonance Dipstick. <i>Analytical Chemistry</i> , 2018, 90, 7830-7836.	6.5	8
125	Measuring Flap Oxygen Using Electron Paramagnetic Resonance Oximetry. <i>Laryngoscope</i> , 2019, 129, E415-E419.	2.0	8
126	Imaging of nitric oxide generation in the rat brain. <i>Research on Chemical Intermediates</i> , 1996, 22, 605-613.	2.7	7

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127	Effect of Carbogen-Breathing on Redox Status of the RIF-1 Tumor. <i>Advances in Experimental Medicine and Biology</i> , 2003, 510, 13-17.	1.6	7
128	Recurrent Low-Dose Chemotherapy to Inhibit and Oxygenate Head and Neck Tumors. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 105-111.	1.6	7
129	Intracellular Free Iron and Its Potential Role in Ultrahigh-Pressure-Induced Inactivation of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 722-724.	3.1	6
130	Biocompatibility of Oxygen-Sensing Paramagnetic Implants. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 197-202.	1.8	6
131	NIH Workshop 2018: Towards Minimally Invasive or Noninvasive Approaches to Assess Tissue Oxygenation Pre- and Post-transfusion. <i>Transfusion Medicine Reviews</i> , 2021, 35, 46-55.	2.0	6
132	Synthesis and Biological Evaluation of Curcumin-Nitroxide-Based Molecular Hybrids as Antioxidant and Anti-Proliferative Agents. <i>Medicinal Chemistry</i> , 2017, 13, 761-772.	1.5	6
133	Estimation of mean and median pO ₂ values for a composite EPR spectrum. <i>Journal of Magnetic Resonance</i> , 2008, 192, 269-274.	2.1	5
134	Redox Mapping of Biological Samples Using EPR Imaging. <i>Israel Journal of Chemistry</i> , 2008, 48, 27-31.	2.3	5
135	Estimation of pO ₂ histogram from a composite EPR Spectrum of multiple random implants. <i>Biomedical Microdevices</i> , 2020, 22, 3.	2.8	5
136	Special Issue on Oxidative Stress in Health and Disease. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 215-218.	1.8	4
137	Application of SPOT chip for transcutaneous oximetry. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2837-2840.	3.0	4
138	Selective Induction of Cellular Toxicity and Anti-tumor Efficacy by N-Methylpiperazinyl Diarylidenylpiperidone and its Pro-nitroxide Conjugate through ROS-mediated Mitochondrial Dysfunction and G2/M Cell-cycle Arrest in Human Pancreatic Cancer. <i>Cell Biochemistry and Biophysics</i> , 2020, 78, 191-202.	1.8	4
139	Compact electron spin resonance skin oximeter: Properties and initial clinical results. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2915-2925.	3.0	4
140	Mechanism of Gallstones Formation in Women During Menopause (EPR Study). <i>Current Topics in Biophysics</i> , 2015, 37, 1-8.	0.3	3
141	A hand-held EPR scanner for transcutaneous oximetry. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
142	Oxygen-Sensing Paramagnetic Probes for Clinical Oximetry. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 259-263.	1.6	3
143	Evaluation of a Refined Implantable Resonator for Deep-Tissue EPR Oximetry in the Clinic. <i>Applied Magnetic Resonance</i> , 2021, 52, 1321-1342.	1.2	3
144	Flexible Segmented Surface Coil Resonator for In Vivo EPR Measurements in Human Subjects. <i>Applied Magnetic Resonance</i> , 2022, 53, 145.	1.2	3

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145	Aberrant expression of TMEM205 signaling promotes platinum resistance in ovarian cancer: An implication for the antitumor potential of DAP compound. <i>Gynecologic Oncology</i> , 2021, , .	1.4	3
146	Mapping of Oxygen Concentration in Biological Samples Using EPR Imaging. <i>Israel Journal of Chemistry</i> , 2008, 48, 39-43.	2.3	2
147	Effect of Pulmonary-Generated Reactive Oxygen Species on Left-Ventricular Dysfunction Associated with Cardio-Pulmonary Ischemiaâ€œReperfusion Injury. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 275-280.	1.8	2
148	The impact of particulate electron paramagnetic resonance oxygen sensors on fluorodeoxyglucose imaging characteristics detected via positron emission tomography. <i>Scientific Reports</i> , 2021, 11, 4422.	3.3	2
149	PTEN as a Therapeutic Target in Pulmonary Hypertension Secondary to Left-heart Failure: Effect of HO-3867 and Supplemental Oxygenation. <i>Cell Biochemistry and Biophysics</i> , 2021, 79, 593-607.	1.8	2
150	Sense and Sensibility of Oxygen in Pathophysiology Using EPR Oximetry. <i>Biological Magnetic Resonance</i> , 2020, , 135-187.	0.4	2
151	Estimation of pO distribution in EPR oximetry. <i>Journal of Magnetic Resonance</i> , 2021, 328, 106992.	2.1	1
152	Composition of Bone Marrowâ€œDerived Progenitor Cells in the Cellular Infiltrate of Infarcted Hearts: Role of Local Oxygen Tension. <i>FASEB Journal</i> , 2007, 21, A228.	0.5	1
153	Hypoxic Preconditioning of Stem Cells to Treat Myocardial Infarction. , 2013, , 199-210.		1
154	Abstract 1039: HO-3867, is selectively cytotoxic to ovarian cancer cells through a dual mechanism of action involving the STAT3 and AKT pathways .. , 2013, , .		1
155	Intracellular Free Iron and Its Potential Role in Ultrahigh-Pressure-Induced Inactivation of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 6519-6519.	3.1	0
156	Overâ€œexpression of a Corn Rac Gene Induces Cardiac Hypertrophy in Old Transgenic Mice: a Putative Role of Profilin1â€œInduced Signaling. <i>FASEB Journal</i> , 2011, 25, 951.2.	0.5	0
157	Abstract 2032: Inhibition of signal transducers and activators of transcription 3 in human endometrial cancer, using a novel STAT3 inhibitor.. , 2013, , .		0
158	Abstract A253: HO-3867, a safe STAT3 inhibitor, is selectively cytotoxic to ovarian cancer.. , 2013, , .		0
159	Considerations for Culturing and Preserving Adult Stem Cells for Therapeutics. , 2014, , 15-30.		0
160	Abstract P5-09-03: Expression of theC9Orf72long-isoform in cancer tissues prognosticates disease-free and breast cancer-specific survival. , 2015, , .		0
161	Abstract 1720: HO-3867, a selective inhibitor of stat3, suppress ovarian tumor growth and metastasis in human tissue culture and in an orthotopic mouse model. , 2015, , .		0
162	Abstract LB-036: Elevated STAT3 expression in ovarian tumor ascites regulates invasion and metastasis: a promising therapeutic target. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
163	OxyChip embedded with radioâ€opaque gold nanoparticles for anatomic registration and oximetry in tissues. Magnetic Resonance in Medicine, 2021, , .	3.0	0