

Harold M Swartz

List of Publications by Year in descending order

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179
papers

6,812
citations

50244

46
h-index

82499

72
g-index

182
all docs

182
docs citations

182
times ranked

3993
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia: Importance in tumor biology, noninvasive measurement by imaging, and value of its measurement in the management of cancer therapy. <i>International Journal of Radiation Biology</i> , 2006, 82, 699-757.	1.0	561
2	Trapping of free radicals with direct in vivo EPR detection: a comparison of 5,5-dimethyl-1-pyrroline-N-oxide and 5-diethoxyphosphoryl-5-methyl-1-pyrroline-N-oxide as spin traps for HO and SO ₄ ^{•-} . <i>Free Radical Biology and Medicine</i> , 1999, 27, 329-333.	1.3	260
3	The measurement of oxygen in vivo using EPR techniques. <i>Physics in Medicine and Biology</i> , 1998, 43, 1957-1975.	1.6	211
4	Clinical applications of EPR: overview and perspectives. <i>NMR in Biomedicine</i> , 2004, 17, 335-351.	1.6	133
5	Repetitive Tissue pO ₂ Measurements by Electron Paramagnetic Resonance Oximetry: Current Status and Future Potential for Experimental and Clinical Studies. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1169-1182.	2.5	121
6	BiodosEPR-2006 Meeting: Acute dosimetry consensus committee recommendations on biodosimetry applications in events involving uses of radiation by terrorists and radiation accidents. <i>Radiation Measurements</i> , 2007, 42, 972-996.	0.7	115
7	In Vivo Dosimetry by Electron Spin Resonance Spectroscopy. <i>Health Physics</i> , 1968, 15, 43-47.	0.3	114
8	Spin traps: in vitro toxicity and stability of radical adducts. <i>Free Radical Biology and Medicine</i> , 2003, 34, 1473-1481.	1.3	108
9	Effects of oxygen on the metabolism of nitroxide spin labels in cells. <i>Biochemistry</i> , 1989, 28, 2496-2501.	1.2	106
10	Assessment of cerebral pO ₂ by EPR oximetry in rodents: effects of anesthesia, ischemia, and breathing gas. <i>Brain Research</i> , 1995, 685, 91-98.	1.1	97
11	Electronically Tunable Surface-Coil-Type Resonator for L-Band EPR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2000, 142, 159-167.	1.2	96
12	Use of nitroxides for assessing perfusion, oxygenation, and viability of tissues: In vivo EPR and MRI studies. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 97-106.	1.9	93
13	Quantification of Oxygen Depletion During FLASH Irradiation In Vitro and In Vivo. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 240-248.	0.4	93
14	India ink: A potential clinically applicable EPR oximetry probe. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 229-232.	1.9	92
15	Estimation of Oxygen Distribution in RIF-1 Tumors by Diffusion Model-Based Interpretation of Pimonidazole Hypoxia and Eppendorf Measurements. <i>Radiation Research</i> , 2001, 155, 15-25.	0.7	89
16	Use of Electron Paramagnetic Resonance Spectroscopy to Evaluate the Redox State <i>In Vivo</i> . <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1757-1772.	2.5	89
17	Evaluation of DEPMPO as a spin trapping agent in biological systems. <i>Free Radical Biology and Medicine</i> , 1999, 26, 714-721.	1.3	85
18	Evidence for the dissociation of the hepatobiliary MRI contrast agent Mn-DPDP. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 14-19.	1.9	82

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19	Simultaneous multi-site EPR spectroscopy in vivo. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 213-220.	1.9	78
20	In vivo Oximetry Using EPR and India Ink. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 237-245.	1.9	78
21	Measurements of Oxygen In Vivo: Overview and Perspectives on Methods to Measure Oxygen Within Cells and Tissues. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1295-1302.	2.5	78
22	Noninvasive measurement of the pH inside the gut by using pH-sensitive nitroxides. An in vivo EPR study. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 694-697.	1.9	77
23	Endotoxin-induced changes in intrarenal pO ₂ , measured by in vivo electron paramagnetic resonance oximetry and magnetic resonance imaging. <i>Free Radical Biology and Medicine</i> , 1996, 21, 25-34.	1.3	75
24	Clinical EPR. <i>Academic Radiology</i> , 2014, 21, 197-206.	1.3	74
25	Measurement of intracellular oxygen concentration using the spin label TEMPOL. <i>Magnetic Resonance in Medicine</i> , 1985, 2, 114-127.	1.9	73
26	Electron spin resonance-spin trapping. Detection of superoxide formation during aerobic microsomal reduction of nitro-compounds. <i>Biochemical and Biophysical Research Communications</i> , 1978, 82, 680-684.	1.0	71
27	Effect on Regrowth Delay in a Murine Tumor of Scheduling Split-Dose Irradiation Based on Direct pO ₂ Measurements by Electron Paramagnetic Resonance Oximetry. <i>Radiation Research</i> , 1998, 150, 549.	0.7	69
28	The cellular-induced decay of DMPO spin adducts of $\dot{A}\cdot\text{OH}$ and $\dot{A}\cdot\text{O}_2\hat{\sim}$. <i>Free Radical Biology and Medicine</i> , 1989, 6, 179-183.	1.3	66
29	In vivo EPR for dosimetry. <i>Radiation Measurements</i> , 2007, 42, 1075-1084.	0.7	64
30	Use of nitroxides to measure redox metabolism in cells and tissues. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 191.	1.0	63
31	Intraphagosomal oxygen in stimulated macrophages. <i>Journal of Cellular Physiology</i> , 1995, 163, 241-247.	2.0	61
32	A deployable in vivo EPR tooth dosimeter for triage after a radiation event involving large populations. <i>Radiation Measurements</i> , 2011, 46, 772-777.	0.7	61
33	Radiation Dose Prediction Using Data on Time to Emesis in the Case of Nuclear Terrorism. <i>Radiation Research</i> , 2009, 171, 310-319.	0.7	60
34	A CRITICAL ASSESSMENT OF BIODOSIMETRY METHODS FOR LARGE-SCALE INCIDENTS. <i>Health Physics</i> , 2010, 98, 95-108.	0.3	60
35	Developing in Vivo EPR Oximetry for Clinical use. <i>Advances in Experimental Medicine and Biology</i> , 1998, 454, 243-252.	0.8	60
36	In vivo oximetry using a nitroxide-liposome system. <i>Magnetic Resonance in Medicine</i> , 1991, 20, 123-133.	1.9	58

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37	Overview of the principles and practice of biodosimetry. <i>Radiation and Environmental Biophysics</i> , 2014, 53, 221-232.	0.6	58
38	In vivo EPR dosimetry of accidental exposures to radiation: experimental results indicating the feasibility of practical use in human subjects. <i>Applied Radiation and Isotopes</i> , 2000, 52, 1031-1038.	0.7	54
39	Using EPR to Measure a Critical but Often Unmeasured Component of Oxidative Damage: Oxygen. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 677-686.	2.5	53
40	In vivo EPR tooth dosimetry for triage after a radiation event involving large populations. <i>Radiation and Environmental Biophysics</i> , 2014, 53, 335-346.	0.6	52
41	Gloxy: An oxygen-sensitive coal for accurate measurement of low oxygen tensions in biological systems. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 48-58.	1.9	51
42	Plasma Membrane Cholesterol: A Possible Barrier to Intracellular Oxygen in Normal and Mutant CHO Cells Defective in Cholesterol Metabolism. <i>Biochemistry</i> , 2003, 42, 23-29.	1.2	51
43	Long-Lived Electron Spin Resonances in Rats Irradiated at Room Temperature. <i>Radiation Research</i> , 1965, 24, 579.	0.7	50
44	In vitro/in vivo comparison of drug release and polymer erosion from biodegradable P(FAD-SA) polyanhydrides—a noninvasive approach by the combined use of electron paramagnetic resonance spectroscopy and nuclear magnetic resonance imaging. <i>Pharmaceutical Research</i> , 1997, 14, 820-826.	1.7	48
45	An improved external loop resonator for in vivo L-band EPR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2003, 164, 54-59.	1.2	47
46	Electron Paramagnetic Resonance Assessment of Brain Tissue Oxygen Tension in Anesthetized Rats. <i>Anesthesia and Analgesia</i> , 2003, 96, 1467-1472.	1.1	47
47	Oxygen sensitivity and biocompatibility of an implantable paramagnetic probe for repeated measurements of tissue oxygenation. <i>Biomedical Microdevices</i> , 2009, 11, 817-826.	1.4	47
48	Repeated tumor pO ₂ measurements by multi-site EPR oximetry as a prognostic marker for enhanced therapeutic efficacy of fractionated radiotherapy. <i>Radiotherapy and Oncology</i> , 2009, 91, 126-131.	0.3	47
49	Measurements of Oxygen in Tissues: Overview and Perspectives on Methods. <i>Advances in Experimental Medicine and Biology</i> , 2003, 530, 1-12.	0.8	45
50	The pO ₂ in a Murine Tumor after Irradiation: An In Vivo Electron Paramagnetic Resonance Oximetry Study. <i>Radiation Research</i> , 1995, 144, 222.	0.7	44
51	Clinical Electron Paramagnetic Resonance (EPR) Oximetry Using India Ink. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 149-156.	0.8	44
52	Measurements in vivo of parameters pertinent to ROS/RNS using EPR spectroscopy. <i>Molecular and Cellular Biochemistry</i> , 2002, 234/235, 341-357.	1.4	43
53	Electron Paramagnetic Resonance Dosimetry for a Large-Scale Radiation Incident. <i>Health Physics</i> , 2012, 103, 255-267.	0.3	43
54	In vivo EPR dosimetry to quantify exposures to clinically significant doses of ionising radiation. <i>Radiation Protection Dosimetry</i> , 2006, 120, 163-170.	0.4	42

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55	PROPOSED TRIAGE CATEGORIES FOR LARGE-SCALE RADIATION INCIDENTS USING HIGH-ACCURACY BIODOSIMETRY METHODS. Health Physics, 2010, 98, 136-144.	0.3	42
56	Measurements of clinically significant doses of ionizing radiation using non-invasive in vivo EPR spectroscopy of teeth in situ. Applied Radiation and Isotopes, 2005, 62, 293-299.	0.7	41
57	The Evolution of Bioluminescent Oxygen Consumption as an Ancient Oxygen Detoxification Mechanism. Journal of Molecular Evolution, 2001, 52, 321-332.	0.8	39
58	DEVELOPMENT OF IN VIVO TOOTH EPR FOR INDIVIDUAL RADIATION DOSE ESTIMATION AND SCREENING. Health Physics, 2010, 98, 327-338.	0.3	39
59	DOSIMETRY BASED ON EPR SPECTRAL ANALYSIS OF FINGERNAIL CLIPPINGS. Health Physics, 2010, 98, 309-317.	0.3	39
60	Mechanical Stability Affects Angiogenesis During Early Fracture Healing. Journal of Orthopaedic Trauma, 2011, 25, 494-499.	0.7	38
61	Physically-based biodosimetry using in vivo EPR of teeth in patients undergoing total body irradiation. International Journal of Radiation Biology, 2011, 87, 766-775.	1.0	37
62	Detection of Free Radical Metabolite Formation Using in Vivo EPR Spectroscopy: Evidence of Rat Hemoglobin Thiyl Radical Formation Following Administration of Phenylhydrazine. Archives of Biochemistry and Biophysics, 1996, 330, 266-270.	1.4	36
63	Superoxide production by phagocytosing macrophages in relation to the intracellular distribution of oxygen. Journal of Leukocyte Biology, 1998, 64, 78-84.	1.5	36
64	Advances in Probes and Methods for Clinical EPR Oximetry. Advances in Experimental Medicine and Biology, 2014, 812, 73-79.	0.8	36
65	FIREFLY FLASHING IS CONTROLLED BY GATING OXYGEN TO LIGHT-EMITTING CELLS. Journal of Experimental Biology, 2001, 204, 2795-2801.	0.8	36
66	Chromate-Induced Chromium(V) Formation in Live Mice and Its Control by Cellular Antioxidants: An L-Band Electron Paramagnetic Resonance Study. Archives of Biochemistry and Biophysics, 1995, 323, 33-39.	1.4	35
67	Reduction of carcinogenic chromium(vi) on the skin of living rats. Magnetic Resonance in Medicine, 1997, 38, 524-526.	1.9	34
68	High Spatial Resolution Multi-Site EPR Oximetry. Journal of Magnetic Resonance, 2001, 152, 247-258.	1.2	34
69	Effect of RSR13, an allosteric hemoglobin modifier, on oxygenation in murine tumors: an in vivo electron paramagnetic resonance oximetry and bold MRI study. International Journal of Radiation Oncology Biology Physics, 2004, 59, 834-843.	0.4	34
70	Black Magic and EPR Oximetry. , 2005, 566, 119-125.		32
71	The apparent diffusion constant measured by mri correlates with po2 in a rif-1 tumor. Magnetic Resonance in Medicine, 1995, 34, 515-519.	1.9	31
72	Dynamic changes in oxygenation of intracranial tumor and contralateral brain during tumor growth and carbogen breathing: A multisite EPR oximetry with implantable resonators. Journal of Magnetic Resonance, 2012, 214, 22-28.	1.2	31

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73	The Effects of Efaproxynâ„¢ (Efaproxiral) on Subcutaneous RIF-1 Tumor Oxygenation and Enhancement of Radiotherapy-Mediated Inhibition of Tumor Growth in Mice. <i>Radiation Research</i> , 2007, 168, 218-225.	0.7	30
74	Advances in a framework to compare bio-dosimetry methods for triage in large-scale radiation events. <i>Radiation Protection Dosimetry</i> , 2014, 159, 77-86.	0.4	30
75	Modification of Relaxation of Lipid Protons by Molecular Oxygen and Nitroxides. <i>Investigative Radiology</i> , 1987, 22, 502-507.	3.5	29
76	The products of the reduction of doxyl stearates in cells are hydroxylamines as shown by oxidation by 15N-perdeuterated Tempone. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989, 992, 131-133.	1.1	29
77	Simultaneous measurement of intracellular and extracellular oxygen concentrations using a nitroxide-liposome system. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 12-18.	1.9	29
78	Simultaneous Measurement of NOâ€¢ and PO ₂ from Tissue by in Vivo EPR. <i>Nitric Oxide - Biology and Chemistry</i> , 1999, 3, 292-301.	1.2	27
79	In vivo measurements of EPR signals in whole human teeth. <i>Applied Radiation and Isotopes</i> , 2005, 62, 187-190.	0.7	27
80	Use of epr oximetry with india ink to measure the po ₂ in the liver in vivo in mice. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 888-892.	1.9	26
81	Development of biocompatible implants of fusinite for in vivo EPR oximetry. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1996, 4, 71-75.	1.1	26
82	Development of biocompatible oxygen-permeable films holding paramagnetic carbon particles: Evaluation of their performance and stability in EPR oximetry. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 610-614.	1.9	26
83	Comparisons of Measurements of pO ₂ in Tissue In Vivo by EPR Oximetry and Micro-Electrodes. <i>Advances in Experimental Medicine and Biology</i> , 1997, 411, 543-549.	0.8	26
84	The evaluation of new and isotopically labeled isoindoline nitroxides and an azaphenalene nitroxide for EPR oximetry. <i>Journal of Magnetic Resonance</i> , 2011, 211, 170-177.	1.2	25
85	Development and validation of an ex vivo electron paramagnetic resonance fingernail biodosimetric method. <i>Radiation Protection Dosimetry</i> , 2014, 159, 172-181.	0.4	25
86	Advances in <i>in vivo</i> EPR Tooth Biodosimetry: Meeting the targets for initial triage following a large-scale radiation event. <i>Radiation Protection Dosimetry</i> , 2016, 172, 72-80.	0.4	25
87	Oxygenation Status of Malignant Tumors vs. Normal Tissues: Critical Evaluation and Updated Data Source Based on Direct Measurements with pO ₂ Microsensors. <i>Applied Magnetic Resonance</i> , 2021, 52, 1451-1479.	0.6	25
88	Characteristics of an electronically tunable surface-coil-type resonator for L-band electron paramagnetic resonance spectroscopy. <i>Review of Scientific Instruments</i> , 2001, 72, 2839-2841.	0.6	24
89	Tissue oxygenation in a murine SCC VII tumor after X-ray irradiation as determined by EPR spectroscopy. <i>Radiotherapy and Oncology</i> , 2008, 86, 354-360.	0.3	24
90	Advances towards using finger/toenail dosimetry to triage a large population after potential exposure to ionizing radiation. <i>Radiation Measurements</i> , 2011, 46, 882-887.	0.7	24

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91	Nonperturbing test for cytotoxicity in isolated cells and spheroids, using electron paramagnetic resonance. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 42-55.	1.9	23
92	Experimental procedures for sensitive and reproducible in situ EPR tooth dosimetry. <i>Radiation Measurements</i> , 2007, 42, 1094-1098.	0.7	23
93	Repeated assessment of orthotopic glioma pO ₂ by multi-site EPR oximetry: A technique with the potential to guide therapeutic optimization by repeated measurements of oxygen. <i>Journal of Neuroscience Methods</i> , 2012, 204, 111-117.	1.3	23
94	Direct and Repeated Measurement of Heart and Brain Oxygenation Using In Vivo EPR Oximetry. <i>Methods in Enzymology</i> , 2015, 564, 529-552.	0.4	23
95	How best to interpret measures of levels of oxygen in tissues to make them effective clinical tools for care of patients with cancer and other oxygen-dependent pathologies. <i>Physiological Reports</i> , 2020, 8, e14541.	0.7	23
96	What Does EPR Oximetry with Solid Particles Measure and How Does this Relate to Other Measures of PO ₂ ?. <i>Advances in Experimental Medicine and Biology</i> , 1997, 428, 663-670.	0.8	23
97	Oxygen-Dependent Metabolism of Potential Magnetic Resonance Contrast Agents. <i>Investigative Radiology</i> , 1987, 22, 497-501.	3.5	22
98	An HPLC and EPR investigation on the stability of DMPO and DMPO spin adducts in vivo. <i>Research on Chemical Intermediates</i> , 1996, 22, 499-509.	1.3	22
99	SURFACE LOOP RESONATOR DESIGN FOR IN VIVO EPR TOOTH DOSIMETRY USING FINITE ELEMENT ANALYSIS. <i>Health Physics</i> , 2010, 98, 339-344.	0.3	22
100	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.	0.8	22
101	Effect of Melanin on Radiation Response of CHO Cells. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1985, 47, 531-537.	1.0	21
102	Deep-Tissue Oxygen Monitoring in the Brain of Rabbits for Stroke Research. <i>Stroke</i> , 2015, 46, e62-6.	1.0	21
103	Are there Significant Gradients of PO ₂ in Cells?. <i>Advances in Experimental Medicine and Biology</i> , 1998, 454, 415-423.	0.8	20
104	Development of nitroxides for selective localization inside cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989, 1014, 211-218.	1.9	19
105	Measurement of the intracellular concentration of oxygen in a cell perfusion system. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 668-672.	1.9	19
106	In vivo EPR: an effective new tool for studying pathophysiology, physiology and pharmacology. <i>Applied Radiation and Isotopes</i> , 1996, 47, 1663-1667.	0.7	19
107	Standard error of inverse prediction for dose-response relationship: approximate and exact statistical inference. <i>Statistics in Medicine</i> , 2013, 32, 2048-2061.	0.8	19
108	Monitoring oxygen levels in orthotopic human glioma xenograft following carbogen inhalation and chemotherapy by implantable resonator-based oximetry. <i>International Journal of Cancer</i> , 2015, 136, 1688-1696.	2.3	19

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109	Developments in Biodosimetry Methods for Triage With a Focus on X-band Electron Paramagnetic Resonance In Vivo Fingernail Dosimetry. <i>Health Physics</i> , 2018, 115, 140-150.	0.3	19
110	Implantable Resonators - A Technique for Repeated Measurement of Oxygen at Multiple Deep Sites with In Vivo EPR. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 265-272.	0.8	19
111	Long-lived radiation-induced electron spin resonances in an aqueous biological system. <i>Biochemical and Biophysical Research Communications</i> , 1965, 21, 61-65.	1.0	18
112	Effect of repetitive ischemia on myocardial oxygen tension in isolated perfused and hypoperfused rat hearts. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 214-220.	1.9	17
113	Differentiation of the observed low frequency (1200MHz) EPR signals in whole human teeth. <i>Applied Radiation and Isotopes</i> , 2005, 62, 133-139.	0.7	17
114	High Spatial Resolution Multisite EPR Oximetry of Transient Focal Cerebral Ischemia in the Rat. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1691-1698.	2.5	17
115	Assessment of the Changes in 9L and C6 Glioma pO ₂ by EPR Oximetry as a Prognostic Indicator of Differential Response to Radiotherapy. <i>Radiation Research</i> , 2013, 179, 343-351.	0.7	17
116	Design and Evaluation of a 1.1-GHz Surface Coil Resonator for Electron Paramagnetic Resonance-Based Tooth Dosimetry. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1894-1901.	2.5	17
117	A SURVEY OF PRESENT and POTENTIAL CLINICAL APPLICATIONS OF ELECTRON SPIN RESONANCE. <i>Annals of the New York Academy of Sciences</i> , 1973, 222, 989-1009.	1.8	16
118	Contrast agents for magnetic resonance spectroscopy: A method to obtain increased information in vivo and in vitro spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1991, 22, 372-377.	1.9	16
119	Using India Ink as a Sensor for Oximetry: Evidence of its Safety as a Medical Device. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 297-312.	0.8	16
120	Interaction of Melanin with Metal Ions Modulates Their Cytotoxic Potential. <i>Applied Magnetic Resonance</i> , 2022, 53, 105-121.	0.6	16
121	A microwave resonator for limiting depth sensitivity for electron paramagnetic resonance spectroscopy of surfaces. <i>Review of Scientific Instruments</i> , 2014, 85, 104707.	0.6	15
122	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.	1.3	15
123	Burn trauma in skeletal muscle results in oxidative stress as assessed by in vivo electron paramagnetic resonance. <i>Molecular Medicine Reports</i> , 2008, 1, 813-819.	1.1	15
124	An overview of considerations and approaches for developing in vivo EPR for clinical applications. <i>Research on Chemical Intermediates</i> , 1996, 22, 511-523.	1.3	14
125	An improved inductive coupler for suppressing a shift in the resonance frequency of electron paramagnetic resonance resonators. <i>Review of Scientific Instruments</i> , 1997, 68, 3187-3191.	0.6	14
126	POSSIBLE NATURE OF THE RADIATION-INDUCED SIGNAL IN NAILS: HIGH-FIELD EPR, CONFIRMING CHEMICAL SYNTHESIS, AND QUANTUM CHEMICAL CALCULATIONS. <i>Radiation Protection Dosimetry</i> , 2016, 172, 112-120.	0.4	14

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127	IN-VIVO RADIATION DOSIMETRY USING PORTABLE L BAND EPR: ON-SITE MEASUREMENT OF VOLUNTEERS IN FUKUSHIMA PREFECTURE, JAPAN. Radiation Protection Dosimetry, 2016, 172, 248-253.	0.4	14
128	FLEXIBLE, WIRELESS, INDUCTIVELY COUPLED SURFACE COIL RESONATOR FOR EPR TOOTH DOSIMETRY. Radiation Protection Dosimetry, 2016, 172, 87-95.	0.4	14
129	Development of the Implantable Resonator System for Clinical EPR Oximetry. Cell Biochemistry and Biophysics, 2017, 75, 275-283.	0.9	14
130	Synergistic Combination of Hyperoxygenation and Radiotherapy by Repeated Assessments of Tumor pO ₂ with EPR Oximetry. Journal of Radiation Research, 2011, 52, 568-574.	0.8	13
131	Guidance to Transfer “Bench-Ready”™ Medical Technology into Usual Clinical Practice: Case Study “Sensors and Spectrometer Used in EPR Oximetry. Advances in Experimental Medicine and Biology, 2018, 1072, 233-239.	0.8	13
132	Dynamic EPR Oximetry of Changes in Intracerebral Oxygen Tension During Induced Thromboembolism. Cell Biochemistry and Biophysics, 2017, 75, 285-294.	0.9	12
133	First-In-Human Study in Cancer Patients Establishing the Feasibility of Oxygen Measurements in Tumors Using Electron Paramagnetic Resonance With the OxyChip. Frontiers in Oncology, 2021, 11, 743256.	1.3	12
134	Implementing EPR dosimetry for life-threatening incidents: Factors beyond technical performance. Radiation Measurements, 2007, 42, 1099-1109.	0.7	11
135	L-band surface-coil resonator with voltage-control impedance-matching for EPR tooth dosimetry. Concepts in Magnetic Resonance Part B, 2013, 43B, 32-40.	0.3	11
136	Comparing the Effectiveness of Methods to Measure Oxygen in Tissues for Prognosis and Treatment of Cancer. Advances in Experimental Medicine and Biology, 2016, 923, 113-120.	0.8	11
137	The Effects of Anesthesia on Cerebral Tissue Oxygen Tension: Use of Epr Oximetry to Make Repeated Measurements. Advances in Experimental Medicine and Biology, 2003, 530, 569-575.	0.8	11
138	Using Stable Free Radicals to Obtain Unique and Clinically Useful Data <i>In Vivo</i> in Human Subjects. Radiation Protection Dosimetry, 2016, 172, 3-15.	0.4	10
139	A Coaxial Dielectric Probe Technique for Distinguishing Tooth Enamel from Dental Resin. Advances in Biomedical Engineering Research, 2015, 3, 8.	0.2	10
140	Dielectric-Backed Aperture Resonators for X-Band <i>in vivo</i> EPR Nail Dosimetry. Radiation Protection Dosimetry, 2016, 172, 121-126.	0.4	9
141	ROC Analysis for Evaluation of Radiation Biodosimetry Technologies. Radiation Protection Dosimetry, 2016, 172, 145-151.	0.4	9
142	The clinical utility of imaging methods used to measure hypoxia in cervical cancer. British Journal of Radiology, 2020, 93, 20190640.	1.0	9
143	In Vivo CW-EPR Spectrometer Systems for Dosimetry and Oximetry in Preclinical and Clinical Applications. Applied Magnetic Resonance, 2022, 53, 123-143.	0.6	9
144	<i>In Vivo</i> Partial Oxygen Pressure Assessment in Subcutaneous and Intraperitoneal Sites Using Imaging of Solid Oxygen Probe. Tissue Engineering - Part C: Methods, 2022, 28, 264-271.	1.1	9

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145	Simultaneous NIR-EPR Spectroscopy of Rat Brain Oxygenation. , 2005, 566, 357-362.		8
146	Real-time monitoring of ischemic and contralateral brain pO ₂ during stroke by variable length multisite resonators. Magnetic Resonance Imaging, 2014, 32, 563-569.	1.0	8
147	In vivo high-resolution magic angle spinning magnetic and electron paramagnetic resonance spectroscopic analysis of mitochondria-targeted peptide in <i>Drosophila melanogaster</i> with trauma-induced thoracic injury. International Journal of Molecular Medicine, 2016, 37, 299-308.	1.8	8
148	Surface Dielectric Resonators for X-band EPR Spectroscopy. Radiation Protection Dosimetry, 2016, 172, 127-132.	0.4	8
149	In Vivo Electron Paramagnetic Resonance Tooth Dosimetry. Health Physics, 2017, 113, 262-270.	0.3	8
150	Pharmacokinetics of the nitroxide PCA measured by in vivo EPR. Research on Chemical Intermediates, 1996, 22, 491-498.	1.3	7
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