# Ralph P Mason

### List of Publications by Citations

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209
papers
7,906
citations
h-index
79
g-index

8,600
ext. papers
ext. citations
4,6
avg, IF
L-index

#	Paper	IF	Citations
209	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> , <b>2006</b> , 82, 699-757	2.9	506
208	Early inactivation of p53 tumor suppressor gene cooperating with NF1 loss induces malignant astrocytoma. <i>Cancer Cell</i> , <b>2005</b> , 8, 119-30	24.3	426
207	Molecular imaging of hypoxia. <i>Journal of Nuclear Medicine</i> , <b>2008</b> , 49 Suppl 2, 129S-48S	8.9	401
206	Biodistribution of phosphodiester and phosphorothioate siRNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 1139-43	2.9	222
205	19F: a versatile reporter for non-invasive physiology and pharmacology using magnetic resonance. <i>Current Medicinal Chemistry</i> , <b>2005</b> , 12, 819-48	4.3	216
204	Pten haploinsufficiency accelerates formation of high-grade astrocytomas. <i>Cancer Research</i> , <b>2008</b> , 68, 3286-94	10.1	209
203	Role of DAB2IP in modulating epithelial-to-mesenchymal transition and prostate cancer metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 2485-90	11.5	185
202	Development of aliphatic biodegradable photoluminescent polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10086-91	11.5	185
<b>2</b> 01	New frontiers and developing applications in 19F NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2013</b> , 70, 25-49	10.4	127
200	Validating bioluminescence imaging as a high-throughput, quantitative modality for assessing tumor burden. <i>Molecular Imaging</i> , <b>2004</b> , 3, 117-24	3.7	108
199	Tumor oximetry: demonstration of an enhanced dynamic mapping procedure using fluorine-19 echo planar magnetic resonance imaging in the Dunning prostate R3327-AT1 rat tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2001</b> , 49, 1097-108	4	107
198	Chemiluminescent Probes for Imaging HS in Living Animals. <i>Chemical Science</i> , <b>2015</b> , 6, 1979-1985	9.4	106
197	Non-invasive determination of tumor oxygen tension and local variation with growth. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1994</b> , 29, 95-103	4	99
196	Correlations of noninvasive BOLD and TOLD MRI with pO2 and relevance to tumor radiation response. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1863-73	4.4	95
195	In vivo oxygen tension and temperature: simultaneous determination using 19F NMR spectroscopy of perfluorocarbon. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 29, 296-302	4.4	93
194	Hexafluorobenzene: a sensitive 19F NMR indicator of tumor oxygenation. <i>NMR in Biomedicine</i> , <b>1996</b> , 9, 125-34	4.4	92
193	Measuring changes in tumor oxygenation. <i>Methods in Enzymology</i> , <b>2004</b> , 386, 378-418	1.7	91

## (2008-2008)

192	Vascular imaging of solid tumors in rats with a radioactive arsenic-labeled antibody that binds exposed phosphatidylserine. <i>Clinical Cancer Research</i> , <b>2008</b> , 14, 1377-85	12.9	86	
191	Noninvasive investigation of blood oxygenation dynamics of tumors by near-infrared spectroscopy. <i>Applied Optics</i> , <b>2000</b> , 39, 5231-43	1.7	83	
190	Comparison of 1H blood oxygen level-dependent (BOLD) and 19F MRI to investigate tumor oxygenation. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 357-64	4.4	80	
189	Perfluorocarbon imaging in vivo: a 19F MRI study in tumor-bearing mice. <i>Magnetic Resonance Imaging</i> , <b>1989</b> , 7, 475-85	3.3	79	
188	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4995-5002	7.8	79	
187	A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment. <i>Integrative Biology (United Kingdom)</i> , <b>2011</b> , 3, 375-87	3.7	78	
186	Correction for Yang et al., Development of aliphatic biodegradable photoluminescent polymers: Fig. 3 <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1181	8.3 <sup>-</sup> 1/71	87 <mark>8</mark> 8	
185	Bone phenotype of the aromatase deficient mouse. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2001</b> , 79, 49-59	5.1	74	
184	Imaging beta-galactosidase activity using 19F chemical shift imaging of LacZ gene-reporter molecule 2-fluoro-4-nitrophenol-beta-D-galactopyranoside. <i>Magnetic Resonance Imaging</i> , <b>2006</b> , 24, 959	)- <u>6</u> 2 <sup>3</sup>	71	
183	Tumor oxygen dynamics: correlation of in vivo MRI with histological findings. <i>Neoplasia</i> , <b>2003</b> , 5, 308-18	3 6.4	65	
182	Tumour oxygen dynamics measured simultaneously by near-infrared spectroscopy and 19F magnetic resonance imaging in rats. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 45-60	3.8	64	
181	Tumor physiologic response to combretastatin A4 phosphate assessed by MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2005</b> , 62, 872-80	4	64	
180	Novel 1H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 743-8	4.4	58	
179	Interplay of tumor vascular oxygenation and tumor pO2 observed using near-infrared spectroscopy, an oxygen needle electrode, and 19F MR pO2 mapping. <i>Journal of Biomedical Optics</i> , <b>2003</b> , 8, 53-62	3.5	58	
178	On the potential for molecular imaging with Cerenkov luminescence. <i>Optics Letters</i> , <b>2010</b> , 35, 3889-91	3	57	
177	Imaging beta-galactosidase activity in human tumor xenografts and transgenic mice using a chemiluminescent substrate. <i>PLoS ONE</i> , <b>2010</b> , 5, e12024	3.7	56	
176	Blood oxygenation level-dependent (BOLD) contrast magnetic resonance imaging (MRI) for prediction of breast cancer chemotherapy response: a pilot study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 1083-92	5.6	55	
175	Antivascular effects of combretastatin A4 phosphate in breast cancer xenograft assessed using dynamic bioluminescence imaging and confirmed by MRI. <i>FASEB Journal</i> , <b>2008</b> , 22, 2445-51	0.9	54	

174	Tumor oxygen dynamics with respect to growth and respiratory challenge: investigation of the Dunning prostate R3327-HI tumor. <i>Radiation Research</i> , <b>2001</b> , 156, 510-20	3.1	54
173	Tissue oxygenation: a novel determination using 19F surface coil NMR spectroscopy of sequestered perfluorocarbon emulsion. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 18, 71-9	4.4	54
172	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1361-1365	16.4	54
171	Novel NMR approach to assessing gene transfection: 4-fluoro-2-nitrophenyl-beta-D-galactopyranoside as a prototype reporter molecule for beta-galactosidase. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 616-20	4.4	53
170	Correlation of tumor oxygen dynamics with radiation response of the dunning prostate R3327-HI tumor. <i>Radiation Research</i> , <b>2003</b> , 159, 621-31	3.1	53
169	Dynamic near-infrared optical imaging of 2-deoxyglucose uptake by intracranial glioma of athymic mice. <i>PLoS ONE</i> , <b>2009</b> , 4, e8051	3.7	51
168	Oxygenation in cervical cancer and normal uterine cervix assessed using blood oxygenation level-dependent (BOLD) MRI at 3T. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 1321-30	4.4	49
167	Regional tumor oxygen dynamics: 19F PBSR EPI of hexafluorobenzene. <i>Magnetic Resonance Imaging</i> , <b>1997</b> , 15, 971-81	3.3	49
166	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. <i>NMR in Biomedicine</i> , <b>2008</b> , 21, 899-907	4.4	49
165	Regional tumor oximetry: 19F NMR spectroscopy of hexafluorobenzene. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1998</b> , 41, 161-71	4	48
164	Quantitative tissue oxygen measurement in multiple organs using 19F MRI in a rat model. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1722-30	4.4	47
163	19F-NMR detection of lacZ gene expression via the enzymic hydrolysis of 2-fluoro-4-nitrophenyl beta-D-galactopyranoside in vivo in PC3 prostate tumor xenografts in the mouse. <i>FASEB Journal</i> , <b>2007</b> , 21, 2014-9	0.9	47
162	Development of intrinsically photoluminescent and photostable polylactones. <i>Advanced Materials</i> , <b>2014</b> , 26, 4491-6	24	46
161	Correlation of radiation response with tumor oxygenation in the Dunning prostate R3327-AT1 tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2007</b> , 67, 1179-86	4	46
160	A Comparison of Three Commercial Perfluorocarbon Emulsions as High-Field 19F NMR Probes of Oxygen Tension and Temperature. <i>Journal of Magnetic Resonance Series B</i> , <b>1995</b> , 106, 131-141		46
159	A noninvasive assessment of myocardial oxygen tension: 19F NMR spectroscopy of sequestered perfluorocarbon emulsion. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 27, 310-7	4.4	45
158	A new method for radiochemical separation of arsenic from irradiated germanium oxide. <i>Applied Radiation and Isotopes</i> , <b>2005</b> , 63, 343-51	1.7	44
157	Regional Tumor Oxygenation and Measurement of Dynamic Changes. <i>Radiation Research</i> , <b>1999</b> , 152, 239	3.1	44

156	The use of histone deacetylase inhibitor FK228 and DNA hypomethylation agent 5-azacytidine in human bladder cancer therapy. <i>International Journal of Cancer</i> , <b>2007</b> , 120, 1795-802	7.5	43	
155	Comparison of BOLD contrast and Gd-DTPA dynamic contrast-enhanced imaging in rat prostate tumor. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 953-60	4.4	43	
154	Isolated tumor growth in a surgically formed skin pedicle in the rat: a new tumor model for NMR studies. <i>Magnetic Resonance Imaging</i> , <b>1993</b> , 11, 1007-17	3.3	43	
153	Formaldehyde metabolism by Escherichia coli. Detection by in vivo 13C NMR spectroscopy of S-(hydroxymethyl)glutathione as a transient intracellular intermediate. <i>Biochemistry</i> , <b>1986</b> , 25, 4504-7	3.2	43	
152	Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. <i>Cancer Letters</i> , <b>2016</b> , 380, 69-77	9.9	42	
151	Dual 19F/1H MR gene reporter molecules for in vivo detection of Egalactosidase. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 596-603	6.3	42	
150	Differential oxygen dynamics in two diverse Dunning prostate R3327 rat tumor sublines (MAT-Lu and HI) with respect to growth and respiratory challenge. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2002</b> , 53, 744-56	4	42	
149	Synthesis of a 2-aryl-3-aroyl indole salt (OXi8007) resembling combretastatin A-4 with application as a vascular disrupting agent. <i>Journal of Natural Products</i> , <b>2013</b> , 76, 1668-78	4.9	41	
148	Uncoupling hypoxia signaling from oxygen sensing in the liver results in hypoketotic hypoglycemic death. <i>Oncogene</i> , <b>2011</b> , 30, 2147-60	9.2	41	
147	Synthesis and evaluation of novel enhanced gene reporter molecules: detection of beta-galactosidase activity using 19F NMR of trifluoromethylated aryl beta-D-galactopyranosides. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 326-33	3.4	41	
146	Dynamic oxygen challenge evaluated by NMR T1 and T2*insights into tumor oxygenation. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 937-947	4.4	40	
145	S-Gal, a novel 1H MRI reporter for beta-galactosidase. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 65-71	4.4	37	
144	Regional tumor oxygen tension: fluorine echo planar imaging of hexafluorobenzene reveals heterogeneity of dynamics. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1998</b> , 42, 747-50	) <sup>4</sup>	37	
143	Non-invasive physiology: 19F NMR of perfluorocarbons. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , <b>1994</b> , 22, 1141-53		37	
142	Prognostic radiology: quantitative assessment of tumor oxygen dynamics by MRI. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , <b>2001</b> , 24, 462-6	2.7	36	
141	Physical principles of quantitative nuclear magnetic resonance oximetry. <i>Frontiers in Bioscience - Landmark</i> , <b>2008</b> , 13, 1371-84	2.8	36	
140	Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. <i>Applied Optics</i> , <b>2003</b> , 42, 2960-7	1.7	35	
139	Oxygen tension mapping with F-19 echo-planar MR imaging of sequestered perfluorocarbon.  Journal of Magnetic Resonance Imaging, 1994, 4, 595-602	5.6	35	

138	Carbon ion radiotherapy decreases the impact of tumor heterogeneity on radiation response in experimental prostate tumors. <i>Cancer Letters</i> , <b>2016</b> , 378, 97-103	9.9	34
137	A no-carrier-added 72Se/72As radionuclide generator based on solid phase extraction. <i>Radiochimica Acta</i> , <b>2005</b> , 93,	1.9	33
136	Transmembrane pH Gradients In vivo: Measurements Using Fluorinated Vitamin 86 Derivatives*. <i>Current Medicinal Chemistry</i> , <b>1999</b> , 6, 481-499	4.3	33
135	Convertible MRI contrast: Sensing the delivery and release of anti-glioma nano-drugs. <i>Scientific Reports</i> , <b>2015</b> , 5, 9874	4.9	32
134	Development of novel 19F NMR pH indicators: synthesis and evaluation of a series of fluorinated vitamin B6 analogues. <i>Bioorganic and Medicinal Chemistry</i> , <b>1998</b> , 6, 1631-9	3.4	32
133	Regional myocardial oxygen tension: 19F MRI of sequestered perfluorocarbon. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 827-33	4.4	32
132	Fluorinated proteins as potential 19F magnetic resonance imaging and spectroscopy agents. <i>Bioconjugate Chemistry</i> , <b>1994</b> , 5, 257-61	6.3	32
131	In vitro and In vivo Assessment of CdTe and CdHgTe Toxicity and Clearance. <i>Journal of Biomedical Nanotechnology</i> , <b>2008</b> , 4, 524-528	4	32
130	Comparison of optical and power Doppler ultrasound imaging for non-invasive evaluation of arsenic trioxide as a vascular disrupting agent in tumors. <i>PLoS ONE</i> , <b>2012</b> , 7, e46106	3.7	31
129	Design, synthesis, and biological evaluation of water-soluble amino acid prodrug conjugates derived from combretastatin, dihydronaphthalene, and benzosuberene-based parent vascular disrupting agents. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 938-956	3.4	30
128	Novel NMR platform for detecting gene transfection: synthesis and evaluation of fluorinated phenyl beta-D-galactosides with potential application for assessing LacZ gene expression. <i>Bioconjugate Chemistry</i> , <b>2004</b> , 15, 1334-41	6.3	30
127	Simultaneous intracellular and extracellular pH measurement in the heart by 19F NMR of 6-fluoropyridoxol. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 551-6	4.4	29
126	Exploring Feasibility of Multicolored CdTe Quantum Dots for In Vitro and In Vivo Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1174-1177	1.3	29
125	Synthesis and Biological Evaluation of Benzocyclooctene-based and Indene-based Anticancer Agents that Function as Inhibitors of Tubulin Polymerization. <i>MedChemComm</i> , <b>2016</b> , 7, 2418-2427	5	29
124	Molecular imaging in prostate cancer. Journal of Cellular Biochemistry, 2003, 90, 473-83	4.7	28
123	Trans alkenes by stereoselective reduction of Ph2PO ketones: -isosaffrole, -anethole, and peniculin. <i>Tetrahedron Letters</i> , <b>1983</b> , 24, 5293-5296	2	28
122	Dermatan carriers for neovascular transport targeting, deep tumor penetration and improved therapy. <i>Journal of Controlled Release</i> , <b>2005</b> , 109, 222-35	11.7	27
121	A 19F-NMR approach using reporter molecule pairs to assess beta-galactosidase in human xenograft tumors in vivo. <i>NMR in Biomedicine</i> , <b>2008</b> , 21, 704-12	4.4	26

# (2014-2005)

120	Continuous low-dose (metronomic) chemotherapy on rat prostate tumors evaluated using MRI in vivo and comparison with histology. <i>Neoplasia</i> , <b>2005</b> , 7, 678-87	6.4	26	
119	A new method for the labelling of proteins with radioactive arsenic isotopes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 569, 512-517	1.2	26	
118	Simultaneous measurement of tissue oxygen level-dependent (TOLD) and blood oxygenation level-dependent (BOLD) effects in abdominal tissue oxygenation level studies. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 38, 1230-6	5.6	25	
117	Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. <i>Oncotarget</i> , <b>2017</b> , 8, 37464-37477	3.3	25	
116	GdDO3NI, a nitroimidazole-based T1 MRI contrast agent for imaging tumor hypoxia in vivo. <i>Journal of Biological Inorganic Chemistry</i> , <b>2014</b> , 19, 271-9	3.7	24	
115	A noninvasive tumor oxygenation imaging strategy using magnetic resonance imaging of endogenous blood and tissue water. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 561-9	4.4	24	
114	Tubulin-destabilizing agent BPR0L075 induces vascular-disruption in human breast cancer mammary fat pad xenografts. <i>PLoS ONE</i> , <b>2012</b> , 7, e43314	3.7	24	
113	Applications of the stereochemically-controlled Horner-Wittig reaction: synthesis of feniculin, (E)-non-6-en-1-ol, a pheromone of the mediterranean fruit fly, (E)- and (Z)-dec-5-en-1-ol, tri-substituted alkenes, and (Z)-Ebisabolene. <i>Journal of the Chemical Society Perkin Transactions 1</i> ,		24	
112	Kinetics-Based Measurement of Hypoxia in Living Cells and Animals Using an Acetoxymethyl Ester Chemiluminescent Probe. <i>ACS Sensors</i> , <b>2019</b> , 4, 1391-1398	9.2	22	
111	Dynamic bioluminescence and fluorescence imaging of the effects of the antivascular agent Combretastatin-A4P (CA4P) on brain tumor xenografts. <i>Cancer Letters</i> , <b>2015</b> , 356, 462-9	9.9	22	
110	In vivo near-infrared spectroscopy and magnetic resonance imaging monitoring of tumor response to combretastatin A-4-phosphate correlated with therapeutic outcome. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 80, 574-81	4	22	
109	Synthesis and characterization of novel lacZ gene reporter molecules: detection of beta-galactosidase activity by 19F nuclear magnetic resonance of polyglycosylated fluorinated vitamin B6. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 1991-9	8.3	22	
108	Non-invasive assessment of kidney oxygenation: a role for BOLD MRI. <i>Kidney International</i> , <b>2006</b> , 70, 10-1	9.9	22	
107	Quantitative assessment of tumor oxygen dynamics: molecular imaging for prognostic radiology. Journal of Cellular Biochemistry, <b>2002</b> , 39, 45-53	4.7	22	
106	Dynamic breast tumor oximetry: the development of prognostic radiology. <i>Technology in Cancer Research and Treatment</i> , <b>2002</b> , 1, 471-8	2.7	22	
105	In vivo enzymology: a deuterium NMR study of formaldehyde dismutase in Pseudomonas putida F61a and Staphylococcus aureus. <i>Biochemistry</i> , <b>1989</b> , 28, 2160-8	3.2	22	
104	The vascular disrupting agent combretastatin A-4 phosphate causes prolonged elevation of proteins involved in heme flux and function in resistant tumor cells. <i>Oncotarget</i> , <b>2018</b> , 9, 4090-4101	3.3	22	
103	Phosphatidylserine-targeted molecular imaging of tumor vasculature by magnetic resonance imaging. <i>Journal of Biomedical Nanotechnology</i> , <b>2014</b> , 10, 846-55	4	21	

102	Synthesis and evaluation of a novel gene reporter molecule: detection of beta-galactosidase activity using 19F NMR of a fluorinated vitamin B6 conjugate+. <i>Medicinal Chemistry</i> , <b>2005</b> , 1, 255-62	1.8	21	
101	Tumor oximetry: comparison of 19F MR EPI and electrodes. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 530, 19-27	3.6	21	
100	The vascular disrupting activity of OXi8006 in endothelial cells and its phosphate prodrug OXi8007 in breast tumor xenografts. <i>Cancer Letters</i> , <b>2015</b> , 369, 229-41	9.9	20	
99	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 1204-7	8.9	20	
98	Near-infrared spectroscopy and imaging of tumor vascular oxygenation. <i>Methods in Enzymology</i> , <b>2004</b> , 386, 349-78	1.7	20	
97	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1377-1392	5.6	19	
96	6-Fluoropyridoxol: a novel probe of cellular pH using 19F NMR spectroscopy. <i>FEBS Letters</i> , <b>1994</b> , 349, 234-8	3.8	19	
95	6-Trifluoromethylpyridoxine: novel (19)F NMR pH indicator for in vivo detection. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 6814-21	8.3	18	
94	Incorporating Oxygen-Enhanced MRI into Multi-Parametric Assessment of Human Prostate Cancer. <i>Diagnostics</i> , <b>2017</b> , 7,	3.8	17	
93	Tumor oxygen tension: measurement using Oxygent as a 19F NMR probe at 4.7 T. <i>Artificial Cells, Blood Substitutes, and Biotechnology,</i> <b>1994</b> , 22, 1361-7		17	
92	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. <i>Translational Oncology</i> , <b>2018</b> , 11, 1251-1258	4.9	16	
91	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. <i>Bioorganic and Medicinal Chemistry</i> , <b>2015</b> , 23, 7497-520	3.4	16	
90	Upregulation of TRAG3 gene in urothelial carcinoma of the bladder. <i>International Journal of Cancer</i> , <b>2011</b> , 128, 2823-32	7.5	15	
89	Prevention of thiazide-induced hypokalemia without magnesium depletion by potassium-magnesium-citrate. <i>American Journal of Therapeutics</i> , <b>2006</b> , 13, 101-8	1	15	
88	Oxygen-Enhanced Optoacoustic Tomography Reveals the Effectiveness of Targeting Heme and Oxidative Phosphorylation at Normalizing Tumor Vascular Oxygenation. <i>Cancer Research</i> , <b>2020</b> , 80, 35	42 <sup>1</sup> 35 <sup>1</sup> 5	5 <sup>14</sup>	
87	Inorganic phosphate-triggered release of anti-cancer arsenic trioxide from a self-delivery system: an in vitro and in vivo study. <i>Nanoscale</i> , <b>2016</b> , 8, 6094-100	7.7	14	
86	A Multi-Camera System for Bioluminescence Tomography in Preclinical Oncology Research. <i>Diagnostics</i> , <b>2013</b> , 3, 325-43	3.8	14	
85	Cell encapsulation and oxygenation in nanoporous microcontainers. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 1205-12	3.7	14	

84	A novel editing technique for 19F MRI: molecule-specific imaging. <i>Magnetic Resonance Imaging</i> , <b>1990</b> , 8, 729-36	3.3	14
83	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1375-1379	3.6	14
82	Energy transfer chemiluminescence for ratiometric pH imaging. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 4176-4182	3.9	14
81	Novel S-Gal([]) analogs as (1)H MRI reporters for in vivo detection of Egalactosidase. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 1006-11	3.3	13
80	Hexamethyldisiloxane-based nanoprobes for (1) H MRI oximetry. NMR in Biomedicine, 2011, 24, 1226-34	1 4.4	13
79	Effect of homonuclear J modulation on 19F spin-echo images. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 17, 179-88	4.4	13
78	Echo planar imaging of perfluorocarbons. <i>Magnetic Resonance Imaging</i> , <b>1993</b> , 11, 1165-73	3.3	13
77	Ratiometric pH Imaging Using a 1,2-Dioxetane Chemiluminescence Resonance Energy Transfer Sensor in Live Animals. <i>ACS Sensors</i> , <b>2020</b> , 5, 2925-2932	9.2	13
76	Wavelength shifting of chemiluminescence using quantum dots to enhance tissue light penetration. <i>Optical Materials Express</i> , <b>2016</b> , 6, 1384	2.6	13
75	Structure Guided Design, Synthesis, and Biological Evaluation of Novel Benzosuberene Analogues as Inhibitors of Tubulin Polymerization. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 5594-5615	8.3	12
74	NMR visualization of free asparagine in potato tissue using adduct formation with [13C] formaldehyde. <i>Phytochemistry</i> , <b>1986</b> , 25, 1567-1571	4	12
73	In vivo bioluminescence imaging of tumor hypoxia dynamics of breast cancer brain metastasis in a mouse model. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	12
72	Exploring feasibility of multicolored CdTe quantum dots for in vitro and in vivo fluorescent imaging. Journal of Nanoscience and Nanotechnology, <b>2008</b> , 8, 1174-7	1.3	12
71	Bioreductively Activatable Prodrug Conjugates of Combretastatin A-1 and Combretastatin A-4 as Anticancer Agents Targeted toward Tumor-Associated Hypoxia. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 937-954	4.9	11
70	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. <i>MedChemComm</i> , <b>2018</b> , 9, 1649-1662	5	11
69	Red-shifted emission from 1,2-dioxetane-based chemiluminescent reactions. <i>Luminescence</i> , <b>2014</b> , 29, 553-8	2.5	11
68	Assessment of tumor response to oxygen challenge using quantitative diffusion MRI in an animal model. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1450-7	5.6	11
67	Connectivity in human cancellous bone by three-dimensional magnetic resonance imaging. <i>Medical Physics</i> , <b>1997</b> , 24, 1409-20	4.4	11

66	Non-Invasive Physiology and Pharmacology Using 19F Magnetic Resonance <b>2008</b> , 197-276		11
65	Estimated fraction of tumor vascular blood contents sampled by near infrared spectroscopy and 19F magnetic resonance spectroscopy. <i>Optics Express</i> , <b>2005</b> , 13, 1724-33	3.3	11
64	Novel molecular probes for 19F magnetic resonance imaging: synthesis & characterization of fluorinated polymers. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1992</b> , 2, 527-532	2.9	11
63	Evaluation of tumor ischemia in response to an indole-based vascular disrupting agent using BLI and (19)F MRI. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2015</b> , 5, 143-53	2.2	11
62	High-throughput quantitative bioluminescence imaging for assessing tumor burden. <i>Methods in Molecular Biology</i> , <b>2009</b> , 574, 37-45	1.4	11
61	The effect of flow on blood oxygen level dependent (R ) MRI of orthotopic lung tumors. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3787-3797	4.4	10
60	Novel Fe-Based H MRI -Galactosidase Reporter Molecules**. <i>ChemPlusChem</i> , <b>2012</b> , 77, 370-378	2.8	10
59	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. <i>Cancer Research</i> , <b>2021</b> , 81, 1189-1200	10.1	10
58	Alternative materials and processing techniques for optimized nanostructures in dye-sensitized solar cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 2230-48	1.3	9
57	Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 2682-2690	3	9
56	Glutathione in whole blood: a novel determination using double quantum coherence transfer proton NMR spectroscopy. <i>FEBS Letters</i> , <b>1993</b> , 318, 30-4	3.8	9
55	A role for dynamic contrast-enhanced magnetic resonance imaging in predicting tumour radiation response. <i>British Journal of Cancer</i> , <b>2016</b> , 114, 1206-11	8.7	9
54	Oxygen-sensitive MRI assessment of tumor response to hypoxic gas breathing challenge. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4101	4.4	8
53	Dynamic contrast enhanced fluorescent molecular imaging of vascular disruption induced by combretastatin-A4P in tumor xenografts. <i>Journal of Biomedical Nanotechnology</i> , <b>2014</b> , 10, 1545-51	4	8
52	Oxygent: a novel probe of tissue oxygen tension. <i>Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology,</i> <b>1992</b> , 20, 929-32		8
51	Serial non-invasive monitoring of renal disease following immune-mediated injury using near-infrared optical imaging. <i>PLoS ONE</i> , <b>2012</b> , 7, e43941	3.7	8
50	Targeting Phosphatidylserine with Calcium-Dependent Protein-Drug Conjugates for the Treatment of Cancer. <i>Molecular Cancer Therapeutics</i> , <b>2018</b> , 17, 169-182	6.1	7
49	UTSW Small Animal Positron Emission Imager. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 2591-2600	) <sub>1.7</sub>	7

#### (2018-2008)

48	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1155-1159	1.3	7
47	Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. <i>Radiation Research</i> , <b>2016</b> , 185, 616-22	3.1	7
46	Tumor oxygen dynamics: comparison of 19F MR EPI and frequency domain NIR spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 530, 225-36	3.6	7
45	Delivery of molecules to cancer cells using liposomes from bacterial cultures. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 2328-33	1.3	6
44	In vivo enzymology: 13C NMR measurement of a kinetic isotope effect for methanol oxidation in Methylosinus trichosporium OB3b. <i>FEBS Letters</i> , <b>1987</b> , 216, 4-6	3.8	6
43	Fluorinated macromolecular probes for non-invasive assessment of pH by Magnetic resonance spectroscopy. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1993</b> , 3, 187-192	2.9	5
42	Tomographic breathing detection: a method to noninvasively assess in situ respiratory dynamics. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-6	3.5	5
41	Examining correlations of oxygen sensitive MRI (BOLD/TOLD) with [F]FMISO PET in rat prostate tumors. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2019</b> , 9, 156-167	2.2	5
40	Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. <i>Medical Physics</i> , <b>2016</b> , 43, 1275-84	4.4	5
39	Hexafluorobenzene: a Sensitive 19F NMR Indicator of Tumor Oxygenation <b>1996</b> , 9, 125		5
38	Evaluation of red CdTe and near infrared CdHgTe quantum dots by fluorescent imaging. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1155-9	1.3	5
37	Mathematical modeling of tumor response to radiation: radio-sensitivity correlation with BOLD, TOLD, R1 and R2* investigated in large Dunning R3327-AT1 rat prostate tumors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering IEEE Engineer</i>	0.9	4
36	Approaching enzymic kinetic isotope effects in vivo by nuclear-magnetic-resonance spectroscopy. <i>Biochemical Society Transactions</i> , <b>1987</b> , 15, 148-149	5.1	4
35	In vivo hypoxia characterization using blood oxygen level dependent magnetic resonance imaging in a preclinical glioblastoma mouse model. <i>Magnetic Resonance Imaging</i> , <b>2021</b> , 76, 52-60	3.3	4
34	MR-CBCT image-guided system for radiotherapy of orthotopic rat prostate tumors. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198065	3.7	4
33	Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2021</b> , 110, 1519-1529	4	4
32	Evaluating online filtering algorithms to enhance dynamic multispectral optoacoustic tomography. <i>Photoacoustics</i> , <b>2020</b> , 19, 100184	9	3
31	Oxygenation Imaging by Nuclear Magnetic Resonance Methods. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1718, 297-313	1.4	3

30	Commentary on Photoacoustic Tomography. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 1815-6	8.9	3
29	Reconstruction Algorithm with Resolution Deconvolution in a Small-Animal PET Imager <b>2005</b> , 163-175		3
28	6-Fluoropyridoxal polymer conjugates: novel 19F pH indicators for magnetic resonance spectroscopy. <i>Bioconjugate Chemistry</i> , <b>1996</b> , 7, 536-40	6.3	3
27	Tying glutathione in knots. <i>Biochemical Society Transactions</i> , <b>1987</b> , 15, 230-231	5.1	3
26	A phase Ib/II clinical trial of a novel oxygen therapeutic in chemoradiation of glioblastoma <i>Journal of Clinical Oncology</i> , <b>2017</b> , 35, 2561-2561	2.2	3
25	19F MR Characterization of Fluorinated Proteins and Relaxation Rate Enhancement with Gd-DTPA for Faster Imaging <b>1995</b> , 305-313		3
24	BOLD MRI: a tool for predicting tumor therapy outcome based on tumor blood oxygenation and vascular function. <i>Imaging in Medicine</i> , <b>2009</b> , 1, 11-13	1	2
23	Response to <b>D</b> on't be so BOLD: Potential limitations in the use of BOLD MRI for studies of renal oxygenation []Kidney International, 2007, 71, 1328	9.9	2
22	Nonuniform tumor vascular oxygen dynamics monitored by three-channel near-infrared spectroscopy <b>2003</b> ,		2
21	Interplay of tumor vascular oxygenation and pO2 in tumors using NIRS and needle electrode <b>2001</b> , 4250, 429		2
20	Tumor oximetry: a comparison between near-infrared frequency-domain spectroscopy of hemoglobin saturation and 19F MRI of hexafluorobenzene <b>1999</b> ,		2
19	Abstract 4247: TOLD MRI validation of reversal of tumor hypoxia in glioblastoma with a novel oxygen therapeutic <b>2016</b> ,		2
18	Correlation of NIR spectroscopy with BOLD MR imaging of assessing breast tumor vascular oxygen status <b>2004</b> ,		2
17	Imaging-Guided Evaluation of the Novel Small-Molecule Benzosuberene Tubulin-Binding Agent KGP265 as a Potential Therapeutic Agent for Cancer Treatment. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
16	Imaging Lung Clearance of Radiolabeled Tumor Cells to Study Mice with Normal, Activated or Depleted Natural Killer (NK) Cells. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	1
15	Comparison of CsI(Ti) and Scintillating Plastic in a Multi-Pinhole/CCD-Based Gamma Camera for Small-Animal Low-Energy SPECT <b>2005</b> , 189-194		1
14	MRI Hypoxia Measurements <b>2014</b> , 269-289		1
13	Non-Invasive Evaluation of Acute Effects of Tubulin Binding Agents: A Review of Imaging Vascular Disruption in Tumors. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1

#### LIST OF PUBLICATIONS

12	Oxygenation in a human tumor xenograft: manipulation through respiratory challenge and antibody-directed infarction. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 530, 197-204	3.6	1
11	A scalable open-source MATLAB toolbox for reconstruction and analysis of multispectral optoacoustic tomography data. <i>Scientific Reports</i> , <b>2021</b> , 11, 19872	4.9	0
10	Interview: Imaging in prognostic radiology in cancer. <i>Imaging in Medicine</i> , <b>2013</b> , 5, 15-18	1	
9	19F NMR: Clinical and Molecular Imaging Applications. <i>Modecular Medicine and Medicinal</i> , <b>2012</b> , 461-52	4	
8	Survey of Endourology. <i>Journal of Endourology</i> , <b>2007</b> , 21, 124-136	2.7	
7	In-Vivo Optical Assessment of Vascular Oxygen Dynamics in the AT1-R3327 Dunning Prostate Tumor <b>2006</b> , ThE73		
6	Validating Bioluminescence Imaging as a High-Throughput, Quantitative Modality for Assessing Tumor Burden. <i>Molecular Imaging</i> , <b>2004</b> , 3, 153535002004031	3.7	
5	Projection and Pinhole-Based Data Acquisition for Small-Animal SPECT Using Storage Phosphor Technology <b>2005</b> , 279-286		
4	Estimation of intracellular metabolites by specific adduct formation with infused labelled marker molecules. <i>Biochemical Society Transactions</i> , <b>1987</b> , 15, 146-147	5.1	
3	S-Hydroxymethylglutathione observed in vivo at last. <i>Biochemical Society Transactions</i> , <b>1987</b> , 15, 147-1	485.1	
2	TU-E-214-04: NMR Assessment of Tumor Hypoxia and Oxygen Dynamics. <i>Medical Physics</i> , <b>2011</b> , 38, 377	′2-⁄3.7ॄ73	
1	Utility of blood oxygen level dependent magnetic resonance imaging in the evaluation of tissue oxygenation patterns of prostate cancer <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, 198-198	2.2	