Ralph P Mason

List of Publications by Year in Descending Order

209 papers	7,906 citations	47 h-index	79 g-index
234 ext. papers	8,600 ext. citations	4.6 avg, IF	5.7 L-index

#	Paper	IF	Citations
209	A scalable open-source MATLAB toolbox for reconstruction and analysis of multispectral optoacoustic tomography data. *Scientific Reports*, **2021**, 11, 19872	4.9	0
208	Non-Invasive Evaluation of Acute Effects of Tubulin Binding Agents: A Review of Imaging Vascular Disruption in Tumors. *Molecules*, **2021**, 26,	4.8	1
207	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. *Cancer Research*, **2021**, 81, 1189-1200	10.1	10
206	In vivo hypoxia characterization using blood oxygen level dependent magnetic resonance imaging in a preclinical glioblastoma mouse model. *Magnetic Resonance Imaging*, **2021**, 76, 52-60	3.3	4
205	Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. *International Journal of Radiation Oncology Biology Physics*, **2021**, 110, 1519-1529	4	4
204	Imaging-Guided Evaluation of the Novel Small-Molecule Benzosuberene Tubulin-Binding Agent KGP265 as a Potential Therapeutic Agent for Cancer Treatment. *Cancers*, **2021**, 13,	6.6	2
203	Oxygen-Enhanced Optoacoustic Tomography Reveals the Effectiveness of Targeting Heme and Oxidative Phosphorylation at Normalizing Tumor Vascular Oxygenation. *Cancer Research*, **2020**, 80, 3542-3555	10.1	14
202	Evaluating online filtering algorithms to enhance dynamic multispectral optoacoustic tomography. *Photoacoustics*, **2020**, 19, 100184	9	3
201	Bioreductively Activatable Prodrug Conjugates of Combretastatin A-1 and Combretastatin A-4 as Anticancer Agents Targeted toward Tumor-Associated Hypoxia. *Journal of Natural Products*, **2020**, 83, 937-954	4.9	11
200	Ratiometric pH Imaging Using a 1,2-Dioxetane Chemiluminescence Resonance Energy Transfer Sensor in Live Animals. *ACS Sensors*, **2020**, 5, 2925-2932	9.2	13
199	The effect of flow on blood oxygen level dependent (R) MRI of orthotopic lung tumors. *Magnetic Resonance in Medicine*, **2019**, 81, 3787-3797	4.4	10
198	Oxygen-sensitive MRI assessment of tumor response to hypoxic gas breathing challenge. *NMR in Biomedicine*, **2019**, 32, e4101	4.4	8
197	Kinetics-Based Measurement of Hypoxia in Living Cells and Animals Using an Acetoxymethyl Ester Chemiluminescent Probe. *ACS Sensors*, **2019**, 4, 1391-1398	9.2	22
196	Structure Guided Design, Synthesis, and Biological Evaluation of Novel Benzosuberene Analogues as Inhibitors of Tubulin Polymerization. *Journal of Medicinal Chemistry*, **2019**, 62, 5594-5615	8.3	12
195	Translating preclinical MRI methods to clinical oncology. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 1377-1392	5.6	19
194	Examining correlations of oxygen sensitive MRI (BOLD/TOLD) with [F]FMISO PET in rat prostate tumors. *American Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 9, 156-167	2.2	5
193	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. *Angewandte Chemie*, **2019**, 131, 1375-1379	3.6	14

192	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 1361-1365	16.4	54
191	Oxygenation Imaging by Nuclear Magnetic Resonance Methods. *Methods in Molecular Biology*, **2018**, 1718, 297-313	1.4	3
190	Targeting Phosphatidylserine with Calcium-Dependent Protein-Drug Conjugates for the Treatment of Cancer. *Molecular Cancer Therapeutics*, **2018**, 17, 169-182	6.1	7
189	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. *MedChemComm*, **2018**, 9, 1649-1662	5	11
188	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. *Translational Oncology*, **2018**, 11, 1251-1258	4.9	16
187	Tomographic breathing detection: a method to noninvasively assess in situ respiratory dynamics. *Journal of Biomedical Optics*, **2018**, 23, 1-6	3.5	5
186	The vascular disrupting agent combretastatin A-4 phosphate causes prolonged elevation of proteins involved in heme flux and function in resistant tumor cells. *Oncotarget*, **2018**, 9, 4090-4101	3.3	22
185	MR-CBCT image-guided system for radiotherapy of orthotopic rat prostate tumors. *PLoS ONE*, **2018**, 13, e0198065	3.7	4
184	Energy transfer chemiluminescence for ratiometric pH imaging. *Organic and Biomolecular Chemistry*, **2018**, 16, 4176-4182	3.9	14
183	Incorporating Oxygen-Enhanced MRI into Multi-Parametric Assessment of Human Prostate Cancer. *Diagnostics*, **2017**, 7,	3.8	17
182	A phase Ib/II clinical trial of a novel oxygen therapeutic in chemoradiation of glioblastoma.. *Journal of Clinical Oncology*, **2017**, 35, 2561-2561	2.2	3
181	Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. *Oncotarget*, **2017**, 8, 37464-37477	3.3	25
180	Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. *Cancer Letters*, **2016**, 380, 69-77	9.9	42
179	Design, synthesis, and biological evaluation of water-soluble amino acid prodrug conjugates derived from combretastatin, dihydronaphthalene, and benzosuberene-based parent vascular disrupting agents. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 938-956	3.4	30
178	Inorganic phosphate-triggered release of anti-cancer arsenic trioxide from a self-delivery system: an in vitro and in vivo study. *Nanoscale*, **2016**, 8, 6094-100	7.7	14
177	Abstract 4247: TOLD MRI validation of reversal of tumor hypoxia in glioblastoma with a novel oxygen therapeutic **2016**,		2
176	Wavelength shifting of chemiluminescence using quantum dots to enhance tissue light penetration. *Optical Materials Express*, **2016**, 6, 1384	2.6	13
175	Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. *Radiation Research*, **2016**, 185, 616-22	3.1	7

174	Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. *Medical Physics*, **2016**, 43, 1275-84	4.4	5
173	Carbon ion radiotherapy decreases the impact of tumor heterogeneity on radiation response in experimental prostate tumors. *Cancer Letters*, **2016**, 378, 97-103	9.9	34
172	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. *Analytical Chemistry*, **2016**, 88, 4995-5002	7.8	79
171	A role for dynamic contrast-enhanced magnetic resonance imaging in predicting tumour radiation response. *British Journal of Cancer*, **2016**, 114, 1206-11	8.7	9
170	Synthesis and Biological Evaluation of Benzocyclooctene-based and Indene-based Anticancer Agents that Function as Inhibitors of Tubulin Polymerization. *MedChemComm*, **2016**, 7, 2418-2427	5	29
169	Convertible MRI contrast: Sensing the delivery and release of anti-glioma nano-drugs. *Scientific Reports*, **2015**, 5, 9874	4.9	32
168	The vascular disrupting activity of OXi8006 in endothelial cells and its phosphate prodrug OXi8007 in breast tumor xenografts. *Cancer Letters*, **2015**, 369, 229-41	9.9	20
167	Dynamic bioluminescence and fluorescence imaging of the effects of the antivascular agent Combretastatin-A4P (CA4P) on brain tumor xenografts. *Cancer Letters*, **2015**, 356, 462-9	9.9	22
166	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. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 3266-9	0.9	4
165	Assessment of tumor response to oxygen challenge using quantitative diffusion MRI in an animal model. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1450-7	5.6	11
164	Commentary on Photoacoustic Tomography. *Journal of Nuclear Medicine*, **2015**, 56, 1815-6	8.9	3
163	Dynamic oxygen challenge evaluated by NMR T1 and T2*--insights into tumor oxygenation. *NMR in Biomedicine*, **2015**, 28, 937-947	4.4	40
162	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7497-520	3.4	16
161	Chemiluminescent Probes for Imaging HS in Living Animals. *Chemical Science*, **2015**, 6, 1979-1985	9.4	106
160	Evaluation of tumor ischemia in response to an indole-based vascular disrupting agent using BLI and (19)F MRI. *American Journal of Nuclear Medicine and Molecular Imaging*, **2015**, 5, 143-53	2.2	11
159	GdDO3NI, a nitroimidazole-based T1 MRI contrast agent for imaging tumor hypoxia in vivo. *Journal of Biological Inorganic Chemistry*, **2014**, 19, 271-9	3.7	24
158	Development of intrinsically photoluminescent and photostable polylactones. *Advanced Materials*, **2014**, 26, 4491-6	24	46
157	Red-shifted emission from 1,2-dioxetane-based chemiluminescent reactions. *Luminescence*, **2014**, 29, 553-8	2.5	11

156	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. *Journal of Nuclear Medicine*, **2014**, 55, 1204-7	8.9	20
155	A noninvasive tumor oxygenation imaging strategy using magnetic resonance imaging of endogenous blood and tissue water. *Magnetic Resonance in Medicine*, **2014**, 71, 561-9	4.4	24
154	Phosphatidylserine-targeted molecular imaging of tumor vasculature by magnetic resonance imaging. *Journal of Biomedical Nanotechnology*, **2014**, 10, 846-55	4	21
153	Dynamic contrast enhanced fluorescent molecular imaging of vascular disruption induced by combretastatin-A4P in tumor xenografts. *Journal of Biomedical Nanotechnology*, **2014**, 10, 1545-51	4	8
152	Correlations of noninvasive BOLD and TOLD MRI with pO2 and relevance to tumor radiation response. *Magnetic Resonance in Medicine*, **2014**, 71, 1863-73	4.4	95
151	MRI Hypoxia Measurements **2014**, 269-289		1
150	Synthesis of a 2-aryl-3-aroyl indole salt (OXi8007) resembling combretastatin A-4 with application as a vascular disrupting agent. *Journal of Natural Products*, **2013**, 76, 1668-78	4.9	41
149	Interview: Imaging in prognostic radiology in cancer. *Imaging in Medicine*, **2013**, 5, 15-18	1	
148	New frontiers and developing applications in 19F NMR. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2013**, 70, 25-49	10.4	127
147	Blood oxygenation level-dependent (BOLD) contrast magnetic resonance imaging (MRI) for prediction of breast cancer chemotherapy response: a pilot study. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 1083-92	5.6	55
146	Novel S-Gal( ) analogs as (1)H MRI reporters for in vivo detection of galactosidase. *Magnetic Resonance Imaging*, **2013**, 31, 1006-11	3.3	13
145	A Multi-Camera System for Bioluminescence Tomography in Preclinical Oncology Research. *Diagnostics*, **2013**, 3, 325-43	3.8	14
144	Simultaneous measurement of tissue oxygen level-dependent (TOLD) and blood oxygenation level-dependent (BOLD) effects in abdominal tissue oxygenation level studies. *Journal of Magnetic Resonance Imaging*, **2013**, 38, 1230-6	5.6	25
143	Utility of blood oxygen level dependent magnetic resonance imaging in the evaluation of tissue oxygenation patterns of prostate cancer.. *Journal of Clinical Oncology*, **2013**, 31, 198-198	2.2	
142	Dual 19F/1H MR gene reporter molecules for in vivo detection of galactosidase. *Bioconjugate Chemistry*, **2012**, 23, 596-603	6.3	42
141	19F NMR: Clinical and Molecular Imaging Applications. *Modecular Medicine and Medicinal*, **2012**, 461-524		
140	Tubulin-destabilizing agent BPR0L075 induces vascular-disruption in human breast cancer mammary fat pad xenografts. *PLoS ONE*, **2012**, 7, e43314	3.7	24
139	Comparison of optical and power Doppler ultrasound imaging for non-invasive evaluation of arsenic trioxide as a vascular disrupting agent in tumors. *PLoS ONE*, **2012**, 7, e46106	3.7	31

138	6-Trifluoromethylpyridoxine: novel (19)F NMR pH indicator for in vivo detection. *Journal of Medicinal Chemistry*, **2012**, 55, 6814-21	8.3	18
137	Oxygenation in cervical cancer and normal uterine cervix assessed using blood oxygenation level-dependent (BOLD) MRI at 3T. *NMR in Biomedicine*, **2012**, 25, 1321-30	4.4	49
136	Novel Fe-Based H MRI -Galactosidase Reporter Molecules**. *ChemPlusChem*, **2012**, 77, 370-378	2.8	10
135	Serial non-invasive monitoring of renal disease following immune-mediated injury using near-infrared optical imaging. *PLoS ONE*, **2012**, 7, e43941	3.7	8
134	Uncoupling hypoxia signaling from oxygen sensing in the liver results in hypoketotic hypoglycemic death. *Oncogene*, **2011**, 30, 2147-60	9.2	41
133	Quantitative tissue oxygen measurement in multiple organs using 19F MRI in a rat model. *Magnetic Resonance in Medicine*, **2011**, 66, 1722-30	4.4	47
132	Hexamethyldisiloxane-based nanoprobes for (1) H MRI oximetry. *NMR in Biomedicine*, **2011**, 24, 1226-34	4.4	13
131	Upregulation of TRAG3 gene in urothelial carcinoma of the bladder. *International Journal of Cancer*, **2011**, 128, 2823-32	7.5	15
130	In vivo near-infrared spectroscopy and magnetic resonance imaging monitoring of tumor response to combretastatin A-4-phosphate correlated with therapeutic outcome. *International Journal of Radiation Oncology Biology Physics*, **2011**, 80, 574-81	4	22
129	A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment. *Integrative Biology (United Kingdom)*, **2011**, 3, 375-87	3.7	78
128	In vivo bioluminescence imaging of tumor hypoxia dynamics of breast cancer brain metastasis in a mouse model. *Journal of Visualized Experiments*, **2011**,	1.6	12
127	TU-E-214-04: NMR Assessment of Tumor Hypoxia and Oxygen Dynamics. *Medical Physics*, **2011**, 38, 3772-3773	4.4	
126	Imaging beta-galactosidase activity in human tumor xenografts and transgenic mice using a chemiluminescent substrate. *PLoS ONE*, **2010**, 5, e12024	3.7	56
125	Role of DAB2IP in modulating epithelial-to-mesenchymal transition and prostate cancer metastasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2485-90	11.5	185
124	On the potential for molecular imaging with Cerenkov luminescence. *Optics Letters*, **2010**, 35, 3889-91	3	57
123	S-Gal, a novel 1H MRI reporter for beta-galactosidase. *Magnetic Resonance in Medicine*, **2010**, 64, 65-71	4.4	37
122	Correction for Yang et al., Development of aliphatic biodegradable photoluminescent polymers: Fig. 3.. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11818.3-11818	11.5	78
121	Development of aliphatic biodegradable photoluminescent polymers. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10086-91	11.5	185

120	Dynamic near-infrared optical imaging of 2-deoxyglucose uptake by intracranial glioma of athymic mice. *PLoS ONE*, **2009**, 4, e8051	3.7	51
119	Comparison of 1H blood oxygen level-dependent (BOLD) and 19F MRI to investigate tumor oxygenation. *Magnetic Resonance in Medicine*, **2009**, 62, 357-64	4.4	80
118	Cell encapsulation and oxygenation in nanoporous microcontainers. *Biomedical Microdevices*, **2009**, 11, 1205-12	3.7	14
117	BOLD MRI: a tool for predicting tumor therapy outcome based on tumor blood oxygenation and vascular function. *Imaging in Medicine*, **2009**, 1, 11-13	1	2
116	High-throughput quantitative bioluminescence imaging for assessing tumor burden. *Methods in Molecular Biology*, **2009**, 574, 37-45	1.4	11
115	Non-Invasive Physiology and Pharmacology Using 19F Magnetic Resonance **2008**, 197-276		11
114	Vascular imaging of solid tumors in rats with a radioactive arsenic-labeled antibody that binds exposed phosphatidylserine. *Clinical Cancer Research*, **2008**, 14, 1377-85	12.9	86
113	Molecular imaging of hypoxia. *Journal of Nuclear Medicine*, **2008**, 49 Suppl 2, 129S-48S	8.9	401
112	Antivascular effects of combretastatin A4 phosphate in breast cancer xenograft assessed using dynamic bioluminescence imaging and confirmed by MRI. *FASEB Journal*, **2008**, 22, 2445-51	0.9	54
111	Pten haploinsufficiency accelerates formation of high-grade astrocytomas. *Cancer Research*, **2008**, 68, 3286-94	10.1	209
110	Delivery of molecules to cancer cells using liposomes from bacterial cultures. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 2328-33	1.3	6
109	Alternative materials and processing techniques for optimized nanostructures in dye-sensitized solar cells. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 2230-48	1.3	9
108	A 19F-NMR approach using reporter molecule pairs to assess beta-galactosidase in human xenograft tumors in vivo. *NMR in Biomedicine*, **2008**, 21, 704-12	4.4	26
107	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. *NMR in Biomedicine*, **2008**, 21, 899-907	4.4	49
106	In vitro and In vivo Assessment of CdTe and CdHgTe Toxicity and Clearance. *Journal of Biomedical Nanotechnology*, **2008**, 4, 524-528	4	32
105	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1155-1159	1.3	7
104	Exploring Feasibility of Multicolored CdTe Quantum Dots for In Vitro and In Vivo Fluorescent Imaging. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1174-1177	1.3	29
103	Physical principles of quantitative nuclear magnetic resonance oximetry. *Frontiers in Bioscience - Landmark*, **2008**, 13, 1371-84	2.8	36

102	Evaluation of red CdTe and near infrared CdHgTe quantum dots by fluorescent imaging. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1155-9	1.3	5
101	Exploring feasibility of multicolored CdTe quantum dots for in vitro and in vivo fluorescent imaging. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1174-7	1.3	12
100	Response to Don'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
99	The use of histone deacetylase inhibitor FK228 and DNA hypomethylation agent 5-azacytidine in human bladder cancer therapy. *International Journal of Cancer*, **2007**, 120, 1795-802	7.5	43
98	Correlation of radiation response with tumor oxygenation in the Dunning prostate R3327-AT1 tumor. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 1179-86	4	46
97	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. *FASEB Journal*, **2007**, 21, 2014-9	0.9	47
96	Survey of Endourology. *Journal of Endourology*, **2007**, 21, 124-136	2.7	
95	Imaging beta-galactosidase activity using 19F chemical shift imaging of LacZ gene-reporter molecule 2-fluoro-4-nitrophenol-beta-D-galactopyranoside. *Magnetic Resonance Imaging*, **2006**, 24, 959-62	2.3	71
94	Novel 1H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. *Magnetic Resonance in Medicine*, **2006**, 55, 743-8	4.4	58
93	Tumour oxygen dynamics measured simultaneously by near-infrared spectroscopy and 19F magnetic resonance imaging in rats. *Physics in Medicine and Biology*, **2006**, 51, 45-60	3.8	64
92	Hypoxia: importance in tumor biology, noninvasive measurement by imaging, and value of its measurement in the management of cancer therapy. *International Journal of Radiation Biology*, **2006**, 82, 699-757	2.9	506
91	UTSW Small Animal Positron Emission Imager. *IEEE Transactions on Nuclear Science*, **2006**, 53, 2591-2600	1.7	7
90	Synthesis and characterization of novel lacZ gene reporter molecules: detection of beta-galactosidase activity by 19F nuclear magnetic resonance of polyglycosylated fluorinated vitamin B6. *Journal of Medicinal Chemistry*, **2006**, 49, 1991-9	8.3	22
89	In-Vivo Optical Assessment of Vascular Oxygen Dynamics in the AT1-R3327 Dunning Prostate Tumor **2006**, ThE73		
88	Prevention of thiazide-induced hypokalemia without magnesium depletion by potassium-magnesium-citrate. *American Journal of Therapeutics*, **2006**, 13, 101-8	1	15
87	Non-invasive assessment of kidney oxygenation: a role for BOLD MRI. *Kidney International*, **2006**, 70, 10-1	9.9	22
86	Synthesis and evaluation of novel enhanced gene reporter molecules: detection of beta-galactosidase activity using 19F NMR of trifluoromethylated aryl beta-D-galactopyranosides. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 326-33	3.4	41
85	A new method for the labelling of proteins with radioactive arsenic isotopes. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 569, 512-517	1.2	26

84	Dermatan carriers for neovascular transport targeting, deep tumor penetration and improved therapy. *Journal of Controlled Release*, **2005**, 109, 222-35	11.7	27
83	Continuous low-dose (metronomic) chemotherapy on rat prostate tumors evaluated using MRI in vivo and comparison with histology. *Neoplasia*, **2005**, 7, 678-87	6.4	26
82	Estimated fraction of tumor vascular blood contents sampled by near infrared spectroscopy and 19F magnetic resonance spectroscopy. *Optics Express*, **2005**, 13, 1724-33	3.3	11
81	Projection and Pinhole-Based Data Acquisition for Small-Animal SPECT Using Storage Phosphor Technology **2005**, 279-286		
80	Comparison of CsI(Ti) and Scintillating Plastic in a Multi-Pinhole/CCD-Based Gamma Camera for Small-Animal Low-Energy SPECT **2005**, 189-194		1
79	Tumor physiologic response to combretastatin A4 phosphate assessed by MRI. *International Journal of Radiation Oncology Biology Physics*, **2005**, 62, 872-80	4	64
78	A new method for radiochemical separation of arsenic from irradiated germanium oxide. *Applied Radiation and Isotopes*, **2005**, 63, 343-51	1.7	44
77	Early inactivation of p53 tumor suppressor gene cooperating with NF1 loss induces malignant astrocytoma. *Cancer Cell*, **2005**, 8, 119-30	24.3	426
76	Reconstruction Algorithm with Resolution Deconvolution in a Small-Animal PET Imager **2005**, 163-175		3
75	19F: a versatile reporter for non-invasive physiology and pharmacology using magnetic resonance. *Current Medicinal Chemistry*, **2005**, 12, 819-48	4.3	216
74	Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. *Journal Physics D: Applied Physics*, **2005**, 38, 2682-2690	3	9
73	A no-carrier-added 72Se/72As radionuclide generator based on solid phase extraction. *Radiochimica Acta*, **2005**, 93,	1.9	33
72	Synthesis and evaluation of a novel gene reporter molecule: detection of beta-galactosidase activity using 19F NMR of a fluorinated vitamin B6 conjugate+. *Medicinal Chemistry*, **2005**, 1, 255-62	1.8	21
71	Near-infrared spectroscopy and imaging of tumor vascular oxygenation. *Methods in Enzymology*, **2004**, 386, 349-78	1.7	20
70	Measuring changes in tumor oxygenation. *Methods in Enzymology*, **2004**, 386, 378-418	1.7	91
69	Biodistribution of phosphodiester and phosphorothioate siRNA. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 1139-43	2.9	222
68	Novel NMR approach to assessing gene transfection: 4-fluoro-2-nitrophenyl-beta-D-galactopyranoside as a prototype reporter molecule for beta-galactosidase. *Magnetic Resonance in Medicine*, **2004**, 51, 616-20	4.4	53
67	Comparison of BOLD contrast and Gd-DTPA dynamic contrast-enhanced imaging in rat prostate tumor. *Magnetic Resonance in Medicine*, **2004**, 51, 953-60	4.4	43

66	Novel NMR platform for detecting gene transfection: synthesis and evaluation of fluorinated phenyl beta-D-galactosides with potential application for assessing LacZ gene expression. *Bioconjugate Chemistry*, **2004**, 15, 1334-41	6.3	30
65	Validating Bioluminescence Imaging as a High-Throughput, Quantitative Modality for Assessing Tumor Burden. *Molecular Imaging*, **2004**, 3, 153535002004031	3.7	
64	Validating bioluminescence imaging as a high-throughput, quantitative modality for assessing tumor burden. *Molecular Imaging*, **2004**, 3, 117-24	3.7	108
63	Correlation of NIR spectroscopy with BOLD MR imaging of assessing breast tumor vascular oxygen status **2004**,		2
62	Imaging Lung Clearance of Radiolabeled Tumor Cells to Study Mice with Normal, Activated or Depleted Natural Killer (NK) Cells. *AIP Conference Proceedings*, **2003**,	0	1
61	Nonuniform tumor vascular oxygen dynamics monitored by three-channel near-infrared spectroscopy **2003**,		2
60	Molecular imaging in prostate cancer. *Journal of Cellular Biochemistry*, **2003**, 90, 473-83	4.7	28
59	Correlation of tumor oxygen dynamics with radiation response of the dunning prostate R3327-HI tumor. *Radiation Research*, **2003**, 159, 621-31	3.1	53
58	Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. *Applied Optics*, **2003**, 42, 2960-7	1.7	35
57	Tumor oxygen dynamics: correlation of in vivo MRI with histological findings. *Neoplasia*, **2003**, 5, 308-18	6.4	65
56	Interplay of tumor vascular oxygenation and tumor pO2 observed using near-infrared spectroscopy, an oxygen needle electrode, and 19F MR pO2 mapping. *Journal of Biomedical Optics*, **2003**, 8, 53-62	3.5	58
55	Oxygenation in a human tumor xenograft: manipulation through respiratory challenge and antibody-directed infarction. *Advances in Experimental Medicine and Biology*, **2003**, 530, 197-204	3.6	1
54	Tumor oxygen dynamics: comparison of 19F MR EPI and frequency domain NIR spectroscopy. *Advances in Experimental Medicine and Biology*, **2003**, 530, 225-36	3.6	7
53	Tumor oximetry: comparison of 19F MR EPI and electrodes. *Advances in Experimental Medicine and Biology*, **2003**, 530, 19-27	3.6	21
52	Quantitative assessment of tumor oxygen dynamics: molecular imaging for prognostic radiology. *Journal of Cellular Biochemistry*, **2002**, 39, 45-53	4.7	22
51	Differential oxygen dynamics in two diverse Dunning prostate R3327 rat tumor sublines (MAT-Lu and HI) with respect to growth and respiratory challenge. *International Journal of Radiation Oncology Biology Physics*, **2002**, 53, 744-56	4	42
50	Dynamic breast tumor oximetry: the development of prognostic radiology. *Technology in Cancer Research and Treatment*, **2002**, 1, 471-8	2.7	22
49	Interplay of tumor vascular oxygenation and pO2 in tumors using NIRS and needle electrode **2001**, 4250, 429		2

48	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. *International Journal of Radiation Oncology Biology Physics*, **2001**, 49, 1097-108	4	107
47	Bone phenotype of the aromatase deficient mouse. *Journal of Steroid Biochemistry and Molecular Biology*, **2001**, 79, 49-59	5.1	74
46	Tumor oxygen dynamics with respect to growth and respiratory challenge: investigation of the Dunning prostate R3327-HI tumor. *Radiation Research*, **2001**, 156, 510-20	3.1	54
45	Prognostic radiology: quantitative assessment of tumor oxygen dynamics by MRI. *American Journal of Clinical Oncology: Cancer Clinical Trials*, **2001**, 24, 462-6	2.7	36
44	Noninvasive investigation of blood oxygenation dynamics of tumors by near-infrared spectroscopy. *Applied Optics*, **2000**, 39, 5231-43	1.7	83
43	Regional Tumor Oxygenation and Measurement of Dynamic Changes. *Radiation Research*, **1999**, 152, 239	3.1	44
42	Tumor oximetry: a comparison between near-infrared frequency-domain spectroscopy of hemoglobin saturation and 19F MRI of hexafluorobenzene **1999**,		2
41	Transmembrane pH Gradients In vivo: Measurements Using Fluorinated Vitamin 86 Derivatives*. *Current Medicinal Chemistry*, **1999**, 6, 481-499	4.3	33
40	Simultaneous intracellular and extracellular pH measurement in the heart by 19F NMR of 6-fluoropyridoxol. *Magnetic Resonance in Medicine*, **1998**, 39, 551-6	4.4	29
39	Development of novel 19F NMR pH indicators: synthesis and evaluation of a series of fluorinated vitamin B6 analogues. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 1631-9	3.4	32
38	Regional tumor oximetry: 19F NMR spectroscopy of hexafluorobenzene. *International Journal of Radiation Oncology Biology Physics*, **1998**, 41, 161-71	4	48
37	Regional tumor oxygen tension: fluorine echo planar imaging of hexafluorobenzene reveals heterogeneity of dynamics. *International Journal of Radiation Oncology Biology Physics*, **1998**, 42, 747-50	4	37
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