

Ralph P Mason

List of Publications by Year in descending order

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231
papers

9,160
citations

41344

49
h-index

53230

85
g-index

234
all docs

234
docs citations

234
times ranked

8725
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	45
2	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
3	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. <i>Cancer Research</i> , 2021, 81, 1189-1200.	0.9	31
4	In vivo hypoxia characterization using blood oxygen level dependent magnetic resonance imaging in a preclinical glioblastoma mouse model. <i>Magnetic Resonance Imaging</i> , 2021, 76, 52-60.	1.8	9
5	Non-Invasive Evaluation of Acute Effects of Tubulin Binding Agents: A Review of Imaging Vascular Disruption in Tumors. <i>Molecules</i> , 2021, 26, 2551.	3.8	11
6	Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1519-1529.	0.8	15
7	Imaging-Guided Evaluation of the Novel Small-Molecule Benzosuberene Tubulin-Binding Agent KGP265 as a Potential Therapeutic Agent for Cancer Treatment. <i>Cancers</i> , 2021, 13, 4769.	3.7	6
8	A scalable open-source MATLAB toolbox for reconstruction and analysis of multispectral optoacoustic tomography data. <i>Scientific Reports</i> , 2021, 11, 19872.	3.3	6
9	Ratiometric pH Imaging Using a 1,2-Dioxetane Chemiluminescence Resonance Energy Transfer Sensor in Live Animals. <i>ACS Sensors</i> , 2020, 5, 2925-2932.	7.8	38
10	Oxygen-Enhanced Optoacoustic Tomography Reveals the Effectiveness of Targeting Heme and Oxidative Phosphorylation at Normalizing Tumor Vascular Oxygenation. <i>Cancer Research</i> , 2020, 80, 3542-3555.	0.9	22
11	Evaluating online filtering algorithms to enhance dynamic multispectral optoacoustic tomography. <i>Photoacoustics</i> , 2020, 19, 100184.	7.8	6
12	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> , 2020, 83, 937-954.	3.0	15
13	The effect of flow on blood oxygen level dependent (R^{*2}) MRI of orthotopic lung tumors. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3787-3797.	3.0	11
14	Oxygen-sensitive MRI assessment of tumor response to hypoxic gas breathing challenge. <i>NMR in Biomedicine</i> , 2019, 32, e4101.	2.8	19
15	Kinetics-Based Measurement of Hypoxia in Living Cells and Animals Using an Acetoxymethyl Ester Chemiluminescent Probe. <i>ACS Sensors</i> , 2019, 4, 1391-1398.	7.8	38
16	Structure Guided Design, Synthesis, and Biological Evaluation of Novel Benzosuberene Analogues as Inhibitors of Tubulin Polymerization. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 5594-5615.	6.4	19
17	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1377-1392.	3.4	24
18	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie</i> , 2019, 131, 1375-1379.	2.0	25

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19	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1361-1365.	13.8	90
20	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> , 2019, 9, 156-167.	1.0	7
21	Oxygenation Imaging by Nuclear Magnetic Resonance Methods. <i>Methods in Molecular Biology</i> , 2018, 1718, 297-313.	0.9	4
22	Targeting Phosphatidylserine with Calcium-Dependent Protein-Drug Conjugates for the Treatment of Cancer. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 169-182.	4.1	14
23	MR-CBCT image-guided system for radiotherapy of orthotopic rat prostate tumors. <i>PLoS ONE</i> , 2018, 13, e0198065.	2.5	7
24	Energy transfer chemiluminescence for ratiometric pH imaging. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4176-4182.	2.8	24
25	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. <i>MedChemComm</i> , 2018, 9, 1649-1662.	3.4	15
26	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. <i>Translational Oncology</i> , 2018, 11, 1251-1258.	3.7	24
27	Tomographic breathing detection: a method to noninvasively assess in situ respiratory dynamics. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	5
28	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> , 2018, 9, 4090-4101.	1.8	26
29	In vivo evaluation of combertestatin A-4 phosphate for lung cancer by bioluminescence imaging and multispectral optoacoustic tomography. <i>Annals of Oncology</i> , 2017, 28, ii3.	1.2	0
30	Oxygen breathing challenge- the simplest theranostic. <i>Theranostics</i> , 2017, 7, 3873-3875.	10.0	8
31	Incorporating Oxygen-Enhanced MRI into Multi-Parametric Assessment of Human Prostate Cancer. <i>Diagnostics</i> , 2017, 7, 48.	2.6	23
32	A phase Ib/II clinical trial of a novel oxygen therapeutic in chemoradiation of glioblastoma.. <i>Journal of Clinical Oncology</i> , 2017, 35, 2561-2561.	1.6	5
33	Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. <i>Oncotarget</i> , 2017, 8, 37464-37477.	1.8	31
34	Abstract 3203: Targeting tumor hypoxia with prodrug conjugates of potent small-molecule inhibitors of tubulin polymerization. , 2017, , .		0
35	Wavelength shifting of chemiluminescence using quantum dots to enhance tissue light penetration. <i>Optical Materials Express</i> , 2016, 6, 1384.	3.0	13
36	Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. <i>Radiation Research</i> , 2016, 185, 616-622.	1.5	7

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37	Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. <i>Medical Physics</i> , 2016, 43, 1275-1284.	3.0	7
38	Carbon ion radiotherapy decreases the impact of tumor heterogeneity on radiation response in experimental prostate tumors. <i>Cancer Letters</i> , 2016, 378, 97-103.	7.2	41
39	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. <i>Analytical Chemistry</i> , 2016, 88, 4995-5002.	6.5	109
40	A role for dynamic contrast-enhanced magnetic resonance imaging in predicting tumour radiation response. <i>British Journal of Cancer</i> , 2016, 114, 1206-1211.	6.4	11
41	Synthesis and biological evaluation of benzocyclooctene-based and indene-based anticancer agents that function as inhibitors of tubulin polymerization. <i>MedChemComm</i> , 2016, 7, 2418-2427.	3.4	35
42	Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. <i>Cancer Letters</i> , 2016, 380, 69-77.	7.2	55
43	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> , 2016, 24, 938-956.	3.0	37
44	Inorganic phosphate-triggered release of anti-cancer arsenic trioxide from a self-delivery system: an in vitro and in vivo study. <i>Nanoscale</i> , 2016, 8, 6094-6100.	5.6	15
45	Abstract 4194: Assessment of novel benzosuberene-based vascular disrupting agents (VDA) on diverse tumor lines. , 2016, , .		1
46	Abstract 4247: TOLD MRI validation of reversal of tumor hypoxia in glioblastoma with a novel oxygen therapeutic. , 2016, , .		2
47	Mathematical modeling of tumor response to radiation: radio-sensitivity correlation with BOLD, TOLD, ${}^1\text{H}$ and ${}^2\text{H}$ * investigated in large Dunning R3327-AT1 rat prostate tumors. , 2015, 2015, 3266-9.		5
48	Assessment of tumor response to oxygen challenge using quantitative diffusion MRI in an animal model. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1450-1457.	3.4	11
49	Commentary on Photoacoustic Tomography. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1815-1816.	5.0	5
50	Assessment of tumor response to oxygen challenge using quantitative diffusion MRI in an animal model. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, spcone-spcone.	3.4	0
51	Dynamic oxygen challenge evaluated by NMR ${}^1\text{T}$ and ${}^2\text{T}$ * " insights into tumor oxygenation. <i>NMR in Biomedicine</i> , 2015, 28, 937-947.	2.8	45
52	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7497-7520.	3.0	19
53	Chemiluminescent probes for imaging H_2S in living animals. <i>Chemical Science</i> , 2015, 6, 1979-1985.	7.4	139
54	Convertible MRI contrast: Sensing the delivery and release of anti-glioma nano-drugs. <i>Scientific Reports</i> , 2015, 5, 9874.	3.3	37

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55	The vascular disrupting activity of OXi8006 in endothelial cells and its phosphate prodrug OXi8007 in breast tumor xenografts. <i>Cancer Letters</i> , 2015, 369, 229-241.	7.2	26
56	Dynamic bioluminescence and fluorescence imaging of the effects of the antivasular agent Combretastatin-A4P (CA4P) on brain tumor xenografts. <i>Cancer Letters</i> , 2015, 356, 462-469.	7.2	24
57	TH-CD-204-05: Developing a Non-Invasive MRI Prognostic Biomarker to Predict Response to Hypofractionated Radiotherapy. <i>Medical Physics</i> , 2015, 42, 3732-3733.	3.0	0
58	Abstract 5115: An orthotopic lung tumor model for image-guided microirradiation in rats. , 2015, , .		0
59	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> , 2015, 5, 143-53.	1.0	12
60	Correlations of noninvasive BOLD and TOLD MRI with pO ₂ and relevance to tumor radiation response. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1863-1873.	3.0	114
61	GdDO3NI, a nitroimidazole-based T 1 MRI contrast agent for imaging tumor hypoxia in vivo. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 271-279.	2.6	29
62	Development of Intrinsically Photoluminescent and Photostable Polylactones. <i>Advanced Materials</i> , 2014, 26, 4491-4496.	21.0	55
63	Red-shifted emission from 1,2-dioxetane-based chemiluminescent reactions. <i>Luminescence</i> , 2014, 29, 553-558.	2.9	15
64	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1204-1207.	5.0	23
65	A noninvasive tumor oxygenation imaging strategy using magnetic resonance imaging of endogenous blood and tissue water. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 561-569.	3.0	29
66	Phosphatidylserine-Targeted Molecular Imaging of Tumor Vasculature by Magnetic Resonance Imaging. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 846-855.	1.1	25
67	Dynamic Contrast Enhanced Fluorescent Molecular Imaging of Vascular Disruption Induced by Combretastatin-A4P in Tumor Xenografts. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1545-1551.	1.1	9
68	MRI Hypoxia Measurements. , 2014, , 269-289.		3
69	Synthesis of a 2-Aryl-3-aryl Indole Salt (OXi8007) Resembling Combretastatin A-4 with Application as a Vascular Disrupting Agent. <i>Journal of Natural Products</i> , 2013, 76, 1668-1678.	3.0	50
70	Interview: Imaging in prognostic radiology in cancer. <i>Imaging in Medicine</i> , 2013, 5, 15-18.	0.0	0
71	New frontiers and developing applications in 19F NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 70, 25-49.	7.5	160
72	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> , 2013, 37, 1083-1092.	3.4	66

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73	Novel S-Gal [®] analogs as ¹ H MRI reporters for in vivo detection of ^β 2-galactosidase. Magnetic Resonance Imaging, 2013, 31, 1006-1011.	1.8	14
74	A Multi-Camera System for Bioluminescence Tomography in Preclinical Oncology Research. Diagnostics, 2013, 3, 325-343.	2.6	18
75	Simultaneous measurement of tissue oxygen level ^{independent} (TOLD) and blood oxygenation level ^{independent} (BOLD) effects in abdominal tissue oxygenation level studies. Journal of Magnetic Resonance Imaging, 2013, 38, 1230-1236.	3.4	30
76	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.	1.6	0
77	Dual ¹⁹ F/ ¹ H MR Gene Reporter Molecules for <i>in Vivo</i> Detection of ^β 2-Galactosidase. Bioconjugate Chemistry, 2012, 23, 596-603.	3.6	47
78	¹⁹ F NMR: Clinical and Molecular Imaging Applications. Molecular Medicine and Medicinal, 2012, , 461-524.	0.4	0
79	Tubulin-Destabilizing Agent BPR0L075 Induces Vascular-Disruption in Human Breast Cancer Mammary Fat Pad Xenografts. PLoS ONE, 2012, 7, e43314.	2.5	29
80	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.	2.5	35
81	6-Trifluoromethylpyridoxine: Novel ¹⁹ F NMR pH Indicator for in Vivo Detection. Journal of Medicinal Chemistry, 2012, 55, 6814-6821.	6.4	21
82	Oxygenation in cervical cancer and normal uterine cervix assessed using blood oxygenation level ^{independent} (BOLD) MRI at 3T. NMR in Biomedicine, 2012, 25, 1321-1330.	2.8	58
83	Novel Fe ³⁺ -Based ¹ H MRI ^β 2-Galactosidase Reporter Molecules. ChemPlusChem, 2012, 77, 370-378.	2.8	12
84	Serial Non-Invasive Monitoring of Renal Disease Following Immune-Mediated Injury Using Near-Infrared Optical Imaging. PLoS ONE, 2012, 7, e43941.	2.5	10
85	A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment. Integrative Biology (United Kingdom), 2011, 3, 375.	1.3	87
86	Uncoupling hypoxia signaling from oxygen sensing in the liver results in hypoketotic hypoglycemic death. Oncogene, 2011, 30, 2147-2160.	5.9	42
87	Oxygenation in cervical cancer and normal uterine cervix assessed using BOLD MRI: Initial experiences. Gynecologic Oncology, 2011, 120, S112.	1.4	0
88	Quantitative tissue oxygen measurement in multiple organs using ¹⁹ F MRI in a rat model. Magnetic Resonance in Medicine, 2011, 66, 1722-1730.	3.0	57
89	Hexamethylsiloxane ⁱⁿ based nanoprobes for ¹ H MRI oximetry. NMR in Biomedicine, 2011, 24, 1226-1234.	2.8	15
90	Upregulation of <i>TRAG3</i> gene in urothelial carcinoma of the bladder. International Journal of Cancer, 2011, 128, 2823-2832.	5.1	18

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91	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, 574-581.	0.8	25
92	In vivo Bioluminescence Imaging of Tumor Hypoxia Dynamics of Breast Cancer Brain Metastasis in a Mouse Model. Journal of Visualized Experiments, 2011, , .	0.3	12
93	Abstract 5309: Antivascular activities of novel tubulin binding agent BPR0L075. , 2011, , .		0
94	TU-E-214-04: NMR Assessment of Tumor Hypoxia and Oxygen Dynamics. Medical Physics, 2011, 38, 3772-3773.	3.0	0
95	Gal ⁺ , A novel ¹ H MRI reporter for β -galactosidase. Magnetic Resonance in Medicine, 2010, 64, 65-71.	3.0	43
96	Imaging β -Galactosidase Activity in Human Tumor Xenografts and Transgenic Mice Using a Chemiluminescent Substrate. PLoS ONE, 2010, 5, e12024.	2.5	68
97	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, 2485-2490.	7.1	215
98	On the potential for molecular imaging with Cerenkov luminescence. Optics Letters, 2010, 35, 3889.	3.3	67
99	Correction for Yang et al., Development of aliphatic biodegradable photoluminescent polymers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11818-11818.	7.1	0
100	Development of aliphatic biodegradable photoluminescent polymers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10086-10091.	7.1	210
101	Dynamic Near-Infrared Optical Imaging of 2-Deoxyglucose Uptake by Intracranial Glioma of Athymic Mice. PLoS ONE, 2009, 4, e8051.	2.5	61
102	Comparison of ¹ H blood oxygen level-dependent (BOLD) and ¹⁹ F MRI to investigate tumor oxygenation. Magnetic Resonance in Medicine, 2009, 62, 357-364.	3.0	85
103	Cell encapsulation and oxygenation in nanoporous microcontainers. Biomedical Microdevices, 2009, 11, 1205-1212.	2.8	18
104	BOLD MRI: a tool for predicting tumor therapy outcome based on tumor blood oxygenation and vascular function. Imaging in Medicine, 2009, 1, 11-13.	0.0	2
105	High-Throughput Quantitative Bioluminescence Imaging for Assessing Tumor Burden. Methods in Molecular Biology, 2009, 574, 37-45.	0.9	12
106	A ¹⁹ F-NMR approach using reporter molecule pairs to assess β -galactosidase in human xenograft tumors in vivo. NMR in Biomedicine, 2008, 21, 704-712.	2.8	34
107	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. NMR in Biomedicine, 2008, 21, 899-907.	2.8	56
108	Noninvasive Physiology and Pharmacology Using ¹⁹ F Magnetic Resonance. , 2008, , 197-276.		14

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109	Vascular Imaging of Solid Tumors in Rats with a Radioactive Arsenic-Labeled Antibody that Binds Exposed Phosphatidylserine. <i>Clinical Cancer Research</i> , 2008, 14, 1377-1385.	7.0	98
110	Molecular Imaging of Hypoxia. <i>Journal of Nuclear Medicine</i> , 2008, 49, 129S-148S.	5.0	455
111	Antivascular effects of combretastatin A4 phosphate in breast cancer xenograft assessed using dynamic bioluminescence imaging and confirmed by MRI. <i>FASEB Journal</i> , 2008, 22, 2445-2451.	0.5	58
112	<i>Pten</i> Haploinsufficiency Accelerates Formation of High-Grade Astrocytomas. <i>Cancer Research</i> , 2008, 68, 3286-3294.	0.9	243
113	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1155-1159.	0.9	9
114	Exploring Feasibility of Multicolored CdTe Quantum Dots for In Vitro and In Vivo Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1174-1177.	0.9	22
115	<i>In Vitro</i> and <i>In Vivo</i> Assessment of CdTe and CdHgTe Toxicity and Clearance. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 524-528.	1.1	34
116	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1155-1159.	0.9	7
117	Exploring Feasibility of Multicolored CdTe Quantum Dots for <i>In Vitro</i> and <i>In Vivo</i> Fluorescent Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1174-1177.	0.9	29
118	Physical principles of quantitative nuclear magnetic resonance oximetry. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 1371.	3.0	38
119	Evaluation of red CdTe and near infrared CdHgTe quantum dots by fluorescent imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1155-9.	0.9	5
120	Exploring feasibility of multicolored CdTe quantum dots for in vitro and in vivo fluorescent imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1174-7.	0.9	13
121	¹⁹ F NMR detection of lacZ gene expression via the enzymic hydrolysis of 2- ¹⁹ F-fluoro-4-nitrophenyl β-D-galactopyranoside in vivo in PC3 prostate tumor xenografts in the mouse 1. <i>FASEB Journal</i> , 2007, 21, 2014-2019.	0.5	52
122	Survey of Endourology. <i>Journal of Endourology</i> , 2007, 21, 124-136.	2.1	0
123	Response to "Don't be so BOLD: Potential limitations in the use of BOLD MRI for studies of renal oxygenation". <i>Kidney International</i> , 2007, 71, 1328.	5.2	2
124	The use of histone deacetylase inhibitor FK228 and DNA hypomethylation agent 5-azacytidine in human bladder cancer therapy. <i>International Journal of Cancer</i> , 2007, 120, 1795-1802.	5.1	45
125	Correlation of radiation response with tumor oxygenation in the Dunning prostate R3327-AT1 tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1179-1186.	0.8	47
126	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.	1.8	561

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127	UTSW Small Animal Positron Emission Imager. IEEE Transactions on Nuclear Science, 2006, 53, 2591-2600.	2.0	8
128	Synthesis and Characterization of Novel lacZ Gene Reporter Molecules: Detection of ^{125}I -Galactosidase Activity by ^{19}F Nuclear Magnetic Resonance of Polyglycosylated Fluorinated Vitamin B6. Journal of Medicinal Chemistry, 2006, 49, 1991-1999.	6.4	22
129	In-Vivo Optical Assessment of Vascular Oxygen Dynamics in the AT1-R3327 Dunning Prostate Tumor. , 2006, , ThE73.		0
130	Prevention of Thiazide-Induced Hypokalemia Without Magnesium Depletion by Potassium-Magnesium-Citrate. American Journal of Therapeutics, 2006, 13, 101-108.	0.9	18
131	Non-invasive assessment of kidney oxygenation: a role for BOLD MRI. Kidney International, 2006, 70, 10-11.	5.2	27
132	Synthesis and evaluation of novel enhanced gene reporter molecules: Detection of ^{125}I -galactosidase activity using ^{19}F NMR of trifluoromethylated aryl ^{125}I -d-galactopyranosides. Bioorganic and Medicinal Chemistry, 2006, 14, 326-333.	3.0	44
133	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.	1.6	29
134	Imaging ^{125}I -galactosidase activity using ^{19}F chemical shift imaging of LacZ gene-reporter molecule 2-fluoro-4-nitrophenol- ^{125}I -d-galactopyranoside. Magnetic Resonance Imaging, 2006, 24, 959-962.	1.8	79
135	Novel ^1H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. Magnetic Resonance in Medicine, 2006, 55, 743-748.	3.0	64
136	Tumour oxygen dynamics measured simultaneously by near-infrared spectroscopy and ^{19}F magnetic resonance imaging in rats. Physics in Medicine and Biology, 2006, 51, 45-60.	3.0	68
137	Simultaneous monitoring tumor vascular and tissue oxygen tension under hyperbaric oxygen exposure. , 2006, , .		0
138	Acute Effects of Combretastatin A4 Phosphate on Breast Tumor Hemodynamics Monitored by Near Infrared Spectroscopy. , 2006, , .		1
139	Breast tumor vascular oxygenation and blood volume assessed by near-infrared spectroscopy and magnetic resonance. , 2005, , .		0
140	Chemotherapeutic (cyclophosphamide) effects on rat breast tumor hemodynamics monitored by multi-channel NIRS. , 2005, , .		0
141	Projection and Pinhole-Based Data Acquisition for Small-Animal SPECT Using Storage Phosphor Technology. , 2005, , 279-286.		0
142	A model of hemodynamic responses of rat tumors to hyperoxic gas challenge. , 2005, , .		0
143	Comparison of CsI(Tl) and Scintillating Plastic in a Multi-Pinhole/CCD-Based Gamma Camera for Small-Animal Low-Energy SPECT. , 2005, , 189-194.		1
144	Tumor physiologic response to combretastatin A4 phosphate assessed by MRI. International Journal of Radiation Oncology Biology Physics, 2005, 62, 872-880.	0.8	67

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145	A new method for radiochemical separation of arsenic from irradiated germanium oxide. Applied Radiation and Isotopes, 2005, 63, 343-351.	1.5	46
146	Early inactivation of p53 tumor suppressor gene cooperating with NF1 loss induces malignant astrocytoma. Cancer Cell, 2005, 8, 119-130.	16.8	481
147	Reconstruction Algorithm with Resolution Deconvolution in a Small-Animal PET Imager. , 2005, , 163-175.		3
148	19F: A Versatile Reporter for Non-Invasive Physiology and Pharmacology Using Magnetic Resonance. Current Medicinal Chemistry, 2005, 12, 819-848.	2.4	232
149	Editorial [Hot Topic: Reporter Molecules for Molecular Imaging (Guest Editor: Ralph P. Mason)]. Current Medicinal Chemistry, 2005, 12, 749-750.	2.4	0
150	Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. Journal Physics D: Applied Physics, 2005, 38, 2682-2690.	2.8	11
151	A no-carrier-added ⁷² Se/ ⁷² As radionuclide generator based on solid phase extraction. Radiochimica Acta, 2005, 93, .	1.2	39
152	Dermatan carriers for neovascular transport targeting, deep tumor penetration and improved therapy. Journal of Controlled Release, 2005, 109, 222-235.	9.9	33
153	Continuous Low-Dose (Metronomic) Chemotherapy on Rat Prostate Tumors Evaluated Using MRI In Vivo and Comparison with Histology. Neoplasia, 2005, 7, 678-687.	5.3	27
154	Estimated fraction of tumor vascular blood contents sampled by near infrared spectroscopy and ¹⁹ F magnetic resonance spectroscopy. Optics Express, 2005, 13, 1724.	3.4	13
155	Synthesis and Evaluation of a Novel Gene Reporter Molecule: Detection of b-galactosidase Activity Using ¹⁹ F NMR of a Fluorinated Vitamin B6 Conjugate+. Medicinal Chemistry, 2005, 1, 255-262.	1.5	22
156	Near-Infrared Spectroscopy and Imaging of Tumor Vascular Oxygenation. Methods in Enzymology, 2004, 386, 349-378.	1.0	24
157	Measuring Changes in Tumor Oxygenation. Methods in Enzymology, 2004, 386, 378-418.	1.0	99
158	Biodistribution of phosphodiester and phosphorothioate siRNA. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1139-1143.	2.2	249
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