

# 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	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
2	Early inactivation of p53 tumor suppressor gene cooperating with NF1 loss induces malignant astrocytoma. <i>Cancer Cell</i> , 2005, 8, 119-130.	16.8	481
3	Molecular Imaging of Hypoxia. <i>Journal of Nuclear Medicine</i> , 2008, 49, 129S-148S.	5.0	455
4	Biodistribution of phosphodiester and phosphorothioate siRNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 1139-1143.	2.2	249
5	<i>Pten</i> Haploinsufficiency Accelerates Formation of High-Grade Astrocytomas. <i>Cancer Research</i> , 2008, 68, 3286-3294.	0.9	243
6	<sup>19</sup> F: A Versatile Reporter for Non-Invasive Physiology and Pharmacology Using Magnetic Resonance. <i>Current Medicinal Chemistry</i> , 2005, 12, 819-848.	2.4	232
7	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> , 2010, 107, 2485-2490.	7.1	215
8	Development of aliphatic biodegradable photoluminescent polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10086-10091.	7.1	210
9	New frontiers and developing applications in <sup>19</sup> F NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 70, 25-49.	7.5	160
10	Chemiluminescent probes for imaging H <sub>2</sub> S in living animals. <i>Chemical Science</i> , 2015, 6, 1979-1985.	7.4	139
11	Validating Bioluminescence Imaging as a High-Throughput, Quantitative Modality for Assessing Tumor Burden. <i>Molecular Imaging</i> , 2004, 3, 117-124.	1.4	121
12	Noninvasive investigation of blood oxygenation dynamics of tumors by near-infrared spectroscopy. <i>Applied Optics</i> , 2000, 39, 5231.	2.1	114
13	Correlations of noninvasive BOLD and TOLD MRI with pO <sub>2</sub> and relevance to tumor radiation response. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1863-1873.	3.0	114
14	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> , 2001, 49, 1097-1108.	0.8	111
15	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. <i>Analytical Chemistry</i> , 2016, 88, 4995-5002.	6.5	109
16	Hexafluorobenzene: a Sensitive <sup>19</sup> F NMR Indicator of Tumor Oxygenation. , 1996, 9, 125-134.		105
17	In vivo oxygen tension and temperature: Simultaneous determination using <sup>19</sup> F NMR spectroscopy of perfluorocarbon. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 296-302.	3.0	102
18	Non-invasive determination of tumor oxygen tension and local variation with growth. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994, 29, 95-103.	0.8	101

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19	Measuring Changes in Tumor Oxygenation. <i>Methods in Enzymology</i> , 2004, 386, 378-418.	1.0	99
20	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
21	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
22	A perspective on vascular disrupting agents that interact with tubulin: preclinical tumor imaging and biological assessment. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 375.	1.3	87
23	Perfluorocarbon imaging in vivo: A <sup>19</sup> F MRI study in tumor-bearing mice. <i>Magnetic Resonance Imaging</i> , 1989, 7, 475-485.	1.8	86
24	Bone phenotype of the aromatase deficient mouse. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2001, 79, 49-59.	2.5	85
25	Comparison of <sup>1</sup> H blood oxygen level-dependent (BOLD) and <sup>19</sup> F MRI to investigate tumor oxygenation. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 357-364.	3.0	85
26	Imaging <sup>125</sup> I-galactosidase activity using <sup>19</sup> F chemical shift imaging of LacZ gene-reporter molecule 2-fluoro-4-nitrophenol- <sup>125</sup> I-d-galactopyranoside. <i>Magnetic Resonance Imaging</i> , 2006, 24, 959-962.	1.8	79
27	Tumor Oxygen Dynamics: Correlation of In Vivo MRI with Histological Findings. <i>Neoplasia</i> , 2003, 5, 308-318.	5.3	73
28	Interplay of tumor vascular oxygenation and tumor pO <sub>2</sub> observed using near-infrared spectroscopy, an oxygen needle electrode, and [ <sup>19</sup> F MR pO <sub>2</sub> ] mapping. <i>Journal of Biomedical Optics</i> , 2003, 8, 53.	2.6	70
29	Tumour oxygen dynamics measured simultaneously by near-infrared spectroscopy and <sup>19</sup> F magnetic resonance imaging in rats. <i>Physics in Medicine and Biology</i> , 2006, 51, 45-60.	3.0	68
30	Imaging <sup>125</sup> I-Galactosidase Activity in Human Tumor Xenografts and Transgenic Mice Using a Chemiluminescent Substrate. <i>PLoS ONE</i> , 2010, 5, e12024.	2.5	68
31	Tumor physiologic response to combretastatin A4 phosphate assessed by MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 872-880.	0.8	67
32	On the potential for molecular imaging with Cerenkov luminescence. <i>Optics Letters</i> , 2010, 35, 3889.	3.3	67
33	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
34	Novel <sup>1</sup> H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 743-748.	3.0	64
35	Novel NMR approach to assessing gene transfection: 4-fluoro-2-nitrophenyl- <sup>125</sup> I-D-galactopyranoside as a prototype reporter molecule for <sup>125</sup> I-galactosidase. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 616-620.	3.0	62
36	Dynamic Near-Infrared Optical Imaging of 2-Deoxyglucose Uptake by Intracranial Glioma of Athymic Mice. <i>PLoS ONE</i> , 2009, 4, e8051.	2.5	61

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37	Tissue oxygenation: A novel determination using <sup>19</sup> F surface coil NMR spectroscopy of sequestered perfluorocarbon emulsion. <i>Magnetic Resonance in Medicine</i> , 1991, 18, 71-79.	3.0	59
38	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
39	Oxygenation in cervical cancer and normal uterine cervix assessed using blood oxygenation level-dependent (BOLD) MRI at 3T. <i>NMR in Biomedicine</i> , 2012, 25, 1321-1330.	2.8	58
40	Correlation of Tumor Oxygen Dynamics with Radiation Response of the Dunning Prostate R3327-H1 Tumor. <i>Radiation Research</i> , 2003, 159, 621-631.	1.5	57
41	Quantitative tissue oxygen measurement in multiple organs using <sup>19</sup> F MRI in a rat model. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1722-1730.	3.0	57
42	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. <i>NMR in Biomedicine</i> , 2008, 21, 899-907.	2.8	56
43	Regional Tumor Oximetry: <sup>19</sup> F NMR Spectroscopy of Hexafluorobenzene. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 41, 161-171.	0.8	55
44	Tumor Oxygen Dynamics with Respect to Growth and Respiratory Challenge: Investigation of the Dunning Prostate R3327-H1 Tumor. <i>Radiation Research</i> , 2001, 156, 510-520.	1.5	55
45	Development of Intrinsically Photoluminescent and Photostable Polylactones. <i>Advanced Materials</i> , 2014, 26, 4491-4496.	21.0	55
46	Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. <i>Cancer Letters</i> , 2016, 380, 69-77.	7.2	55
47	A Comparison of Three Commercial Perfluorocarbon Emulsions as High-Field <sup>19</sup> F NMR Probes of Oxygen Tension and Temperature. <i>Journal of Magnetic Resonance Series B</i> , 1995, 106, 131-141.	1.6	53
48	<sup>19</sup> F 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> , 2014-2019.	0.5	52
49	Regional tumor oxygen dynamics: <sup>19</sup> F PDSR EPI of hexafluorobenzene. <i>Magnetic Resonance Imaging</i> , 1997, 15, 971-981.	1.8	50
50	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
51	Formaldehyde metabolism by <i>Escherichia coli</i> . Detection by in vivo carbon-13 NMR spectroscopy of S-(hydroxymethyl)glutathione as a transient intracellular intermediate. <i>Biochemistry</i> , 1986, 25, 4504-4507.	2.5	49
52	Differential oxygen dynamics in two diverse Dunning prostate R3327 rat tumor sublines (MAT-Lu and Tj ETQq0 0 0 rgBT /Overlock 10 T). <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 744-756.	0.8	48
53	A noninvasive assessment of myocardial oxygen tension: <sup>19</sup> f nmr spectroscopy of sequestered perfluorocarbon emulsion. <i>Magnetic Resonance in Medicine</i> , 1992, 27, 310-317.	3.0	47
54	Comparison of BOLD contrast and Gd-DTPA dynamic contrast-enhanced imaging in rat prostate tumor. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 953-960.	3.0	47

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55	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
56	Dual <sup>19</sup> F/ <sup>1</sup> H MR Gene Reporter Molecules for <i>in Vivo</i> Detection of Î²-Galactosidase. <i>Bioconjugate Chemistry</i> , 2012, 23, 596-603.	3.6	47
57	Regional Tumor Oxygenation and Measurement of Dynamic Changes. <i>Radiation Research</i> , 1999, 152, 239.	1.5	46
58	A new method for radiochemical separation of arsenic from irradiated germanium oxide. <i>Applied Radiation and Isotopes</i> , 2005, 63, 343-351.	1.5	46
59	Isolated tumor growth in a surgically formed skin pedicle in the rat: A new tumor model for NMR studies. <i>Magnetic Resonance Imaging</i> , 1993, 11, 1007-1017.	1.8	45
60	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
61	Dynamic oxygen challenge evaluated by NMR <sup>1</sup> T and <sup>2</sup> T* insights into tumor oxygenation. <i>NMR in Biomedicine</i> , 2015, 28, 937-947.	2.8	45
62	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	45
63	Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. <i>Applied Optics</i> , 2003, 42, 2960.	2.1	44
64	Synthesis and evaluation of novel enhanced gene reporter molecules: Detection of Î²-galactosidase activity using <sup>19</sup> F NMR of trifluoromethylated aryl Î²-d-galactopyranosides. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 326-333.	3.0	44
65	Transmembrane pH Gradients In vivo: Measurements Using Fluorinated Vitamin B6 Derivatives*. <i>Current Medicinal Chemistry</i> , 1999, 6, 481-499.	2.4	44
66	Regional tumor oxygen tension: fluorine echo planar imaging of hexafluorobenzene reveals heterogeneity of dynamics. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 42, 747-750.	0.8	43
67	Gal®, A novel <sup>1</sup> H MRI reporter for Î²-galactosidase. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 65-71.	3.0	43
68	Uncoupling hypoxia signaling from oxygen sensing in the liver results in hypoketotic hypoglycemic death. <i>Oncogene</i> , 2011, 30, 2147-2160.	5.9	42
69	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
70	Prognostic Radiology: Quantitative Assessment of Tumor Oxygen Dynamics by MRI. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2001, 24, 462-466.	1.3	40
71	Non-Invasive Physiology: <sup>19</sup> F NMR of Perfluorocarbons. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1994, 22, 1141-1153.	0.9	39
72	A no-carrier-added <sup>72</sup> Se/ <sup>72</sup> As radionuclide generator based on solid phase extraction. <i>Radiochimica Acta</i> , 2005, 93, .	1.2	39

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73	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
74	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
75	Physical principles of quantitative nuclear magnetic resonance oximetry. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 1371.	3.0	38
76	Development of novel <sup>19</sup> F NMR pH indicators: synthesis and evaluation of a series of fluorinated vitamin B 6 analogues. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 1631-1639.	3.0	37
77	Convertible MRI contrast: Sensing the delivery and release of anti-glioma nano-drugs. <i>Scientific Reports</i> , 2015, 5, 9874.	3.3	37
78	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
79	Oxygen tension mapping with F-19 echo-planar MR imaging of sequestered perfluorocarbon. <i>Journal of Magnetic Resonance Imaging</i> , 1994, 4, 595-602.	3.4	36
80	Fluorinated Proteins as Potential <sup>19</sup> F Magnetic Resonance Imaging and Spectroscopy Agents. <i>Bioconjugate Chemistry</i> , 1994, 5, 257-261.	3.6	35
81	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> , 2012, 7, e46106.	2.5	35
82	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
83	Simultaneous intracellular and extracellular pH measurement in the heart by <sup>19</sup> F NMR of 6-fluoropyridoxol. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 551-556.	3.0	34
84	A <sup>19</sup> F NMR approach using reporter molecule pairs to assess <sup>125</sup> I-α-galactosidase in human xenograft tumors <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2008, 21, 704-712.	2.8	34
85	<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
86	Trans alkenes by stereoselective reduction of <sup>1</sup> H-Ph <sub>2</sub> PO ketones: -isosaffrole, -anethole, and peniculin. <i>Tetrahedron Letters</i> , 1983, 24, 5293-5296.	1.4	33
87	Regional myocardial oxygen tension: <sup>19</sup> F MRI of sequestered perfluorocarbon. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 827-833.	3.0	33
88	Novel NMR Platform for Detecting Gene Transfection: Synthesis and Evaluation of Fluorinated Phenyl <sup>125</sup> I-d-Galactosides with Potential Application for Assessing LacZ Gene Expression. <i>Bioconjugate Chemistry</i> , 2004, 15, 1334-1341.	3.6	33
89	Dermatan carriers for neovascular transport targeting, deep tumor penetration and improved therapy. <i>Journal of Controlled Release</i> , 2005, 109, 222-235.	9.9	33
90	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)- <sup>1</sup> H-bisabolene. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987, , 2569-2577.	0.9	31

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91	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. <i>Cancer Research</i> , 2021, 81, 1189-1200.	0.9	31
92	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
93	Molecular imaging in prostate cancer. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 473-483.	2.6	30
94	Simultaneous measurement of tissue oxygen levelâ€dependent (TOLD) and blood oxygenation levelâ€dependent (BOLD) effects in abdominal tissue oxygenation level studies. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1230-1236.	3.4	30
95	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> , 2006, 569, 512-517.	1.6	29
96	Tubulin-Destabilizing Agent BPROLO75 Induces Vascular-Disruption in Human Breast Cancer Mammary Fat Pad Xenografts. <i>PLoS ONE</i> , 2012, 7, e43314.	2.5	29
97	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
98	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
99	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
100	Continuous Low-Dose (Metronomic) Chemotherapy on Rat Prostate Tumors Evaluated Using MRI In Vivo and Comparison with Histology. <i>Neoplasia</i> , 2005, 7, 678-687.	5.3	27
101	Non-invasive assessment of kidney oxygenation: a role for BOLD MRI. <i>Kidney International</i> , 2006, 70, 10-11.	5.2	27
102	Quantitative assessment of tumor oxygen dynamics: Molecular imaging for prognostic radiology. <i>Journal of Cellular Biochemistry</i> , 2002, 87, 45-53.	2.6	26
103	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
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> , 2018, 9, 4090-4101.	1.8	26
105	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> , 2011, 80, 574-581.	0.8	25
106	Phosphatidylserine-Targeted Molecular Imaging of Tumor Vasculature by Magnetic Resonance Imaging. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 846-855.	1.1	25
107	A Chemiluminescent Probe for HNO Quantification and Realâ€Time Monitoring in Living Cells. <i>Angewandte Chemie</i> , 2019, 131, 1375-1379.	2.0	25
108	In vivo enzymology: a deuterium NMR study of formaldehyde dismutase in <i>Pseudomonas putida</i> F61a and <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 1989, 28, 2160-2168.	2.5	24

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109	Near-Infrared Spectroscopy and Imaging of Tumor Vascular Oxygenation. <i>Methods in Enzymology</i> , 2004, 386, 349-378.	1.0	24
110	Dynamic bioluminescence and fluorescence imaging of the effects of the antivascular agent Combretastatin-A4P (CA4P) on brain tumor xenografts. <i>Cancer Letters</i> , 2015, 356, 462-469.	7.2	24
111	Energy transfer chemiluminescence for ratiometric pH imaging. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4176-4182.	2.8	24
112	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
113	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1377-1392.	3.4	24
114	Dynamic Breast Tumor Oximetry: The Development of Prognostic Radiology. <i>Technology in Cancer Research and Treatment</i> , 2002, 1, 471-478.	1.9	23
115	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
116	Incorporating Oxygen-Enhanced MRI into Multi-Parametric Assessment of Human Prostate Cancer. <i>Diagnostics</i> , 2017, 7, 48.	2.6	23
117	Synthesis and Characterization of Novel lacZ Gene Reporter Molecules: Detection of $\beta$ -Galactosidase Activity by $^{19}\text{F}$ Nuclear Magnetic Resonance of Polyglycosylated Fluorinated Vitamin B6. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 1991-1999.	6.4	22
118	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
119	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
120	Synthesis and Evaluation of a Novel Gene Reporter Molecule: Detection of $\beta$ -galactosidase Activity Using $^{19}\text{F}$ NMR of a Fluorinated Vitamin B6 Conjugate+. <i>Medicinal Chemistry</i> , 2005, 1, 255-262.	1.5	22
121	6-Trifluoromethylpyridoxine: Novel $^{19}\text{F}$ NMR pH Indicator for in Vivo Detection. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6814-6821.	6.4	21
122	Tumor Oximetry: Comparison of $^{19}\text{F}$ MR EPI and Electrodes. <i>Advances in Experimental Medicine and Biology</i> , 2003, 530, 19-27.	1.6	21
123	6-Fluoropyridoxol: A novel probe of cellular pH using $^{19}\text{F}$ NMR spectroscopy. <i>FEBS Letters</i> , 1994, 349, 234-238.	2.8	20
124	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7497-7520.	3.0	19
125	Oxygen-sensitive MRI assessment of tumor response to hypoxic gas breathing challenge. <i>NMR in Biomedicine</i> , 2019, 32, e4101.	2.8	19
126	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



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127	Tumor Oxygen Tension: Measurement Using Oxygenated $^{19}\text{F}$ as $^{19}\text{F}$ NMR Probe AT 4.7 T. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 1361-1367.	0.9	18
128	Prevention of Thiazide-Induced Hypokalemia Without Magnesium Depletion by Potassium-Magnesium-Citrate. American Journal of Therapeutics, 2006, 13, 101-108.	0.9	18
129	Cell encapsulation and oxygenation in nanoporous microcontainers. Biomedical Microdevices, 2009, 11, 1205-1212.	2.8	18
130	Upregulation of <i>TRAG3</i> gene in urothelial carcinoma of the bladder. International Journal of Cancer, 2011, 128, 2823-2832.	5.1	18
131	A Multi-Camera System for Bioluminescence Tomography in Preclinical Oncology Research. Diagnostics, 2013, 3, 325-343.	2.6	18
132	Validating Bioluminescence Imaging as a High-Throughput, Quantitative Modality for Assessing Tumor Burden. Molecular Imaging, 2004, 3, 153535002004031.	1.4	16
133	A novel editing technique for $^{19}\text{F}$ MRI: Molecule-specific imaging. Magnetic Resonance Imaging, 1990, 8, 729-736.	1.8	15
134	Hexamethyldisiloxane-based nanoprobe for $^1\text{H}$ MRI oximetry. NMR in Biomedicine, 2011, 24, 1226-1234.	2.8	15
135	Red-shifted emission from 1,2-dioxetane-based chemiluminescent reactions. Luminescence, 2014, 29, 553-558.	2.9	15
136	Inorganic phosphate-triggered release of anti-cancer arsenic trioxide from a self-delivery system: an in vitro and in vivo study. Nanoscale, 2016, 8, 6094-6100.	5.6	15
137	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. MedChemComm, 2018, 9, 1649-1662.	3.4	15
138	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.	3.0	15
139	Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1519-1529.	0.8	15
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