Ralph Mason

List of Articles by Year
in descending order

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Version: 2025-02-01

171 peer-reviewed articles	6,350 peer-reviewed citations	89725 41 peer-reviewed h-index	1439196 2.33 score
218 documents	7901 doc citations	73043 47 h-index	16514 citing authors

#	Article	IF	Citations
1	A silicon rhodamine 1,2-dioxetane chemiluminophore for in vivo near-infrared imaging. Organic and Biomolecular Chemistry, 2025, 23, 1846-1850.	1.8	1
2	Evaluating Therapeutic Efficacy of the Vascular Disrupting Agent OXi8007 Against Kidney Cancer in Mice. Cancers, 2025, 17, 771.	2.7	4
3	Benzosuberene and Tetracyclic Analogues as Colchicine Site Inhibitors of Tubulin Polymerization. ACS Medicinal Chemistry Letters, 2025, 16, 1098-1107.	2.1	3
4	Current status of optoacoustic breast imaging and future trends in clinical application: is it ready for prime time?. European Radiology, 2024, 34, 6092-6107.	3.0	10
5	Tumor Hypoxia: Long Ignored but Now Detectable and Potentially Actionable. Clinical Cancer Research, 2024, 30, 5503-5504.	4.5	1
6	Oxygen-Sensing Chemiluminescent Iridium(III) 1,2-Dioxetanes: Unusual Coordination and Activity. Analysis & Sensing, 2023, 3, .	1.4	10
7	13C NMR quantification of polyamine syntheses in rat prostate. NMR in Biomedicine, 2023, 36, .	1.9	1
8	Dodecafluoropentane Emulsion as a Radiosensitizer in Glioblastoma Multiforme. Cancer Research Communications, 2023, 3, 1607-1614.	2.1	10
9	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. Angewandte Chemie - International Edition, 2022, 61, .	11.6	91
10	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. Angewandte Chemie, 2022, 134, .	0.9	13
11	Demonstrating Tumor Vascular Disrupting Activity of the Small-Molecule Dihydronaphthalene Tubulin-Binding Agent OXi6196 as a Potential Therapeutic for Cancer Treatment. Cancers, 2022, 14, 4208.	2.7	7
12	The future of MRI in radiation therapy: Challenges and opportunities for the MR community. Magnetic Resonance in Medicine, 2022, 88, 2592-2608.	2.4	44
13	Preclinical Applications of Multi-Platform Imaging in Animal Models of Cancer. Cancer Research, 2021, 81, 1189-1200.	2.6	63
14	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.	1.2	16
15	Non-Invasive Evaluation of Acute Effects of Tubulin Binding Agents: A Review of Imaging Vascular Disruption in Tumors. Molecules, 2021, 26, 2551.	3.2	21
16	Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1519-1529.	1.3	26
17	Imaging-Guided Evaluation of the Novel Small-Molecule Benzosuberene Tubulin-Binding Agent KGP265 as a Potential Therapeutic Agent for Cancer Treatment. Cancers, 2021, 13, 4769.	2.7	16
18	A scalable open-source MATLAB toolbox for reconstruction and analysis of multispectral optoacoustic tomography data. Scientific Reports, 2021, 11, .	2.7	8

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19	Ratiometric pH Imaging Using a 1,2-Dioxetane Chemiluminescence Resonance Energy Transfer Sensor in Live Animals. ACS Sensors, 2020, 5, 2925-2932.	7.1	54
20	Oxygen-Enhanced Optoacoustic Tomography Reveals the Effectiveness of Targeting Heme and Oxidative Phosphorylation at Normalizing Tumor Vascular Oxygenation. Cancer Research, 2020, 80, 3542-3555.	2.6	29
21	Evaluating online filtering algorithms to enhance dynamic multispectral optoacoustic tomography. Photoacoustics, 2020, 19, 100184.	5.1	8
22	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.	2.5	26
23	The effect of flow on blood oxygen level dependent (R*2) MRI of orthotopic lung tumors. Magnetic Resonance in Medicine, 2019, 81, 3787-3797.	2.4	11
24	Oxygen-sensitive MRI assessment of tumor response to hypoxic gas breathing challenge. NMR in Biomedicine, 2019, 32, .	1.9	22
25	Kinetics-Based Measurement of Hypoxia in Living Cells and Animals Using an Acetoxymethyl Ester Chemiluminescent Probe. ACS Sensors, 2019, 4, 1391-1398.	7.1	54
26	Structure Guided Design, Synthesis, and Biological Evaluation of Novel Benzosuberene Analogues as Inhibitors of Tubulin Polymerization. Journal of Medicinal Chemistry, 2019, 62, 5594-5615.	4.0	32
27	Translating preclinical MRI methods to clinical oncology. Journal of Magnetic Resonance Imaging, 2019, 50, 1377-1392.	2.6	34
28	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. Angewandte Chemie, 2019, 131, 1375-1379.	0.9	25
29	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. Angewandte Chemie - International Edition, 2019, 58, 1361-1365.	11.6	122
30	Targeting Phosphatidylserine with Calcium-Dependent Protein–Drug Conjugates for the Treatment of Cancer. Molecular Cancer Therapeutics, 2018, 17, 169-182.	1.2	24
31	MR-CBCT image-guided system for radiotherapy of orthotopic rat prostate tumors. PLoS ONE, 2018, 13, e0198065.	1.5	8
32	Energy transfer chemiluminescence for ratiometric pH imaging. Organic and Biomolecular Chemistry, 2018, 16, 4176-4182.	1.8	26
33	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. MedChemComm, 2018, 9, 1649-1662.	4.5	22
34	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. Translational Oncology, 2018, 11, 1251-1258.	2.8	31
35	Tomographic breathing detection: a method to noninvasively assess in situ respiratory dynamics. Journal of Biomedical Optics, 2018, 23, 1.	1.7	5
36	Oxygen breathing challenge- the simplest theranostic. Theranostics, 2017, 7, 3873-3875.	8.1	9

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37	Incorporating Oxygen-Enhanced MRI into Multi-Parametric Assessment of Human Prostate Cancer. Diagnostics, 2017, 7, 48.	2.2	27
38	Wavelength shifting of chemiluminescence using quantum dots to enhance tissue light penetration. Optical Materials Express, 2016, 6, 1384.	1.7	15
39	Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. Radiation Research, 2016, 185, 616-622.	1.1	8
40	Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. Medical Physics, 2016, 43, 1275-1284.	2.1	7
41	Carbon ion radiotherapy decreases the impact of tumor heterogeneity on radiation response in experimental prostate tumors. Cancer Letters, 2016, 378, 97-103.	6.5	51
42	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. Analytical Chemistry, 2016, 88, 4995-5002.	5.2	125
43	A role for dynamic contrast-enhanced magnetic resonance imaging in predicting tumour radiation response. British Journal of Cancer, 2016, 114, 1206-1211.	4.1	12
44	Synthesis and biological evaluation of benzocyclooctene-based and indene-based anticancer agents that function as inhibitors of tubulin polymerization. MedChemComm, 2016, 7, 2418-2427.	4.5	48
45	Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. Cancer Letters, 2016, 380, 69-77.	6.5	66
46	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.	2.1	44
47	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.	3.6	16
48	Assessment of tumor response to oxygen challenge using quantitative diffusion MRI in an animal model. Journal of Magnetic Resonance Imaging, 2015, 42, 1450-1457.	2.6	11
49	Commentary on Photoacoustic Tomography. Journal of Nuclear Medicine, 2015, 56, 1815-1816.	4.0	5
50	Dynamic oxygen challenge evaluated by NMR T1 and T2* – insights into tumor oxygenation. NMR in Biomedicine, 2015, 28, 937-947.	1.9	51
51	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. Bioorganic and Medicinal Chemistry, 2015, 23, 7497-7520.	2.1	28
52	Chemiluminescent probes for imaging H2S in living animals. Chemical Science, 2015, 6, 1979-1985.	5.3	166
53	Convertible MRI contrast: Sensing the delivery and release of anti-glioma nano-drugs. Scientific Reports, 2015, 5, .	2.7	41
54	The vascular disrupting activity of OXi8006 in endothelial cells and its phosphate prodrug OXi8007 in breast tumor xenografts. Cancer Letters, 2015, 369, 229-241.	6.5	33

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55	Dynamic bioluminescence and fluorescence imaging of the effects of the antivascular agent Combretastatin-A4P (CA4P) on brain tumor xenografts. Cancer Letters, 2015, 356, 462-469.	6.5	26
56	TH-CD-204-05: Developing a Non-Invasive MRI Prognostic Biomarker to Predict Response to Hypofractionated Radiotherapy. Medical Physics, 2015, 42, 3732-3733.	2.1	0
57	Correlations of noninvasive BOLD and TOLD MRI with pO2 and relevance to tumor radiation response. Magnetic Resonance in Medicine, 2014, 71, 1863-1873.	2.4	130
58	Development of Intrinsically Photoluminescent and Photostable Polylactones. Advanced Materials, 2014, 26, 4491-4496.	17.5	62
59	Red-shifted emission from 1,2-dioxetane-based chemiluminescent reactions. Luminescence, 2014, 29, 553-558.	1.8	21
60	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. Journal of Nuclear Medicine, 2014, 55, 1204-1207.	4.0	28
61	A noninvasive tumor oxygenation imaging strategy using magnetic resonance imaging of endogenous blood and tissue water. Magnetic Resonance in Medicine, 2014, 71, 561-569.	2.4	29
62	Phosphatidylserine-Targeted Molecular Imaging of Tumor Vasculature by Magnetic Resonance Imaging. Journal of Biomedical Nanotechnology, 2014, 10, 846-855.	0.2	28
63	Dynamic Contrast Enhanced Fluorescent Molecular Imaging of Vascular Disruption Induced by Combretastatin-A4P in Tumor Xenografts. Journal of Biomedical Nanotechnology, 2014, 10, 1545-1551.	0.2	9
64	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, 1668-1678.	2.5	62
65	New frontiers and developing applications in 19F NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 70, 25-49.	6.5	194
66	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, 1083-1092.	2.6	73
67	Novel S-Gal® analogs as 1H MRI reporters for in vivo detection of β-galactosidase. Magnetic Resonance Imaging, 2013, 31, 1006-1011.	1.2	16
68	A Multi-Camera System for Bioluminescence Tomography in Preclinical Oncology Research. Diagnostics, 2013, 3, 325-343.	2.2	19
69	GdDO3NI, a nitroimidazole-based T 1 MRI contrast agent for imaging tumor hypoxia in vivo. Journal of Biological Inorganic Chemistry, 2013, 19, 271-279.	1.7	32
70	Dual 19F/1H MR Gene Reporter Molecules for in Vivo Detection of β-Galactosidase. Bioconjugate Chemistry, 2012, 23, 596-603.	2.9	53
71	Tubulin-Destabilizing Agent BPR0L075 Induces Vascular-Disruption in Human Breast Cancer Mammary Fat Pad Xenografts. PLoS ONE, 2012, 7, e43314.	1.5	31
72	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.	1.5	37

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73	6-Trifluoromethylpyridoxine: Novel 19F NMR pH Indicator for in Vivo Detection. Journal of Medicinal Chemistry, 2012, 55, 6814-6821.	4.0	25
74	Oxygenation in cervical cancer and normal uterine cervix assessed using blood oxygenation level-dependent (BOLD) MRI at 3T. NMR in Biomedicine, 2012, 25, 1321-1330.	1.9	63
75	Novel Fe3+-Based 1H MRI β-Galactosidase Reporter Molecules. ChemPlusChem, 2012, 77, 370-378.	2.1	13
76	Serial Non-Invasive Monitoring of Renal Disease Following Immune-Mediated Injury Using Near-Infrared Optical Imaging. PLoS ONE, 2012, 7, e43941.	1.5	11
77	Uncoupling hypoxia signaling from oxygen sensing in the liver results in hypoketotic hypoglycemic death. Oncogene, 2011, 30, 2147-2160.	5.2	48
78	Quantitative tissue oxygen measurement in multiple organs using 19F MRI in a rat model. Magnetic Resonance in Medicine, 2011, 66, 1722-1730.	2.4	61
79	Hexamethyldisiloxane-based nanoprobes for 1H MRI oximetry. NMR in Biomedicine, 2011, 24, 1226-1234.	1.9	16
80	Upregulation of TRAG3 gene in urothelial carcinoma of the bladder. International Journal of Cancer, 2011, 128, 2823-2832.	2.8	22
81	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.	1.3	25
82	In vivo Bioluminescence Imaging of Tumor Hypoxia Dynamics of Breast Cancer Brain Metastasis in a Mouse Model. Journal of Visualized Experiments, 2011, , .	0.2	12
83	TU-E-214-04: NMR Assessment of Tumor Hypoxia and Oxygen Dynamics. Medical Physics, 2011, 38, 3772-3773.	2.1	0
84	In vivo Bioluminescence Imaging of Tumor Hypoxia Dynamics of Breast Cancer Brain Metastasis in a Mouse Model. Journal of Visualized Experiments, 2011, , .	0.2	1
85	S-Gal®, A novel 1H MRI reporter for β-galactosidase. Magnetic Resonance in Medicine, 2010, 64, 65-71.	2.4	47
86	Imaging β-Galactosidase Activity in Human Tumor Xenografts and Transgenic Mice Using a Chemiluminescent Substrate. PLoS ONE, 2010, 5, e12024.	1.5	82
87	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.	5.2	226
88	On the potential for molecular imaging with Cerenkov luminescence. Optics Letters, 2010, 35, 3889.	2.2	69
89	Development of aliphatic biodegradable photoluminescent polymers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10086-10091.	5.2	231
90	Dynamic Near-Infrared Optical Imaging of 2-Deoxyglucose Uptake by Intracranial Glioma of Athymic Mice. PLoS ONE, 2009, 4, e8051.	1.5	65

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91	Comparison of 1H blood oxygen level–dependent (BOLD) and 19F MRI to investigate tumor oxygenation. Magnetic Resonance in Medicine, 2009, 62, 357-364.	2.4	89
92	Cell encapsulation and oxygenation in nanoporous microcontainers. Biomedical Microdevices, 2009, 11, 1205-1212.	2.7	20
93	BOLD MRI: a tool for predicting tumor therapy outcome based on tumor blood oxygenation and vascular function. Imaging in Medicine, 2009, 1, 11-13.	0.3	2
94	A 19F-NMR approach using reporter molecule pairs to assess β-galactosidase in human xenograft tumors in vivo. NMR in Biomedicine, 2008, 21, 704-712.	1.9	34
95	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. NMR in Biomedicine, 2008, 21, 899-907.	1.9	58
96	Molecular Imaging of Hypoxia. Journal of Nuclear Medicine, 2008, 49, 129S-148S.	4.0	478
97	Antivascular effects of combretastatin A4 phosphate in breast cancer xenograft assessed using dynamic bioluminescence imaging and confirmed by MRI. FASEB Journal, 2008, 22, 2445-2451.	2.3	62
98	In Vitro and In Vivo Assessment of CdTe and CdHgTe Toxicity and Clearance. Journal of Biomedical Nanotechnology, 2008, 4, 524-528.	0.2	36
99	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. Journal of Nanoscience and Nanotechnology, 2008, 8, 1155-1159.	0.6	7
100	Exploring Feasibility of Multicolored CdTe Quantum Dots for In Vitro and In Vivo Fluorescent Imaging. Journal of Nanoscience and Nanotechnology, 2008, 8, 1174-1177.	0.6	32
101	Physical principles of quantitative nuclear magnetic resonance oximetry. Frontiers in Bioscience - Landmark, 2008, 13, 1371.	5.8	39
102	19F-NMR detection of lacZ gene expression via the enzymic hydrolysis of 2-fluoro-4-nitrophenyl β-D-galactopyranoside	2.3	54
103	The use of histone deacetylase inhibitor FK228 and DNA hypomethylation agent 5-azacytidine in human bladder cancer therapy. International Journal of Cancer, 2007, 120, 1795-1802.	2.8	48
104	Correlation of radiation response with tumor oxygenation in the Dunning prostate R3327-AT1 tumor. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1179-1186.	1.3	48
105	Synthesis and Characterization of Novel lacZ Gene Reporter Molecules: Detection of β-Galactosidase Activity by 19F Nuclear Magnetic Resonance of Polyglycosylated Fluorinated Vitamin B6. Journal of Medicinal Chemistry, 2006, 49, 1991-1999.	4.0	23
106	Prevention of Thiazide-Induced Hypokalemia Without Magnesium Depletion by Potassium-Magnesium-Citrate. American Journal of Therapeutics, 2006, 13, 101-108.	0.4	18
107	Synthesis and evaluation of novel enhanced gene reporter molecules: Detection of β-galactosidase activity using 19F NMR of trifluoromethylated aryl β-d-galactopyranosides. Bioorganic and Medicinal Chemistry, 2006, 14, 326-333.	2.1	47
108	Imaging β-galactosidase activity using 19F chemical shift imaging of LacZ gene-reporter molecule 2-fluoro-4-nitrophenol-β-d-galactopyranoside. Magnetic Resonance Imaging, 2006, 24, 959-962.	1.2	85

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109	Novel1H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. Magnetic Resonance in Medicine, 2006, 55, 743-748.	2.4	66
110	Tumour oxygen dynamics measured simultaneously by near-infrared spectroscopy and19F magnetic resonance imaging in rats. Physics in Medicine and Biology, 2006, 51, 45-60.	2.0	66
111	Tumor physiologic response to combretastatin A4 phosphate assessed by MRI. International Journal of Radiation Oncology Biology Physics, 2005, 62, 872-880.	1.3	69
112	A new method for radiochemical separation of arsenic from irradiated germanium oxide. Applied Radiation and Isotopes, 2005, 63, 343-351.	1.4	49
113	Early inactivation of p53 tumor suppressor gene cooperating with NF1 loss induces malignant astrocytoma. Cancer Cell, 2005, 8, 119-130.	28.4	517
114	Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. Journal Physics D: Applied Physics, 2005, 38, 2682-2690.	2.2	11
115	A no-carrier-added 72Se/72As radionuclide generator based on solid phase extraction. Radiochimica Acta, 2005, 93, .	1.1	44
116	Dermatan carriers for neovascular transport targeting, deep tumor penetration and improved therapy. Journal of Controlled Release, 2005, 109, 222-235.	8.1	34
117	Continuous Low-Dose (Metronomic) Chemotherapy on Rat Prostate Tumors Evaluated Using MRI In Vivo and Comparison with Histology. Neoplasia, 2005, 7, 678-687.	2.6	28
118	Estimated fraction of tumor vascular blood contents sampled by near infrared spectroscopy and ^19F magnetic resonance spectroscopy. Optics Express, 2005, 13, 1724.	2.3	13
119	Biodistribution of phosphodiester and phosphorothioate siRNA. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1139-1143.	1.5	254
120	Comparison of BOLD contrast and Gd-DTPA dynamic contrast-enhanced imaging in rat prostate tumor. Magnetic Resonance in Medicine, 2004, 51, 953-960.	2.4	45
121	Novel NMR Platform for Detecting Gene Transfection: Synthesis and Evaluation of Fluorinated Phenyl β-d-Galactosides with Potential Application for Assessing LacZ Gene Expression. Bioconjugate Chemistry, 2004, 15, 1334-1341.	2.9	35
122	Validating Bioluminescence Imaging as a High-Throughput, Quantitative Modality for Assessing Tumor Burden. Molecular Imaging, 2004, 3, .	1.4	23
123	Molecular imaging in prostate cancer. Journal of Cellular Biochemistry, 2003, 90, 473-483.	1.8	30
124	Correlation of Tumor Oxygen Dynamics with Radiation Response of the Dunning Prostate R3327-HI Tumor1. Radiation Research, 2003, 159, 621-631.	1.1	59
125	Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. Applied Optics, 2003, 42, 2960.	1.8	44
126	Tumor Oxygen Dynamics: Correlation of In Vivo MRI with Histological Findings. Neoplasia, 2003, 5, 308-318.	2.6	78

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127	Interplay of tumor vascular oxygenation and tumor pO[sub 2] observed using near-infrared spectroscopy, an oxygen needle electrode, and [sup 19]F MR pO[sub 2] mapping. Journal of Biomedical Optics, 2003, 8, 53.	1.7	70
128	Dynamic Breast Tumor Oximetry: The Development of Prognostic Radiology. Technology in Cancer Research and Treatment, 2002, 1, 471-478.	1.5	23
129	QUANTIFICATION AND VISUALIZATION OF OXYGEN PARTIAL PRESSURE IN VIVO BY19F NMR IMAGING OF PERFLUOROCARBONS. Biomedizinische Technik, 2002, 47, 451-454.	0.8	7
130	Quantitative assessment of tumor oxygen dynamics: Molecular imaging for prognostic radiology. Journal of Cellular Biochemistry, 2002, 87, 45-53.	1.8	27
131	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, 744-756.	1.3	48
132	Bone phenotype of the aromatase deficient mouse. Journal of Steroid Biochemistry and Molecular Biology, 2001, 79, 49-59.	1.8	88
133	Tumor Oxygen Dynamics with Respect to Growth and Respiratory Challenge: Investigation of the Dunning Prostate R3327-HI Tumor1. Radiation Research, 2001, 156, 510-520.	1.1	55
134	Prognostic Radiology: Quantitative Assessment of Tumor Oxygen Dynamics by MRI. American Journal of Clinical Oncology: Cancer Clinical Trials, 2001, 24, 462-466.	1.1	41
135	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, 1097-1108.	1.3	111
136	Noninvasive investigation of blood oxygenation dynamics of tumors by near-infrared spectroscopy. Applied Optics, 2000, 39, 5231.	1.8	117
137	Regional Tumor Oxygenation and Measurement of Dynamic Changes. Radiation Research, 1999, 152, 239.	1.1	46
138	Transmembrane pH Gradients In vivo: Measurements Using Fluorinated Vitamin 86 Derivatives*. Current Medicinal Chemistry, 1999, 6, 481-499.	2.3	45
139	Simultaneous intracellular and extracelular pH measurement in the heart by19F NMR of 6-fluoropyridoxol. Magnetic Resonance in Medicine, 1998, 39, 551-556.	2.4	36
140	Development of novel 19 F NMR pH indicators: synthesis and evaluation of a series of fluorinated vitamin B 6 analogues. Bioorganic and Medicinal Chemistry, 1998, 6, 1631-1639.	2.1	39
141	Regional Tumor Oximetry: 19F NMR Spectroscopy of Hexafluorobenzene. International Journal of Radiation Oncology Biology Physics, 1998, 41, 161-171.	1.3	56
142	Regional tumor oxygen tension: fluorine echo planar imaging of hexafluorobenzene reveals heterogeneity of dynamics. International Journal of Radiation Oncology Biology Physics, 1998, 42, 747-750.	1.3	45
143	Connectivity in human cancellous bone by three-dimensional magnetic resonance microscopy. Medical Physics, 1997, 24, 1409-1420.	2.1	14
144	Regional tumor oxygen dynamics: 19F PBSR EPI of hexafluorobenzene. Magnetic Resonance Imaging, 1997, 15, 971-981.	1.2	50

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145	6-Fluoropyridoxal Polymer Conjugates: Novel 19F pH Indicators for Magnetic Resonance Spectroscopy. Bioconjugate Chemistry, 1996, 7, 536-540.	2.9	3
146	Regional myocardial oxygen tension:19F MRI of sequestered perfluorocarbon. Magnetic Resonance in Medicine, 1996, 35, 827-833.	2.4	33
147	Hexafluorobenzene: a Sensitive19F NMR Indicator of Tumor Oxygenation. , 1996, 9, 125-134.		108
148	Tumor Oxygen Tension: Measurement Using Oxygent™ as A19F NMR Probe AT 4.7 T. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 1361-1367.	1.0	20
149	Non-Invasive Physiology: 19 F NMR of Perfluorocarbons. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 1141-1153.	1.0	39
150	Oxygen tension mapping with F-19 echo-planar MR imaging of sequestered perfluorocarbon. Journal of Magnetic Resonance Imaging, 1994, 4, 595-602.	2.6	36
151	Non-invasive determination of tumor oxygen tension and local variation with growth. International Journal of Radiation Oncology Biology Physics, 1994, 29, 95-103.	1.3	102
152	6-Fluoropyridoxol: A novel probe of cellular pH using19F NMR spectroscopy. FEBS Letters, 1994, 349, 234-238.	1.8	22
153	Fluorinated Proteins as Potential 19F Magnetic Resonance Imaging and Spectroscopy Agents. Bioconjugate Chemistry, 1994, 5, 257-261.	2.9	37
154	In vivo oxygen tension and temperature: Simultaneous determination using19F NMR spectroscopy of perfluorocarbon. Magnetic Resonance in Medicine, 1993, 29, 296-302.	2.4	105
155	Echo planar imaging of perfluorocarbons. Magnetic Resonance Imaging, 1993, 11, 1165-1173.	1.2	13
156	Isolated tumor growth in a surgically formed skin pedicle in the rat: A new tumor model for NMR studies. Magnetic Resonance Imaging, 1993, 11, 1007-1017.	1.2	45
157	Glutathione in whole blood: a novel determination using double quantum coherence transfer proton NMR spectroscopy. FEBS Letters, 1993, 318, 30-34.	1.8	12
158	Oxygent™; A Novel Probe of Tissue Oxygen Tension. Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology, 1992, 20, 929-932.	0.2	10
159	A noninvasive assessment of myocardial oxygen tension:19f nmr spectroscopy of sequestered perfluorocarbon emulsion. Magnetic Resonance in Medicine, 1992, 27, 310-317.	2.4	48
160	Effect of homonuclearJ modulation on19F spin-echo images. Magnetic Resonance in Medicine, 1991, 17, 179-188.	2.4	13
161	Tissue oxygenation: A novel determination using19F surface coil NMR spectroscopy of sequestered perfluorocarbon emulsion. Magnetic Resonance in Medicine, 1991, 18, 71-79.	2.4	61
162	A novel editing technique for 19F MRI: Molecule-specific imaging. Magnetic Resonance Imaging, 1990, 8, 729-736.	1.2	15

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163	Perfluorocarbon imaging in vivo: A 19F MRI study in tumor-bearing mice. Magnetic Resonance Imaging, 1989, 7, 475-485.	1.2	88
164	In vivo enzymology: a deuterium NMR study of formaldehyde dismutase in Pseudomonas putida F61a and Staphylococcus aureus. Biochemistry, 1989, 28, 2160-2168.	1.5	24
165	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)-α-bisabolene. Journal of the Chemical Society Perkin Transactions 1, 1987, , 2569-2577.	1.0	31
166	In vivo enzymology: 13 C NMR measurement of a kinetic isotope effect for methanol oxidation in Methylosinus trichosporium OB3b. FEBS Letters, 1987, 216, 4-6.	1.8	9
167	NMR visualization of free asparagine in potato tissue using adduct formation with [13C]formaldehyde. Phytochemistry, 1986, 25, 1567-1571.	2.4	13
168	Formaldehyde metabolism by Escherichia coli. Detection by in vivo carbon-13 NMR spectroscopy of S-(hydroxymethyl)glutathione as a transient intracellular intermediate. Biochemistry, 1986, 25, 4504-4507.	1.5	50
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170	Targeting tumor-associated hypoxia with bioreductively activatable prodrug conjugates derived from dihydronaphthalene, benzosuberene, and indole-based inhibitors of tubulin polymerization. RSC Medicinal Chemistry, 0, 16, 5472-5487.	2.7	2
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