

# Bradford A Moffat

## List of Publications by Citations

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102  
papers

4,958  
citations

34  
h-index

69  
g-index

106  
ext. papers

5,430  
ext. citations

5.8  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
102	Iron oxide nanoparticles as a drug delivery vehicle for MRI monitored magnetic targeting of brain tumors. <i>Biomaterials</i> , <b>2008</b> , 29, 487-96	15.6	710
101	Functional diffusion map: a noninvasive MRI biomarker for early stratification of clinical brain tumor response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 5524-9	11.5	536
100	Vascular targeted nanoparticles for imaging and treatment of brain tumors. <i>Clinical Cancer Research</i> , <b>2006</b> , 12, 6677-86	12.9	431
99	Evaluation of the functional diffusion map as an early biomarker of time-to-progression and overall survival in high-grade glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16759-64	11.5	253
98	Evaluation of cancer therapy using diffusion magnetic resonance imaging. <i>Molecular Cancer Therapeutics</i> , <b>2003</b> , 2, 581-7	6.1	169
97	The functional diffusion map: an imaging biomarker for the early prediction of cancer treatment outcome. <i>Neoplasia</i> , <b>2006</b> , 8, 259-67	6.4	159
96	Multifunctional nanoparticle platforms for in vivo MRI enhancement and photodynamic therapy of a rat brain cancer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 404-410	2.8	159
95	Minimally invasive endovascular stent-electrode array for high-fidelity, chronic recordings of cortical neural activity. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 320-7	44.5	127
94	A feasibility study of parametric response map analysis of diffusion-weighted magnetic resonance imaging scans of head and neck cancer patients for providing early detection of therapeutic efficacy. <i>Translational Oncology</i> , <b>2009</b> , 2, 184-90	4.9	124
93	A novel polyacrylamide magnetic nanoparticle contrast agent for molecular imaging using MRI. <i>Molecular Imaging</i> , <b>2003</b> , 2, 324-32	3.7	120
92	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 327-334	3.8	108
91	Diffusion MRI: a new strategy for assessment of cancer therapeutic efficacy. <i>Molecular Imaging</i> , <b>2002</b> , 1, 336-43	3.7	103
90	Diffusion imaging for evaluation of tumor therapies in preclinical animal models. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2004</b> , 17, 249-59	2.8	99
89	Age-related changes in the kinetics of water transport in normal human lenses. <i>Experimental Eye Research</i> , <b>1999</b> , 69, 663-9	3.7	93
88	Age-related changes in refractive index distribution and power of the human lens as measured by magnetic resonance micro-imaging in vitro. <i>Vision Research</i> , <b>2002</b> , 42, 1683-93	2.1	91
87	Prospective early response imaging biomarker for neoadjuvant breast cancer chemotherapy. <i>Clinical Cancer Research</i> , <b>2007</b> , 13, 443-50	12.9	77
86	The use of <sup>19</sup> F spectroscopy and diffusion-weighted MRI to evaluate differences in gene-dependent enzyme prodrug therapies. <i>Molecular Therapy</i> , <b>2004</b> , 10, 916-28	11.7	74

85	Therapeutic efficacy of DTI-015 using diffusion magnetic resonance imaging as an early surrogate marker. <i>Clinical Cancer Research</i> , <b>2004</b> , 10, 7852-9	12.9	72
84	Metal-free and MRI visible theranostic lyotropic liquid crystal nitroxide-based nanoparticles. <i>Biomaterials</i> , <b>2012</b> , 33, 2723-33	15.6	66
83	An imaging biomarker of early treatment response in prostate cancer that has metastasized to the bone. <i>Cancer Research</i> , <b>2007</b> , 67, 3524-8	10.1	60
82	IDH1 mutation is associated with seizures and protoplasmic subtype in patients with low-grade gliomas. <i>Epilepsia</i> , <b>2014</b> , 55, 1438-43	6.4	53
81	A Methodology for Registration of a Histological Slide and In Vivo MRI Volume Based on Optimizing Mutual Information. <i>Molecular Imaging</i> , <b>2006</b> , 5, 7290.2006.00002	3.7	52
80	Water-dispersible magnetic carbon nanotubes as T2-weighted MRI contrast agents. <i>Biomaterials</i> , <b>2014</b> , 35, 378-86	15.6	51
79	Dynamic imaging of emerging resistance during cancer therapy. <i>Cancer Research</i> , <b>2006</b> , 66, 4687-92	10.1	50
78	Gadolinium-functionalized nanoparticles for application as magnetic resonance imaging contrast agents via polymerization-induced self-assembly. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 7325-7337	4.9	49
77	Dual-modality NIRF-MRI cubosomes and hexosomes: High throughput formulation and in vivo biodistribution. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 584-593	8.3	46
76	Anisotropic water transport in the human eye lens studied by diffusion tensor NMR micro-imaging. <i>Experimental Eye Research</i> , <b>2002</b> , 74, 677-87	3.7	45
75	Substantiating in vivo magnetic brain tumor targeting of cationic iron oxide nanocarriers via adsorptive surface masking. <i>Biomaterials</i> , <b>2009</b> , 30, 6780-7	15.6	44
74	Diffusion magnetic resonance imaging: an imaging treatment response biomarker to chemoradiotherapy in a mouse model of squamous cell cancer of the head and neck. <i>Translational Oncology</i> , <b>2008</b> , 1, 187-94	4.9	41
73	Inhibition of vascular endothelial growth factor (VEGF)-A causes a paradoxical increase in tumor blood flow and up-regulation of VEGF-D. <i>Clinical Cancer Research</i> , <b>2006</b> , 12, 1525-32	12.9	41
72	Nitroxide-loaded hexosomes provide MRI contrast in vivo. <i>Langmuir</i> , <b>2014</b> , 30, 8898-906	4	39
71	Development of a syngeneic rat brain tumor model expressing EGFRvIII and its use for molecular targeting studies with monoclonal antibody L8A4. <i>Clinical Cancer Research</i> , <b>2005</b> , 11, 341-50	12.9	39
70	Technologies for Advanced Gait and Balance Assessments in People with Multiple Sclerosis. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 708	4.1	35
69	Fusion of the HSV-1 tegument protein vp22 to cytosine deaminase confers enhanced bystander effect and increased therapeutic benefit. <i>Gene Therapy</i> , <b>2006</b> , 13, 127-37	4	35
68	Social cognition in patients following surgery to the prefrontal cortex. <i>Psychiatry Research - Neuroimaging</i> , <b>2014</b> , 224, 192-203	2.9	34

67	Continuous arterial spin labeling using a train of adiabatic inversion pulses. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 21, 290-6	5.6	32
66	Explanation of the lens paradox. <i>Optometry and Vision Science</i> , <b>2002</b> , 79, 148-50	2.1	31
65	Glutamate weighted imaging contrast in gliomas with 7 Tesla magnetic resonance imaging. <i>NeuroImage: Clinical</i> , <b>2019</b> , 22, 101694	5.3	31
64	A methodology for registration of a histological slide and in vivo MRI volume based on optimizing mutual information. <i>Molecular Imaging</i> , <b>2006</b> , 5, 16-23	3.7	28
63	High-throughput magnetic resonance imaging in mice for phenotyping and therapeutic evaluation. <i>Current Opinion in Chemical Biology</i> , <b>2005</b> , 9, 413-20	9.7	26
62	A novel literature-based approach to identify genetic and molecular predictors of survival in glioblastoma multiforme: Analysis of 14,678 patients using systematic review and meta-analytical tools. <i>Journal of Clinical Neuroscience</i> , <b>2015</b> , 22, 785-99	2.2	25
61	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16615-16624	3.8	25
60	Description of technique and lower reference limit for magnetic resonance imaging of hippocampal volumetry in dogs. <i>American Journal of Veterinary Research</i> , <b>2013</b> , 74, 224-31	1.1	23
59	Evaluation of treatment-associated inflammatory response on diffusion-weighted magnetic resonance imaging and 2-[18F]-fluoro-2-deoxy-D-glucose-positron emission tomography imaging biomarkers. <i>Clinical Cancer Research</i> , <b>2010</b> , 16, 1542-52	12.9	21
58	Probabilistic MRI tractography of the optic radiation using constrained spherical deconvolution: a feasibility study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118948	3.7	21
57	Contralesional thalamic surface atrophy and functional disconnection 3 months after ischemic stroke. <i>Cerebrovascular Diseases</i> , <b>2015</b> , 39, 232-41	3.2	20
56	7T-fMRI: Faster temporal resolution yields optimal BOLD sensitivity for functional network imaging specifically at high spatial resolution. <i>NeuroImage</i> , <b>2018</b> , 164, 214-229	7.9	19
55	Tumour associated epilepsy and glutamate excitotoxicity in patients with gliomas. <i>Journal of Clinical Neuroscience</i> , <b>2014</b> , 21, 899-908	2.2	19
54	Cubic mesophase nanoparticles doped with superparamagnetic iron oxide nanoparticles: a new class of MRI contrast agent. <i>RSC Advances</i> , <b>2012</b> , 2, 6655	3.7	17
53	Intratumoral injection of BCNU in ethanol (DTI-015) results in enhanced delivery to tumor—a pharmacokinetic study. <i>Journal of Neuro-Oncology</i> , <b>2005</b> , 73, 225-38	4.8	17
52	Tremor in multiple sclerosis is associated with cerebello-thalamic pathology. <i>Journal of Neural Transmission</i> , <b>2017</b> , 124, 1509-1514	4.3	16
51	3D-multi-echo radial imaging of Na (3D-MERINA) for time-efficient multi-parameter tissue compartment mapping. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1950-1961	4.4	15
50	Mesoporous europo-gadoliniosilicate nanoparticles as bimodal medical imaging agents and a potential theranostic platform. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 836-45	10.1	15

49	Colloidally stabilized magnetic carbon nanotubes providing MRI contrast in mouse liver tumors. <i>Biomacromolecules</i> , <b>2015</b> , 16, 790-7	6.9	15
48	Assessment of Optic Pathway Structure and Function in Patients With Compression of the Optic Chiasm: A Correlation With Optical Coherence Tomography <b>2016</b> , 57, 3884-90		15
47	Systematic Review: Quantitative Susceptibility Mapping (QSM) of Brain Iron Profile in Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 618435	5.1	14
46	Early perfusion MRI predicts survival outcome in patients with recurrent glioblastoma treated with bevacizumab and carboplatin. <i>Journal of Neuro-Oncology</i> , <b>2017</b> , 131, 321-329	4.8	13
45	Extracting more for less: multi-echo MP2RAGE for simultaneous T-weighted imaging, T mapping, mapping, SWI, and QSM from a single acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1178-1191	4.4	12
44	Emotional reactivity following surgery to the prefrontal cortex. <i>Journal of Neuropsychology</i> , <b>2018</b> , 12, 120-141	2.6	11
43	Magnetization transfer effects on the efficiency of flow-driven adiabatic fast passage inversion of arterial blood. <i>NMR in Biomedicine</i> , <b>2007</b> , 20, 733-42	4.4	11
42	The interpretation of multi-exponential water proton transverse relaxation in the human and porcine eye lens. <i>Magnetic Resonance Imaging</i> , <b>2002</b> , 20, 83-93	3.3	11
41	High-throughput preparation of hexagonally ordered mesoporous silica and gadolinosilicate nanoparticles for use as MRI contrast agents. <i>ACS Combinatorial Science</i> , <b>2012</b> , 14, 443-50	3.9	9
40	Seven-tesla quantitative magnetic resonance spectroscopy of glutamate, G-aminobutyric acid, and glutathione in the posterior cingulate cortex/precuneus in patients with epilepsy. <i>Epilepsia</i> , <b>2020</b> , 61, 2785-2794	6.4	9
39	Development of representative magnetic resonance imaging-based atlases of the canine brain and evaluation of three methods for atlas-based segmentation. <i>American Journal of Veterinary Research</i> , <b>2016</b> , 77, 395-403	1.1	9
38	Development and Implementation of a Corriedale Ovine Brain Atlas for Use in Atlas-Based Segmentation. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155974	3.7	8
37	xQSM: quantitative susceptibility mapping with octave convolutional and noise-regularized neural networks. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4461	4.4	8
36	Spatially dynamic recurrent information flow across long-range dorsal motor network encodes selective motor goals. <i>Human Brain Mapping</i> , <b>2018</b> , 39, 2635-2650	5.9	7
35	Nano-assemblies of cationic mPEG brush block copolymers with gadolinium polyoxotungstate [Gd(WO)] form stable, high relaxivity MRI contrast agents. <i>Nanoscale</i> , <b>2018</b> , 10, 7270-7280	7.7	7
34	Glutamate quantification in patients with supratentorial gliomas using chemical shift imaging. <i>NMR in Biomedicine</i> , <b>2014</b> , 27, 570-7	4.4	7
33	Semi-automated hippocampal segmentation in people with cognitive impairment using an age appropriate template for registration. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1631-8	5.6	7
32	Functional neuroplasticity in response to cerebello-thalamic injury underpins the clinical presentation of tremor in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , <b>2020</b> , 26, 696-705	5	7

31	Know your tools--concordance of different methods for measuring brain volume change after ischemic stroke. <i>Neuroradiology</i> , <b>2015</b> , 57, 685-95	3.2	6
30	Association between baseline peri-infarct magnetic resonance spectroscopy and regional white matter atrophy after stroke. <i>Neuroradiology</i> , <b>2016</b> , 58, 3-10	3.2	6
29	A tunable one-pot three-component synthesis of an 125I and Gd-labelled star polymer nanoparticle for hybrid imaging with MRI and nuclear medicine. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3528-3535	4.9	6
28	Mesoporous gadolino-aluminosilicate nanoparticles as magnetic resonance imaging contrast agents. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 1219-1222	7.3	6
27	Advanced MRI: translation from animal to human in brain tumor research. <i>Neuroimaging Clinics of North America</i> , <b>2009</b> , 19, 517-26	3	6
26	MR-EYE: High-Resolution MRI of the Human Eye and Orbit at Ultrahigh Field (7T). <i>Magnetic Resonance Imaging Clinics of North America</i> , <b>2021</b> , 29, 103-116	1.6	6
25	Compressed sensing effects on quantitative analysis of undersampled human brain sodium MRI. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1025-1033	4.4	5
24	Reproducibility of Glutamate, Glutathione, and GABA Measurements by Single-Voxel STEAM Magnetic Resonance Spectroscopy at 7-Tesla in Healthy Individuals. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 566643	5.1	5
23	Zero-gradient-excitation ramped hybrid encoding (zG -RHE) sodium MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1172-1180	4.4	5
22	Novel Functional MRI Task for Studying the Neural Correlates of Upper Limb Tremor. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 513	4.1	5
21	Alterations in dorsal and ventral posterior cingulate connectivity in APOE 4 carriers at risk of Alzheimer's disease. <i>BJPsych Open</i> , <b>2015</b> , 1, 139-148	5	4
20	Preoperative biomarkers of tumour vascularity are elevated in patients with glioblastoma multiforme. <i>Journal of Clinical Neuroscience</i> , <b>2015</b> , 22, 1802-8	2.2	3
19	Optimized partial-coverage functional analysis pipeline (OPFAP): a semi-automated pipeline for skull stripping and co-registration of partial-coverage, ultra-high-field functional images. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2018</b> , 31, 621-632	2.8	3
18	Resting-state functional connectivity and quantitation of glutamate and GABA of the PCC/precuneus by magnetic resonance spectroscopy at 7T in healthy individuals. <i>PLoS ONE</i> , <b>2020</b> , 15, e0244491	3.7	3
17	QSMART: Quantitative susceptibility mapping artifact reduction technique. <i>NeuroImage</i> , <b>2021</b> , 231, 117701	7.0	3
16	Feasibility of identifying the ideal locations for motor intention decoding using unimodal and multimodal classification at 7T-fMRI. <i>Scientific Reports</i> , <b>2018</b> , 8, 15556	4.9	3
15	Distinct Neural Correlates Underlie Inhibitory Mechanisms of Motor Inhibition and Motor Imagery Restraint. <i>Frontiers in Behavioral Neuroscience</i> , <b>2020</b> , 14, 77	3.5	2
14	OnabotulinumtoxinA treatment for MS-tremor modifies fMRI tremor response in central sensory-motor integration areas. <i>Multiple Sclerosis and Related Disorders</i> , <b>2020</b> , 40, 101984	4	2

13	Age-related changes of the refractive index of the crystalline lens. <i>Vision Research</i> , <b>2002</b> , 42, 2809	2.1	2
12	A thalamo-centric neural signature for restructuring negative self-beliefs.. <i>Molecular Psychiatry</i> , <b>2022</b> ,	15.1	2
11	Neural mediators of subjective and autonomic responding during threat learning and regulation. <i>NeuroImage</i> , <b>2021</b> , 245, 118643	7.9	2
10	7T Magnetic Resonance Imaging Quantification of Brain Glutamate in Acute Ischaemic Stroke. <i>Journal of Stroke</i> , <b>2021</b> , 23, 281-284	5.6	2
9	Dynamic Subcortical Modulators of Human Default Mode Network Function.. <i>Cerebral Cortex</i> , <b>2021</b> ,	5.1	2
8	Ultra-high-field MRI using composite RF (STEP) pulses. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4445	4.4	1
7	Ultra-High Field Magnetic Resonance Imaging of the Retrobulbar Optic Nerve, Subarachnoid Space, and Optic Nerve Sheath in Emmetropic and Myopic Eyes. <i>Translational Vision Science and Technology</i> , <b>2021</b> , 10, 8	3.3	1
6	Study protocol for a phase II randomised, double-blind, placebo-controlled trial of perampanel as an antiepileptogenic treatment following acute stroke. <i>BMJ Open</i> , <b>2021</b> , 11, e043488	3	0
5	Relating the cortical visual contrast gain response to spectroscopy-measured excitatory and inhibitory metabolites in people who experience migraine.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0266130	3.7	0
4	An Objective Measurement of Lacunar Infarct Location from the Middle Cerebral Artery Stem. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2018</b> , 27, 599-605	2.8	
3	NIMG-49. A PROSPECTIVE, MULTI-CENTRE TRIAL OF FET-PET IN GLIOBLASTOMA PATIENTS - THE TROG 18.06 FIG STUDY: KEY ASPECTS OF IMAGING AND RADIATION ONCOLOGY CREDENTIALING. <i>Neuro-Oncology</i> , <b>2021</b> , 23, vi140-vi140	1	
2	Comparison between site and central radiological assessments for patients with recurrent glioblastoma on a clinical trial. <i>Asia-Pacific Journal of Clinical Oncology</i> , <b>2018</b> , 14, e359-e365	1.9	
1	Ultrahigh field brain magnetic resonance imaging using semiadiabatic radiofrequency pulses.. <i>NMR in Biomedicine</i> , <b>2021</b> , e4672	4.4	