

# Geoff J M Parker

## List of Publications by Year in descending order

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257  
papers

23,805  
citations

6613

79  
h-index

8167

148  
g-index

264  
all docs

264  
docs citations

264  
times ranked

21708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating kinetic parameters from dynamic contrast-enhanced t1-weighted MRI of a diffusable tracer: Standardized quantities and symbols. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 223-232.	3.4	2,856
2	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 169-186.	27.6	792
3	Evidence for Segregated and Integrative Connectivity Patterns in the Human Basal Ganglia. <i>Journal of Neuroscience</i> , 2008, 28, 7143-7152.	3.6	695
4	Orientationally invariant indices of axon diameter and density from diffusion MRI. <i>NeuroImage</i> , 2010, 52, 1374-1389.	4.2	629
5	Experimentally-derived functional form for a population-averaged high-temporal-resolution arterial input function for dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 993-1000.	3.0	574
6	Measurement of atrophy in multiple sclerosis: pathological basis, methodological aspects and clinical relevance. <i>Brain</i> , 2002, 125, 1676-1695.	7.6	534
7	Imaging Intratumor Heterogeneity: Role in Therapy Response, Resistance, and Clinical Outcome. <i>Clinical Cancer Research</i> , 2015, 21, 249-257.	7.0	497
8	A framework for a streamline-based probabilistic index of connectivity (PICO) using a structural interpretation of MRI diffusion measurements. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 242-254.	3.4	482
9	DCE-MRI biomarkers in the clinical evaluation of antiangiogenic and vascular disrupting agents. <i>British Journal of Cancer</i> , 2007, 96, 189-195.	6.4	467
10	Lateralization of ventral and dorsal auditory-language pathways in the human brain. <i>NeuroImage</i> , 2005, 24, 656-666.	4.2	458
11	Brain atrophy in clinically early relapsing/remitting multiple sclerosis. <i>Brain</i> , 2002, 125, 327-337.	7.6	417
12	The Ventral and Inferolateral Aspects of the Anterior Temporal Lobe Are Crucial in Semantic Memory: Evidence from a Novel Direct Comparison of Distortion-Corrected fMRI, rTMS, and Semantic Dementia. <i>Cerebral Cortex</i> , 2010, 20, 2728-2738.	2.9	378
13	Hemispheric asymmetries in language-related pathways: A combined functional MRI and tractography study. <i>NeuroImage</i> , 2006, 32, 388-399.	4.2	373
14	Comprehensive Validation of Cardiovascular Magnetic Resonance Techniques for the Assessment of Myocardial Extracellular Volume. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 373-383.	2.6	324
15	Dynamic Contrast Enhanced MRI of Prostate Cancer: Correlation with Morphology and Tumour Stage, Histological Grade and PSA. <i>Clinical Radiology</i> , 2000, 55, 99-109.	1.1	320
16	Combined functional MRI and tractography to demonstrate the connectivity of the human primary motor cortex in vivo. <i>NeuroImage</i> , 2003, 19, 1349-1360.	4.2	319
17	Dynamic contrast-enhanced MRI in clinical trials of antivascular therapies. <i>Nature Reviews Clinical Oncology</i> , 2012, 9, 167-177.	27.6	318
18	Probabilistic anatomical connectivity derived from the microscopic persistent angular structure of cerebral tissue. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 893-902.	4.0	312

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19	Imaging Tumor Vascular Heterogeneity and Angiogenesis using Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>Clinical Cancer Research</i> , 2007, 13, 3449-3459.	7.0	293
20	Estimating distributed anatomical connectivity using fast marching methods and diffusion tensor imaging. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 505-512.	8.9	270
21	Investigating Cervical Spinal Cord Structure Using Axial Diffusion Tensor Imaging. <i>NeuroImage</i> , 2002, 16, 93-102.	4.2	240
22	Axon diameter mapping in the presence of orientation dispersion with diffusion MRI. <i>NeuroImage</i> , 2011, 56, 1301-1315.	4.2	240
23	From diffusion tractography to quantitative white matter tract measures: a reproducibility study. <i>NeuroImage</i> , 2003, 18, 348-359.	4.2	219
24	Non-invasive mapping of corticofugal fibres from multiple motor areas—relevance to stroke recovery. <i>Brain</i> , 2006, 129, 1844-1858.	7.6	218
25	Spinal cord atrophy and disability in MS. <i>Neurology</i> , 1998, 51, 234-238.	1.1	217
26	Validation of in vitro probabilistic tractography. <i>NeuroImage</i> , 2007, 37, 1267-1277.	4.2	212
27	Prostate Cancer: Evaluation of Vascular Characteristics with Dynamic Contrast-enhanced T1-weighted MR Imaging—Initial Experience. <i>Radiology</i> , 2004, 233, 709-715.	7.3	204
28	Convergent Connectivity and Graded Specialization in the Rostral Human Temporal Lobe as Revealed by Diffusion-Weighted Imaging Probabilistic Tractography. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 1998-2014.	2.3	194
29	Probing tumor microvasculature by measurement, analysis and display of contrast agent uptake kinetics. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 564-574.	3.4	191
30	The variation of function across the human insula mirrors its patterns of structural connectivity: Evidence from in vivo probabilistic tractography. <i>NeuroImage</i> , 2012, 59, 3514-3521.	4.2	183
31	Probabilistic Monte Carlo Based Mapping of Cerebral Connections Utilising Whole-Brain Crossing Fibre Information. <i>Lecture Notes in Computer Science</i> , 2003, 18, 684-695.	1.3	174
32	Initial Demonstration of in Vivo Tracing of Axonal Projections in the Macaque Brain and Comparison with the Human Brain Using Diffusion Tensor Imaging and Fast Marching Tractography. <i>NeuroImage</i> , 2002, 15, 797-809.	4.2	171
33	Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Nonhuman Primates. <i>Cerebral Cortex</i> , 2011, 21, 56-67.	2.9	171
34	Blockade of Platelet-Derived Growth Factor Receptor-Beta by CDP860, a Humanized, PEGylated di-Fab', Leads to Fluid Accumulation and Is Associated With Increased Tumor Vascularized Volume. <i>Journal of Clinical Oncology</i> , 2005, 23, 973-981.	1.6	167
35	The inferior, anterior temporal lobes and semantic memory clarified: Novel evidence from distortion-corrected fMRI. <i>Neuropsychologia</i> , 2010, 48, 1689-1696.	1.6	159
36	Defining Meyer's loop-temporal lobe resections, visual field deficits and diffusion tensor tractography. <i>Brain</i> , 2009, 132, 1656-1668.	7.6	158

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37	Abnormalities of language networks in temporal lobe epilepsy. <i>NeuroImage</i> , 2007, 36, 209-221.	4.2	157
38	White matter connections reflect changes in voluntary-guided saccades in pre-symptomatic Huntington's disease. <i>Brain</i> , 2008, 131, 196-204.	7.6	153
39	Quantitative imaging biomarkers in the clinical development of targeted therapeutics: current and future perspectives. <i>Lancet Oncology</i> , The, 2008, 9, 766-776.	10.7	150
40	Characterizing function-structure relationships in the human visual system with functional MRI and diffusion tensor imaging. <i>NeuroImage</i> , 2004, 21, 1452-1463.	4.2	149
41	Comparative study into the robustness of compartmental modeling and model-free analysis in DCE-MRI studies. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 554-563.	3.4	145
42	Effects of Androgen Deprivation on Prostatic Morphology and Vascular Permeability Evaluated with MR Imaging. <i>Radiology</i> , 2001, 218, 365-374.	7.3	143
43	Quantifying Antivascular Effects of Monoclonal Antibodies to Vascular Endothelial Growth Factor: Insights from Imaging. <i>Clinical Cancer Research</i> , 2009, 15, 6674-6682.	7.0	142
44	Distortion correction for diffusion-weighted MRI tractography and fMRI in the temporal lobes. <i>Human Brain Mapping</i> , 2010, 31, 1570-1587.	3.6	139
45	Imaging vascular function for early stage clinical trials using dynamic contrast-enhanced magnetic resonance imaging. <i>European Radiology</i> , 2012, 22, 1451-1464.	4.5	138
46	Microstructural imaging of the human brain with a "super-scanner"™: 10 key advantages of ultra-strong gradients for diffusion MRI. <i>NeuroImage</i> , 2018, 182, 8-38.	4.2	138
47	Preliminary evidence for neuronal damage in cortical grey matter and normal appearing white matter in short duration relapsing-remitting multiple sclerosis: a quantitative MR spectroscopic imaging study. <i>Journal of Neurology</i> , 2001, 248, 131-138.	3.6	136
48	The reproducibility and sensitivity of brain tissue volume measurements derived from an SPM-based segmentation methodology. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 259-267.	3.4	136
49	Phase I Evaluation of a Fully Human Anti- $\alpha_5\beta_1$ Integrin Monoclonal Antibody (CNTO 95) in Patients with Advanced Solid Tumors. <i>Clinical Cancer Research</i> , 2007, 13, 2128-2135.	7.0	136
50	Oxygen-Enhanced MRI Accurately Identifies, Quantifies, and Maps Tumor Hypoxia in Preclinical Cancer Models. <i>Cancer Research</i> , 2016, 76, 787-795.	0.9	133
51	Short echo time single-voxel $^1\text{H}$ magnetic resonance spectroscopy in magnetic resonance imaging-negative temporal lobe epilepsy: Different biochemical profile compared with hippocampal sclerosis. <i>Annals of Neurology</i> , 1999, 45, 369-376.	5.3	131
52	$^1\text{H}$ Magnetic resonance spectroscopy of normal appearing white matter in primary progressive multiple sclerosis. <i>Journal of Neurology</i> , 1999, 246, 1023-1026.	3.6	130
53	ADC mapping of the human optic nerve: Increased resolution, coverage, and reliability with CSF-suppressed ZOOM-EPI. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 24-31.	3.0	129
54	Quantifying spatial heterogeneity in dynamic contrast-enhanced MRI parameter maps. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 488-499.	3.0	123

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55	DCE-MRI biomarkers of tumour heterogeneity predict CRC liver metastasis shrinkage following bevacizumab and FOLFOX-6. <i>British Journal of Cancer</i> , 2011, 105, 139-145.	6.4	123
56	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013, 80, 273-282.	4.2	121
57	MR tractography predicts visual field defects following temporal lobe resection. <i>Neurology</i> , 2005, 65, 596-599.	1.1	117
58	Nonlinear smoothing for reduction of systematic and random errors in diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 702-710.	3.4	116
59	Diffusion tensor imaging demonstrates deviation of fibres in normal appearing white matter adjacent to a brain tumour. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000, 68, 501-503.	1.9	116
60	Diffusion tractography based group mapping of major white-matter pathways in the human brain. <i>NeuroImage</i> , 2003, 19, 1545-1555.	4.2	116
61	Noninvasive in vivo demonstration of the connections of the human parahippocampal gyrus. <i>NeuroImage</i> , 2004, 22, 740-747.	4.2	116
62	Variations in T1 and T2 relaxation times of normal appearing white matter and lesions in multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 2000, 178, 81-87.	0.6	114
63	Optic radiation changes after optic neuritis detected by tractography-based group mapping. <i>Human Brain Mapping</i> , 2005, 25, 308-316.	3.6	114
64	White matter tracts in first-episode psychosis: A DTI tractography study of the uncinate fasciculus. <i>NeuroImage</i> , 2008, 39, 949-955.	4.2	114
65	Abnormal brain connectivity in first-episode psychosis: A diffusion MRI tractography study of the corpus callosum. <i>NeuroImage</i> , 2007, 35, 458-466.	4.2	111
66	The structural and functional mechanisms of motor recovery: complementary use of diffusion tensor and functional magnetic resonance imaging in a traumatic injury of the internal capsule. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1998, 65, 863-869.	1.9	110
67	Is volume transfer coefficient (K(trans)) related to histologic grade in human gliomas?. <i>American Journal of Neuroradiology</i> , 2005, 26, 2455-65.	2.4	109
68	Preliminary Study of Oxygen-Enhanced Longitudinal Relaxation in MRI: A Potential Novel Biomarker of Oxygenation Changes in Solid Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 75, 1209-1215.	0.8	107
69	Magnetic resonance imaging screening in women at genetic risk of breast cancer: imaging and analysis protocol for the UK multicentre study. <i>Magnetic Resonance Imaging</i> , 2000, 18, 765-776.	1.8	104
70	Probabilistic fibre tracking: Differentiation of connections from chance events. <i>NeuroImage</i> , 2008, 42, 1329-1339.	4.2	103
71	Diffusion tensor MRI-based estimation of the influence of brain tissue anisotropy on the effects of transcranial magnetic stimulation. <i>NeuroImage</i> , 2007, 36, 1159-1170.	4.2	102
72	Accurate multislice gradient echoT1 measurement in the presence of non-ideal RF pulse shape and RF field nonuniformity. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 838-845.	3.0	101

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73	Validation of High-Resolution Tractography Against <i>In Vivo</i> Tracing in the Macaque Visual Cortex. <i>Cerebral Cortex</i> , 2015, 25, 4299-4309.	2.9	101
74	Proton MR spectroscopy in clinically isolated syndromes suggestive of multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 1999, 166, 16-22.	0.6	90
75	Comparative study of methods for determining vascular permeability and blood volume in human gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 748-757.	3.4	90
76	Tractography of the parahippocampal gyrus and material specific memory impairment in unilateral temporal lobe epilepsy. <i>NeuroImage</i> , 2008, 40, 1755-1764.	4.2	86
77	A Direct Demonstration of both Structure and Function in the Visual System: Combining Diffusion Tensor Imaging with Functional Magnetic Resonance Imaging. <i>NeuroImage</i> , 1999, 9, 352-361.	4.2	84
78	Comparison of model-based arterial input functions for dynamic contrast-enhanced MRI in tumor bearing rats. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1173-1184.	3.0	84
79	Oxygen Enhanced Optoacoustic Tomography (OE-OT) Reveals Vascular Dynamics in Murine Models of Prostate Cancer. <i>Theranostics</i> , 2017, 7, 2900-2913.	10.0	83
80	Multiparametric Cardiovascular Magnetic Resonance Assessment of Cardiac Allograft Vasculopathy. <i>Journal of the American College of Cardiology</i> , 2014, 63, 799-808.	2.8	82
81	The longitudinal relation between brain lesion load and atrophy in multiple sclerosis: a 14 year follow up study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 1551-1554.	1.9	81
82	Electrospinning for healthcare: recent advancements. <i>Journal of Materials Chemistry B</i> , 2021, 9, 939-951.	5.8	81
83	Comparison of normal tissue $T_1$ and $T_2$ modulation by oxygen and carbogen. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 75-83.	3.0	77
84	Organ-specific effects of oxygen and carbogen gas inhalation on tissue longitudinal relaxation times. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 490-496.	3.0	75
85	In vivo diffusion tensor imaging of the human optic nerve: Pilot study in normal controls. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 446-451.	3.0	74
86	Anatomical connectivity mapping: A new tool to assess brain disconnection in Alzheimer's disease. <i>NeuroImage</i> , 2011, 54, 2045-2051.	4.2	73
87	A 1H magnetic resonance spectroscopy study of aging in parietal white matter: implications for trials in multiple sclerosis. <i>Magnetic Resonance Imaging</i> , 2000, 18, 455-459.	1.8	71
88	Tracer kinetic model-driven registration for dynamic contrast-enhanced MRI time-series data. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1010-1019.	3.0	71
89	Phase I Evaluation of CDP791, a PEGylated Di-Fab <sup>2</sup> Conjugate that Binds Vascular Endothelial Growth Factor Receptor 2. <i>Clinical Cancer Research</i> , 2007, 13, 7113-7118.	7.0	69
90	Jet deposition in near-field electrospinning of patterned polycaprolactone and sugar-polycaprolactone core-shell fibres. <i>Polymer</i> , 2011, 52, 3603-3610.	3.8	68

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91	$R_1$ and $R_2^*$ changes in the human placenta in response to maternal oxygen challenge. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1427-1433.	3.0	68
92	The relationship between lesion and normal appearing brain tissue abnormalities in early relapsing remitting multiple sclerosis. <i>Journal of Neurology</i> , 2002, 249, 193-199.	3.6	64
93	Quantitative $^1H$ MRS imaging 14 years after presenting with a clinically isolated syndrome suggestive of multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2002, 8, 207-210.	3.0	62
94	Imaging language pathways predicts postoperative naming deficits. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008, 79, 327-330.	1.9	62
95	Combined EEG-fMRI and tractography to visualise propagation of epileptic activity. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008, 79, 594-597.	1.9	61
96	Candidate Biomarkers of Extravascular Extracellular Space: A Direct Comparison of Apparent Diffusion Coefficient and Dynamic Contrast-Enhanced MR Imaging- $^*$ Derived Measurement of the Volume of the Extravascular Extracellular Space in Glioblastoma Multiforme. <i>American Journal of Neuroradiology</i> , 2010, 31, 549-553.	2.4	61
97	The effect of blood inflow and $B_1$ field inhomogeneity on measurement of the arterial input function in axial 3D spoiled gradient echo dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 108-119.	3.0	61
98	Modeling of contrast agent kinetics in the lung using $T_1$ -weighted dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1507-1514.	3.0	58
99	Multidimensional diffusion MRI with spectrally modulated gradients reveals unprecedented microstructural detail. <i>Scientific Reports</i> , 2019, 9, 9026.	3.3	58
100	Biomimetic phantom for the validation of diffusion magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 299-305.	3.0	57
101	Exploring white matter tracts in band heterotopia using diffusion tractography. <i>Annals of Neurology</i> , 2002, 52, 327-334.	5.3	55
102	A graded tractographic parcellation of the temporal lobe. <i>NeuroImage</i> , 2017, 155, 503-512.	4.2	55
103	Noninvasive tumor hypoxia measurement using magnetic resonance imaging in murine U87 glioma xenografts and in patients with glioblastoma. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1854-1862.	3.0	54
104	Water-exchange MRI detects subtle blood-brain barrier breakdown in Alzheimer's disease rats. <i>NeuroImage</i> , 2019, 184, 349-358.	4.2	52
105	Multiparametric cardiovascular magnetic resonance surveillance of acute cardiac allograft rejection and characterisation of transplantation-associated myocardial injury: a pilot study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 52.	3.3	51
106	Oxygen-enhanced MRI Is Feasible, Repeatable, and Detects Radiotherapy-induced Change in Hypoxia in Xenograft Models and in Patients with Non-small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2019, 25, 3818-3829.	7.0	51
107	Pharmacokinetic Analysis of Neoplasms Using Contrast-enhanced Dynamic Magnetic Resonance Imaging. <i>Topics in Magnetic Resonance Imaging</i> , 1999, 10, 130-142.	1.2	50
108	Wallerian Degeneration in the Optic Radiation After Temporal Lobectomy Demonstrated In Vivo with Diffusion Tensor Imaging. <i>Epilepsia</i> , 1999, 40, 1155-1158.	5.1	49

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109	Measuring water exchange across the blood-brain barrier using MRI. Progress in Nuclear Magnetic Resonance Spectroscopy, 2020, 116, 19-39.	7.5	49
110	The tract terminations in the temporal lobe: Their location and associated functions. Cortex, 2017, 97, 277-290.	2.4	48
111	Plasma Tie2 is a tumor vascular response biomarker for VEGF inhibitors in metastatic colorectal cancer. Nature Communications, 2018, 9, 4672.	12.8	47
112	Analysis of MR diffusion weighted images. British Journal of Radiology, 2004, 77, S176-S185.	2.2	46
113	The challenges of deploying artificial intelligence models in a rapidly evolving pandemic. Nature Machine Intelligence, 2020, 2, 298-300.	16.0	45
114	MRI measurement of blood-brain barrier permeability following spontaneous reperfusion in the starch microsphere model of ischemia. Magnetic Resonance Imaging, 2002, 20, 221-230.	1.8	44
115	Reproducibility of in vivo metabolite quantification with proton magnetic resonance spectroscopic imaging. Journal of Magnetic Resonance Imaging, 2002, 15, 219-225.	3.4	43
116	Improved quantitative dynamic regional oxygen-enhanced pulmonary imaging using image registration. Magnetic Resonance in Medicine, 2005, 54, 464-469.	3.0	43
117	Comparison of the Performance of Tracer Kinetic Model-Driven Registration for Dynamic Contrast Enhanced MRI Using Different Models of Contrast Enhancement. Academic Radiology, 2006, 13, 1112-1123.	2.5	43
118	Using the Model-Based Residual Bootstrap to Quantify Uncertainty in Fiber Orientations From $\mathbb{S}^2$ -Ball Analysis. IEEE Transactions on Medical Imaging, 2009, 28, 535-550.	8.9	42
119	In vivo $^1\text{H}$ -magnetic resonance spectroscopy of the spinal cord in humans. Neuroradiology, 2000, 42, 515-517.	2.2	41
120	Tracer Kinetic Modelling for T1-Weighted DCE-MRI. , 2005, , 81-92.		41
121	Measurement of the Curie temperature distribution in FePt granular magnetic media. Applied Physics Letters, 2014, 104, .	3.3	41
122	Improving image quality and T1 measurements using saturation recovery turboFLASH with an approximate K-space normalisation filter. Magnetic Resonance Imaging, 2000, 18, 157-167.	1.8	40
123	Measuring Contrast Agent Concentration in T1-Weighted Dynamic Contrast-Enhanced MRI. , 2005, , 69-79.		40
124	Dynamic oxygen-enhanced magnetic resonance imaging of the lung in asthma—Initial experience. European Journal of Radiology, 2015, 84, 318-326.	2.6	39
125	Delivering Functional Imaging on the MRI-Linac: Current Challenges and Potential Solutions. Clinical Oncology, 2018, 30, 702-710.	1.4	39
126	T1 histograms of normal-appearing brain tissue are abnormal in early relapsing-remitting multiple sclerosis. Multiple Sclerosis Journal, 2002, 8, 211-216.	3.0	36



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127	Tracer kinetic analysis of dynamic contrast-enhanced MRI and CT bladder cancer data: A preliminary comparison to assess the magnitude of water exchange effects. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 595-603.	3.0	35
128	What levels of precision are achievable for quantification of perfusion and capillary permeability surface area product using ASL?. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 281-289.	3.0	34
129	Coaxially Electrospun Axon-Mimicking Fibers for Diffusion Magnetic Resonance Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6311-6316.	8.0	34
130	Mapping Hypoxia in Renal Carcinoma with Oxygen-enhanced MRI: Comparison with Intrinsic Susceptibility MRI and Pathology. <i>Radiology</i> , 2018, 288, 739-747.	7.3	34
131	A phase 1 trial of intravenous 4-(N-(S-glutathionylacetyl)amino) phenylarsenoxide (GSAO) in patients with advanced solid tumours. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 72, 1343-1352.	2.3	33
132	Anatomical brain connectivity can assess cognitive dysfunction in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2013, 19, 1161-1168.	3.0	33
133	Comparison of errors associated with single- and multi-bolus injection protocols in low-temporal-resolution dynamic contrast-enhanced tracer kinetic analysis. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 611-619.	3.0	32
134	Exploiting peak anisotropy for tracking through complex structures. , 2007, , .		31
135	Effects of grain microstructure on magnetic properties in FePtAg-C media for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	31
136	Voxel-wise quantification of myocardial blood flow with cardiovascular magnetic resonance: effect of variations in methodology and validation with positron emission tomography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 11.	3.3	31
137	Feasibility assessment of using oxygen-enhanced magnetic resonance imaging for evaluating the effect of pharmacological treatment in COPD. <i>European Journal of Radiology</i> , 2014, 83, 2093-2101.	2.6	30
138	The grey matter correlates of impaired decision-making in multiple sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 530-536.	1.9	30
139	Respiratory tract exacerbations revisited: Ventilation, inflammation, perfusion, and structure (VIPS) monitoring to redefine treatment. <i>Pediatric Pulmonology</i> , 2015, 50, S57-65.	2.0	29
140	Preparation and characterization of polycaprolactone microspheres by electrospaying. <i>Aerosol Science and Technology</i> , 2016, 50, 1201-1215.	3.1	29
141	Hollow Polycaprolactone Microspheres with/without a Single Surface Hole by Co-Electrospaying. <i>Langmuir</i> , 2017, 33, 13262-13271.	3.5	28
142	Glandular Function in Sjögren Syndrome: Assessment with Dynamic Contrast-enhanced MR Imaging and Tracer Kinetic Modeling—Initial Experience. <i>Radiology</i> , 2008, 246, 845-853.	7.3	27
143	Identification of early predictive imaging biomarkers and their relationship to serological angiogenic markers in patients with ovarian cancer with residual disease following cytotoxic therapy. <i>Annals of Oncology</i> , 2010, 21, 1982-1989.	1.2	27
144	Imaging angiogenesis of genitourinary tumors. <i>Nature Reviews Urology</i> , 2010, 7, 69-82.	3.8	27

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145	Enhancing Fraction in Glioma and Its Relationship to the Tumoral Vascular Microenvironment: A Dynamic Contrast-Enhanced MR Imaging Study. <i>American Journal of Neuroradiology</i> , 2010, 31, 726-731.	2.4	26
146	A structural connectivity convergence zone in the ventral and anterior temporal lobes: Data-driven evidence from structural imaging. <i>Cortex</i> , 2019, 120, 298-307.	2.4	26
147	A tutorial and tool for exploring feature similarity gradients with MRI data. <i>NeuroImage</i> , 2020, 221, 117140.	4.2	26
148	DCE-MRI model selection for investigating disruption of microvascular function in livers with metastatic disease. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 196-203.	3.4	25
149	Using in vivo probabilistic tractography to reveal two segregated dorsal "language-cognitive" pathways in the human brain. <i>Brain and Language</i> , 2013, 127, 230-240.	1.6	25
150	T1-W DCE-MRI:T1-Weighted Dynamic Contrast-Enhanced MRI. , 0, , 341-364.		24
151	Oxygen-induced changes in longitudinal relaxation times in skeletal muscle. <i>Magnetic Resonance Imaging</i> , 2008, 26, 221-227.	1.8	24
152	Production and cross-sectional characterization of aligned co-electrospun hollow microfibrillar bulk assemblies. <i>Materials Characterization</i> , 2015, 109, 25-35.	4.4	24
153	Biomimetic phantom for cardiac diffusion MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 594-600.	3.4	24
154	Application of a B-spline active surface technique to the measurement of cervical cord volume in multiple sclerosis from three-dimensional MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 368-371.	3.4	23
155	Enhancing Fraction Predicts Clinical Outcome following First-Line Chemotherapy in Patients with Epithelial Ovarian Carcinoma. <i>Clinical Cancer Research</i> , 2007, 13, 6130-6135.	7.0	23
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