Peter Jezzard

List of Publications by Citations

176 papers	13,475 citations	59 h-index	113 g-index
184 ext. papers	15,102 ext. citations	5.9 avg, IF	6.22 L-index

#	Paper	IF	Citations
176	Functional MRI evidence for adult motor cortex plasticity during motor skill learning. *Nature*, **1995**, 377, 155-8	50.4	1430
175	Correction for geometric distortion in echo planar images from B0 field variations. *Magnetic Resonance in Medicine*, **1995**, 34, 65-73	4.4	1096
174	The acquisition of skilled motor performance: fast and slow experience-driven changes in primary motor cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 861-8	11.5	1015
173	Cerebral organization for language in deaf and hearing subjects: biological constraints and effects of experience. *Proceedings of the National Academy of Sciences of the United States of America*, **1998** , 95, 922-9	11.5	417
172	Thalamic neurodegeneration in multiple sclerosis. *Annals of Neurology*, **2002**, 52, 650-3	9.4	397
171	Distinct portions of anterior cingulate cortex and medial prefrontal cortex are activated by reward processing in separable phases of decision-making cognition. *Biological Psychiatry*, **2004**, 55, 594-602	7.9	324
170	Sources of distortion in functional MRI data. *Human Brain Mapping*, **1999**, 8, 80-5	5.9	308
169	Activation of prefrontal cortex in children during a nonspatial working memory task with functional MRI. *NeuroImage*, **1995**, 2, 221-9	7.9	291
168	Characterization of and correction for eddy current artifacts in echo planar diffusion imaging. *Magnetic Resonance in Medicine*, **1998**, 39, 801-12	4.4	275
167	Correction for vascular artifacts in cerebral blood flow values measured by using arterial spin tagging techniques. *Magnetic Resonance in Medicine*, **1997**, 37, 226-35	4.4	266
166	Reduction in occipital cortex gamma-aminobutyric acid concentrations in medication-free recovered unipolar depressed and bipolar subjects. *Biological Psychiatry*, **2007**, 61, 806-12	7.9	231
165	Neurochemical effects of theta burst stimulation as assessed by magnetic resonance spectroscopy. *Journal of Neurophysiology*, **2009**, 101, 2872-7	3.2	198
164	Brain anatomy and its relationship to behavior in adults with autism spectrum disorder: a multicenter magnetic resonance imaging study. *Archives of General Psychiatry*, **2012**, 69, 195-209		195
163	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. *EClinicalMedicine*, **2021**, 31, 100683	11.3	164
162	Increased brain GABA concentrations following acute administration of a selective serotonin reuptake inhibitor. *American Journal of Psychiatry*, **2004**, 161, 368-70	11.9	162
161	Quantitative measurement of cerebral physiology using respiratory-calibrated MRI. *NeuroImage*, **2012**, 60, 582-91	7.9	161
160	Frequency and phase drift correction of magnetic resonance spectroscopy data by spectral registration in the time domain. *Magnetic Resonance in Medicine*, **2015**, 73, 44-50	4.4	152

159	A calibration method for quantitative BOLD fMRI based on hyperoxia. *NeuroImage*, **2007**, 37, 808-20	7.9	147
158	A critical period for right hemisphere recruitment in American Sign Language processing. *Nature Neuroscience*, **2002**, 5, 76-80	25.5	145
157	Perfusion imaging with compensation for asymmetric magnetization transfer effects. *Magnetic Resonance in Medicine*, **1996**, 35, 70-9	4.4	142
156	Baseline GABA concentration and fMRI response. *NeuroImage*, **2010**, 53, 392-8	7.9	139
155	Cerebral perfusion response to hyperoxia. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 69-75	7.3	138
154	Fast, Fully Automated Global and Local Magnetic Field Optimization for fMRI of the Human Brain. *NeuroImage*, **2002**, 17, 967-976	7.9	133
153	Advanced processing and simulation of MRS data using the FID appliance (FID-A)-An open source, MATLAB-based toolkit. *Magnetic Resonance in Medicine*, **2017**, 77, 23-33	4.4	131
152	Methamphetamine activates reward circuitry in drug naïve human subjects. *Neuropsychopharmacology*, **2004**, 29, 1715-22	8.7	125
151	Low GABA concentrations in occipital cortex and anterior cingulate cortex in medication-free, recovered depressed patients. *International Journal of Neuropsychopharmacology*, **2008**, 11, 255-60	5.8	121
150	Radio frequency magnetic field mapping of a 3 Tesla birdcage coil: experimental and theoretical dependence on sample properties. *Magnetic Resonance in Medicine*, **2001**, 46, 379-85	4.4	109
149	Identifying the ischaemic penumbra using pH-weighted magnetic resonance imaging. *Brain*, **2015**, 138, 36-42	11.2	102
148	Rapid T(1) mapping using multislice echo planar imaging. *Magnetic Resonance in Medicine*, **2001**, 45, 630-4	4.4	102
147	Assessment of arterial arrival times derived from multiple inversion time pulsed arterial spin labeling MRI. *Magnetic Resonance in Medicine*, **2010**, 63, 641-7	4.4	100
146	Simultaneous recording of laser-evoked brain potentials and continuous, high-field functional magnetic resonance imaging in humans. *NeuroImage*, **2005**, 28, 708-19	7.9	99
145	Standardized structural magnetic resonance imaging in multicentre studies using quantitative T1 and T2 imaging at 1.5 T. *NeuroImage*, **2008**, 40, 662-671	7.9	97
144	Dynamic forcing of end-tidal carbon dioxide and oxygen applied to functional magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 1521-32	7.3	97
143	Functional asymmetry for auditory processing in human primary auditory cortex. *Journal of Neuroscience*, **2003**, 23, 11516-22	6.6	96
142	Sensitivity-encoded single-shot spiral imaging for reduced susceptibility artifacts in BOLD fMRI. *Magnetic Resonance in Medicine*, **2002**, 48, 860-6	4.4	95

141	DANTE-prepared pulse trains: a novel approach to motion-sensitized and motion-suppressed quantitative magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2012**, 68, 1423-38	4.4	93
140	Noninvasive Quantification of 2-Hydroxyglutarate in Human Gliomas with IDH1 and IDH2 Mutations. *Cancer Research*, **2016**, 76, 43-9	10.1	88
139	Partial volume correction of multiple inversion time arterial spin labeling MRI data. *Magnetic Resonance in Medicine*, **2011**, 65, 1173-83	4.4	86
138	Flow-metabolism coupling in human visual, motor, and supplementary motor areas assessed by magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2007**, 57, 538-47	4.4	86
137	Characterization of regional heterogeneity in cerebrovascular reactivity dynamics using novel hypocapnia task and BOLD fMRI. *NeuroImage*, **2009**, 48, 166-75	7.9	85
136	Multiple inflow pulsed arterial spin-labeling reveals delays in the arterial arrival time in minor stroke and transient ischemic attack. *American Journal of Neuroradiology*, **2010**, 31, 1892-4	4.4	84
135	Independent anatomical and functional measures of the V1/V2 boundary in human visual cortex. *Journal of Vision*, **2005**, 5, 93-102	0.4	83
134	Hemispheric specialization for English and ASL: left invariance-right variability. *NeuroReport*, **1998**, 9, 1537-42	1.7	83
133	Optimization of static field homogeneity in human brain using diamagnetic passive shims. *Magnetic Resonance in Medicine*, **2002**, 48, 906-14	4.4	82
132	A functional magnetic resonance imaging study of cortical regions associated with motor task execution and motor ideation in humans. *Human Brain Mapping*, **1995**, 3, 83-92	5.9	80
131	Separation of macrovascular signal in multi-inversion time arterial spin labelling MRI. *Magnetic Resonance in Medicine*, **2010**, 63, 1357-65	4.4	79
130	Measuring the effects of remifentanil on cerebral blood flow and arterial arrival time using 3D GRASE MRI with pulsed arterial spin labelling. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 1514-22	7.3	78
129	Modelling vascular reactivity to investigate the basis of the relationship between cerebral blood volume and flow under CO2 manipulation. *NeuroImage*, **2008**, 39, 107-18	7.9	78
128	Comparison of EPI gradient-echo contrast changes in cat brain caused by respiratory challenges with direct simultaneous evaluation of cerebral oxygenation via a cranial window. *NMR in Biomedicine*, **1994**, 7, 35-44	4.4	78
127	Cerebral blood flow, blood volume, and oxygen metabolism dynamics in human visual and motor cortex as measured by whole-brain multi-modal magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 1856-66	7.3	76
126	Selective arterial spin labeling (SASL): perfusion territory mapping of selected feeding arteries tagged using two-dimensional radiofrequency pulses. *Magnetic Resonance in Medicine*, **2003**, 49, 1133-42	4.4	71
125	Evidence for a vascular contribution to diffusion FMRI at high b value. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20967-72	11.5	70
124	Comparing different analysis methods for quantifying the MRI amide proton transfer (APT) effect in hyperacute stroke patients. *NMR in Biomedicine*, **2014**, 27, 1019-29	4.4	66

123	Cerebral blood flow quantification using vessel-encoded arterial spin labeling. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1716-24	7.3	66
122	Sources of systematic bias in hypercapnia-calibrated functional MRI estimation of oxygen metabolism. *NeuroImage*, **2007**, 34, 35-43	7.9	65
121	Unedited in vivo detection and quantification of □aminobutyric acid in the occipital cortex using short-TE MRS at 3 T. *NMR in Biomedicine*, **2013**, 26, 1353-62	4.4	62
120	Efficient □aminobutyric acid editing at 3T without macromolecule contamination: MEGA-SPECIAL. *NMR in Biomedicine*, **2011**, 24, 1277-85	4.4	62
119	High-resolution FMRI at 1.5T using balanced SSFP. *Magnetic Resonance in Medicine*, **2006**, 55, 161-70	4.4	61
118	Blood oxygenation level-dependent (BOLD) total and extravascular signal changes and □2* in human visual cortex at 1.5, 3.0 and 7.0 T. *NMR in Biomedicine*, **2011**, 24, 25-34	4.4	59
117	Investigations on the efficiency of cardiac-gated methods for the acquisition of diffusion-weighted images. *Journal of Magnetic Resonance*, **2005**, 177, 102-10	3	58
116	Measurement of cerebral blood volume in humans using hyperoxic MRI contrast. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 894-9	5.6	56
115	Black-blood multicontrast imaging of carotid arteries with DANTE-prepared 2D and 3D MR imaging. *Radiology*, **2014**, 273, 560-9	20.5	54
114	Comparison of hypercapnia-based calibration techniques for measurement of cerebral oxygen metabolism with MRI. *Magnetic Resonance in Medicine*, **2009**, 61, 391-8	4.4	54
113	Perfusion imaging of the human brain at 1.5 T using a single-shot EPI spin tagging approach. *Magnetic Resonance in Medicine*, **1996**, 36, 217-24	4.4	54
112	Correction of geometric distortion in fMRI data. *NeuroImage*, **2012**, 62, 648-51	7.9	53
111	Absolute arterial cerebral blood volume quantification using inflow vascular-space-occupancy with dynamic subtraction magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2010**, 30, 1329-42	7.3	52
110	Perturbation method for magnetic field calculations of nonconductive objects. *Magnetic Resonance in Medicine*, **2004**, 52, 471-7	4.4	52
109	Plaque features associated with increased cerebral infarction after minor stroke and TIA: a prospective, case-control, 3-T carotid artery MR imaging study. *JACC: Cardiovascular Imaging*, **2012**, 5, 388-96	8.4	51
108	Utilization of an intra-oral diamagnetic passive shim in functional MRI of the inferior frontal cortex. *Magnetic Resonance in Medicine*, **2003**, 50, 1089-94	4.4	51
107	Visualization of altered neurovascular coupling in chronic stroke patients using multimodal functional MRI. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 2044-54	7.3	49
106	Arterial spin labeling for the measurement of cerebral perfusion and angiography. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 603-626	7.3	49

105	Scan time reduction for readout-segmented EPI using simultaneous multislice acceleration: Diffusion-weighted imaging at 3 and 7 Tesla. *Magnetic Resonance in Medicine*, **2015**, 74, 136-149	4.4	46
104	An in vivo model for functional MRI in cat visual cortex. *Magnetic Resonance in Medicine*, **1997**, 38, 699-705	4.4	44
103	Fast, fully automated global and local magnetic field optimization for fMRI of the human brain. *NeuroImage*, **2002**, 17, 967-76	7.9	44
102	The clinical potential of functional magnetic resonance imaging. *Journal of Magnetic Resonance Imaging*, **2006**, 23, 787-93	5.6	43
101	Quantitative Bayesian model-based analysis of amide proton transfer MRI. *Magnetic Resonance in Medicine*, **2013**, 70, 556-67	4.4	42
100	Quantification of Lipid-Rich Core in Carotid Atherosclerosis Using Magnetic Resonance T Mapping: Relation to Clinical Presentation. *JACC: Cardiovascular Imaging*, **2017**, 10, 747-756	8.4	38
99	Optimal design of pulsed arterial spin labeling MRI experiments. *Magnetic Resonance in Medicine*, **2008**, 59, 826-34	4.4	38
98	Modeling SSFP functional MRI contrast in the brain. *Magnetic Resonance in Medicine*, **2008**, 60, 661-73	4.4	38
97	Signal and noise characteristics of SSFP FMRI: a comparison with GRE at multiple field strengths. *NeuroImage*, **2007**, 37, 1227-36	7.9	38
96	Simultaneous measurement of DeltaR2 and DeltaR2* in cat brain during hypoxia and hypercapnia. *NeuroImage*, **1997**, 6, 191-200	7.9	37
95	Technical foundations and pitfalls of clinical fMRI. *NeuroImage*, **1996**, 4, S63-75	7.9	37
94	Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling. *Magnetic Resonance in Medicine*, **2010**, 64, 698-706	4.4	35
93	Differential effects of citalopram and reboxetine on cortical Glx measured with proton MR spectroscopy. *Journal of Psychopharmacology*, **2008**, 22, 473-6	4.6	35
92	Modeling dispersion in arterial spin labeling: validation using dynamic angiographic measurements. *Magnetic Resonance in Medicine*, **2013**, 69, 563-70	4.4	33
91	The effect of basal vasodilation on hypercapnic and hypocapnic reactivity measured using magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 426-38	7.3	33
90	Normal glutamate but elevated myo-inositol in anterior cingulate cortex in recovered depressed patients. *Journal of Affective Disorders*, **2009**, 119, 186-9	6.6	33
89	Quantitative perfusion measurements using pulsed arterial spin labeling: effects of large region-of-interest analysis. *Journal of Magnetic Resonance Imaging*, **2005**, 21, 676-82	5.6	33
88	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 1391-1417	7.3	33

87	Modeling the effects of dispersion and pulsatility of blood flow in pulsed arterial spin labeling. *Magnetic Resonance in Medicine*, **2008**, 60, 53-63	4.4	32
86	Self-navigated multishot echo-planar pulse sequence for high-resolution diffusion-weighted imaging. *Magnetic Resonance in Medicine*, **2005**, 53, 1474-8	4.4	32
85	A general framework for the analysis of vessel encoded arterial spin labeling for vascular territory mapping. *Magnetic Resonance in Medicine*, **2010**, 64, 1529-39	4.4	31
84	3D multi-slab diffusion-weighted readout-segmented EPI with real-time cardiac-reordered K-space acquisition. *Magnetic Resonance in Medicine*, **2014**, 72, 1565-79	4.4	30
83	The cortical organization of audio-visual sentence comprehension: an fMRI study at 4 Tesla. *Cognitive Brain Research*, **2004**, 20, 111-9		29
82	A method for determining venous contribution to BOLD contrast sensory activation. *Magnetic Resonance Imaging*, **2002**, 20, 695-706	3.3	28
81	Ultrahigh field systems and applications at 7 T and beyond: progress, pitfalls, and potential. *Magnetic Resonance in Medicine*, **2012**, 67, 317-21	4.4	27
80	Implementation and assessment of diffusion-weighted partial Fourier readout-segmented echo-planar imaging. *Magnetic Resonance in Medicine*, **2012**, 68, 441-51	4.4	27
79	An optimized design to reduce eddy current sensitivity in velocity-selective arterial spin labeling using symmetric BIR-8 pulses. *Magnetic Resonance in Medicine*, **2015**, 73, 1085-94	4.4	25
78	Characterization and reduction of gradient-induced eddy currents in the RF shield of a TEM resonator. *Magnetic Resonance in Medicine*, **2002**, 48, 404-7	4.4	25
77	Density-weighted concentric rings k-space trajectory for H magnetic resonance spectroscopic imaging at 7□T. *NMR in Biomedicine*, **2018**, 31, e3838	4.4	24
76	Non-water-suppressed short-echo-time magnetic resonance spectroscopic imaging using a concentric ring k-space trajectory. *NMR in Biomedicine*, **2017**, 30, e3714	4.4	23
75	Asymmetries of the balanced SSFP profile. Part II: white matter. *Magnetic Resonance in Medicine*, **2010**, 63, 396-406	4.4	23
74	Theoretical and experimental evaluation of detached endcaps for 3 T birdcage coils. *Magnetic Resonance in Medicine*, **2003**, 49, 363-70	4.4	23
73	Protocol to determine the optimal intraoral passive shim for minimisation of susceptibility artifact in human inferior frontal cortex. *NeuroImage*, **2003**, 19, 1802-11	7.9	23
72	Compensating for B(1) inhomogeneity using active transmit power modulation. *Magnetic Resonance Imaging*, **2001**, 19, 1349-52	3.3	23
71	A fast analysis method for non-invasive imaging of blood flow in individual cerebral arteries using vessel-encoded arterial spin labelling angiography. *Medical Image Analysis*, **2012**, 16, 831-9	15.4	22
70	An optimized velocity selective arterial spin labeling module with reduced eddy current sensitivity for improved perfusion quantification. *Magnetic Resonance in Medicine*, **2013**, 69, 832-8	4.4	22

69	Quantification of Serial Cerebral Blood Flow in Acute Stroke Using Arterial Spin Labeling. *Stroke*, **2017**, 48, 123-130	6.7	22
68	Two-voxel spectroscopy with dynamic B0 shimming and flip angle adjustment at 7 T in the human motor cortex. *NMR in Biomedicine*, **2015**, 28, 852-60	4.4	22
67	Optimization of 4D vessel-selective arterial spin labeling angiography using balanced steady-state free precession and vessel-encoding. *NMR in Biomedicine*, **2016**, 29, 776-86	4.4	21
66	T2-Weighted intracranial vessel wall imaging at 7 Tesla using a DANTE-prepared variable flip angle turbo spin echo readout (DANTE-SPACE). *Magnetic Resonance in Medicine*, **2017**, 77, 655-663	4.4	20
65	Intracranial hemodynamics is altered by carotid artery disease and after endarterectomy: a dynamic magnetic resonance angiography study. *Stroke*, **2011**, 42, 979-84	6.7	20
64	Hemodynamic alterations in vertebrobasilar large artery disease assessed by arterial spin-labeling MR imaging. *American Journal of Neuroradiology*, **2012**, 33, 1939-44	4.4	20
63	Requirements for room temperature shimming of the human brain. *Magnetic Resonance in Medicine* , **2006**, 55, 210-4	4.4	20
62	A kinetic model for vessel-encoded dynamic angiography with arterial spin labeling. *Magnetic Resonance in Medicine*, **2012**, 68, 969-79	4.4	19
61	Metabolite-cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables high-resolution 1 H magnetic resonance spectroscopic imaging at 3-Tesla. *Scientific Reports*, **2018**, 8, 7792	4.9	19
60	Spontaneous blood oxygenation level-dependent fMRI signal is modulated by behavioral state and correlates with evoked response in sensorimotor cortex: a 7.0-T fMRI study. *Human Brain Mapping*, **2012**, 33, 511-22	5.9	18
59	Investigating white matter perfusion using optimal sampling strategy arterial spin labeling at 7 Tesla. *Magnetic Resonance in Medicine*, **2015**, 73, 2243-8	4.4	18
58	Nuclear magnetic resonance imaging of polymers and polymer composites. *Advanced Materials*, **1992**, 4, 82-90	24	18
57	A Noninvasive Comparison Study between Human Gliomas with IDH1 and IDH2 Mutations by MR Spectroscopy. *Metabolites*, **2019**, 9,	5.6	17
56	Variation in the shape of pulsed arterial spin labeling kinetic curves across the healthy human brain and its implications for CBF quantification. *Magnetic Resonance in Medicine*, **2009**, 61, 686-95	4.4	17
55	Magnetic resonance imaging studies of the polymerisation of methylmethacrylate. *Polymer International*, **1991**, 24, 139-143	3.3	17
54	Improved localisation for 2-hydroxyglutarate detection at 3T using long-TE semi-LASER. *Tomography*, **2016**, 2, 94-105	3.1	17
53	Quantitative blood flow measurement in rat brain with multiphase arterial spin labelling magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 1557-1569	7.3	17
52	Optimizing image registration and infarct definition in stroke research. *Annals of Clinical and Translational Neurology*, **2017**, 4, 166-174	5.3	15

51	7 Tesla MRI in cerebral small vessel disease. *International Journal of Stroke*, **2015**, 10, 659-64	6.3	15
50	Physical and physiological consequences of passive intra-oral shimming. *NeuroImage*, **2006**, 29, 245-53	7.9	15
49	Calibration of gradient propagation delays for accurate two-dimensional radiofrequency pulses. *Magnetic Resonance in Medicine*, **2005**, 53, 231-6	4.4	15
48	Quantification of carotid plaque lipid content with magnetic resonance T2 mapping in patients undergoing carotid endarterectomy. *PLoS ONE*, **2017**, 12, e0181668	3.7	15
47	Lack of effect of citalopram on magnetic resonance spectroscopy measures of glutamate and glutamine in frontal cortex of healthy volunteers. *Journal of Psychopharmacology*, **2010**, 24, 1217-21	4.6	14
46	A comparison of 2-hydroxyglutarate detection at 3 and 7 T with long-TE semi-LASER. *NMR in Biomedicine*, **2018**, 31, e3886	4.4	13
45	An Optimized Encoding Scheme for Planning Vessel-Encoded Pseudocontinuous Arterial Spin Labeling. *Magnetic Resonance in Medicine*, **2015**, 74, 1248-56	4.4	13
44	Cardiac cycle-induced EPI time series fluctuations in the brain: Their temporal shifts, inflow effects and T fluctuations. *NeuroImage*, **2017**, 162, 93-105	7.9	13
43	Are power calculations useful? A multicentre neuroimaging study. *Human Brain Mapping*, **2014**, 35, 3569-77	5.9	12
42	Real-time adaptive sequential design for optimal acquisition of arterial spin labeling MRI data. *Magnetic Resonance in Medicine*, **2010**, 64, 203-10	4.4	12
41	Functional MRI413-453		12
40	Optimizing RetroICor and RetroKCor corrections for multi-shot 3D FMRI acquisitions. *NeuroImage*, **2014**, 84, 394-405	7.9	10
39	Prospective motion correction and selective reacquisition using volumetric navigators for vessel-encoded arterial spin labeling dynamic angiography. *Magnetic Resonance in Medicine*, **2016**, 76, 1420-1430	4.4	10
38	Measurement of collateral perfusion in acute stroke: a vessel-encoded arterial spin labeling study. *Scientific Reports*, **2019**, 9, 8181	4.9	9
37	Evaluation of methemoglobin as an autologous intravascular MRI contrast agent. *Magnetic Resonance in Medicine*, **1996**, 35, 787-9	4.4	9
36	Temperature mapping in solid polymers using the temperature dependence of NMR relaxation times. *Journal of Polymer Science, Part B: Polymer Physics*, **1992**, 30, 1423-1425	2.6	9
35	Defect detection in carbon fibre composite structures by magnetic resonance imaging. *Journal of Materials Science Letters*, **1990**, 9, 1165-1168		9
34	Dual regression physiological modeling of resting-state EPI power spectra: Effects of healthy aging. *NeuroImage*, **2019**, 187, 68-76	7.9	9

33	Large dynamic range relative B1+ mapping. *Magnetic Resonance in Medicine*, **2016**, 76, 490-9	4.4	8
32	Evaluating quantitative approaches to dynamic susceptibility contrast MRI among carotid endarterectomy patients. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 936-43	5.6	8
31	Visualizing artery-specific blood flow patterns above the circle of Willis with vessel-encoded arterial spin labeling. *Magnetic Resonance in Medicine*, **2019**, 81, 1595-1604	4.4	8
30	Pseudo-continuous arterial spin labelling MRI for non-invasive, whole-brain, serial quantification of cerebral blood flow following aneurysmal subarachnoid haemorrhage. *Translational Stroke Research*, **2013**, 4, 710-8	7.8	7
29	A theoretical framework for quantifying blood volume flow rate from dynamic angiographic data and application to vessel-encoded arterial spin labeling MRI. *Medical Image Analysis*, **2013**, 17, 1025-36	15.4	7
28	Performance of single spin-echo and doubly refocused diffusion-weighted sequences in the presence of eddy current fields with multiple components. *Magnetic Resonance Imaging*, **2011**, 29, 659-67	3.3	7
27	Off-resonance correction for pseudo-continuous arterial spin labeling using the optimized encoding scheme. *NeuroImage*, **2019**, 199, 304-312	7.9	6
26	A purpose-built neck coil for black-blood DANTE-prepared carotid artery imaging at 7T. *Magnetic Resonance Imaging*, **2017**, 40, 53-61	3.3	5
25	Improving PCASL at ultra-high field using a VERSE-guided parallel transmission strategy. *Magnetic Resonance in Medicine*, **2020**, 84, 777-786	4.4	5
24	Measurement of relative cerebral blood volume using BOLD contrast and mild hypoxic hypoxia. *Magnetic Resonance Imaging*, **2010**, 28, 1129-34	3.3	5
23	Centric ordering is superior to gradient moment nulling for motion artifact reduction in EPI. *Journal of Magnetic Resonance Imaging*, **1997**, 7, 1122-31	5.6	5
22	Magnetic resonance functional imaging of the brain at 4 t. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **1994**, 2, 147-156	2.8	5
21	A Comparison of T Relaxation-Based MRI Stroke Timing Methods in Hyperacute Ischemic Stroke Patients: A Pilot Study. *Journal of Central Nervous System Disease*, **2020**, 12, 1179573520943314	4.4	5
20	Volume-localized measurement of oxygen extraction fraction in the brain using MRI. *Magnetic Resonance in Medicine*, **2019**, 82, 1412-1423	4.4	4
19	Magnetic resonance imaging methods for study of human brain function and their application at high magnetic field. *Computerized Medical Imaging and Graphics*, **1996**, 20, 467-81	7.6	4
18	Navigator-based reacquisition and estimation of motion-corrupted data: Application to multi-echo spin echo for carotid wall MRI. *Magnetic Resonance in Medicine*, **2020**, 83, 2026-2041	4.4	4
17	Feasibility of Flat Panel Detector CT in Perfusion Assessment of Brain Arteriovenous Malformations: Initial Clinical Experience. *American Journal of Neuroradiology*, **2017**, 38, 735-739	4.4	3
16	Determining T2 relaxation time and stroke onset relationship in ischaemic stroke within apparent diffusion coefficient-defined lesions. A user-independent method for quantifying the impact of stroke in the human brain. *Biomedical Spectroscopy and Imaging*, **2019**, 8, 11-28	1.3	3

15	Structural imaging of the cervical spinal cord with suppressed CSF signal using DANTE pulse trains. *Magnetic Resonance in Medicine*, **2015**, 74, 971-7	4.4	3
14	Tryptophan depletion does not lower brain GABA levels in healthy volunteers. *Psychopharmacology*, **2006**, 187, 131-2	4.7	3
13	Quantifying T relaxation time changes within lesions defined by apparent diffusion coefficient in grey and white matter in acute stroke patients. *Physics in Medicine and Biology*, **2019**, 64, 095016	3.8	2
12	MR perfusion imaging in neuroscience103-126		2
11	Vascular territory image analysis using vessel encoded arterial spin labeling. *Lecture Notes in Computer Science*, **2009**, 12, 514-21	0.9	2
10	Principles of nuclear magnetic resonance and MRI **2001**, 68-92		2
9	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. *Frontiers in Neurology*, **2021**, 12, 753284	4.1	2
8	An investigation into the minimum number of tissue groups required for 7T in-silico parallel transmit electromagnetic safety simulations in the human head. *Magnetic Resonance in Medicine*, **2021**, 85, 1114-1122	4.4	2
7	Unbiased signal equation for quantitative magnetization transfer mapping in balanced steady-state free precession MRI. *Magnetic Resonance in Medicine*, **2022**, 87, 446-456	4.4	2
6	Physical Basis of Spatial Distortions in Magnetic Resonance Images **2000**, 425-438		1
5	Study Protocol: The Heart and Brain Study. *Frontiers in Physiology*, **2021**, 12, 643725	4.6	1
4	The advantages of radial trajectories for vessel-selective dynamic angiography with arterial spin labeling. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2019**, 32, 643-653	2.8	0
3	Assessment of radio-frequency heating of a parallel transmit coil in a phantom using multi-echo proton resonance frequency shift thermometry. *Magnetic Resonance Imaging*, **2021**, 77, 57-68	3.3	0
2	Methodologies, practicalities and pitfalls in functional MR imaging156-168		
1	Perfusion imaging: quantitative cerebral blood flow mapping in humans using magnetic resonance imaging. *Journal of Stroke and Cerebrovascular Diseases*, **1998**, 7, 228-9	2.8	