Roger J Ordidge

List of Publications by Citations

136 papers	5,529 citations	42 h-index	71 g-index
149 ext. papers	5,962 ext. citations	5.6 avg, IF	4.77 L-index

#	Paper	IF	Citations
136	Correction of motional artifacts in diffusion-weighted MR images using navigator echoes. *Magnetic Resonance Imaging*, **1994**, 12, 455-60	3.3	298
135	Assessment of relative brain iron concentrations using T2-weighted and T2*-weighted MRI at 3 Tesla. *Magnetic Resonance in Medicine*, **1994**, 32, 335-41	4.4	292
134	Increased iron-related MRI contrast in the substantia nigra in Parkinson's disease. *Neurology*, **1995**, 45, 1138-43	6.5	275
133	Magnetic resonance imaging assessment of evolving focal cerebral ischemia. Comparison with histopathology in rats. *Stroke*, **1994**, 25, 1252-61; discussion 1261-2	6.7	233
132	High field MRI correlates of myelin content and axonal density in multiple sclerosis--a post-mortem study of the spinal cord. *Journal of Neurology*, **2003**, 250, 1293-301	5.5	224
131	Temporal evolution of ischemic damage in rat brain measured by proton nuclear magnetic resonance imaging. *Stroke*, **1991**, 22, 802-8	6.7	187
130	Frequency offset corrected inversion (FOCI) pulses for use in localized spectroscopy. *Magnetic Resonance in Medicine*, **1996**, 36, 562-6	4.4	165
129	Cerebral quantitative susceptibility mapping predicts amyloid-β-related cognitive decline. *Brain*, **2017**, 140, 2112-2119	11.2	144
128	Real-time movie imaging from a single cardiac cycle by NMR. *Magnetic Resonance in Medicine*, **1987**, 5, 246-54	4.4	126
127	Early changes in water diffusion, perfusion, T1, and T2 during focal cerebral ischemia in the rat studied at 8.5 T. *Magnetic Resonance in Medicine*, **1999**, 41, 479-85	4.4	124
126	High field (9.4 Tesla) magnetic resonance imaging of cortical grey matter lesions in multiple sclerosis. *Brain*, **2010**, 133, 858-67	11.2	121
125	Improvements in snap-shot nuclear magnetic resonance imaging. *British Journal of Radiology*, **1988**, 61, 822-8	3.4	112
124	The measurement of diffusion and perfusion in biological systems using magnetic resonance imaging. *Physics in Medicine and Biology*, **2000**, 45, R97-138	3.8	99
123	High-speed multislice T1 mapping using inversion-recovery echo-planar imaging. *Magnetic Resonance in Medicine*, **1990**, 16, 238-45	4.4	89
122	Histopathological correlations of nuclear magnetic resonance imaging parameters in experimental cerebral ischemia. *Magnetic Resonance Imaging*, **1993**, 11, 241-6	3.3	88
121	Whole-body echo-planar MR imaging at 0.5 T. *Radiology*, **1989**, 170, 257-63	20.5	82
120	Use of mitochondrial inhibitors to demonstrate that cytochrome oxidase near-infrared spectroscopy can measure mitochondrial dysfunction noninvasively in the brain. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 27-38	7.3	75

119	Feasibility of simultaneous intracranial EEG-fMRI in humans: a safety study. *NeuroImage*, **2010**, 49, 379-90	7.9	74
118	Temporal evolution and spatial distribution of the diffusion constant of water in rat brain after transient middle cerebral artery occlusion. *Journal of the Neurological Sciences*, **1993**, 120, 123-30	3.2	74
117	Anisotropic water diffusion in white and gray matter of the neonatal piglet brain before and after transient hypoxia-ischaemia. *Magnetic Resonance Imaging*, **1997**, 15, 433-40	3.3	73
116	The effect of hypothermia on transient focal ischemia in rat brain evaluated by diffusion- and perfusion-weighted NMR imaging. *Journal of Cerebral Blood Flow and Metabolism*, **1994**, 14, 732-41	7.3	71
115	Temporal and anatomical variations of brain water apparent diffusion coefficient in perinatal cerebral hypoxic-ischemic injury: relationships to cerebral energy metabolism. *Magnetic Resonance in Medicine*, **1998**, 39, 920-7	4.4	70
114	MRI measurements of cerebral deoxyhaemoglobin concentration [dHb]--correlation with near infrared spectroscopy (NIRS). *NMR in Biomedicine*, **1998**, 11, 281-9	4.4	67
113	Implementation of quantitative FAIR perfusion imaging with a short repetition time in time-course studies. *Magnetic Resonance in Medicine*, **1999**, 41, 829-40	4.4	64
112	Echo planar imaging of the human fetus in utero at 0.5 T. *British Journal of Radiology*, **1990**, 63, 833-41	3.4	63
111	Acute elevation and recovery of intracellular [Mg2+] following human focal cerebral ischemia. *Neurology*, **1993**, 43, 1577-81	6.5	60
110	Real-time flow measurements using echo-planar imaging. *Magnetic Resonance in Medicine*, **1991**, 18, 1-8	4.4	59
109	Role of the human supplementary eye field in the control of saccadic eye movements. *Neuropsychologia*, **2007**, 45, 997-1008	3.2	57
108	Depth of delayed cooling alters neuroprotection pattern after hypoxia-ischemia. *Annals of Neurology*, **2005**, 58, 75-87	9.4	55
107	Behavioral, blood, and magnetic resonance imaging biomarkers of experimental mild traumatic brain injury. *Scientific Reports*, **2016**, 6, 28713	4.9	54
106	In vivo Hadamard encoded continuous arterial spin labeling (H-CASL). *Magnetic Resonance in Medicine*, **2010**, 63, 1111-8	4.4	53
105	Magnetic resonance virtual histology for embryos: 3D atlases for automated high-throughput phenotyping. *NeuroImage*, **2011**, 54, 769-78	7.9	50
104	High-resolution fast spin echo imaging of the human brain at 4.7 T: implementation and sequence characteristics. *Magnetic Resonance in Medicine*, **2004**, 51, 1254-64	4.4	50
103	Delayed whole-body cooling to 33 or 35 degrees C and the development of impaired energy generation consequential to transient cerebral hypoxia-ischemia in the newborn piglet. *Pediatrics*, **2006**, 117, 1549-59	7.4	49
102	Investigation of cerebral ischemia using magnetization transfer contrast (MTC) MR imaging. *Magnetic Resonance Imaging*, **1991**, 9, 895-902	3.3	49

101	Snapshot imaging at 0.5 T using echo-planar techniques. *Magnetic Resonance in Medicine*, **1989**, 10, 227-40	4.4	49
100	A quantitative method for fast diffusion imaging using magnetization-prepared TurboFLASH. *Magnetic Resonance in Medicine*, **1998**, 39, 950-60	4.4	48
99	High resolution MRI of the brain at 4.7 Tesla using fast spin echo imaging. *British Journal of Radiology*, **2003**, 76, 631-7	3.4	47
98	Rapid biomedical imaging by NMR. *British Journal of Radiology*, **1981**, 54, 850-5	3.4	46
97	Snapshot head imaging at 0.5 T using the echo planar technique. *Magnetic Resonance in Medicine*, **1988**, 8, 110-5	4.4	45
96	PEEP--a rapid chemical-shift imaging method. *Magnetic Resonance in Medicine*, **1989**, 10, 282-7	4.4	44
95	Changes in Apparent Fiber Density and Track-Weighted Imaging Metrics in White Matter following Experimental Traumatic Brain Injury. *Journal of Neurotrauma*, **2017**, 34, 2109-2118	5.4	42
94	Study of internal structure of the human fetus in utero by echo-planar magnetic resonance imaging. *American Journal of Obstetrics and Gynecology*, **1990**, 163, 601-7	6.4	42
93	A general approach to selection of multiple cubic volume elements using the ISIS technique. *Magnetic Resonance in Medicine*, **1988**, 8, 323-31	4.4	42
92	Traumatic Brain Injury Results in Cellular, Structural and Functional Changes Resembling Motor Neuron Disease. *Cerebral Cortex*, **2017**, 27, 4503-4515	5.1	40
91	Regional variation of cerebral blood flow and arterial transit time in the normal and hypoperfused rat brain measured using continuous arterial spin labeling MRI. *Journal of Cerebral Blood Flow and Metabolism*, **2006**, 26, 274-82	7.3	40
90	Acute changes in MRI diffusion, perfusion, T(1), and T(2) in a rat model of oligemia produced by partial occlusion of the middle cerebral artery. *Magnetic Resonance in Medicine*, **2000**, 44, 706-12	4.4	39
89	Volume selection using gradients and selective pulses. *Annals of the New York Academy of Sciences*, **1987**, 508, 376-85	6.5	37
88	Comparative prognostic utilities of early quantitative magnetic resonance imaging spin-spin relaxometry and proton magnetic resonance spectroscopy in neonatal encephalopathy. *Pediatrics*, **2006**, 118, 1467-77	7.4	36
87	Echo-planar imaging of the human fetus in utero. *Magnetic Resonance in Medicine*, **1990**, 13, 314-8	4.4	36
86	Random noise selective excitation pulses. *Magnetic Resonance in Medicine*, **1987**, 5, 93-8	4.4	36
85	Velocity-driven adiabatic fast passage for arterial spin labeling: results from a computer model. *Magnetic Resonance in Medicine*, **2003**, 49, 398-401	4.4	33
84	Cardiac arterial spin labeling using segmented ECG-gated Look-Locker FAIR: variability and repeatability in preclinical studies. *Magnetic Resonance in Medicine*, **2013**, 69, 238-47	4.4	32

83	Zonally magnified EPI in real time by NMR. *Journal of Physics E: Scientific Instruments*, **1988**, 21, 275-280		32
82	Real-time cardiac imaging of adults at video frame rates by magnetic resonance imaging. *Lancet, The*, **1986**, 2, 682	40	32
81	Inversion-recovery echo-planar imaging (IR-EPI) at 0.5 T. *Magnetic Resonance in Medicine*, **1990**, 13, 514-7	4.4	31
80	3D MDEFT imaging of the human brain at 4.7 T with reduced sensitivity to radiofrequency inhomogeneity. *Magnetic Resonance in Medicine*, **2005**, 53, 1452-8	4.4	29
79	Anodal transcranial direct current stimulation increases brain intracellular pH and modulates bioenergetics. *International Journal of Neuropsychopharmacology*, **2013**, 16, 1695-706	5.8	28
78	Cardiac phenotyping in ex vivo murine embryos using microMRI. *NMR in Biomedicine*, **2009**, 22, 857-66	4.4	28
77	Volumar imaging using NMR spin echoes: echo-volumar imaging (EVI) at 0.1 T. *Journal of Physics E: Scientific Instruments*, **1989**, 22, 324-330		28
76	Characterizing the origin of the arterial spin labelling signal in MRI using a multiecho acquisition approach. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 1836-45	7.3	27
75	Structural correlates of active-staining following magnetic resonance microscopy in the mouse brain. *NeuroImage*, **2011**, 56, 974-83	7.9	25
74	Design, construction and evaluation of an anthropomorphic head phantom with realistic susceptibility artifacts. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 202-7	5.6	24
73	Improving whole brain structural MRI at 4.7 Tesla using 4 irregularly shaped receiver coils. *NeuroImage*, **2006**, 32, 1176-84	7.9	23
72	Cerebral tissue water spin-spin relaxation times in human neonates at 2.4 tesla: methodology and the effects of maturation. *Magnetic Resonance Imaging*, **1999**, 17, 1289-95	3.3	23
71	In vivo measurement of the longitudinal relaxation time of arterial blood (T1a) in the mouse using a pulsed arterial spin labeling approach. *Magnetic Resonance in Medicine*, **2006**, 55, 943-7	4.4	22
70	B0 dependence of the on-resonance longitudinal relaxation time in the rotating frame (T1rho) in protein phantoms and rat brain in vivo. *Magnetic Resonance in Medicine*, **2004**, 51, 4-8	4.4	22
69	MR image-guided investigation of regional signal transducers and activators of transcription-1 activation in a rat model of focal cerebral ischemia. *Neuroscience*, **2004**, 127, 333-9	3.9	22
68	Simultaneous noninvasive measurement of CBF and CBV using double-echo FAIR (DEFAIR). *Magnetic Resonance in Medicine*, **2001**, 45, 853-63	4.4	22
67	Spin-echo MRS in humans at high field: LASER localisation using FOCI pulses. *Journal of Magnetic Resonance*, **2005**, 175, 30-43	3	21
66	Technical challenges of functional magnetic resonance imaging. *IEEE Engineering in Medicine and Biology Magazine*, **2000**, 19, 42-54		21

65	Real-time NMR imaging of coronary vessels. *Lancet, The*, **1987**, 2, 964-5	40	21
64	7T-fMRI: Faster temporal resolution yields optimal BOLD sensitivity for functional network imaging specifically at high spatial resolution. *NeuroImage*, **2018**, 164, 214-229	7.9	19
63	Comparative study of the FAIR technique of perfusion quantification with the hydrogen clearance method. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 689-99	7.3	19
62	Atraumatic quantitation of cerebral perfusion in cats by 19F magnetic resonance imaging. *Magnetic Resonance in Medicine*, **1992**, 28, 39-53	4.4	19
61	Diffusion tensor parameters and principal eigenvector coherence: relation to b-value intervals and field strength. *Magnetic Resonance Imaging*, **2013**, 31, 742-7	3.3	18
60	EPI distortion correction from a simultaneously acquired distortion map using TRAIL. *Journal of Magnetic Resonance Imaging*, **2006**, 23, 597-603	5.6	18
59	Correlation between absolute deoxyhaemoglobin [dHb] measured by near infrared spectroscopy (NIRS) and absolute R2Sas determined by magnetic resonance imaging (MRI). *Advances in Experimental Medicine and Biology*, **1997**, 413, 129-37	3.6	18
58	Ultrafast magnetic resonance scanning of the liver with echo-planar imaging. *British Journal of Radiology*, **1990**, 63, 430-7	3.4	17
57	Magnetic resonance proton spectroscopy and diffusion weighted imaging of chick embryo brain in ovo. *Developmental Brain Research*, **2003**, 141, 101-7		16
56	Observation of cerebrospinal fluid flow with echo-planar magnetic resonance imaging. *British Journal of Radiology*, **1991**, 64, 89-97	3.4	16
55	Echo-planar magnetic resonance imaging in abnormal pregnancies. *Lancet, The*, **1989**, 2, 157	40	16
54	3D-multi-echo radial imaging of Na (3D-MERINA) for time-efficient multi-parameter tissue compartment mapping. *Magnetic Resonance in Medicine*, **2018**, 79, 1950-1961	4.4	15
53	TurboFLASH FAIR imaging with optimized inversion and imaging profiles. *Magnetic Resonance in Medicine*, **2004**, 51, 46-54	4.4	15
52	Assessment of magnetic field (4.7 T) induced forces on prosthetic heart valves and annuloplasty rings. *Journal of Magnetic Resonance Imaging*, **2005**, 22, 311-7	5.6	15
51	Multislice cardiac arterial spin labeling using improved myocardial perfusion quantification with simultaneously measured blood pool input function. *Magnetic Resonance in Medicine*, **2013**, 70, 1125-36	4.4	14
50	Understanding and optimizing the amplitude modulated control for multiple-slice continuous arterial spin labeling. *Magnetic Resonance in Medicine*, **2005**, 54, 594-604	4.4	14
49	Measurement of T1 by echo-planar imaging and the construction of computer-generated images. *Physics in Medicine and Biology*, **1986**, 31, 113-24	3.8	14
48	Mapping somatosensory connectivity in adult mice using diffusion MRI tractography and super-resolution track density imaging. *NeuroImage*, **2014**, 102 Pt 2, 381-92	7.9	13

47	Delayed hypothermia prevents decreases in N-acetylaspartate and reduced glutathione in the cerebral cortex of the neonatal pig following transient hypoxia-ischaemia. *Neurochemical Research*, **2002**, 27, 1599-604	4.6	13
46	Rapid simultaneous mapping of T2 and T2* by multiple acquisition of spin and gradient echoes using interleaved echo planar imaging (MASAGE-IEPI). *NeuroImage*, **2002**, 15, 992-1002	7.9	13
45	1H Magnetic Resonance Imaging of Normal Brain Tissue Response to Photodynamic Therapy. *Neurosurgery*, **1991**, 29, 538-543	3.2	12
44	Magnetization transfer contrast (MTC) in flash MR imaging. *Magnetic Resonance Imaging*, **1991**, 9, 889-93	3.3	12
43	Rapid T2* mapping using interleaved echo planar imaging. *Magnetic Resonance in Medicine*, **1999**, 41, 368-74	4.4	11
42	Reperfusion in a gerbil model of forebrain ischemia using serial magnetic resonance FAIR perfusion imaging. *Stroke*, **1999**, 30, 1263-70	6.7	11
41	Magnetic resonance imaging of neonatal encephalopathy at 4.7 tesla: initial experiences. *Pediatrics*, **2006**, 118, e1812-21	7.4	10
40	Greater hypoxia-induced cell death in prenatal brain after bacterial-endotoxin pretreatment is not because of enhanced cerebral energy depletion: a chicken embryo model of the intrapartum response to hypoxia and infection. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 948-60	7.3	9
39	3D DT-MRI using a reduced-FOV approach and saturation pulses. *Magnetic Resonance in Medicine*, **2004**, 51, 853-7	4.4	9
38	Method for spatially interleaving two images to halve EPI readout times: two reduced acquisitions interleaved (TRAIL). *Magnetic Resonance in Medicine*, **2004**, 51, 1212-22	4.4	9
37	Using the robust principal component analysis algorithm to remove RF spike artifacts from MR images. *Magnetic Resonance in Medicine*, **2016**, 75, 2517-25	4.4	9
36	Translational and rotational forces on heart valve prostheses subjected ex vivo to a 4.7-T MR system. *Journal of Magnetic Resonance Imaging*, **2002**, 16, 653-9	5.6	8
35	Quantifying the area-at-risk of myocardial infarction in-vivo using arterial spin labeling cardiac magnetic resonance. *Scientific Reports*, **2017**, 7, 2271	4.9	7
34	Monitoring systemic amyloidosis using MRI measurements of the extracellular volume fraction. *Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis*, **2013**, 20, 93-8	2.7	7
33	Selective averaging for the diffusion tensor measurement. *Magnetic Resonance Imaging*, **2005**, 23, 585-90	3.3	6
32	Gradual changes in the apparent diffusion coefficient of water in selectively vulnerable brain regions following brief ischemia in the gerbil. *Magnetic Resonance in Medicine*, **2005**, 53, 593-600	4.4	6
31	Common SENSE (sensitivity encoding using hardware common to all MR scanners): a new method for single-shot segmented echo planar imaging. *Magnetic Resonance in Medicine*, **2005**, 54, 402-10	4.4	6
30	Preliminary observations of transverse relaxation rates obtained at 3 tesla from the substantia nigra of adult normal human brain. *NMR in Biomedicine*, **1995**, 8, 25-7	4.4	6

29	Human Whole Body Line Scan Imaging by Nuclear Magnetic Resonance. *IEEE Transactions on Nuclear Science*, **1979**, 26, 2817-2820	1.7	6
28	Reducing ghosting due to k-space discontinuities in fast spin echo (FSE) imaging by a new combination of k-space ordering and parallel imaging. *Journal of Magnetic Resonance*, **2009**, 200, 119-25	3	4
27	Subpixel enhancement of nonuniform tissue (SPENT): a novel MRI technique for quantifying BMD. *Journal of Bone and Mineral Research*, **2009**, 24, 324-33	6.3	3
26	Micro-MRI phenotyping of a novel double-knockout mouse model of congenital heart disease. *Journal of Cardiovascular Magnetic Resonance*, **2010**, 12, P1	6.9	3
25	236 Non-Invasive Cerebral Temperature Mapping by Proton Spectroscopic Imaging. *Pediatric Research*, **2004**, 56, 504-504	3.2	3
24	A low flip angle spin-echo technique for producing rapid diffusion weighted MR images. *Magnetic Resonance Imaging*, **1994**, 12, 727-31	3.3	3
23	Active detune switch for complete sensitive-volume localization in in Vivo spectroscopy using multiple rf coils and depth pulses. *Journal of Magnetic Resonance*, **1984**, 60, 473-478		3
22	Feasibility of identifying the ideal locations for motor intention decoding using unimodal and multimodal classification at 7T-fMRI. *Scientific Reports*, **2018**, 8, 15556	4.9	3
21	Diffusion microscopic MRI of the mouse embryo: Protocol and practical implementation in the splotch mouse model. *Magnetic Resonance in Medicine*, **2015**, 73, 731-9	4.4	2
20	Equilibrium contrast CMR for the detection of amyloidosis in mice. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13,	6.9	2
19	NMR investigation of the nature of water in disposable incontinence pads containing superabsorbent polymers and fluffed wood pulp. *Colloid and Polymer Science*, **2003**, 281, 1127-1135	2.4	2
18	Comprehensive regulations concerning exposure of employees to electromagnetic fields. *Journal of Magnetic Resonance Imaging*, **1999**, 9, 630	5.6	2
17	Improved cardiac arterial spin labelling in the mouse heart by optimisation of acquisition and analysis. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13,	6.9	1
16	Doubling the resolution of echo-planar brain imaging by acquisition of two k-space lines per gradient reversal using TRAIL. *NMR in Biomedicine*, **2008**, 21, 79-88	4.4	1
15	118 Delayed Hypoyhermia is Neuroprotective in Moderate, but not Severe, Perinatal Hypoxic-Ischaemic Brain Injury. *Pediatric Research*, **2004**, 56, 484-484	3.2	1
14	269 Secondary Energy Failure in a Model of Hypoxic Ischaemic Brain Injury Assessed by Serial Phosphorous Magnetic Resonance Spectroscopy, Water Apparent Diffusion and Electrophysiology: A Pilot Study. *Pediatric Research*, **2004**, 56, 509-509	3.2	1
13	Localized 4.7 T Proton Magnetic Resonance Spectroscopy in Neonatal Encephalopathy: Implementation, Safety and Preliminary Interpretation of Results. *Imaging Decisions (Berlin, Germany)*, **2005**, 9, 31-41		1
12	MRI safety limits: is MRI safe or not?. *British Journal of Radiology*, **2000**, 73, 1-2	3.4	1

List of Publications

11	The Investigation of Structure and Metabolism by In Vivo NMR **1985**, 519-522		1
10	Ultra-high-field MRI using composite RF (STEP) pulses. *NMR in Biomedicine*, **2021**, 34, e4445	4.4	1
9	NMR imaging **1980**, 453-462		1
8	Volume Selection Strategies for In Vivo Biological Spectroscopy **1986**, 105-117		1
7	Relative assessment of brain iron levels using MRI at 3 tesla. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **1994**, 2, 449-450	2.8	0
6	85 Initial Experiences of Magnetic Resonance Imaging and Spectroscopy of the Newborn Brain At 4.7 Tesla. *Pediatric Research*, **2005**, 58, 369-369	3.2	
5	The regulation of MR examinations in Germany: a threat to scientific and technical progress for MR in Europe?. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2000**, 10, 4-5	2.8	
4	Image Guided Volume Selective Spectroscopy: A Comparison of Techniques for In-Vivo 31P NMR Spectroscopy of Human Brain. *Nmr*, **1992**, 103-117		
3	Snapshot Magnetic Resonance Imaging In Adults **1988**, 377-377		
2	Changes in the Biophysical Environment of Water Following Focal Brain Ischemia in the Rat **1994**, 36-48		
1	Ultrahigh field brain magnetic resonance imaging using semiadiabatic radiofrequency pulses.. *NMR in Biomedicine*, **2021**, e4672	4.4	