

Nikolaus Weiskopf

List of Publications by Citations

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201
papers

15,212
citations

68
h-index

121
g-index

216
ext. papers

18,498
ext. citations

6.7
avg, IF

6.58
L-index

#	Paper	IF	Citations
201	When fear is near: threat imminence elicits prefrontal-periaqueductal gray shifts in humans. <i>Science</i> , 2007 , 317, 1079-83	33.3	639
200	Closed-loop brain training: the science of neurofeedback. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 86-100	13.5	485
199	A comparison between voxel-based cortical thickness and voxel-based morphometry in normal aging. <i>NeuroImage</i> , 2009 , 48, 371-80	7.9	420
198	Context-dependent human extinction memory is mediated by a ventromedial prefrontal and hippocampal network. <i>Journal of Neuroscience</i> , 2006 , 26, 9503-11	6.6	402
197	Evidence of mirror neurons in human inferior frontal gyrus. <i>Journal of Neuroscience</i> , 2009 , 29, 10153-9	6.6	401
196	Optimal EPI parameters for reduction of susceptibility-induced BOLD sensitivity losses: a whole-brain analysis at 3 T and 1.5 T. <i>NeuroImage</i> , 2006 , 33, 493-504	7.9	363
195	Comparing hemodynamic models with DCM. <i>NeuroImage</i> , 2007 , 38, 387-401	7.9	346
194	Physiological self-regulation of regional brain activity using real-time functional magnetic resonance imaging (fMRI): methodology and exemplary data. <i>NeuroImage</i> , 2003 , 19, 577-86	7.9	323
193	Regulation of emotional responses elicited by threat-related stimuli. <i>Human Brain Mapping</i> , 2007 , 28, 409-23	5.9	319
192	Principles of a brain-computer interface (BCI) based on real-time functional magnetic resonance imaging (fMRI). <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 966-70	5	312
191	Real-time fMRI neurofeedback: progress and challenges. <i>NeuroImage</i> , 2013 , 76, 386-99	7.9	305
190	Quantitative multi-parameter mapping of R1, PD(*), MT, and R2(*) at 3T: a multi-center validation. <i>Frontiers in Neuroscience</i> , 2013 , 7, 95	5.1	301
189	Regulation of anterior insular cortex activity using real-time fMRI. <i>NeuroImage</i> , 2007 , 35, 1238-46	7.9	275
188	Threatening a rubber hand that you feel is yours elicits a cortical anxiety response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9828-33	11.5	262
187	Adolescence is associated with genomically patterned consolidation of the hubs of the human brain connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9105-10	11.5	255
186	Distinct causal influences of parietal versus frontal areas on human visual cortex: evidence from concurrent TMS-fMRI. <i>Cerebral Cortex</i> , 2008 , 18, 817-27	5.1	241
185	Anterolateral prefrontal cortex mediates the analgesic effect of expected and perceived control over pain. <i>Journal of Neuroscience</i> , 2006 , 26, 11501-9	6.6	225

184	Real-time fMRI and its application to neurofeedback. <i>NeuroImage</i> , 2012 , 62, 682-92	7.9	224
183	Using high-resolution quantitative mapping of R1 as an index of cortical myelination. <i>NeuroImage</i> , 2014 , 93 Pt 2, 176-88	7.9	220
182	Regional specificity of MRI contrast parameter changes in normal ageing revealed by voxel-based quantification (VBQ). <i>NeuroImage</i> , 2011 , 55, 1423-34	7.9	204
181	Flow of affective information between communicating brains. <i>NeuroImage</i> , 2011 , 54, 439-46	7.9	203
180	Real-time functional magnetic resonance imaging: methods and applications. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 989-1003	3.3	202
179	Disability, atrophy and cortical reorganization following spinal cord injury. <i>Brain</i> , 2011 , 134, 1610-22	11.2	196
178	Self-regulation of local brain activity using real-time functional magnetic resonance imaging (fMRI). <i>Journal of Physiology (Paris)</i> , 2004 , 98, 357-73		196
177	Mapping the human cortical surface by combining quantitative T(1) with retinotopy. <i>Cerebral Cortex</i> , 2013 , 23, 2261-8	5.1	189
176	Self-regulation of regional cortical activity using real-time fMRI: the right inferior frontal gyrus and linguistic processing. <i>Human Brain Mapping</i> , 2009 , 30, 1605-14	5.9	183
175	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2014 , 35, 1862-72	5.6	182
174	MRI investigation of the sensorimotor cortex and the corticospinal tract after acute spinal cord injury: a prospective longitudinal study. <i>Lancet Neurology</i> , 2013 , 12, 873-881	24.1	178
173	Decoding neuronal ensembles in the human hippocampus. <i>Current Biology</i> , 2009 , 19, 546-54	6.3	168
172	Decoding individual episodic memory traces in the human hippocampus. <i>Current Biology</i> , 2010 , 20, 544-76.3		168
171	In vivo functional and myeloarchitectonic mapping of human primary auditory areas. <i>Journal of Neuroscience</i> , 2012 , 32, 16095-105	6.6	164
170	The impact of physiological noise correction on fMRI at 7 T. <i>NeuroImage</i> , 2011 , 57, 101-112	7.9	159
169	Mapping causal interregional influences with concurrent TMS-fMRI. <i>Experimental Brain Research</i> , 2008 , 191, 383-402	2.3	159
168	Detecting representations of recent and remote autobiographical memories in vmPFC and hippocampus. <i>Journal of Neuroscience</i> , 2012 , 32, 16982-91	6.6	154
167	The role of contralesional dorsal premotor cortex after stroke as studied with concurrent TMS-fMRI. <i>Journal of Neuroscience</i> , 2010 , 30, 11926-37	6.6	148

166	Voxel-based morphometry reveals reduced grey matter volume in the temporal cortex of developmental prosopagnosics. <i>Brain</i> , 2009 , 132, 3443-55	11.2	148
165	Dorsal premotor cortex exerts state-dependent causal influences on activity in contralateral primary motor and dorsal premotor cortex. <i>Cerebral Cortex</i> , 2008 , 18, 1281-91	5.1	147
164	Improved segmentation of deep brain grey matter structures using magnetization transfer (MT) parameter maps. <i>NeuroImage</i> , 2009 , 47, 194-8	7.9	143
163	Optimized EPI for fMRI studies of the orbitofrontal cortex: compensation of susceptibility-induced gradients in the readout direction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007 , 20, 39-49	2.8	131
162	Unified segmentation based correction of R1 brain maps for RF transmit field inhomogeneities (UNICORT). <i>NeuroImage</i> , 2011 , 54, 2116-24	7.9	121
161	Deep and superficial amygdala nuclei projections revealed in vivo by probabilistic tractography. <i>Journal of Neuroscience</i> , 2011 , 31, 618-23	6.6	115
160	Causal evidence for frontal involvement in memory target maintenance by posterior brain areas during distracter interference of visual working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17510-5	11.5	115
159	Advances in MRI-based computational neuroanatomy: from morphometry to in-vivo histology. <i>Current Opinion in Neurology</i> , 2015 , 28, 313-22	7.1	112
158	Connectivity-based neurofeedback: dynamic causal modeling for real-time fMRI. <i>NeuroImage</i> , 2013 , 81, 422-430	7.9	111
157	Apparent thinning of human visual cortex during childhood is associated with myelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20750-20759	11.5	110
156	Single-shot compensation of image distortions and BOLD contrast optimization using multi-echo EPI for real-time fMRI. <i>NeuroImage</i> , 2005 , 24, 1068-79	7.9	110
155	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. <i>Brain</i> , 2019 , 142, 2558-2571	11.2	109
154	Optimization and validation of methods for mapping of the radiofrequency transmit field at 3T. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 229-38	4.4	109
153	Neuronal mechanisms underlying control of a brain-computer interface. <i>European Journal of Neuroscience</i> , 2005 , 21, 3169-81	3.5	109
152	Hemispheric differences in frontal and parietal influences on human occipital cortex: direct confirmation with concurrent TMS-fMRI. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 1146-61	3.1	105
151	Benign partial epilepsy in childhood: selective cognitive deficits are related to the location of focal spikes determined by combined EEG/MEG. <i>Epilepsia</i> , 2005 , 46, 1661-7	6.4	105
150	Evaluation of 2D multiband EPI imaging for high-resolution, whole-brain, task-based fMRI studies at 3T: Sensitivity and slice leakage artifacts. <i>NeuroImage</i> , 2016 , 124, 32-42	7.9	104
149	Mismatch negativity responses in schizophrenia: a combined fMRI and whole-head MEG study. <i>American Journal of Psychiatry</i> , 2004 , 161, 294-304	11.9	95

148	The habenula encodes negative motivational value associated with primary punishment in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11858-63	11.5	93
147	Improving visual perception through neurofeedback. <i>Journal of Neuroscience</i> , 2012 , 32, 17830-41	6.6	92
146	Interhemispheric effect of parietal TMS on somatosensory response confirmed directly with concurrent TMS-fMRI. <i>Journal of Neuroscience</i> , 2008 , 28, 13202-8	6.6	90
145	The Kuleshov Effect: the influence of contextual framing on emotional attributions. <i>Social Cognitive and Affective Neuroscience</i> , 2006 , 1, 95-106	4	90
144	Robust and fast whole brain mapping of the RF transmit field B1 at 7T. <i>PLoS ONE</i> , 2012 , 7, e32379	3.7	84
143	Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016 , 125, 36-44	7.9	79
142	Manipulating motor performance and memory through real-time fMRI neurofeedback. <i>Biological Psychology</i> , 2015 , 108, 85-97	3.2	76
141	Dissociable roles of human inferior frontal gyrus during action execution and observation. <i>NeuroImage</i> , 2012 , 60, 1671-7	7.9	75
140	Dynamic causal modeling: a generative model of slice timing in fMRI. <i>NeuroImage</i> , 2007 , 34, 1487-96	7.9	75
139	Mismatch responses to randomized gradient switching noise as reflected by fMRI and whole-head magnetoencephalography. <i>Human Brain Mapping</i> , 2002 , 16, 190-5	5.9	75
138	hMRI - A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019 , 194, 191-210	7.9	73
137	Choking on the money: reward-based performance decrements are associated with midbrain activity. <i>Psychological Science</i> , 2009 , 20, 955-62	7.9	71
136	The human amygdala is sensitive to the valence of pictures and sounds irrespective of arousal: an fMRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2008 , 3, 233-43	4	70
135	Multi-voxel pattern analysis in human hippocampal subfields. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 290	3.3	69
134	Whole-Brain In-vivo Measurements of the Axonal G-Ratio in a Group of 37 Healthy Volunteers. <i>Frontiers in Neuroscience</i> , 2015 , 9, 441	5.1	67
133	A general linear relaxometry model of R1 using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1309-14	4.4	66
132	Brain tissue properties differentiate between motor and limbic basal ganglia circuits. <i>Human Brain Mapping</i> , 2014 , 35, 5083-92	5.9	63
131	Progressive neurodegeneration following spinal cord injury: Implications for clinical trials. <i>Neurology</i> , 2018 , 90, e1257-e1266	6.5	61

130	High-resolution functional MRI at 3 T: 3D/2D echo-planar imaging with optimized physiological noise correction. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1657-64	4.4	61
129	Locus coeruleus integrity in old age is selectively related to memories linked with salient negative events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2228-2233	11.5	59
128	Decoding representations of scenes in the medial temporal lobes. <i>Hippocampus</i> , 2012 , 22, 1143-53	3.5	58
127	An evaluation of prospective motion correction (PMC) for high resolution quantitative MRI. <i>Frontiers in Neuroscience</i> , 2015 , 9, 97	5.1	58
126	Traumatic and nontraumatic spinal cord injury: pathological insights from neuroimaging. <i>Nature Reviews Neurology</i> , 2019 , 15, 718-731	15	57
125	Tracking sensory system atrophy and outcome prediction in spinal cord injury. <i>Annals of Neurology</i> , 2015 , 78, 751-61	9.4	57
124	fMRI Brain-Computer Interfaces. <i>IEEE Signal Processing Magazine</i> , 2008 , 25, 95-106	9.4	57
123	MRI in traumatic spinal cord injury: from clinical assessment to neuroimaging biomarkers. <i>Lancet Neurology</i> , 2019 , 18, 1123-1135	24.1	56
122	A stable sparse fear memory trace in human amygdala. <i>Journal of Neuroscience</i> , 2011 , 31, 9383-9	6.6	56
121	Efficient fat suppression by slice-selection gradient reversal in twice-refocused diffusion encoding. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1256-60	4.4	56
120	Microstructural imaging of human neocortex in vivo. <i>NeuroImage</i> , 2018 , 182, 184-206	7.9	55
119	An EEG-driven brain-computer interface combined with functional magnetic resonance imaging (fMRI). <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 971-4	5	54
118	Prospective motion correction of 3D echo-planar imaging data for functional MRI using optical tracking. <i>NeuroImage</i> , 2015 , 113, 1-12	7.9	53
117	Axonal integrity predicts cortical reorganisation following cervical injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012 , 83, 629-37	5.5	53
116	Developing 3D microscopy with CLARITY on human brain tissue: Towards a tool for informing and validating MRI-based histology. <i>NeuroImage</i> , 2018 , 182, 417-428	7.9	51
115	In-vivo magnetic resonance imaging (MRI) of laminae in the human cortex. <i>NeuroImage</i> , 2019 , 197, 707-715	7.5	49
114	Flexible head-casts for high spatial precision MEG. <i>Journal of Neuroscience Methods</i> , 2017 , 276, 38-45	3	48
113	Degeneration of the injured cervical cord is associated with remote changes in corticospinal tract integrity and upper limb impairment. <i>PLoS ONE</i> , 2012 , 7, e51729	3.7	48

112	Quantitative magnetization transfer in in vivo healthy human skeletal muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1739-48	4.4	48
111	The impact of post-processing on spinal cord diffusion tensor imaging. <i>NeuroImage</i> , 2013 , 70, 377-85	7.9	47
110	Quantitative MRI provides markers of intra-, inter-regional, and age-related differences in young adult cortical microstructure. <i>NeuroImage</i> , 2018 , 182, 429-440	7.9	45
109	Estimating the apparent transverse relaxation time (R2(*)) from images with different contrasts (ESTATICS) reduces motion artifacts. <i>Frontiers in Neuroscience</i> , 2014 , 8, 278	5.1	39
108	Iron Level and Myelin Content in the Ventral Striatum Predict Memory Performance in the Aging Brain. <i>Journal of Neuroscience</i> , 2016 , 36, 3552-8	6.6	39
107	Correction of vibration artifacts in DTI using phase-encoding reversal (COVIPER). <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 882-9	4.4	38
106	Image artifacts in concurrent transcranial magnetic stimulation (TMS) and fMRI caused by leakage currents: modeling and compensation. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 1211-7	5.6	37
105	Motor affordance and its role for visual working memory: evidence from fMRI studies. <i>Experimental Psychology</i> , 2004 , 51, 258-69	1.5	37
104	Rapid radiofrequency field mapping in vivo using single-shot STEAM MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 739-43	4.4	36
103	Motor phenotype and magnetic resonance measures of basal ganglia iron levels in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2013 , 19, 1136-42	3.6	34
102	When the Brain Takes 'BOLD' Steps: Real-Time fMRI Neurofeedback Can Further Enhance the Ability to Gradually Self-regulate Regional Brain Activation. <i>Neuroscience</i> , 2018 , 378, 71-88	3.9	33
101	NODDI-DTI: Estimating Neurite Orientation and Dispersion Parameters from a Diffusion Tensor in Healthy White Matter. <i>Frontiers in Neuroscience</i> , 2017 , 11, 720	5.1	33
100	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016 , 139, 1855-61	11.2	32
99	A method for improving the performance of gradient systems for diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 763-8	4.4	32
98	Voxel-based analysis of grey and white matter degeneration in cervical spondylotic myelopathy. <i>Scientific Reports</i> , 2016 , 6, 24636	4.9	31
97	A novel coil array for combined TMS/fMRI experiments at 3 T. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1492-501	4.4	29
96	The quest for the best: The impact of different EPI sequences on the sensitivity of random effect fMRI group analyses. <i>NeuroImage</i> , 2016 , 126, 49-59	7.9	29
95	The effect of local perturbation fields on human DTI: characterisation, measurement and correction. <i>NeuroImage</i> , 2012 , 60, 562-70	7.9	29

94	Direct evidence for attention-dependent influences of the frontal eye-fields on feature-responsive visual cortex. <i>Cerebral Cortex</i> , 2014 , 24, 2815-21	5.1	28
93	Using high angular resolution diffusion imaging data to discriminate cortical regions. <i>PLoS ONE</i> , 2013 , 8, e63842	3.7	28
92	Method for simultaneous voxel-based morphometry of the brain and cervical spinal cord area measurements using 3D-MDEFT. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1242-7	5.6	28
91	Functional Sensitivity of 2D Simultaneous Multi-Slice Echo-Planar Imaging: Effects of Acceleration on g-factor and Physiological Noise. <i>Frontiers in Neuroscience</i> , 2017 , 11, 158	5.1	27
90	Retrospective correction of physiological noise in DTI using an extended tensor model and peripheral measurements. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 358-69	4.4	26
89	Quantitative MRI of rostral spinal cord and brain regions is predictive of functional recovery in acute spinal cord injury. <i>NeuroImage: Clinical</i> , 2018 , 20, 556-563	5.3	25
88	Stimulating neural plasticity with real-time fMRI neurofeedback in Huntington's disease: A proof of concept study. <i>Human Brain Mapping</i> , 2018 , 39, 1339-1353	5.9	24
87	Cognitive enhancement through real-time fMRI neurofeedback. <i>Current Opinion in Behavioral Sciences</i> , 2015 , 4, 122-127	4	24
86	Identification of signal bias in the variable flip angle method by linear display of the algebraic Ernst equation. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 669-77	4.4	24
85	Vascular autoresizing of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016 , 124, 794-805	7.9	23
84	Superficial white matter imaging: Contrast mechanisms and whole-brain in vivo mapping. <i>Science Advances</i> , 2020 , 6,	14.3	23
83	Real-time functional magnetic imaging-brain-computer interface and virtual reality promising tools for the treatment of pedophilia. <i>Progress in Brain Research</i> , 2011 , 192, 263-72	2.9	22
82	Quantitative magnetic resonance imaging of brain anatomy and in vivo histology. <i>Nature Reviews Physics</i> , 2021 , 3, 570-588	23.6	22
81	Dorsal and ventral horn atrophy is associated with clinical outcome after spinal cord injury. <i>Neurology</i> , 2018 , 90, e1510-e1522	6.5	21
80	Connectivity changes underlying neurofeedback training of visual cortex activity. <i>PLoS ONE</i> , 2014 , 9, e91090	3.7	21
79	Mapping Short Association Fibers in the Early Cortical Visual Processing Stream Using In Vivo Diffusion Tractography. <i>Cerebral Cortex</i> , 2020 , 30, 4496-4514	5.1	21
78	Structure predicts function: combining non-invasive electrophysiology with in-vivo histology. <i>NeuroImage</i> , 2015 , 108, 377-85	7.9	19
77	Synthetic quantitative MRI through relaxometry modelling. <i>NMR in Biomedicine</i> , 2016 , 29, 1729-1738	4.4	18

76	Infrared oculography-validation of a new method to monitor startle eyeblink amplitudes during fMRI. <i>NeuroImage</i> , 2004 , 22, 767-70	7.9	18
75	High-resolution diffusion kurtosis imaging at 3T enabled by advanced post-processing. <i>Frontiers in Neuroscience</i> , 2014 , 8, 427	5.1	16
74	Improved shimming for fMRI specifically optimizing the local BOLD sensitivity. <i>NeuroImage</i> , 2010 , 49, 327-36	7.9	16
73	Hyperelastic Susceptibility Artifact Correction of DTI in SPM. <i>Informatik Aktuell</i> , 2013 , 344-349	0.3	15
72	Multiparameter mapping of relaxation (R1, R2*), proton density and magnetization transfer saturation at 3 T: A multicenter dual-vendor reproducibility and repeatability study. <i>Human Brain Mapping</i> , 2020 , 41, 4232-4247	5.9	15
71	Correction of inter-scan motion artifacts in quantitative R1 mapping by accounting for receive coil sensitivity effects. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1478-1485	4.4	15
70	In vivo evidence of remote neural degeneration in the lumbar enlargement after cervical injury. <i>Neurology</i> , 2019 , 92, e1367-e1377	6.5	14
69	Phase informed model for motion and susceptibility. <i>Human Brain Mapping</i> , 2013 , 34, 3086-100	5.9	14
68	Graph-partitioned spatial priors for functional magnetic resonance images. <i>NeuroImage</i> , 2008 , 43, 694-707	7.9	13
67	Can we predict real-time fMRI neurofeedback learning success from pretraining brain activity?. <i>Human Brain Mapping</i> , 2020 , 41, 3839-3854	5.9	13
66	fMRI protocol optimization for simultaneously studying small subcortical and cortical areas at 7T. <i>NeuroImage</i> , 2020 , 219, 116992	7.9	12
65	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019 , 25, 104132	1.2	12
64	Processing of inconsistent emotional information: an fMRI study. <i>Experimental Brain Research</i> , 2008 , 186, 401-7	2.3	12
63	The variability of MR axon radii estimates in the human white matter. <i>Human Brain Mapping</i> , 2021 , 42, 2201-2213	5.9	11
62	Generic acquisition protocol for quantitative MRI of the spinal cord. <i>Nature Protocols</i> , 2021 , 16, 4611-4638	8.8	11
61	A comprehensive approach for correcting voxel-wise b-value errors in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2173-2184	4.4	10
60	Local striatal reward signals can be predicted from corticostriatal connectivity. <i>NeuroImage</i> , 2017 , 159, 9-17	7.9	10
59	The traveling heads 2.0: Multicenter reproducibility of quantitative imaging methods at 7 Tesla. <i>NeuroImage</i> , 2021 , 232, 117910	7.9	10

58	POAS4SPM: a toolbox for SPM to denoise diffusion MRI data. <i>Neuroinformatics</i> , 2015 , 13, 19-29	3.2	9
57	Modelling temporal stability of EPI time series using magnitude images acquired with multi-channel receiver coils. <i>PLoS ONE</i> , 2012 , 7, e52075	3.7	9
56	Real-time decoding of covert attention in higher-order visual areas. <i>NeuroImage</i> , 2018 , 169, 462-472	7.9	8
55	Midbrain fMRI: Applications, Limitations and Challenges. <i>Biological Magnetic Resonance</i> , 2015 , 581-609	0.5	8
54	Microstructural parameter estimation in vivo using diffusion MRI and structured prior information. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1787-96	4.4	8
53	Flexible proton density (PD) mapping using multi-contrast variable flip angle (VFA) data. <i>NeuroImage</i> , 2019 , 186, 464-475	7.9	8
52	7 Tesla MRI Followed by Histological 3D Reconstructions in Whole-Brain Specimens. <i>Frontiers in Neuroanatomy</i> , 2020 , 14, 536838	3.6	7
51	Apparent thinning of visual cortex during childhood is associated with myelination, not pruning		7
50	Maximising BOLD sensitivity through automated EPI protocol optimisation. <i>NeuroImage</i> , 2019 , 189, 159-170	7.9	7
49	Melody Processing Characterizes Functional Neuroanatomy in the Aging Brain. <i>Frontiers in Neuroscience</i> , 2018 , 12, 815	5.1	7
48	Optimizing Data for Modeling Neuronal Responses. <i>Frontiers in Neuroscience</i> , 2018 , 12, 986	5.1	6
47	Brain iron content in systemic iron overload: A beta-thalassemia quantitative MRI study. <i>NeuroImage: Clinical</i> , 2019 , 24, 102058	5.3	6
46	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. <i>Scientific Data</i> , 2021 , 8, 219	8.2	6
45	Safety of Tattoos in Persons Undergoing MRI. <i>New England Journal of Medicine</i> , 2019 , 380, 495-496	59.2	5
44	Acquisition of sensorimotor fMRI under general anaesthesia: Assessment of feasibility, the BOLD response and clinical utility. <i>NeuroImage: Clinical</i> , 2019 , 23, 101923	5.3	5
43	Biophysically motivated efficient estimation of the spatially isotropic component from a single gradient-recalled echo measurement. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1804-1811	4.4	5
42	Author response: Progressive neurodegeneration following spinal cord injury: Implications for clinical trials. <i>Neurology</i> , 2018 , 91, 985	6.5	5
41	Relating quantitative 7T MRI across cortical depths to cytoarchitectonics, gene expression and connectomics. <i>Human Brain Mapping</i> , 2021 , 42, 4996-5009	5.9	5

40	Measuring the iron content of dopaminergic neurons in substantia nigra with MRI relaxometry. <i>NeuroImage</i> , 2021 , 239, 118255	7.9	5
39	Physiological basis of vascular autocalibration (VasA): Comparison to hypercapnia calibration methods. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1168-1173	4.4	4
38	Objective Bayesian fMRI analysis-a pilot study in different clinical environments. <i>Frontiers in Neuroscience</i> , 2015 , 9, 168	5.1	4
37	Activity or Connectivity? Evaluating neurofeedback training in Huntington's disease		4
36	Activity or connectivity? A randomized controlled feasibility study evaluating neurofeedback training in Huntington's disease. <i>Brain Communications</i> , 2020 , 2, fcaa049	4.5	4
35	A group-level comparison of volumetric and combined volumetric-surface normalization for whole brain analyses of myelin and iron maps. <i>Magnetic Resonance Imaging</i> , 2018 , 54, 225-240	3.3	4
34	Longitudinal changes of spinal cord grey and white matter following spinal cord injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021 , 92, 1222-1230	5.5	4
33	Orthogonalizing crusher and diffusion-encoding gradients to suppress undesired echo pathways in the twice-refocused spin echo diffusion sequence. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 506-15	4.4	3
32	Can we predict real-time fMRI neurofeedback learning success from pre-training brain activity?		3
31	Extrapyramidal plasticity predicts recovery after spinal cord injury. <i>Scientific Reports</i> , 2020 , 10, 14102	4.9	3
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