

Heidi Johansen-Berg

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

40,843
citations

88
h-index

202
g-index

247
ext. papers

47,157
ext. citations

6.8
avg, IF

7.25
L-index

#	Paper	IF	Citations
218	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
217	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
216	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
215	Plasticity in gray and white: neuroimaging changes in brain structure during learning. <i>Nature Neuroscience</i> , 2012 , 15, 528-36	25.5	1047
214	Training induces changes in white-matter architecture. <i>Nature Neuroscience</i> , 2009 , 12, 1370-1	25.5	1040
213	Function in the human connectome: task-fMRI and individual differences in behavior. <i>NeuroImage</i> , 2013 , 80, 169-89	7.9	779
212	Connectivity-based parcellation of human cingulate cortex and its relation to functional specialization. <i>Journal of Neuroscience</i> , 2009 , 29, 1175-90	6.6	635
211	Polarity-sensitive modulation of cortical neurotransmitters by transcranial stimulation. <i>Journal of Neuroscience</i> , 2009 , 29, 5202-6	6.6	630
210	The role of ipsilateral premotor cortex in hand movement after stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 14518-23	11.5	628
209	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
208	Changes in connectivity profiles define functionally distinct regions in human medial frontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13335-40	11.5	564
207	Tools of the trade: psychophysiological interactions and functional connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 604-9	4	529
206	Distinct and overlapping functional zones in the cerebellum defined by resting state functional connectivity. <i>Cerebral Cortex</i> , 2010 , 20, 953-65	5.1	528
205	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
204	Functional-anatomical validation and individual variation of diffusion tractography-based segmentation of the human thalamus. <i>Cerebral Cortex</i> , 2005 , 15, 31-9	5.1	459
203	Correlation between motor improvements and altered fMRI activity after rehabilitative therapy. <i>Brain</i> , 2002 , 125, 2731-42	11.2	456
202	Tractography: where do we go from here?. <i>Brain Connectivity</i> , 2011 , 1, 169-83	2.7	429

201	Diffusion-weighted imaging tractography-based parcellation of the human parietal cortex and comparison with human and macaque resting-state functional connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 4087-100	6.6	394
200	The role of GABA in human motor learning. <i>Current Biology</i> , 2011 , 21, 480-4	6.3	372
199	Quantitative investigation of connections of the prefrontal cortex in the human and macaque using probabilistic diffusion tractography. <i>Journal of Neuroscience</i> , 2005 , 25, 8854-66	6.6	340
198	Age-related changes in grey and white matter structure throughout adulthood. <i>NeuroImage</i> , 2010 , 51, 943-51	7.9	336
197	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011 , 49, 800-804	3.2	311
196	Diffusion MRI at 25: exploring brain tissue structure and function. <i>NeuroImage</i> , 2012 , 61, 324-41	7.9	305
195	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010 , 49, 94-103	7.9	302
194	Diffusion-based tractography in neurological disorders: concepts, applications, and future developments. <i>Lancet Neurology</i> , 2008 , 7, 715-27	24.1	300
193	Motor skill learning induces changes in white matter microstructure and myelination. <i>Journal of Neuroscience</i> , 2013 , 33, 19499-503	6.6	276
192	Diffusion-weighted imaging tractography-based parcellation of the human lateral premotor cortex identifies dorsal and ventral subregions with anatomical and functional specializations. <i>Journal of Neuroscience</i> , 2007 , 27, 10259-69	6.6	275
191	Relationship between physiological measures of excitability and levels of glutamate and GABA in the human motor cortex. <i>Journal of Physiology</i> , 2011 , 589, 5845-55	3.9	250
190	Using diffusion imaging to study human connective anatomy. <i>Annual Review of Neuroscience</i> , 2009 , 32, 75-94	17	248
189	Functionally specific reorganization in human premotor cortex. <i>Neuron</i> , 2007 , 54, 479-90	13.9	242
188	Consensus paper: combining transcranial stimulation with neuroimaging. <i>Brain Stimulation</i> , 2009 , 2, 58-80	1	239
187	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008 , 39, 52-61	7.9	238
186	The evolution of prefrontal inputs to the cortico-pontine system: diffusion imaging evidence from Macaque monkeys and humans. <i>Cerebral Cortex</i> , 2006 , 16, 811-8	5.1	236
185	Ventral striatum/nucleus accumbens activation to smoking-related pictorial cues in smokers and nonsmokers: a functional magnetic resonance imaging study. <i>Biological Psychiatry</i> , 2005 , 58, 488-94	7.9	226
184	Between session reproducibility and between subject variability of diffusion MR and tractography measures. <i>NeuroImage</i> , 2006 , 33, 867-77	7.9	219

183	Phantom pain is associated with preserved structure and function in the former hand area. <i>Nature Communications</i> , 2013 , 4, 1570	17.4	217
182	Response-selection-related parietal activation during number comparison. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1536-51	3.1	203
181	Neurochemical effects of theta burst stimulation as assessed by magnetic resonance spectroscopy. <i>Journal of Neurophysiology</i> , 2009 , 101, 2872-7	3.2	198
180	Mutations in BMP4 cause eye, brain, and digit developmental anomalies: overlap between the BMP4 and hedgehog signaling pathways. <i>American Journal of Human Genetics</i> , 2008 , 82, 304-19	11	198
179	Towards an understanding of gait control: brain activation during the anticipation, preparation and execution of foot movements. <i>NeuroImage</i> , 2004 , 21, 568-75	7.9	197
178	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
177	Integrity of white matter in the corpus callosum correlates with bimanual co-ordination skills. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T16-21	7.9	187
176	Unconscious vision: new insights into the neuronal correlate of blindsight using diffusion tractography. <i>Brain</i> , 2006 , 129, 1822-32	11.2	180
175	White Matter Plasticity in the Adult Brain. <i>Neuron</i> , 2017 , 96, 1239-1251	13.9	174
174	A common brain network links development, aging, and vulnerability to disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17648-53	11.5	173
173	Accelerated changes in white matter microstructure during aging: a longitudinal diffusion tensor imaging study. <i>Journal of Neuroscience</i> , 2014 , 34, 15425-36	6.6	172
172	A tractography analysis of two deep brain stimulation white matter targets for depression. <i>Biological Psychiatry</i> , 2009 , 65, 276-82	7.9	172
171	Just pretty pictures? What diffusion tractography can add in clinical neuroscience. <i>Current Opinion in Neurology</i> , 2006 , 19, 379-85	7.1	172
170	Functional anatomy of interhemispheric cortical connections in the human brain. <i>Journal of Anatomy</i> , 2006 , 209, 311-20	2.9	169
169	Topography of cortical and subcortical connections of the human pedunclopontine and subthalamic nuclei. <i>NeuroImage</i> , 2007 , 37, 694-705	7.9	164
168	The effects of aerobic activity on brain structure. <i>Frontiers in Psychology</i> , 2012 , 3, 86	3.4	163
167	Probabilistic diffusion tractography: a potential tool to assess the rate of disease progression in amyotrophic lateral sclerosis. <i>Brain</i> , 2006 , 129, 1859-71	11.2	161
166	Connectivity-based parcellation of human cortex using diffusion MRI: Establishing reproducibility, validity and observer independence in BA 44/45 and SMA/pre-SMA. <i>NeuroImage</i> , 2007 , 34, 204-11	7.9	161

165	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011 , 54, 161-9	7.9	160
164	Distinction of seropositive NMO spectrum disorder and MS brain lesion distribution. <i>Neurology</i> , 2013 , 80, 1330-7	6.5	158
163	Attention to movement modulates activity in sensori-motor areas, including primary motor cortex. <i>Experimental Brain Research</i> , 2002 , 142, 13-24	2.3	153
162	Studying neuroanatomy using MRI. <i>Nature Neuroscience</i> , 2017 , 20, 314-326	25.5	147
161	A systematic review of MRI studies examining the relationship between physical fitness and activity and the white matter of the ageing brain. <i>NeuroImage</i> , 2016 , 131, 81-90	7.9	146
160	Topography of connections between human prefrontal cortex and mediodorsal thalamus studied with diffusion tractography. <i>NeuroImage</i> , 2010 , 51, 555-64	7.9	144
159	Attention to touch modulates activity in both primary and secondary somatosensory areas. <i>NeuroReport</i> , 2000 , 11, 1237-41	1.7	137
158	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012 , 135, 276-84	11.2	136
157	Behavioural relevance of variation in white matter microstructure. <i>Current Opinion in Neurology</i> , 2010 , 23, 351-8	7.1	135
156	Altered hemodynamic responses in patients after subcortical stroke measured by functional MRI. <i>Stroke</i> , 2002 , 33, 103-9	6.7	133
155	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009 , 30, 1412-23	3.5	132
154	Ipsilesional anodal tDCS enhances the functional benefits of rehabilitation in patients after stroke. <i>Science Translational Medicine</i> , 2016 , 8, 330re1	17.5	124
153	Poor sleep quality is associated with increased cortical atrophy in community-dwelling adults. <i>Neurology</i> , 2014 , 83, 967-73	6.5	122
152	Modulation of GABA and resting state functional connectivity by transcranial direct current stimulation. <i>ELife</i> , 2015 , 4, e08789	8.9	122
151	Brain activity changes associated with treadmill training after stroke. <i>Stroke</i> , 2009 , 40, 2460-7	6.7	120
150	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014 , 3, e01465	16.5	120
149	Predicting behavioural response to TDCS in chronic motor stroke. <i>NeuroImage</i> , 2014 , 85 Pt 3, 924-33	7.9	119
148	Reassessing cortical reorganization in the primary sensorimotor cortex following arm amputation. <i>Brain</i> , 2015 , 138, 2140-6	11.2	118

147	Glial biology in learning and cognition. <i>Neuroscientist</i> , 2014 , 20, 426-31	7.6	118
146	Changes in white matter microstructure in the developing brain--A longitudinal diffusion tensor imaging study of children from 4 to 11 years of age. <i>NeuroImage</i> , 2016 , 124, 473-486	7.9	117
145	Individual differences in white-matter microstructure reflect variation in functional connectivity during choice. <i>Current Biology</i> , 2007 , 17, 1426-31	6.3	115
144	Functional specificity of human premotor-motor cortical interactions during action selection. <i>European Journal of Neuroscience</i> , 2007 , 26, 2085-95	3.5	112
143	A combined post-mortem magnetic resonance imaging and quantitative histological study of multiple sclerosis pathology. <i>Brain</i> , 2012 , 135, 2938-51	11.2	111
142	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011 , 32, 494-508	5.9	107
141	Investigation of white matter pathology in ALS and PLS using tract-based spatial statistics. <i>Human Brain Mapping</i> , 2009 , 30, 615-24	5.9	107
140	White matter integrity in the vicinity of Broca's area predicts grammar learning success. <i>NeuroImage</i> , 2009 , 47, 1974-81	7.9	101
139	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012 , 8, 635-46	15	100
138	The effect of hypointense white matter lesions on automated gray matter segmentation in multiple sclerosis. <i>Human Brain Mapping</i> , 2012 , 33, 2802-14	5.9	99
137	Neuroimaging in stroke recovery: a position paper from the First International Workshop on Neuroimaging and Stroke Recovery. <i>Cerebrovascular Diseases</i> , 2004 , 18, 260-7	3.2	97
136	Connectivity of the human pedunclopontine nucleus region and diffusion tensor imaging in surgical targeting. <i>Journal of Neurosurgery</i> , 2007 , 107, 814-20	3.2	96
135	What are we measuring with GABA Magnetic Resonance Spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011 , 4, 573-575	1.7	91
134	Myelin water imaging reflects clinical variability in multiple sclerosis. <i>NeuroImage</i> , 2012 , 60, 263-70	7.9	90
133	Fornix microstructure correlates with recollection but not familiarity memory. <i>Journal of Neuroscience</i> , 2009 , 29, 14987-92	6.6	90
132	A systematic review and meta-analysis of cross-sectional studies examining the relationship between mobility and cognition in healthy older adults. <i>Gait and Posture</i> , 2016 , 50, 164-174	2.6	89
131	Functional MRI correlates of lower limb function in stroke victims with gait impairment. <i>Stroke</i> , 2008 , 39, 1507-13	6.7	89
130	Discordant white matter N-acetylaspartate and diffusion MRI measures suggest that chronic metabolic dysfunction contributes to axonal pathology in multiple sclerosis. <i>NeuroImage</i> , 2007 , 36, 19-27	7.9	88

129	Structural plasticity: rewiring the brain. <i>Current Biology</i> , 2007 , 17, R141-4	6.3	87
128	Ventral premotor cortex may be required for dynamic changes in the feeling of limb ownership: a lesion study. <i>Journal of Neuroscience</i> , 2011 , 31, 4852-7	6.6	85
127	Reliable identification of the auditory thalamus using multi-modal structural analyses. <i>NeuroImage</i> , 2006 , 30, 1112-20	7.9	82
126	Model-free characterization of brain functional networks for motor sequence learning using fMRI. <i>NeuroImage</i> , 2008 , 39, 1950-8	7.9	81
125	Effects of Acute Nicotine Abstinence on Cue-elicited Ventral Striatum/Nucleus Accumbens Activation in Female Cigarette Smokers: A Functional Magnetic Resonance Imaging Study. <i>Brain Imaging and Behavior</i> , 2007 , 1, 43-57	4.1	81
124	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016 , 131, 162-70	7.9	79
123	GABA levels are decreased after stroke and GABA changes during rehabilitation correlate with motor improvement. <i>Neurorehabilitation and Neural Repair</i> , 2015 , 29, 278-86	4.7	75
122	Advances in noninvasive myelin imaging. <i>Developmental Neurobiology</i> , 2018 , 78, 136-151	3.2	74
121	Network-level reorganisation of functional connectivity following arm amputation. <i>NeuroImage</i> , 2015 , 114, 217-25	7.9	73
120	Revealing the neural fingerprints of a missing hand. <i>ELife</i> , 2016 , 5,	8.9	73
119	Prefrontal Cortex Activation While Walking Under Dual-Task Conditions in Stroke: A Multimodal Imaging Study. <i>Neurorehabilitation and Neural Repair</i> , 2016 , 30, 591-9	4.7	72
118	Polarity-specific effects of motor transcranial direct current stimulation on fMRI resting state networks. <i>NeuroImage</i> , 2014 , 88, 155-61	7.9	71
117	Deprivation-related and use-dependent plasticity go hand in hand. <i>ELife</i> , 2013 , 2, e01273	8.9	71
116	Changes in functional connectivity and GABA levels with long-term motor learning. <i>NeuroImage</i> , 2015 , 106, 15-20	7.9	68
115	Enhancing the alignment of the preclinical and clinical stroke recovery research pipeline: Consensus-based core recommendations from the Stroke Recovery and Rehabilitation Roundtable translational working group. <i>International Journal of Stroke</i> , 2017 , 12, 462-471	6.3	64
114	Relationships of brain white matter microstructure with clinical and MR measures in relapsing-remitting multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 309-16	5.6	63
113	Investigating the Stability of Fine-Grain Digit Somatotopy in Individual Human Participants. <i>Journal of Neuroscience</i> , 2016 , 36, 1113-27	6.6	63
112	Walking performance and its recovery in chronic stroke in relation to extent of lesion overlap with the descending motor tract. <i>Experimental Brain Research</i> , 2008 , 186, 325-33	2.3	62

111	Connectivity of an effective hypothalamic surgical target for cluster headache. <i>Journal of Clinical Neuroscience</i> , 2007 , 14, 955-60	2.2	62
110	Relating functional changes during hand movement to clinical parameters in patients with multiple sclerosis in a multi-centre fMRI study. <i>European Journal of Neurology</i> , 2008 , 15, 113-22	6	61
109	Human structural plasticity at record speed. <i>Neuron</i> , 2012 , 73, 1058-60	13.9	60
108	The rate of visuomotor adaptation correlates with cerebellar white-matter microstructure. <i>Human Brain Mapping</i> , 2009 , 30, 4048-53	5.9	60
107	What are we measuring with GABA magnetic resonance spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011 , 4, 573-5	1.7	58
106	Relationships between functional and structural corticospinal tract integrity and walking post stroke. <i>Clinical Neurophysiology</i> , 2012 , 123, 2422-8	4.3	56
105	The role of diffusion MRI in neuroscience. <i>NMR in Biomedicine</i> , 2019 , 32, e3762	4.4	55
104	Associations between self-reported sleep quality and white matter in community-dwelling older adults: A prospective cohort study. <i>Human Brain Mapping</i> , 2017 , 38, 5465-5473	5.9	54
103	Structural Plasticity in Adulthood with Motor Learning and Stroke Rehabilitation. <i>Annual Review of Neuroscience</i> , 2018 , 41, 25-40	17	53
102	Gray matter volume is associated with rate of subsequent skill learning after a long term training intervention. <i>NeuroImage</i> , 2014 , 96, 158-66	7.9	53
101	Preservation of motor skill learning in patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 103-15	5	52
100	Relating brain damage to brain plasticity in patients with multiple sclerosis. <i>Neurorehabilitation and Neural Repair</i> , 2012 , 26, 581-93	4.7	52
99	A consistent relationship between local white matter architecture and functional specialisation in medial frontal cortex. <i>NeuroImage</i> , 2006 , 30, 220-7	7.9	52
98	The Homeostatic Interaction Between Anodal Transcranial Direct Current Stimulation and Motor Learning in Humans is Related to GABAA Activity. <i>Brain Stimulation</i> , 2015 , 8, 898-905	5.1	51
97	Evaluation of the Modified Jebsen Test of Hand Function and the University of Maryland Arm Questionnaire for Stroke. <i>Clinical Rehabilitation</i> , 2004 , 18, 195-202	3.3	51
96	Myelin plasticity and behaviour-connecting the dots. <i>Current Opinion in Neurobiology</i> , 2017 , 47, 86-92	7.6	50
95	Two-dimensional population map of cortical connections in the human internal capsule. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 48-54	5.6	50
94	Visualization of altered neurovascular coupling in chronic stroke patients using multimodal functional MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 2044-54	7.3	49

93	Connectivity of the human periventricular-periaqueductal gray region. <i>Journal of Neurosurgery</i> , 2005 , 103, 1030-4	3.2	49
92	Myelin imaging in amyotrophic and primary lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013 , 14, 562-73	3.6	48
91	Impairment of movement-associated brain deactivation in multiple sclerosis: further evidence for a functional pathology of interhemispheric neuronal inhibition. <i>Experimental Brain Research</i> , 2008 , 187, 25-31	2.3	46
90	Reproducibility of fMRI in the clinical setting: implications for trial designs. <i>NeuroImage</i> , 2008 , 42, 603-10	7.9	45
89	White matter integrity as a marker for cognitive plasticity in aging. <i>Neurobiology of Aging</i> , 2016 , 47, 74-83	3.6	43
88	Enhancing the Alignment of the Preclinical and Clinical Stroke Recovery Research Pipeline: Consensus-Based Core Recommendations From the Stroke Recovery and Rehabilitation Roundtable Translational Working Group. <i>Neurorehabilitation and Neural Repair</i> , 2017 , 31, 699-707	4.7	42
87	Structural correlates of skilled performance on a motor sequence task. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 289	3.3	42
86	Motor practice promotes increased activity in brain regions structurally disconnected after subcortical stroke. <i>Neurorehabilitation and Neural Repair</i> , 2011 , 25, 607-16	4.7	42
85	Reaffirming the link between chronic phantom limb pain and maintained missing hand representation. <i>Cortex</i> , 2018 , 106, 174-184	3.8	41
84	Human connectomics - what will the future demand?. <i>NeuroImage</i> , 2013 , 80, 541-4	7.9	40
83	Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. <i>Current Biology</i> , 2017 , 27, 1350-1355	6.3	39
82	Functional imaging of stroke recovery: what have we learnt and where do we go from here?. <i>International Journal of Stroke</i> , 2007 , 2, 7-16	6.3	39
81	White matter abnormalities in methcathinone abusers with an extrapyramidal syndrome. <i>Brain</i> , 2010 , 133, 3676-84	11.2	36
80	Neural basis of induced phantom limb pain relief. <i>Annals of Neurology</i> , 2019 , 85, 59-73	9.4	35
79	Modulating Regional Motor Cortical Excitability with Noninvasive Brain Stimulation Results in Neurochemical Changes in Bilateral Motor Cortices. <i>Journal of Neuroscience</i> , 2018 , 38, 7327-7336	6.6	34
78	The future of functionally-related structural change assessment. <i>NeuroImage</i> , 2012 , 62, 1293-8	7.9	34
77	Associations between Mobility, Cognition, and Brain Structure in Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 155	5.3	33
76	Differences in integrity of white matter and changes with training in spelling impaired children: a diffusion tensor imaging study. <i>Brain Structure and Function</i> , 2012 , 217, 747-60	4	33

75	Studying the effects of transcranial direct-current stimulation in stroke recovery using magnetic resonance imaging. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 857	3.3	33
74	Short-term adaptation to a simple motor task: a physiological process preserved in multiple sclerosis. <i>NeuroImage</i> , 2009 , 45, 500-11	7.9	33
73	e-publishing debate. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 469	14	33
72	Artificial limb representation in amputees. <i>Brain</i> , 2018 , 141, 1422-1433	11.2	32
71	Autoantibodies to glutamic acid decarboxylase in patients with epilepsy are associated with low cortical GABA levels. <i>Epilepsia</i> , 2010 , 51, 1898-901	6.4	32
70	Normalisation of brain connectivity through compensatory behaviour, despite congenital hand absence. <i>ELife</i> , 2015 , 4,	8.9	32
69	Relevance of structural brain connectivity to learning and recovery from stroke. <i>Frontiers in Systems Neuroscience</i> , 2010 , 4, 146	3.5	31
68	Imaging Surrogates of Disease Activity in Neuromyelitis Optica Allow Distinction from Multiple Sclerosis. <i>PLoS ONE</i> , 2015 , 10, e0137715	3.7	31
67	Induced sensorimotor cortex plasticity remediates chronic treatment-resistant visual neglect. <i>ELife</i> , 2017 , 6,	8.9	30
66	Probabilistic tractography of the optic radiations--an automated method and anatomical validation. <i>NeuroImage</i> , 2010 , 49, 2001-12	7.9	29
65	Development of white matter microstructure in relation to verbal and visuospatial working memory-A longitudinal study. <i>PLoS ONE</i> , 2018 , 13, e0195540	3.7	29
64	Sleep-dependent motor memory consolidation in older adults depends on task demands. <i>Neurobiology of Aging</i> , 2015 , 36, 1409-16	5.6	28
63	Perceptually relevant remapping of human somatotopy in 24 hours. <i>ELife</i> , 2016 , 5,	8.9	27
62	Motor correlates of phantom limb pain. <i>Cortex</i> , 2017 , 95, 29-36	3.8	25
61	An Ultra-High Field Magnetic Resonance Spectroscopy Study of Post Exercise Lactate, Glutamate and Glutamine Change in the Human Brain. <i>Frontiers in Physiology</i> , 2015 , 6, 351	4.6	23
60	Maternal antibody-mediated dyslexia? Evidence for a pathogenic serum factor in a mother of two dyslexic children shown by transfer to mice using behavioural studies and magnetic resonance spectroscopy. <i>Journal of Neuroimmunology</i> , 2002 , 130, 243-7	3.5	23
59	Transfer of tactile perceptual learning to untrained neighboring fingers reflects natural use relationships. <i>Journal of Neurophysiology</i> , 2016 , 115, 1088-97	3.2	22
58	Cognitive context determines dorsal premotor cortical activity during hand movement in patients after stroke. <i>Stroke</i> , 2011 , 42, 1056-61	6.7	21

57	White matter structure and myelin-related gene expression alterations with experience in adult rats. <i>Progress in Neurobiology</i> , 2020 , 187, 101770	10.9	20
56	Structural Variability in the Human Brain Reflects Fine-Grained Functional Architecture at the Population Level. <i>Journal of Neuroscience</i> , 2019 , 39, 6136-6149	6.6	18
55	A critical evaluation of systematic reviews assessing the effect of chronic physical activity on academic achievement, cognition and the brain in children and adolescents: a systematic review. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2020 , 17, 79	8.4	18
54	Cognition and mobility show a global association in middle- and late-adulthood: Analyses from the Canadian Longitudinal Study on Aging. <i>Gait and Posture</i> , 2018 , 64, 238-243	2.6	18
53	Effects of a programme of vigorous physical activity during secondary school physical education on academic performance, fitness, cognition, mental health and the brain of adolescents (Fit to Study): study protocol for a cluster-randomised trial. <i>Trials</i> , 2019 , 20, 189	2.8	16
52	A community-based physical activity intervention to prevent mobility-related disability for retired older people (REtirement in ACTION (REACT)): study protocol for a randomised controlled trial. <i>Trials</i> , 2018 , 19, 228	2.8	16
51	Imaging white matter diffusion changes with development and recovery from brain injury. <i>Developmental Neurorehabilitation</i> , 2008 , 11, 174-86	1.8	16
50	Sleep and Motor Learning: Implications for Physical Rehabilitation After Stroke. <i>Frontiers in Neurology</i> , 2015 , 6, 241	4.1	15
49	Imaging the effects of rTMS-induced cortical plasticity. <i>Restorative Neurology and Neuroscience</i> , 2010 , 28, 425-36	2.8	13
48	Sleep Disruption After Brain Injury Is Associated With Worse Motor Outcomes and Slower Functional Recovery. <i>Neurorehabilitation and Neural Repair</i> , 2020 , 34, 661-671	4.7	12
47	Relating diffusion tensor imaging measurements to microstructural quantities in the cerebral cortex in multiple sclerosis. <i>Human Brain Mapping</i> , 2019 , 40, 4417-4431	5.9	12
46	Individual Differences in White Matter Microstructure in the Healthy Brain 2014 , 301-316		12
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