

Heidi Johansen-Berg

List of Publications by Year in Descending Order

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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	White Matter 2022 , 163-177		
217	Effect of a physical activity and behaviour maintenance programme on functional mobility decline in older adults: the REACT (Retirement in Action) randomised controlled trial.. <i>Lancet Public Health, The</i> , 2022 , 7, e316-e326	22.4	5
216	Cost-effectiveness of a physical activity and behaviour maintenance programme on functional mobility decline in older adults: an economic evaluation of the REACT (Retirement in Action) trial.. <i>Lancet Public Health, The</i> , 2022 , 7, e327-e334	22.4	3
215	Frequency modulation of entorhinal cortex neuronal activity drives distinct frequency-dependent states of brain-wide dynamics. <i>Cell Reports</i> , 2021 , 37, 109954	10.6	2
214	Exploring the public health potential of RED January, a social media campaign supporting physical activity in the community for mental health: a qualitative study.. <i>Mental Health and Physical Activity</i> , 2021 , 21, 100429	5	0
213	fMRI neurofeedback in the motor system elicits bidirectional changes in activity and in white matter structure in the adult human brain. <i>Cell Reports</i> , 2021 , 37, 109890	10.6	0
212	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. <i>Cortex</i> , 2021 , 145, 187-200	3.8	2
211	Age-related decline in cortical inhibitory tone strengthens motor memory. <i>NeuroImage</i> , 2021 , 245, 118681	8.9	0
210	The effect of a one-year vigorous physical activity intervention on fitness, cognitive performance and mental health in young adolescents: the Fit to Study cluster randomised controlled trial. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021 , 18, 47	8.4	5
209	Exploring activity levels in physical education lessons in the UK: a cross-sectional examination of activity types and fitness levels. <i>BMJ Open Sport and Exercise Medicine</i> , 2021 , 7, e000924	3.4	3
208	Dual-task walking and automaticity after Stroke: Insights from a secondary analysis and imaging sub-study of a randomised controlled trial. <i>Clinical Rehabilitation</i> , 2021 , 35, 1599-1610	3.3	1
207	Self-Reported and Objective Sleep Measures in Stroke Survivors With Incomplete Motor Recovery at the Chronic Stage. <i>Neurorehabilitation and Neural Repair</i> , 2021 , 35, 851-860	4.7	2
206	Multimodal Imaging Brain Markers in Early Adolescence Are Linked with a Physically Active Lifestyle. <i>Journal of Neuroscience</i> , 2021 , 41, 1092-1104	6.6	1
205	Hippocampal maintenance after a 12-month physical activity intervention in older adults: The REACT MRI study.. <i>NeuroImage: Clinical</i> , 2021 , 102762	5.3	2
204	Effects of gender, activity type, class location and class composition on physical activity levels experienced during physical education classes in British secondary schools: a pilot cross-sectional study. <i>BMC Public Health</i> , 2020 , 20, 1590	4.1	2
203	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
202	The effects of an aerobic training intervention on cognition, grey matter volumes and white matter microstructure. <i>Physiology and Behavior</i> , 2020 , 223, 112923	3.5	5

201	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
200	Perceptions of active and inactive prototypes are associated with objective measures of physical activity in adolescents. <i>Psychology, Health and Medicine</i> , 2020 , 25, 1216-1227	2.1	1
199	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
198	Are People Ready for Personalized Brain Health? Perspectives of Research Participants in the Lifebrain Consortium. <i>Gerontologist, The</i> , 2020 , 60, 1050-1059	5	5
197	Alcohol consumption is associated with reduced creatine levels in the hippocampus of older adults. <i>Psychiatry Research - Neuroimaging</i> , 2020 , 295, 111019	2.9	1
196	Associations between fitness, physical activity and mental health in a community sample of young British adolescents: baseline data from the Fit to Study trial. <i>BMJ Open Sport and Exercise Medicine</i> , 2020 , 6, e000819	3.4	10
195	Fit to Study: Reflections on designing and implementing a large-scale randomized controlled trial in secondary schools. <i>Trends in Neuroscience and Education</i> , 2020 , 20, 100134	3.7	2
194	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
193	Magnetic Resonance Techniques for Imaging White Matter. <i>Methods in Molecular Biology</i> , 2019 , 1936, 397-407	1.4	2
192	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
191	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
190	Neural basis of induced phantom limb pain relief. <i>Annals of Neurology</i> , 2019 , 85, 59-73	9.4	35
189	The role of diffusion MRI in neuroscience. <i>NMR in Biomedicine</i> , 2019 , 32, e3762	4.4	55
188	Structural Plasticity in Adulthood with Motor Learning and Stroke Rehabilitation. <i>Annual Review of Neuroscience</i> , 2018 , 41, 25-40	17	53
187	Artificial limb representation in amputees. <i>Brain</i> , 2018 , 141, 1422-1433	11.2	32
186	Increasing Lateralized Motor Activity in Younger and Older Adults using Real-time fMRI during Executed Movements. <i>Neuroscience</i> , 2018 , 378, 165-174	3.9	10
185	Advances in noninvasive myelin imaging. <i>Developmental Neurobiology</i> , 2018 , 78, 136-151	3.2	74
184	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

183	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
182	Reaffirming the link between chronic phantom limb pain and maintained missing hand representation. <i>Cortex</i> , 2018 , 106, 174-184	3.8	41
181	Functional strength training versus movement performance therapy for upper limb motor recovery early after stroke: a RCT. <i>Efficacy and Mechanism Evaluation</i> , 2018 , 5, 1-112	1.7	8
180	Flexibility of categorical body representation following limb-loss and prosthesis usage in the occipitotemporal cortex. <i>Journal of Vision</i> , 2018 , 18, 431	0.4	
179	Transcranial direct current stimulation for promoting motor function in cerebral palsy: a review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 121	5.3	9
178	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
177	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
176	Studying neuroanatomy using MRI. <i>Nature Neuroscience</i> , 2017 , 20, 314-326	25.5	147
175	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
174	Peri-hand space representation in the absence of a hand - Evidence from congenital one-handers. <i>Cortex</i> , 2017 , 95, 169-171	3.8	3
173	Myelin plasticity and behaviour-connecting the dots. <i>Current Opinion in Neurobiology</i> , 2017 , 47, 86-92	7.6	50
172	Induced sensorimotor cortex plasticity remediates chronic treatment-resistant visual neglect. <i>ELife</i> , 2017 , 6,	8.9	30
171	Functional Strength Training and Movement Performance Therapy for Upper Limb Recovery Early Poststroke-Efficacy, Neural Correlates, Predictive Markers, and Cost-Effectiveness: FAST-INDiCATE Trial. <i>Frontiers in Neurology</i> , 2017 , 8, 733	4.1	10
170	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
169	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
168	Motor correlates of phantom limb pain. <i>Cortex</i> , 2017 , 95, 29-36	3.8	25
167	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
166	White Matter Plasticity in the Adult Brain. <i>Neuron</i> , 2017 , 96, 1239-1251	13.9	174

165	Associations between Mobility, Cognition, and Brain Structure in Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 155	5.3	33
164	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
163	Changes in white matter microstructure in the developing brain--A longitudinal diffusion tensor imaging study of children from 4 to 11years of age. <i>NeuroImage</i> , 2016 , 124, 473-486	7.9	117
162	Grey matter abnormalities in methcathinone abusers with a Parkinsonian syndrome. <i>Brain and Behavior</i> , 2016 , 6, e00539	3.4	7
161	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
160	Ipsilesional anodal tDCS enhances the functional benefits of rehabilitation in patients after stroke. <i>Science Translational Medicine</i> , 2016 , 8, 330re1	17.5	124
159	The NMDA receptor partial agonist d-cycloserine does not enhance motor learning. <i>Journal of Psychopharmacology</i> , 2016 , 30, 994-9	4.6	8
158	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016 , 131, 162-70	7.9	79
157	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
156	Revealing the neural fingerprints of a missing hand. <i>ELife</i> , 2016 , 5,	8.9	73
155	Perceptually relevant remapping of human somatotopy in 24 hours. <i>ELife</i> , 2016 , 5,	8.9	27
154	Investigating the Stability of Fine-Grain Digit Somatotopy in Individual Human Participants. <i>Journal of Neuroscience</i> , 2016 , 36, 1113-27	6.6	63
153	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
152	White matter integrity as a marker for cognitive plasticity in aging. <i>Neurobiology of Aging</i> , 2016 , 47, 74-83.6	3.6	43
151	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
150	Reassessing cortical reorganization in the primary sensorimotor cortex following arm amputation. <i>Brain</i> , 2015 , 138, 2140-6	11.2	118
149	Network-level reorganisation of functional connectivity following arm amputation. <i>NeuroImage</i> , 2015 , 114, 217-25	7.9	73
148	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

147	Changes in functional connectivity and GABA levels with long-term motor learning. <i>NeuroImage</i> , 2015 , 106, 15-20	7.9	68
146	Sleep and Motor Learning: Implications for Physical Rehabilitation After Stroke. <i>Frontiers in Neurology</i> , 2015 , 6, 241	4.1	15
145	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
144	Sleep-dependent motor memory consolidation in older adults depends on task demands. <i>Neurobiology of Aging</i> , 2015 , 36, 1409-16	5.6	28
143	Imaging Surrogates of Disease Activity in Neuromyelitis Optica Allow Distinction from Multiple Sclerosis. <i>PLoS ONE</i> , 2015 , 10, e0137715	3.7	31
142	Normalisation of brain connectivity through compensatory behaviour, despite congenital hand absence. <i>ELife</i> , 2015 , 4,	8.9	32
141	Modulation of GABA and resting state functional connectivity by transcranial direct current stimulation. <i>ELife</i> , 2015 , 4, e08789	8.9	122
140	FAST INdiCATE Trial protocol. Clinical efficacy of functional strength training for upper limb motor recovery early after stroke: neural correlates and prognostic indicators. <i>International Journal of Stroke</i> , 2014 , 9, 240-5	6.3	3
139	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
138	Glial biology in learning and cognition. <i>Neuroscientist</i> , 2014 , 20, 426-31	7.6	118
137	Poor sleep quality is associated with increased cortical atrophy in community-dwelling adults. <i>Neurology</i> , 2014 , 83, 967-73	6.5	122
136	Neuroplasticity in Constraint-Induced Movement Therapy. <i>Biosystems and Biorobotics</i> , 2014 , 23-24	0.2	
135	Predicting behavioural response to TDCS in chronic motor stroke. <i>NeuroImage</i> , 2014 , 85 Pt 3, 924-33	7.9	119
134	Aging associated changes in the motor control of ankle movements in the brain. <i>Neurobiology of Aging</i> , 2014 , 35, 2222-2229	5.6	8
133	Polarity-specific effects of motor transcranial direct current stimulation on fMRI resting state networks. <i>NeuroImage</i> , 2014 , 88, 155-61	7.9	71
132	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
131	Individual Differences in White Matter Microstructure in the Healthy Brain 2014 , 301-316		12
130	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

129	Connectivity Fingerprinting of Gray Matter 2014 , 481-509		1
128	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014 , 3, e01465		120
127	Function in the human connectome: task-fMRI and individual differences in behavior. <i>NeuroImage</i> , 2013 , 80, 169-89	7.9	779
126	Human connectomics - what will the future demand?. <i>NeuroImage</i> , 2013 , 80, 541-4	7.9	40
125	Phantom pain is associated with preserved structure and function in the former hand area. <i>Nature Communications</i> , 2013 , 4, 1570	17.4	217
124	Distinction of seropositive NMO spectrum disorder and MS brain lesion distribution. <i>Neurology</i> , 2013 , 80, 1330-7	6.5	158
123	Myelin imaging in amyotrophic and primary lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013 , 14, 562-73	3.6	48
122	Motor skill learning induces changes in white matter microstructure and myelination. <i>Journal of Neuroscience</i> , 2013 , 33, 19499-503	6.6	276
121	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
120	Deprivation-related and use-dependent plasticity go hand in hand. <i>ELife</i> , 2013 , 2, e01273	8.9	71
119	Human structural plasticity at record speed. <i>Neuron</i> , 2012 , 73, 1058-60	13.9	60
118	Relationships between functional and structural corticospinal tract integrity and walking post stroke. <i>Clinical Neurophysiology</i> , 2012 , 123, 2422-8	4.3	56
117	The future of functionally-related structural change assessment. <i>NeuroImage</i> , 2012 , 62, 1293-8	7.9	34
116	Diffusion MRI at 25: exploring brain tissue structure and function. <i>NeuroImage</i> , 2012 , 61, 324-41	7.9	305
115	Myelin water imaging reflects clinical variability in multiple sclerosis. <i>NeuroImage</i> , 2012 , 60, 263-70	7.9	90
114	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012 , 8, 635-46	15	100
113	Structural correlates of skilled performance on a motor sequence task. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 289	3.3	42
112	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

111	Plasticity in gray and white: neuroimaging changes in brain structure during learning. <i>Nature Neuroscience</i> , 2012 , 15, 528-36	25.5	1047
110	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
109	Tools of the trade: psychophysiological interactions and functional connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 604-9	4	529
108	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
107	The effects of aerobic activity on brain structure. <i>Frontiers in Psychology</i> , 2012 , 3, 86	3.4	163
106	Relating brain damage to brain plasticity in patients with multiple sclerosis. <i>Neurorehabilitation and Neural Repair</i> , 2012 , 26, 581-93	4.7	52
105	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
104	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012 , 135, 276-84	11.2	136
103	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
102	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011 , 54, 161-9	7.9	160
101	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
100	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011 , 49, 800-804	3.2	311
99	The role of GABA in human motor learning. <i>Current Biology</i> , 2011 , 21, 480-4	6.3	372
98	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011 , 32, 494-508	5.9	107
97	Tractography: where do we go from here?. <i>Brain Connectivity</i> , 2011 , 1, 169-83	2.7	429
96	Preservation of motor skill learning in patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 103-15	5	52
95	Cognitive context determines dorsal premotor cortical activity during hand movement in patients after stroke. <i>Stroke</i> , 2011 , 42, 1056-61	6.7	21
94	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

93	What are we measuring with GABA Magnetic Resonance Spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011 , 4, 573-575	1.7	91
92	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
91	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
90	What are we measuring with GABA magnetic resonance spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011 , 4, 573-5	1.7	58
89	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
88	Imaging the effects of rTMS-induced cortical plasticity. <i>Restorative Neurology and Neuroscience</i> , 2010 , 28, 425-36	2.8	13
87	White matter abnormalities in methcathinone abusers with an extrapyramidal syndrome. <i>Brain</i> , 2010 , 133, 3676-84	11.2	36
86	Topography of connections between human prefrontal cortex and mediodorsal thalamus studied with diffusion tractography. <i>NeuroImage</i> , 2010 , 51, 555-64	7.9	144
85	Age-related changes in grey and white matter structure throughout adulthood. <i>NeuroImage</i> , 2010 , 51, 943-51	7.9	336
84	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010 , 49, 94-103	7.9	302
83	Probabilistic tractography of the optic radiations--an automated method and anatomical validation. <i>NeuroImage</i> , 2010 , 49, 2001-12	7.9	29
82	Relevance of structural brain connectivity to learning and recovery from stroke. <i>Frontiers in Systems Neuroscience</i> , 2010 , 4, 146	3.5	31
81	Behavioural relevance of variation in white matter microstructure. <i>Current Opinion in Neurology</i> , 2010 , 23, 351-8	7.1	135
80	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
79	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
78	Fornix microstructure correlates with recollection but not familiarity memory. <i>Journal of Neuroscience</i> , 2009 , 29, 14987-92	6.6	90
77	Brain activity changes associated with treadmill training after stroke. <i>Stroke</i> , 2009 , 40, 2460-7	6.7	120
76	Consensus paper: combining transcranial stimulation with neuroimaging. <i>Brain Stimulation</i> , 2009 , 2, 58-80.1	8.1	239

75	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
74	The rate of visuomotor adaptation correlates with cerebellar white-matter microstructure. <i>Human Brain Mapping</i> , 2009 , 30, 4048-53	5.9	60
73	Training induces changes in white-matter architecture. <i>Nature Neuroscience</i> , 2009 , 12, 1370-1	25.5	1040
72	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009 , 30, 1412-23	3.5	132
71	Polarity-sensitive modulation of cortical neurotransmitters by transcranial stimulation. <i>Journal of Neuroscience</i> , 2009 , 29, 5202-6	6.6	630
70	A tractography analysis of two deep brain stimulation white matter targets for depression. <i>Biological Psychiatry</i> , 2009 , 65, 276-82	7.9	172
69	Individual Differences in White Matter Microstructure in the Healthy Brain 2009 , 237-249		9
68	Connectivity Fingerprinting of Gray Matter 2009 , 377-402		2
67	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
66	White matter integrity in the vicinity of Broca's area predicts grammar learning success. <i>NeuroImage</i> , 2009 , 47, 1974-81	7.9	101
65	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
64	Using diffusion imaging to study human connective anatomy. <i>Annual Review of Neuroscience</i> , 2009 , 32, 75-94	17	248
63	Neurochemical effects of theta burst stimulation as assessed by magnetic resonance spectroscopy. <i>Journal of Neurophysiology</i> , 2009 , 101, 2872-7	3.2	198
62	Integration of Measures of Functional and Structural MRI. <i>NeuroMethods</i> , 2009 , 785-809	0.4	
61	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
60	Diffusion-based tractography in neurological disorders: concepts, applications, and future developments. <i>Lancet Neurology</i> , 2008 , 7, 715-27	24.1	300
59	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008 , 39, 52-61	7.9	238
58	Model-free characterization of brain functional networks for motor sequence learning using fMRI. <i>NeuroImage</i> , 2008 , 39, 1950-8	7.9	81

57	Reproducibility of fMRI in the clinical setting: implications for trial designs. <i>NeuroImage</i> , 2008 , 42, 603-10	7.9	45
56	Imaging white matter diffusion changes with development and recovery from brain injury. <i>Developmental Neurorehabilitation</i> , 2008 , 11, 174-86	1.8	16
55	Functional MRI correlates of lower limb function in stroke victims with gait impairment. <i>Stroke</i> , 2008 , 39, 1507-13	6.7	89
54	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
53	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
52	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
51	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
50	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
49	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
48	Functional specificity of human premotor-motor cortical interactions during action selection. <i>European Journal of Neuroscience</i> , 2007 , 26, 2085-95	3.5	112
47	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
46	Structural plasticity: rewiring the brain. <i>Current Biology</i> , 2007 , 17, R141-4	6.3	87
45	Individual differences in white-matter microstructure reflect variation in functional connectivity during choice. <i>Current Biology</i> , 2007 , 17, 1426-31	6.3	115
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5	Reassessing associations between white matter and behaviour with multimodal microstructural imaging		1
4	Neurofeedback fMRI in the motor system elicits bi-directional changes in activity and white-matter structure in the healthy adult human brain		1

3	Automated detection of sleep-boundary times using wrist-worn accelerometry	3
2	Causal explanation of individual differences in human sensorimotor memory formation	1
1	The role of diffusion MRI in neuroscience	2