

Paul M Matthews

List of Publications by Citations

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301
papers

51,854
citations

106
h-index

226
g-index

330
ext. papers

60,250
ext. citations

7.8
avg, IF

7.08
L-index

#	Paper	IF	Citations
301	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
300	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
299	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
298	Large recurrent microdeletions associated with schizophrenia. <i>Nature</i> , 2008 , 455, 232-6	50.4	1427
297	Common variants conferring risk of schizophrenia. <i>Nature</i> , 2009 , 460, 744-7	50.4	1350
296	Distinct patterns of brain activity in young carriers of the APOE-epsilon4 allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7209-14	11.5	1286
295	Dissociating pain from its anticipation in the human brain. <i>Science</i> , 1999 , 284, 1979-81	33.3	930
294	Oxygenation dependence of the transverse relaxation time of water protons in whole blood at high field. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982 , 714, 265-70	4	812
293	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
292	Scanning the horizon: towards transparent and reproducible neuroimaging research. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 115-126	13.5	646
291	Polarity-sensitive modulation of cortical neurotransmitters by transcranial stimulation. <i>Journal of Neuroscience</i> , 2009 , 29, 5202-6	6.6	630
290	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
289	Meta-analysis of genome scans and replication identify CD6, IRF8 and TNFRSF1A as new multiple sclerosis susceptibility loci. <i>Nature Genetics</i> , 2009 , 41, 776-82	36.3	621
288	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
287	Exacerbation of pain by anxiety is associated with activity in a hippocampal network. <i>Journal of Neuroscience</i> , 2001 , 21, 9896-903	6.6	576
286	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
285	An 18-kDa translocator protein (TSPO) polymorphism explains differences in binding affinity of the PET radioligand PBR28. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1-5	7.3	520

284	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
283	Correlation between motor improvements and altered fMRI activity after rehabilitative therapy. <i>Brain</i> , 2002 , 125, 2731-42	11.2	456
282	Imaging attentional modulation of pain in the periaqueductal gray in humans. <i>Journal of Neuroscience</i> , 2002 , 22, 2748-52	6.6	450
281	Semantic processing in the left inferior prefrontal cortex: a combined functional magnetic resonance imaging and transcranial magnetic stimulation study. <i>Journal of Cognitive Neuroscience</i> , 2003 , 15, 71-84	3.1	425
280	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018 , 166, 400-424	7.9	415
279	Reversible decreases in N-acetylaspartate after acute brain injury. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 721-7	4.4	412
278	Thalamic neurodegeneration in multiple sclerosis. <i>Annals of Neurology</i> , 2002 , 52, 650-3	9.4	397
277	DTI measures in crossing-fibre areas: increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. <i>NeuroImage</i> , 2011 , 55, 880-90	7.9	381
276	Normalized accurate measurement of longitudinal brain change. <i>Journal of Computer Assisted Tomography</i> , 2001 , 25, 466-75	2.2	377
275	Quantitative pathological evidence for axonal loss in normal appearing white matter in multiple sclerosis. <i>Annals of Neurology</i> , 2000 , 47, 391-395	9.4	364
274	Candidate single-nucleotide polymorphisms from a genomewide association study of Alzheimer disease. <i>Archives of Neurology</i> , 2008 , 65, 45-53		362
273	Genome-wide association analysis of susceptibility and clinical phenotype in multiple sclerosis. <i>Human Molecular Genetics</i> , 2009 , 18, 767-78	5.6	357
272	Evidence of axonal damage in the early stages of multiple sclerosis and its relevance to disability. <i>Archives of Neurology</i> , 2001 , 58, 65-70		355
271	Susceptibility-induced loss of signal: comparing PET and fMRI on a semantic task. <i>NeuroImage</i> , 2000 , 11, 589-600	7.9	355
270	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011 , 49, 800-804	3.2	311
269	Pathway and network-based analysis of genome-wide association studies in multiple sclerosis. <i>Human Molecular Genetics</i> , 2009 , 18, 2078-90	5.6	310
268	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010 , 49, 94-103	7.9	302
267	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 65	6.9	285

266	White matter lesion progression, brain atrophy, and cognitive decline: the Austrian stroke prevention study. <i>Annals of Neurology</i> , 2005 , 58, 610-6	9.4	284
265	Mixed-affinity binding in humans with 18-kDa translocator protein ligands. <i>Journal of Nuclear Medicine</i> , 2011 , 52, 24-32	8.9	277
264	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
263	Proton magnetic resonance spectroscopic imaging for metabolic characterization of demyelinating plaques. <i>Annals of Neurology</i> , 1992 , 31, 235-41	9.4	275
262	Chemical pathology of acute demyelinating lesions and its correlation with disability. <i>Annals of Neurology</i> , 1995 , 38, 901-9	9.4	267
261	Applications of fMRI in translational medicine and clinical practice. <i>Nature Reviews Neuroscience</i> , 2006 , 7, 732-44	13.5	244
260	Proton magnetic resonance spectroscopy of human brain in vivo in the evaluation of multiple sclerosis: assessment of the load of disease. <i>Magnetic Resonance in Medicine</i> , 1990 , 14, 154-9	4.4	243
259	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008 , 39, 52-61	7.9	238
258	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
257	The gut hormones PYY 3-36 and GLP-1 7-36 amide reduce food intake and modulate brain activity in appetite centers in humans. <i>Cell Metabolism</i> , 2011 , 14, 700-6	24.6	233
256	Reduction in occipital cortex gamma-aminobutyric acid concentrations in medication-free recovered unipolar depressed and bipolar subjects. <i>Biological Psychiatry</i> , 2007 , 61, 806-12	7.9	231
255	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
254	Rapid modulation of GABA concentration in human sensorimotor cortex during motor learning. <i>Journal of Neurophysiology</i> , 2006 , 95, 1639-44	3.2	225
253	Positron emission tomography molecular imaging for drug development. <i>British Journal of Clinical Pharmacology</i> , 2012 , 73, 175-86	3.8	212
252	The role of the posterior fusiform gyrus in reading. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 911-22	3.1	207
251	Rare deletions at 16p13.11 predispose to a diverse spectrum of sporadic epilepsy syndromes. <i>American Journal of Human Genetics</i> , 2010 , 86, 707-18	11	206
250	Neurochemical effects of theta burst stimulation as assessed by magnetic resonance spectroscopy. <i>Journal of Neurophysiology</i> , 2009 , 101, 2872-7	3.2	198
249	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

248	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
247	Use of proton magnetic resonance spectroscopy for monitoring disease progression in multiple sclerosis. <i>Annals of Neurology</i> , 1994 , 36, 76-82	9.4	173
246	Functional anatomy of interhemispheric cortical connections in the human brain. <i>Journal of Anatomy</i> , 2006 , 209, 311-20	2.9	169
245	Two binding sites for [3H]PBR28 in human brain: implications for TSPO PET imaging of neuroinflammation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 1608-18	7.3	166
244	Increased brain GABA concentrations following acute administration of a selective serotonin reuptake inhibitor. <i>American Journal of Psychiatry</i> , 2004 , 161, 368-70	11.9	162
243	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
242	In vivo evidence for axonal dysfunction remote from focal cerebral demyelination of the type seen in multiple sclerosis. <i>Brain</i> , 1999 , 122 (Pt 10), 1933-9	11.2	161
241	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011 , 54, 161-9	7.9	160
240	Reduced brain functional reserve and altered functional connectivity in patients with multiple sclerosis. <i>Brain</i> , 2006 , 129, 527-37	11.2	160
239	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004 , 56, 613-9	7.9	160
238	Subclinical myocardial inflammation and diffuse fibrosis are common in systemic sclerosis—a clinical study using myocardial T1-mapping and extracellular volume quantification. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 21	6.9	156
237	Automatic Sleep Stage Scoring Using Time-Frequency Analysis and Stacked Sparse Autoencoders. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1587-97	4.7	153
236	Neuroscience thinks big (and collaboratively). <i>Nature Reviews Neuroscience</i> , 2013 , 14, 659-64	13.5	153
235	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
234	Nicotine replacement in abstinent smokers improves cognitive withdrawal symptoms with modulation of resting brain network dynamics. <i>NeuroImage</i> , 2010 , 52, 590-9	7.9	152
233	Morphology and the internal structure of words. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14984-8	11.5	150
232	UK Biobank cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 8	6.9	145
231	MRI and clinical studies of facial and bulbar muscle involvement in MuSK antibody-associated myasthenia gravis. <i>Brain</i> , 2006 , 129, 1481-92	11.2	144

230	MRI characteristics of the substantia nigra in Parkinson's disease: a combined quantitative T1 and DTI study. <i>NeuroImage</i> , 2009 , 47, 435-41	7.9	142
229	Potentially adaptive functional changes in cognitive processing for patients with multiple sclerosis and their acute modulation by rivastigmine. <i>Brain</i> , 2003 , 126, 2750-60	11.2	141
228	Variability in fMRI: a re-examination of inter-session differences. <i>Human Brain Mapping</i> , 2005 , 24, 248-57	5.9	140
227	Blood oxygenation level dependent contrast resting state networks are relevant to functional activity in the neocortical sensorimotor system. <i>Experimental Brain Research</i> , 2005 , 167, 587-94	2.3	140
226	Grey matter volume in a large cohort of MS patients: relation to MRI parameters and disability. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 1098-106	5	139
225	Hemispheric specialization for processing auditory nonspeech stimuli. <i>Cerebral Cortex</i> , 2006 , 16, 1266-75	5.1	139
224	Testing for dual brain processing routes in reading: a direct contrast of chinese character and pinyin reading using fMRI. <i>Journal of Cognitive Neuroscience</i> , 2002 , 14, 1088-98	3.1	139
223	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 46	6.9	138
222	Combining shape and connectivity analysis: an MRI study of thalamic degeneration in Alzheimer's disease. <i>NeuroImage</i> , 2010 , 49, 1-8	7.9	138
221	White matter abnormalities and brain activation in schizophrenia: a combined DTI and fMRI study. <i>Schizophrenia Research</i> , 2007 , 89, 1-11	3.6	137
220	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012 , 135, 276-84	11.2	136
219	LRRK2 Gly2019Ser penetrance in Arab-Berber patients from Tunisia: a case-control genetic study. <i>Lancet Neurology</i> , 2008 , 7, 591-4	24.1	136
218	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis: Insights From CMR T1 Mapping. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 526-536	8.4	134
217	Altered hemodynamic responses in patients after subcortical stroke measured by functional MRI. <i>Stroke</i> , 2002 , 33, 103-9	6.7	133
216	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009 , 30, 1412-23	3.5	132
215	Color of scents: chromatic stimuli modulate odor responses in the human brain. <i>Journal of Neurophysiology</i> , 2005 , 93, 3434-41	3.2	132
214	Brain microstructure reveals early abnormalities more than two years prior to clinical progression from mild cognitive impairment to Alzheimer's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 2147-55	6.6	131
213	Changes in gray matter volume and white matter microstructure in adolescents with obsessive-compulsive disorder. <i>Biological Psychiatry</i> , 2011 , 70, 1083-90	7.9	127

212	Increased PK11195 PET binding in the cortex of patients with MS correlates with disability. <i>Neurology</i> , 2012 , 79, 523-30	6.5	125
211	Methamphetamine activates reward circuitry in drug naïve human subjects. <i>Neuropsychopharmacology</i> , 2004 , 29, 1715-22	8.7	125
210	Anatomically-distinct genetic associations of APOE epsilon4 allele load with regional cortical atrophy in Alzheimer's disease. <i>NeuroImage</i> , 2009 , 44, 724-8	7.9	124
209	Low GABA concentrations in occipital cortex and anterior cingulate cortex in medication-free, recovered depressed patients. <i>International Journal of Neuropsychopharmacology</i> , 2008 , 11, 255-60	5.8	121
208	Brain activity changes associated with treadmill training after stroke. <i>Stroke</i> , 2009 , 40, 2460-7	6.7	120
207	Evidence for abnormalities of cortical development in adolescent-onset schizophrenia. <i>NeuroImage</i> , 2008 , 43, 665-75	7.9	117
206	Common genetic variation and susceptibility to partial epilepsies: a genome-wide association study. <i>Brain</i> , 2010 , 133, 2136-47	11.2	115
205	Schizophrenia delays and alters maturation of the brain in adolescence. <i>Brain</i> , 2009 , 132, 2437-48	11.2	114
204	Solid and gaseous cerebral microembolization during off-pump, on-pump, and open cardiac surgery procedures. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004 , 127, 1759-65	1.5	114
203	Quantitative assessment of the reproducibility of functional activation measured with BOLD and MR perfusion imaging: implications for clinical trial design. <i>NeuroImage</i> , 2005 , 27, 393-401	7.9	113
202	Pro-inflammatory activation of primary microglia and macrophages increases 18 kDa translocator protein expression in rodents but not humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2679-2690	7.3	110
201	A proton magnetic resonance spectroscopy study of focal epilepsy in humans. <i>Neurology</i> , 1990 , 40, 985-9	6.5	110
200	Mixed Neural Network Approach for Temporal Sleep Stage Classification. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 324-333	4.8	108
199	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011 , 32, 494-508	5.9	107
198	Genetic variation influences glutamate concentrations in brains of patients with multiple sclerosis. <i>Brain</i> , 2010 , 133, 2603-11	11.2	107
197	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
196	Perceiving identical sounds as speech or non-speech modulates activity in the left posterior superior temporal sulcus. <i>NeuroImage</i> , 2006 , 30, 563-9	7.9	107
195	Association of GSK3beta polymorphisms with brain structural changes in major depressive disorder. <i>Archives of General Psychiatry</i> , 2009 , 66, 721-8		105

194	Connectivity-based segmentation of the substantia nigra in human and its implications in Parkinson's disease. <i>NeuroImage</i> , 2010 , 52, 1175-80	7.9	102
193	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. <i>Brain</i> , 2018 , 141, 459-471	11.2	100
192	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012 , 8, 635-46	15	100
191	Accelerated evolution of brain atrophy and "black holes" in MS patients with APOE-epsilon 4. <i>Annals of Neurology</i> , 2004 , 55, 563-9	9.4	100
190	Using fMRI to study recovery from acquired dysphasia. <i>Brain and Language</i> , 2000 , 71, 391-9	2.9	100
189	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
188	Determination of [(11)C]PBR28 binding potential in vivo: a first human TSPO blocking study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 989-94	7.3	98
187	Neuroinflammation in treated HIV-positive individuals: A TSPO PET study. <i>Neurology</i> , 2016 , 86, 1425-1432	15	93
186	Quantification of the specific translocator protein signal of 18F-PBR111 in healthy humans: a genetic polymorphism effect on in vivo binding. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 1915-23	8.9	93
185	Longitudinal and cross-sectional analysis of atrophy in Alzheimer's disease: cross-validation of BSI, SIENA and SIENAX. <i>NeuroImage</i> , 2007 , 36, 1200-6	7.9	93
184	Functional MRI correlates of lower limb function in stroke victims with gait impairment. <i>Stroke</i> , 2008 , 39, 1507-13	6.7	89
183	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
182	Demyelinated neocortical lesions in marmoset autoimmune encephalomyelitis mimic those in multiple sclerosis. <i>Brain</i> , 2005 , 128, 2713-21	11.2	87
181	Amyloid pathology and axonal injury after brain trauma. <i>Neurology</i> , 2016 , 86, 821-8	6.5	86
180	Independent anatomical and functional measures of the V1/V2 boundary in human visual cortex. <i>Journal of Vision</i> , 2005 , 5, 93-102	0.4	83
179	Endogenous opioid release in the human brain reward system induced by acute amphetamine administration. <i>Biological Psychiatry</i> , 2012 , 72, 371-7	7.9	82
178	Reliable identification of the auditory thalamus using multi-modal structural analyses. <i>NeuroImage</i> , 2006 , 30, 1112-20	7.9	82
177	Axonal injury or loss in the internal capsule and motor impairment in multiple sclerosis. <i>Archives of Neurology</i> , 2000 , 57, 65-70		82

176	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020 , 11, 2624	17.4	81
175	Model-free characterization of brain functional networks for motor sequence learning using fMRI. <i>NeuroImage</i> , 2008 , 39, 1950-8	7.9	81
174	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
173	Studies of metabolism in the isolated, perfused rat heart using ¹³ C NMR. <i>FEBS Letters</i> , 1981 , 123, 315-8	3.8	80
172	A pilot randomized, placebo controlled, double blind phase I trial of the novel SIRT1 activator SRT2104 in elderly volunteers. <i>PLoS ONE</i> , 2012 , 7, e51395	3.7	79
171	Pathway-based approaches to imaging genetics association studies: Wnt signaling, GSK3beta substrates and major depression. <i>NeuroImage</i> , 2010 , 53, 908-17	7.9	75
170	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
169	Hippocampal Neuroinflammation, Functional Connectivity, and Depressive Symptoms in Multiple Sclerosis. <i>Biological Psychiatry</i> , 2016 , 80, 62-72	7.9	73
168	Association of regional gray matter volume loss and progression of white matter lesions in multiple sclerosis - A longitudinal voxel-based morphometry study. <i>NeuroImage</i> , 2009 , 45, 60-7	7.9	72
167	A multi-center randomized proof-of-concept clinical trial applying [¹⁸ F]FDG-PET for evaluation of metabolic therapy with rosiglitazone XR in mild to moderate Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2010 , 22, 1241-56	4.3	71
166	Imaging brain microglial activation using positron emission tomography and translocator protein-specific radioligands. <i>International Review of Neurobiology</i> , 2011 , 101, 19-39	4.4	70
165	Cerebral dysgenesis and lactic acidemia: an MRI/MRS phenotype associated with pyruvate dehydrogenase deficiency. <i>Pediatric Neurology</i> , 1994 , 11, 224-9	2.9	70
164	Regional white matter integrity differentiates between vascular dementia and Alzheimer disease. <i>Stroke</i> , 2009 , 40, 773-9	6.7	69
163	In Vivo Assessment of Brain White Matter Inflammation in Multiple Sclerosis with (18)F-PBR111 PET. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 1112-8	8.9	67
162	Achievements and obstacles of remyelinating therapies in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2017 , 13, 742-754	15	66
161	Reduced cerebrovascular reactivity in young adults carrying the APOE ε allele. <i>Alzheimer's and Dementia</i> , 2015 , 11, 648-57.e1	1.2	65
160	Reproducibility and variability of quantitative magnetic resonance imaging markers in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1319-37	7.3	65
159	Functional segmentation of the hippocampus in the healthy human brain and in Alzheimer's disease. <i>NeuroImage</i> , 2013 , 66, 28-35	7.9	63

158	Functional and structural changes in the memory network associated with left temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2009 , 30, 4070-81	5.9	62
157	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
156	Single-Nucleus RNA-Seq Is Not Suitable for Detection of Microglial Activation Genes in Humans. <i>Cell Reports</i> , 2020 , 32, 108189	10.6	62
155	mutations in rats and a human polymorphism impair the rate of steroid synthesis. <i>Biochemical Journal</i> , 2017 , 474, 3985-3999	3.8	61
154	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
153	Lesion probability maps of white matter hyperintensities in elderly individuals: results of the Austrian stroke prevention study. <i>Journal of Neurology</i> , 2006 , 253, 1064-70	5.5	60
152	Neuroinflammation and its relationship to changes in brain volume and white matter lesions in multiple sclerosis. <i>Brain</i> , 2017 , 140, 2927-2938	11.2	57
151	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , 2020 , 143, 1975-1998	11.2	56
150	Clinical Concepts Emerging from fMRI Functional Connectomics. <i>Neuron</i> , 2016 , 91, 511-28	13.9	56
149	Structural brain and neuropsychometric changes associated with pediatric bipolar disorder with psychosis. <i>Bipolar Disorders</i> , 2011 , 13, 16-27	3.8	54
148	Orbitofrontal connectivity with resting-state networks is associated with midbrain dopamine D3 receptor availability. <i>Cerebral Cortex</i> , 2012 , 22, 2784-93	5.1	54
147	Loss of interhemispheric inhibition in patients with multiple sclerosis is related to corpus callosum atrophy. <i>Experimental Brain Research</i> , 2006 , 174, 728-33	2.3	53
146	Preservation of motor skill learning in patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 103-15	5	52
145	Relating brain damage to brain plasticity in patients with multiple sclerosis. <i>Neurorehabilitation and Neural Repair</i> , 2012 , 26, 581-93	4.7	52
144	The use of functional MRI to study appetite control in the CNS. <i>Experimental Diabetes Research</i> , 2012 , 2012, 764017		52
143	Characterisation of liver fat in the UK Biobank cohort. <i>PLoS ONE</i> , 2017 , 12, e0172921	3.7	51
142	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
141	Medial septal lesions mimic effects of both selective dorsal and ventral hippocampal lesions. <i>Behavioral Neuroscience</i> , 2004 , 118, 1033-41	2.1	50

140	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 18	6.9	49
139	Short-term changes in cerebral activity in on-pump and off-pump cardiac surgery defined by functional magnetic resonance imaging and their relationship to microembolization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006 , 132, 1119-25	1.5	49
138	Modeling the cumulative genetic risk for multiple sclerosis from genome-wide association data. <i>Genome Medicine</i> , 2011 , 3, 3	14.4	48
137	Cerebellar responses during anticipation of noxious stimuli in subjects recovered from depression. Functional magnetic resonance imaging study. <i>British Journal of Psychiatry</i> , 2002 , 181, 411-5	5.4	48
136	Kisspeptin signaling in the amygdala modulates reproductive hormone secretion. <i>Brain Structure and Function</i> , 2016 , 221, 2035-47	4	47
135	Abnormal connectivity of the sensorimotor network in patients with MS: a multicenter fMRI study. <i>Human Brain Mapping</i> , 2009 , 30, 2412-25	5.9	47
134	Left inferior prefrontal cortex activity reflects inhibitory rather than facilitatory priming. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1552-61	3.1	47
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