

Paul M Matthews

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.

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	Reactive astrocytes acquire neuroprotective as well as deleterious signatures in response to Tau and A β pathology.. <i>Nature Communications</i> , 2022 , 13, 135	17.4	4
300	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
299	Diverse human astrocyte and microglial transcriptional responses to Alzheimer's pathology. <i>Acta Neuropathologica</i> , 2021 , 143, 75	14.3	5
298	Tensor Dropout for Robust Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 15, 630-640	1.9	3
297	Activated microglia do not increase 18 kDa translocator protein (TSPO) expression in the multiple sclerosis brain. <i>Glia</i> , 2021 , 69, 2447-2458	9	13
296	Alcohol consumption in the general population is associated with structural changes in multiple organ systems. <i>ELife</i> , 2021 , 10,	8.9	3
295	Brain imaging before and after COVID-19 in UK Biobank 2021 ,		31
294	Tryptophan-metabolizing gut microbes regulate adult neurogenesis via the aryl hydrocarbon receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
293	Unbalanced SSFP for super-resolution in MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2477-2489	4.4	0
292	Relationships between retinal layer thickness and brain volumes in the UK Biobank cohort. <i>European Journal of Neurology</i> , 2021 , 28, 1490-1498	6	5
291	Astrocyte reactivity with late-onset cognitive impairment assessed in vivo using C-BU99008 PET and its relationship with amyloid load. <i>Molecular Psychiatry</i> , 2021 ,	15.1	11
290	Shared genetic pathways contribute to risk of hypertrophic and dilated cardiomyopathies with opposite directions of effect. <i>Nature Genetics</i> , 2021 , 53, 128-134	36.3	35
289	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020 , 11, 6285	17.4	22
288	E-health and multiple sclerosis. <i>Current Opinion in Neurology</i> , 2020 , 33, 271-276	7.1	11
287	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , 2020 , 143, 1975-1998	11.2	56
286	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
285	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. <i>Scientific Reports</i> , 2020 , 10, 2408	4.9	13

284	A novel neurodegenerative spectrum disorder in patients with MLKL deficiency. <i>Cell Death and Disease</i> , 2020 , 11, 303	9.8	7
283	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
282	Accelerated MRI-predicted brain ageing and its associations with cardiometabolic and brain disorders. <i>Scientific Reports</i> , 2020 , 10, 19940	4.9	7
281	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020 , 26, 1654-1662	50.5	23
280	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , 2020 , 584, 589-594	50.4	26
279	Sleep, major depressive disorder, and Alzheimer disease: A Mendelian randomization study. <i>Neurology</i> , 2020 , 95, e1963-e1970	6.5	7
278	In vivo detection of cerebral tau pathology in long-term survivors of traumatic brain injury. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	34
277	A quantitative neuropathological assessment of translocator protein expression in multiple sclerosis. <i>Brain</i> , 2019 , 142, 3440-3455	11.2	40
276	Breaking the cycle: Reversal of flux in the tricarboxylic acid cycle by dimethyl fumarate. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2019 , 6, e562	9.1	7
275	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
274	Chronic inflammation in multiple sclerosis - seeing what was always there. <i>Nature Reviews Neurology</i> , 2019 , 15, 582-593	15	46
273	New alcohol-related genes suggest shared genetic mechanisms with neuropsychiatric disorders. <i>Nature Human Behaviour</i> , 2019 , 3, 950-961	12.8	32
272	Evaluation of multiple sclerosis disability outcome measures using pooled clinical trial data. <i>Neurology</i> , 2019 , 93, e1921-e1931	6.5	31
271	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. <i>Lecture Notes in Computer Science</i> , 2019 , 541-549	0.9	31
270	Associations of Regional Brain Structural Differences With Aging, Modifiable Risk Factors for Dementia, and Cognitive Performance. <i>JAMA Network Open</i> , 2019 , 2, e1917257	10.4	23
269	Learning-Based Quality Control for Cardiac MR Images. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1127-1138	11.7	31
268	Cardiovascular magnetic resonance characterization of myocardial and vascular function in rheumatoid arthritis patients. <i>Hellenic Journal of Cardiology</i> , 2019 , 60, 28-35	2.1	7
267	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. <i>Brain</i> , 2018 , 141, 459-471	11.2	100

266	Distinguishable brain networks relate disease susceptibility to symptom expression in schizophrenia. <i>Human Brain Mapping</i> , 2018 , 39, 3503-3515	5.9	5
265	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
264	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
263	Mononuclear cell transcriptome changes associated with dimethyl fumarate in MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2018 , 5, e470	9.1	4
262	Recurrent Neural Networks for Aortic Image Sequence Segmentation with Sparse Annotations. <i>Lecture Notes in Computer Science</i> , 2018 , 586-594	0.9	40
261	The MSOAC approach to developing performance outcomes to measure and monitor multiple sclerosis disability. <i>Multiple Sclerosis Journal</i> , 2018 , 24, 1469-1484	5	37
260	Unravelling the GSK3 β -related genotypic interaction network influencing hippocampal volume in recurrent major depressive disorder. <i>Psychiatric Genetics</i> , 2018 , 28, 77-84	2.9	23
259	Lipoprotein markers associated with disability from multiple sclerosis. <i>Scientific Reports</i> , 2018 , 8, 17026	4.9	14
258	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 65	6.9	285
257	Remote Monitoring in the Home Validates Clinical Gait Measures for Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2018 , 9, 561	4.1	15
256	Anti-TNF modulation reduces myocardial inflammation and improves cardiovascular function in systemic rheumatic diseases. <i>International Journal of Cardiology</i> , 2018 , 270, 253-259	3.2	30
255	Improving data availability for brain image biobanking in healthy subjects: Practice-based suggestions from an international multidisciplinary working group. <i>NeuroImage</i> , 2017 , 153, 399-409	7.9	12
254	Analysis of ageing-associated grey matter volume in patients with multiple sclerosis shows excess atrophy in subcortical regions. <i>NeuroImage: Clinical</i> , 2017 , 13, 9-15	5.3	18
253	Translocator positron-emission tomography and magnetic resonance spectroscopic imaging of brain glial cell activation in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2017 , 23, 1469-1478	5	17
252	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
251	C-PBR28 and F-PBR111 Detect White Matter Inflammatory Heterogeneity in Multiple Sclerosis. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1477-1482	8.9	36
250	Scanning the horizon: towards transparent and reproducible neuroimaging research. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 115-126	13.5	646
249	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. <i>European Journal of Preventive Cardiology</i> , 2017 , 24, 1799-1806	3.9	15

248	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
247	Abnormal brain white matter microstructure is associated with both pre-hypertension and hypertension. <i>PLoS ONE</i> , 2017 , 12, e0187600	3.7	29
246	mutations in rats and a human polymorphism impair the rate of steroid synthesis. <i>Biochemical Journal</i> , 2017 , 474, 3985-3999	3.8	61
245	Advanced MRI measures like DTI or fMRI should be outcome measures in future clinical trials - NO. <i>Multiple Sclerosis Journal</i> , 2017 , 23, 1456-1458	5	1
244	Inferring functional connectivity in fMRI using minimum partial correlation. <i>International Journal of Automation and Computing</i> , 2017 , 14, 371-385	3.5	4
243	A Comparison of Magnetization Transfer Methods to Assess Brain and Cervical Cord Microstructure in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2017 , 27, 221-226	2.8	27
242	Personalised medicine for multiple sclerosis care. <i>Multiple Sclerosis Journal</i> , 2017 , 23, 362-369	5	28
241	Achievements and obstacles of remyelinating therapies in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2017 , 13, 742-754	15	66
240	Impact of detecting potentially serious incidental findings during multi-modal imaging. <i>Wellcome Open Research</i> , 2017 , 2, 114	4.8	16
239	Characterisation of liver fat in the UK Biobank cohort. <i>PLoS ONE</i> , 2017 , 12, e0172921	3.7	51
238	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
237	Kisspeptin signaling in the amygdala modulates reproductive hormone secretion. <i>Brain Structure and Function</i> , 2016 , 221, 2035-47	4	47
236	A practical review of the neuropathology and neuroimaging of multiple sclerosis. <i>Practical Neurology</i> , 2016 , 16, 279-87	2.4	23
235	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
234	Inferring Individual-Level Variations in the Functional Parcellation of the Cerebral Cortex. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2505-2517	5	1
233	Hippocampal Neuroinflammation, Functional Connectivity, and Depressive Symptoms in Multiple Sclerosis. <i>Biological Psychiatry</i> , 2016 , 80, 62-72	7.9	73
232	Amyloid pathology and axonal injury after brain trauma. <i>Neurology</i> , 2016 , 86, 821-8	6.5	86
231	Neuroinflammation in treated HIV-positive individuals: A TSPO PET study. <i>Neurology</i> , 2016 , 86, 1425-1432	5	93

230	UK Biobank cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 8	6.9	145
229	Near Infrared Fluorescence (NIRF) Molecular Imaging of Oxidized LDL with an Autoantibody in Experimental Atherosclerosis. <i>Scientific Reports</i> , 2016 , 6, 21785	4.9	27
228	Better together for better dementia research and care. <i>Lancet Psychiatry</i> , 2016 , 3, 503-4	23.3	
227	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
226	A pilot study of the effect of short-term escitalopram treatment on brain metabolites and gamma-oscillations in healthy subjects. <i>Journal of Psychopharmacology</i> , 2016 , 30, 579-80	4.6	3
225	Design, Synthesis, and Evaluation of Fluorinated Radioligands for Myelin Imaging. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3705-18	8.3	8
224	Pharmacological Applications of fMRI. <i>NeuroMethods</i> , 2016 , 817-831	0.4	
223	Clinical Concepts Emerging from fMRI Functional Connectomics. <i>Neuron</i> , 2016 , 91, 511-28	13.9	56
222	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
221	Abnormal myocardial perfusion correlates with impaired systolic strain and diastolic strain rate in systemic lupus erythematosus: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
220	Impaired energetics and normal myocardial lipids in rheumatoid arthritis and systemic lupus erythematosus: a phosphorous and proton magnetic resonance spectroscopy and cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
219	Impaired myocardial perfusion in rheumatoid arthritis is associated with impaired strain, strain rate, disease activity and myocardial oedema: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
218	Positron-emission tomography molecular imaging of glia and myelin in drug discovery for multiple sclerosis. <i>Expert Opinion on Drug Discovery</i> , 2015 , 10, 557-70	6.2	21
217	Decade in review-multiple sclerosis: new drugs and personalized medicine for multiple sclerosis. <i>Nature Reviews Neurology</i> , 2015 , 11, 614-6	15	10
216	Clinical Applications of fMRI. <i>Biological Magnetic Resonance</i> , 2015 , 611-632	0.5	1
215	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
214	Bioenergetics and intermuscular fat in chronic obstructive pulmonary disease-associated quadriceps weakness. <i>Muscle and Nerve</i> , 2015 , 51, 214-21	3.4	17
213	Thalamic inflammation after brain trauma is associated with thalamo-cortical white matter damage. <i>Journal of Neuroinflammation</i> , 2015 , 12, 224	10.1	39

212	Relevance of parahippocampal-locus coeruleus connectivity to memory in early dementia. <i>Neurobiology of Aging</i> , 2015 , 36, 618-26	5.6	41
211	Minimum Partial Correlation: An Accurate and Parameter-Free Measure of Functional Connectivity in fMRI. <i>Lecture Notes in Computer Science</i> , 2015 , 125-134	0.9	2
210	Understanding the pharmacology of stroke and multiple sclerosis through imaging. <i>Current Opinion in Pharmacology</i> , 2014 , 14, 34-41	5.1	1
209	The emerging agenda of stratified medicine in neurology. <i>Nature Reviews Neurology</i> , 2014 , 10, 15-26	15	22
208	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
207	Automated identification of brain new lesions in multiple sclerosis using subtraction images. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 1543-9	5.6	29
206	C Development of Whole Body and Intravascular Near-infrared Optical Molecular Imaging of Markers of Plaque Vulnerability in Atherosclerosis. <i>Heart</i> , 2014 , 100, A128.1-A128	5.1	1
205	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
204	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
203	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
202	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
201	Neuroscience thinks big (and collaboratively). <i>Nature Reviews Neuroscience</i> , 2013 , 14, 659-64	13.5	153
200	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
199	A genome-wide association study of brain lesion distribution in multiple sclerosis. <i>Brain</i> , 2013 , 136, 1012-24	11.4	45
198	Glutamate gene polymorphisms predict brain volumes in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2013 , 19, 281-8	5	18
197	Longitudinal positron emission tomography imaging for monitoring myelin repair in the spinal cord. <i>Annals of Neurology</i> , 2013 , 74, 688-98	9.4	38
196	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
195	Histone deacetylase gene variants predict brain volume changes in multiple sclerosis. <i>Neurobiology of Aging</i> , 2013 , 34, 238-47	5.6	24

194	Technologies: preclinical imaging for drug development. <i>Drug Discovery Today: Technologies</i> , 2013 , 10, e343-50	7.1	18
193	Bipolar Disorder is associated with the rs6971 polymorphism in the gene encoding 18 kDa Translocator Protein (TSPO). <i>Psychoneuroendocrinology</i> , 2013 , 38, 2826-9	5	37
192	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
191	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
190	T1-weighted sodium MRI of the articular cartilage in osteoarthritis: a cross sectional and longitudinal study. <i>PLoS ONE</i> , 2013 , 8, e73067	3.7	20
189	Brain structural and functional connectivity and the progression of neuropathology in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2013 , 33 Suppl 1, S163-72	4.3	26
188	Genetic variation in GOLM1 and prefrontal cortical volume in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2012 , 33, 457-65	5.6	12
187	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
186	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012 , 8, 635-46	15	100
185	T2* measurement of the knee articular cartilage in osteoarthritis at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 1422-9	5.6	46
184	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
183	Positron emission tomography molecular imaging for drug development. <i>British Journal of Clinical Pharmacology</i> , 2012 , 73, 175-86	3.8	212
182	Relating brain damage to brain plasticity in patients with multiple sclerosis. <i>Neurorehabilitation and Neural Repair</i> , 2012 , 26, 581-93	4.7	52
181	Increased PK11195 PET binding in the cortex of patients with MS correlates with disability. <i>Neurology</i> , 2012 , 79, 523-30	6.5	125
180	Imaging the neuroendocrinology of appetite. <i>Adipocyte</i> , 2012 , 1, 68-72	3.2	1
179	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
178	The use of functional MRI to study appetite control in the CNS. <i>Experimental Diabetes Research</i> , 2012 , 2012, 764017		52
177	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

176	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
175	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012 , 135, 276-84	11.2	136
174	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
173	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011 , 54, 161-9	7.9	160
172	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
171	Modeling the cumulative genetic risk for multiple sclerosis from genome-wide association data. <i>Genome Medicine</i> , 2011 , 3, 3	14.4	48
170	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
169	Non-invasive imaging in experimental medicine for drug development. <i>Current Opinion in Pharmacology</i> , 2011 , 11, 501-7	5.1	28
168	Structural brain and neuropsychometric changes associated with pediatric bipolar disorder with psychosis. <i>Bipolar Disorders</i> , 2011 , 13, 16-27	3.8	54
167	A multicentre study of motor functional connectivity changes in patients with multiple sclerosis. <i>European Journal of Neuroscience</i> , 2011 , 33, 1256-63	3.5	21
166	Structural brain changes in patients with recurrent major depressive disorder presenting with anxiety symptoms. <i>Journal of Neuroimaging</i> , 2011 , 21, 375-82	2.8	36
165	The effects of nicotine replacement on cognitive brain activity during smoking withdrawal studied with simultaneous fMRI/EEG. <i>Neuropsychopharmacology</i> , 2011 , 36, 1792-800	8.7	45
164	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011 , 49, 800-804	3.2	311
163	Thyroid hormone transporter genes and grey matter changes in patients with major depressive disorder and healthy controls. <i>Psychoneuroendocrinology</i> , 2011 , 36, 929-34	5	4
162	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011 , 32, 494-508	5.9	107
161	Direct exposure of guinea pig CNS to human luteinizing hormone increases cerebrospinal fluid and cerebral beta amyloid levels. <i>Neuroendocrinology</i> , 2011 , 94, 313-22	5.6	19
160	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
159	Towards molecular imaging of multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 262-72	5	9

158	Preservation of motor skill learning in patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 103-15	5	52
157	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
156	Cognitive context determines dorsal premotor cortical activity during hand movement in patients after stroke. <i>Stroke</i> , 2011 , 42, 1056-61	6.7	21
155	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
154	Mixed-affinity binding in humans with 18-kDa translocator protein ligands. <i>Journal of Nuclear Medicine</i> , 2011 , 52, 24-32	8.9	277
153	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
152	Two binding sites for [³ H]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
151	A computationally fast measure of epistasis for 2 SNPs and a categorical phenotype. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 6194-7	0.9	3
150	Common genetic variation and susceptibility to partial epilepsies: a genome-wide association study. <i>Brain</i> , 2010 , 133, 2136-47	11.2	115
149	Genetic variation influences glutamate concentrations in brains of patients with multiple sclerosis. <i>Brain</i> , 2010 , 133, 2603-11	11.2	107
148	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
147	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
146	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
145	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010 , 49, 94-103	7.9	302
144	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
143	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
142	Measurement of relative cerebral blood volume using BOLD contrast and mild hypoxic hypoxia. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1129-34	3.3	5
141	Discovering genetic polymorphism associated with gene expression levels across the whole genome. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5466-9	0.9	

140	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
139	Association of GSK3beta polymorphisms with brain structural changes in major depressive disorder. <i>Archives of General Psychiatry</i> , 2009 , 66, 721-8		105
138	Regional white matter integrity differentiates between vascular dementia and Alzheimer disease. <i>Stroke</i> , 2009 , 40, 773-9	6.7	69
137	Brain activity changes associated with treadmill training after stroke. <i>Stroke</i> , 2009 , 40, 2460-7	6.7	120
136	Schizophrenia delays and alters maturation of the brain in adolescence. <i>Brain</i> , 2009 , 132, 2437-48	11.2	114
135	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
134	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
133	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
132	Common variants conferring risk of schizophrenia. <i>Nature</i> , 2009 , 460, 744-7	50.4	1350
131	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
130	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009 , 30, 1412-23	3.5	132
129	Polarity-sensitive modulation of cortical neurotransmitters by transcranial stimulation. <i>Journal of Neuroscience</i> , 2009 , 29, 5202-6	6.6	630
128	Genome-wide association analysis of susceptibility and clinical phenotype in multiple sclerosis. <i>Human Molecular Genetics</i> , 2009 , 18, 767-78	5.6	357
127	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
126	Advances in the molecular imaging of multiple sclerosis. <i>Expert Review of Clinical Immunology</i> , 2009 , 5, 765-77	5.1	7
125	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
124	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
123	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

122	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
121	Brain imaging of multiple sclerosis: the next 10 years. <i>Neuroimaging Clinics of North America</i> , 2009 , 19, 101-12	3	7
120	Neurochemical effects of theta burst stimulation as assessed by magnetic resonance spectroscopy. <i>Journal of Neurophysiology</i> , 2009 , 101, 2872-7	3.2	198
119	Pharmacological Applications of fMRI. <i>NeuroMethods</i> , 2009 , 751-767	0.4	1
118	Large recurrent microdeletions associated with schizophrenia. <i>Nature</i> , 2008 , 455, 232-6	50.4	1427
117	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
116	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
115	Diffuse cortical atrophy in a marmoset model of multiple sclerosis. <i>Neuroscience Letters</i> , 2008 , 437, 121-4	3.3	35
114	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008 , 39, 52-61	7.9	238
113	Model-free characterization of brain functional networks for motor sequence learning using fMRI. <i>NeuroImage</i> , 2008 , 39, 1950-8	7.9	81
112	Reproducibility of fMRI in the clinical setting: implications for trial designs. <i>NeuroImage</i> , 2008 , 42, 603-10	7.9	45
111	Evidence for abnormalities of cortical development in adolescent-onset schizophrenia. <i>NeuroImage</i> , 2008 , 43, 665-75	7.9	117
110	Candidate single-nucleotide polymorphisms from a genomewide association study of Alzheimer disease. <i>Archives of Neurology</i> , 2008 , 65, 45-53		362
109	Functional MRI correlates of lower limb function in stroke victims with gait impairment. <i>Stroke</i> , 2008 , 39, 1507-13	6.7	89
108	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
107	A neural marker of content-specific active ignoring. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008 , 34, 286-97	2.6	26
106	Pharmacological effects of lipid-lowering drugs recapitulate with a larger amplitude the phenotypic effects of common variants within their target genes. <i>Pharmacogenetics and Genomics</i> , 2008 , 18, 1051-7	1.9	6
105	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

104	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
103	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
102	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
101	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
100	Axonal damage in the spinal cord of multiple sclerosis patients detected by magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 880-5	4.4	43
99	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
98	Effects of elevated plasma tryptophan on brain activation associated with the Stroop task. <i>Psychopharmacology</i> , 2007 , 190, 383-9	4.7	14
97	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
96	Molecular imaging of brain amyloid in mild cognitive impairment and Alzheimer's disease. <i>Nature Clinical Practice Neurology</i> , 2007 , 3, 366-7		1
95	Magnetic resonance spectroscopic imaging--of prognostic value in amyotrophic lateral sclerosis?. <i>Nature Clinical Practice Neurology</i> , 2007 , 3, 76-7		1
94	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
93	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
92	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
91	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
90	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
89	Reduced brain functional reserve and altered functional connectivity in patients with multiple sclerosis. <i>Brain</i> , 2006 , 129, 527-37	11.2	160
88	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
87	Noninvasive brain imaging for experimental medicine in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2006 , 1, 111-21	6.2	1

86	The role of the posterior fusiform gyrus in reading. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 911-22	3.1	207
85	Hemispheric specialization for processing auditory nonspeech stimuli. <i>Cerebral Cortex</i> , 2006 , 16, 1266-75	5.1	139
84	Rapid modulation of GABA concentration in human sensorimotor cortex during motor learning. <i>Journal of Neurophysiology</i> , 2006 , 95, 1639-44	3.2	225
83	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
82	Noninvasive Brain Imaging for Experimental Medicine in Drug Discovery and Development. <i>Pharmaceutical Medicine</i> , 2006 , 20, 167-175		1
81	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
80	Reliable identification of the auditory thalamus using multi-modal structural analyses. <i>NeuroImage</i> , 2006 , 30, 1112-20	7.9	82
79	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
78	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
77	Functional anatomy of interhemispheric cortical connections in the human brain. <i>Journal of Anatomy</i> , 2006 , 209, 311-20	2.9	169
76	Applications of fMRI in translational medicine and clinical practice. <i>Nature Reviews Neuroscience</i> , 2006 , 7, 732-44	13.5	244
75	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
74	Demyelinated neocortical lesions in marmoset autoimmune encephalomyelitis mimic those in multiple sclerosis. <i>Brain</i> , 2005 , 128, 2713-21	11.2	87
73	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
72	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
71	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
70	Category-related activation for written words in the posterior fusiform is task specific. <i>Neuropsychologia</i> , 2005 , 43, 69-74	3.2	42
69	Variability in fMRI: a re-examination of inter-session differences. <i>Human Brain Mapping</i> , 2005 , 24, 248-57	5.9	140

68	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
67	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
66	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
65	Color of scents: chromatic stimuli modulate odor responses in the human brain. <i>Journal of Neurophysiology</i> , 2005 , 93, 3434-41	3.2	132
64	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
63	The role of microembolisation in cerebral injury as defined by functional magnetic resonance imaging. <i>European Journal of Cardio-thoracic Surgery</i> , 2004 , 26, 586-91	3	36
62	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
61	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
60	Methamphetamine activates reward circuitry in drug naïve human subjects. <i>Neuropsychopharmacology</i> , 2004 , 29, 1715-22	8.7	125
59	Left inferior prefrontal cortex activity reflects inhibitory rather than facilitatory priming. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1552-61	3.1	47
58	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
57	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
56	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004 , 56, 613-9	7.9	160
55	Medial septal lesions mimic effects of both selective dorsal and ventral hippocampal lesions. <i>Behavioral Neuroscience</i> , 2004 , 118, 1033-41	2.1	50
54	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
53	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
52	An update on neuroimaging of multiple sclerosis. <i>Current Opinion in Neurology</i> , 2004 , 17, 453-8	7.1	10
51	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

50	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
49	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
48	Thalamic neurodegeneration in multiple sclerosis. <i>Annals of Neurology</i> , 2002 , 52, 650-3	9.4	397
47	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
46	Monitoring disease activity and progression in primary progressive multiple sclerosis using MRI: sub-voxel registration to identify lesion changes and to detect cerebral atrophy. <i>Journal of Neurology</i> , 2002 , 249, 171-7	5.5	22
45	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
44	Altered hemodynamic responses in patients after subcortical stroke measured by functional MRI. <i>Stroke</i> , 2002 , 33, 103-9	6.7	133
43	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
42	Imaging attentional modulation of pain in the periaqueductal gray in humans. <i>Journal of Neuroscience</i> , 2002 , 22, 2748-52	6.6	450
41	Correlation between motor improvements and altered fMRI activity after rehabilitative therapy. <i>Brain</i> , 2002 , 125, 2731-42	11.2	456
40	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
39	Normalized accurate measurement of longitudinal brain change. <i>Journal of Computer Assisted Tomography</i> , 2001 , 25, 466-75	2.2	377
38	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
37	Novel approaches to imaging brain tumors. <i>Hematology/Oncology Clinics of North America</i> , 2001 , 15, 609-30	3.1	5
36	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
35	Magnetic resonance imaging of multiple sclerosis: new insights linking pathology to clinical evolution. <i>Current Opinion in Neurology</i> , 2001 , 14, 279-87	7.1	40
34	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
33	Correlating magnetic resonance imaging markers of axonal injury and demyelination in motor impairment secondary to stroke and multiple sclerosis. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 369-78	3.3	33

32	Using fMRI to study recovery from acquired dysphasia. <i>Brain and Language</i> , 2000 , 71, 391-9	2.9	100
31	Susceptibility-induced loss of signal: comparing PET and fMRI on a semantic task. <i>NeuroImage</i> , 2000 , 11, 589-600	7.9	355
30	Axonal injury or loss in the internal capsule and motor impairment in multiple sclerosis. <i>Archives of Neurology</i> , 2000 , 57, 65-70		82
29	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
28	Dissociating pain from its anticipation in the human brain. <i>Science</i> , 1999 , 284, 1979-81	33.3	930
27	Impairment of muscle mitochondrial oxidative metabolism in McArdles [®] disease. <i>Muscle and Nerve</i> , 1996 , 19, 764-9	3.4	37
26	Association of cerebral dysgenesis and lactic acidemia with X-linked PDH E1 alpha subunit mutations in females. <i>Pediatric Neurology</i> , 1995 , 13, 327-32	2.9	14
25	Mitochondrial disease. Pulmonary function, exercise performance, and blood lactate levels. <i>Chest</i> , 1995 , 108, 182-9	5.3	45
24	Chemical pathology of acute demyelinating lesions and its correlation with disability. <i>Annals of Neurology</i> , 1995 , 38, 901-9	9.4	267
23	Reversible decreases in N-acetylaspartate after acute brain injury. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 721-7	4.4	412
22	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
21	Pyruvate dehydrogenase deficiency: molecular basis for intrafamilial heterogeneity. <i>Annals of Neurology</i> , 1994 , 36, 83-9	9.4	24
20	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
19	Proton magnetic resonance spectroscopic imaging for metabolic characterization of demyelinating plaques. <i>Annals of Neurology</i> , 1992 , 31, 235-41	9.4	275
18	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
17	A proton magnetic resonance spectroscopy study of focal epilepsy in humans. <i>Neurology</i> , 1990 , 40, 985-9	6.5	110
16	Regional cerebral glucose metabolism differs in adult and rigid juvenile forms of Huntington disease. <i>Pediatric Neurology</i> , 1989 , 5, 353-6	2.9	6
15	Myoglobin-dependent oxidative metabolism in the hypoxic rat heart. <i>Respiration Physiology</i> , 1986 , 63, 275-83		27

14	31P-NMR studies of metabolite compartmentation in Fasciola hepatica. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1985 , 845, 178-88	4.9	11
13	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
12	Studies of metabolism in the isolated, perfused rat heart using 13C NMR. <i>FEBS Letters</i> , 1981 , 123, 315-8	3.8	80
11	A 31P NMR STUDY OF SIMULTANEOUS CHANGES IN WORK AND THE PHOSPHATE POTENTIAL IN THE RAT HEART. <i>Biochemical Society Transactions</i> , 1981 , 9, 284P-284P	5.1	
10	Axonal pathology in patients with multiple sclerosis	150-164	1
9	Impact of detecting potentially serious incidental findings during multi-modal imaging. <i>Wellcome Open Research</i> , 2 , 114	4.8	13
8	Impact of detecting potentially serious incidental findings during multi-modal imaging. <i>Wellcome Open Research</i> , 2 , 114	4.8	3
7	Scanning the Horizon: Towards transparent and reproducible neuroimaging research		5
6	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank		6
5	Single nucleus sequencing fails to detect microglial activation in human tissue		8
4	Genomic analysis reveals a functional role for myocardial trabeculae in adults		1
3	Alcohol consumption is associated with structural changes in various organ systems: A population-based study in UK Biobank		1
2	scFlow: A Scalable and Reproducible Analysis Pipeline for Single-Cell RNA Sequencing Data		1
1	Identification of early neurodegenerative pathways in progressive multiple sclerosis. <i>Nature Neuroscience</i> ,	25.5	6