

Gareth Barker

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545
papers

37,854
citations

104
h-index

169
g-index

591
ext. papers

42,420
ext. citations

6.4
avg, IF

6.74
L-index

#	Paper	IF	Citations
545	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
544	Indication of electron neutrino appearance from an accelerator-produced off-axis muon neutrino beam. <i>Physical Review Letters</i> , 2011 , 107, 041801	7.4	946
543	Magnetization transfer ratio and myelin in postmortem multiple sclerosis brain. <i>Annals of Neurology</i> , 2004 , 56, 407-15	9.4	579
542	Spinal cord atrophy and disability in multiple sclerosis. A new reproducible and sensitive MRI method with potential to monitor disease progression. <i>Brain</i> , 1996 , 119 (Pt 3), 701-8	11.2	542
541	Diffusion tensor imaging of lesions and normal-appearing white matter in multiple sclerosis. <i>Neurology</i> , 1999 , 52, 1626-32	6.5	497
540	Serial proton magnetic resonance spectroscopy in acute multiple sclerosis lesions. <i>Brain</i> , 1994 , 117 (Pt 1), 49-58	11.2	475
539	Amygdala hypoactivity to fearful faces in boys with conduct problems and callous-unemotional traits. <i>American Journal of Psychiatry</i> , 2009 , 166, 95-102	11.9	437
538	Detection and modeling of non-Gaussian apparent diffusion coefficient profiles in human brain data. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 331-40	4.4	434
537	The IMAGEN study: reinforcement-related behaviour in normal brain function and psychopathology. <i>Molecular Psychiatry</i> , 2010 , 15, 1128-39	15.1	401
536	PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans. <i>Nature</i> , 2007 , 450, 106-9	50.4	356
535	BRAIN NETWORKS. Correlated gene expression supports synchronous activity in brain networks. <i>Science</i> , 2015 , 348, 1241-4	33.3	355
534	Persistent functional deficit in multiple sclerosis and autosomal dominant cerebellar ataxia is associated with axon loss. <i>Brain</i> , 1995 , 118 (Pt 6), 1583-92	11.2	338
533	Hemispheric asymmetries in language-related pathways: a combined functional MRI and tractography study. <i>NeuroImage</i> , 2006 , 32, 388-99	7.9	333
532	Study design in fMRI: basic principles. <i>Brain and Cognition</i> , 2006 , 60, 220-32	2.7	314
531	Diffusion tensor imaging of post mortem multiple sclerosis brain. <i>NeuroImage</i> , 2007 , 35, 467-77	7.9	306
530	Adolescent impulsivity phenotypes characterized by distinct brain networks. <i>Nature Neuroscience</i> , 2012 , 15, 920-5	25.5	304
529	Observation of electron neutrino appearance in a muon neutrino beam. <i>Physical Review Letters</i> , 2014 , 112, 061802	7.4	303

528	Correlation of magnetization transfer ratio with clinical disability in multiple sclerosis. <i>Annals of Neurology</i> , 1994 , 36, 62-7	9.4	298
527	Neuropsychosocial profiles of current and future adolescent alcohol misusers. <i>Nature</i> , 2014 , 512, 185-9	50.4	296
526	Diffusion tensor imaging can detect and quantify corticospinal tract degeneration after stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 69, 269-72	5.5	295
525	Investigation of MS normal-appearing brain using diffusion tensor MRI with clinical correlations. <i>Neurology</i> , 2001 , 56, 926-33	6.5	286
524	Diffusion tensor imaging in schizophrenia. <i>Biological Psychiatry</i> , 2005 , 58, 921-9	7.9	282
523	Combined functional MRI and tractography to demonstrate the connectivity of the human primary motor cortex in vivo. <i>NeuroImage</i> , 2003 , 19, 1349-60	7.9	277
522	Diffusion tensor imaging in patients with epilepsy and malformations of cortical development. <i>Brain</i> , 2001 , 124, 617-26	11.2	272
521	EEG-triggered functional MRI of interictal epileptiform activity in patients with partial seizures. <i>Brain</i> , 1999 , 122 (Pt 9), 1679-88	11.2	261
520	MRI outcomes in a placebo-controlled trial of natalizumab in relapsing MS. <i>Neurology</i> , 2007 , 68, 1390-401	6.5	260
519	Neuropathological abnormalities of the corpus callosum in schizophrenia: a diffusion tensor imaging study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 68, 242-4	5.5	244
518	Estimating distributed anatomical connectivity using fast marching methods and diffusion tensor imaging. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 505-12	11.7	235
517	The pathogenesis of lesions and normal-appearing white matter changes in multiple sclerosis: a serial diffusion MRI study. <i>Brain</i> , 2000 , 123 (Pt 8), 1667-76	11.2	235
516	High field MRI correlates of myelin content and axonal density in multiple sclerosis--a post-mortem study of the spinal cord. <i>Journal of Neurology</i> , 2003 , 250, 1293-301	5.5	224
515	Investigating cervical spinal cord structure using axial diffusion tensor imaging. <i>NeuroImage</i> , 2002 , 16, 93-102	7.9	224
514	Size matters: increased grey matter in boys with conduct problems and callous-unemotional traits. <i>Brain</i> , 2009 , 132, 843-52	11.2	221
513	The effect of interferon beta-1b treatment on MRI measures of cerebral atrophy in secondary progressive multiple sclerosis. European Study Group on Interferon beta-1b in secondary progressive multiple sclerosis. <i>Brain</i> , 2000 , 123 (Pt 11), 2256-63	11.2	214
512	Quantitative magnetic resonance of postmortem multiple sclerosis brain before and after fixation. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 268-77	4.4	213
511	Ketamine effects on brain GABA and glutamate levels with 1H-MRS: relationship to ketamine-induced psychopathology. <i>Molecular Psychiatry</i> , 2012 , 17, 664-5	15.1	209

510	A diffusion tensor imaging study of fasciculi in schizophrenia. <i>American Journal of Psychiatry</i> , 2007 , 164, 467-73	11.9	208
509	Diffusion tensor imaging of cryptogenic and acquired partial epilepsies. <i>Brain</i> , 2001 , 124, 627-36	11.2	205
508	Test liquids for quantitative MRI measurements of self-diffusion coefficient in vivo. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 368-74	4.4	202
507	Early specialization for voice and emotion processing in the infant brain. <i>Current Biology</i> , 2011 , 21, 1220-43	4.3	199
506	Spinal cord atrophy and disability in MS: a longitudinal study. <i>Neurology</i> , 1998 , 51, 234-8	6.5	198
505	Quantitative magnetization transfer imaging in postmortem multiple sclerosis brain. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 41-51	5.6	196
504	Sources of intensity nonuniformity in spin echo images at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 121-8	4.4	196
503	Optimal imaging parameters for fiber-orientation estimation in diffusion MRI. <i>NeuroImage</i> , 2005 , 27, 357-67	7.9	191
502	Identical, but not the same: intra-site and inter-site reproducibility of fractional anisotropy measures on two 3.0T scanners. <i>NeuroImage</i> , 2010 , 51, 1384-94	7.9	189
501	Quantitative MRI in patients with secondary progressive MS treated with monoclonal antibody Campath 1H. <i>Neurology</i> , 1999 , 53, 751-7	6.5	186
500	Glutamate dysfunction in people with prodromal symptoms of psychosis: relationship to gray matter volume. <i>Biological Psychiatry</i> , 2009 , 66, 533-9	7.9	185
499	Precise estimate of fundamental in-vivo MT parameters in human brain in clinically feasible times. <i>Magnetic Resonance Imaging</i> , 2002 , 20, 721-31	3.3	183
498	From diffusion tractography to quantitative white matter tract measures: a reproducibility study. <i>NeuroImage</i> , 2003 , 18, 348-59	7.9	174
497	Quantification of MRI lesion load in multiple sclerosis: a comparison of three computer-assisted techniques. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 495-505	3.3	169
496	Apparent diffusion coefficients in benign and secondary progressive multiple sclerosis by nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 393-400	4.4	166
495	The proton NMR spectrum in acute EAE: the significance of the change in the Cho:Cr ratio. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 737-45	4.4	164
494	¹ H magnetic resonance spectroscopy of chronic cerebral white matter lesions and normal appearing white matter in multiple sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1997 , 63, 736-42	5.5	161
493	Motor system hyperconnectivity in juvenile myoclonic epilepsy: a cognitive functional magnetic resonance imaging study. <i>Brain</i> , 2011 , 134, 1710-9	11.2	159

492	Colicin E1 binding to membranes: time-resolved studies of spin-labeled mutants. <i>Science</i> , 1993 , 259, 960-3,3	3.3	159
491	Alterations in white matter evident before the onset of psychosis. <i>Schizophrenia Bulletin</i> , 2012 , 38, 1170-9	3.3	158
490	Initial demonstration of in vivo tracing of axonal projections in the macaque brain and comparison with the human brain using diffusion tensor imaging and fast marching tractography. <i>NeuroImage</i> , 2002 , 15, 797-809	7.9	154
489	Differentiation of multiple system atrophy from idiopathic Parkinson disease using proton magnetic resonance spectroscopy. <i>Annals of Neurology</i> , 1995 , 37, 204-10	9.4	154
488	Constraint on the matter-antimatter symmetry-violating phase in neutrino oscillations. <i>Nature</i> , 2020 , 580, 339-344	50.4	148
487	A study of the mechanisms of normal-appearing white matter damage in multiple sclerosis using diffusion tensor imaging--evidence of Wallerian degeneration. <i>Journal of Neurology</i> , 2003 , 250, 287-92	5.5	147
486	Gender differences in white matter microstructure. <i>PLoS ONE</i> , 2012 , 7, e38272	3.7	145
485	Abnormalities of language networks in temporal lobe epilepsy. <i>NeuroImage</i> , 2007 , 36, 209-21	7.9	143
484	White matter microstructural impairments and genetic liability to familial bipolar I disorder. <i>British Journal of Psychiatry</i> , 2009 , 194, 527-34	5.4	142
483	Diffusion tensor imaging detects corticospinal tract involvement at multiple levels in amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003 , 74, 1250-7	5.5	142
482	Effect of interferon-beta1b on magnetic resonance imaging outcomes in secondary progressive multiple sclerosis: results of a European multicenter, randomized, double-blind, placebo-controlled trial. European Study Group on Interferon-beta1b in secondary progressive multiple sclerosis. <i>Annals of Neurology</i> , 1999 , 46, 850-9	9.4	138
481	Precise measurement of the neutrino mixing parameter θ_{13} from muon neutrino disappearance in an off-axis beam. <i>Physical Review Letters</i> , 2014 , 112, 181801	7.4	137
480	Optic nerve diffusion tensor imaging in optic neuritis. <i>NeuroImage</i> , 2006 , 30, 498-505	7.9	137
479	Recovery from optic neuritis is associated with a change in the distribution of cerebral response to visual stimulation: a functional magnetic resonance imaging study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 68, 441-9	5.5	135
478	Investigating regional white matter in schizophrenia using diffusion tensor imaging. <i>NeuroReport</i> , 2002 , 13, 333-6	1.7	134
477	Tract-specific anisotropy measurements in diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006 , 146, 73-82	2.9	132
476	Reduced anisotropy of water diffusion in structural cerebral abnormalities demonstrated with diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 1269-74	3.3	132
475	A diffusion tensor imaging study of white matter in early-onset schizophrenia. <i>Biological Psychiatry</i> , 2008 , 63, 519-23	7.9	131

474	Anterior cingulate glutamate levels related to clinical status following treatment in first-episode schizophrenia. <i>Neuropsychopharmacology</i> , 2012 , 37, 2515-21	8.7	130
473	MRI dynamics of brain and spinal cord in progressive multiple sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1996 , 60, 15-9	5.5	130
472	Focal structural changes and cognitive dysfunction in juvenile myoclonic epilepsy. <i>Neurology</i> , 2011 , 76, 34-40	6.5	129
471	T2K neutrino flux prediction. <i>Physical Review D</i> , 2013 , 87,	4.9	128
470	Quantitative analysis of short echo time (1)H-MRSI of cerebral gray and white matter. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 401-11	4.4	128
469	Correction of intensity nonuniformity in MR images of any orientation. <i>Magnetic Resonance Imaging</i> , 1993 , 11, 183-96	3.3	126
468	Risk taking and the adolescent reward system: a potential common link to substance abuse. <i>American Journal of Psychiatry</i> , 2012 , 169, 39-46	11.9	123
467	Measuring brain stem and cerebellar damage in parkinsonian syndromes using diffusion tensor MRI. <i>Neurology</i> , 2006 , 67, 2199-205	6.5	122
466	Neuropathological abnormalities in schizophrenia: evidence from magnetization transfer imaging. <i>Brain</i> , 2001 , 124, 882-92	11.2	121
465	Regional changes in hippocampal T2 relaxation and volume: a quantitative magnetic resonance imaging study of hippocampal sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1998 , 65, 656-64	5.5	121
464	Preliminary evidence for neuronal damage in cortical grey matter and normal appearing white matter in short duration relapsing-remitting multiple sclerosis: a quantitative MR spectroscopic imaging study. <i>Journal of Neurology</i> , 2001 , 248, 131-8	5.5	120
463	Comparison of multiple sclerosis clinical subgroups using navigated spin echo diffusion-weighted imaging. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 653-61	3.3	119
462	Short echo time single-voxel 1H magnetic resonance spectroscopy in magnetic resonance imaging-negative temporal lobe epilepsy: different biochemical profile compared with hippocampal sclerosis. <i>Annals of Neurology</i> , 1999 , 45, 369-76	9.4	119
461	1H magnetic resonance spectroscopy of normal appearing white matter in primary progressive multiple sclerosis. <i>Journal of Neurology</i> , 1999 , 246, 1023-6	5.5	118
460	White matter integrity and cognitive impairment in first-episode psychosis. <i>American Journal of Psychiatry</i> , 2010 , 167, 451-8	11.9	117
459	Sensitivity of contrast enhanced MRI in multiple sclerosis. Effects of gadolinium dose, magnetization transfer contrast and delayed imaging. <i>Brain</i> , 1997 , 120 (Pt 7), 1149-61	11.2	116
458	Water diffusion in the human hippocampus in epilepsy. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 29-36	3.3	116
457	The neural basis of video gaming. <i>Translational Psychiatry</i> , 2011 , 1, e53	8.6	114

456	ADC mapping of the human optic nerve: increased resolution, coverage, and reliability with CSF-suppressed ZOOM-EPI. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 24-31	4.4	113
455	Diffusion tensor imaging in schizophrenia. <i>European Psychiatry</i> , 2008 , 23, 255-73	6	112
454	Effect of natalizumab on conversion of gadolinium enhancing lesions to T1 hypointense lesions in relapsing multiple sclerosis. <i>Journal of Neurology</i> , 2004 , 251, 407-13	5.5	112
453	Abnormal thalamocortical structural and functional connectivity in juvenile myoclonic epilepsy. <i>Brain</i> , 2012 , 135, 3635-44	11.2	111
452	Glutamate and GABA in autism spectrum disorder-a translational magnetic resonance spectroscopy study in man and rodent models. <i>Translational Psychiatry</i> , 2018 , 8, 106	8.6	111
451	Altered microstructural connectivity in juvenile myoclonic epilepsy: the missing link. <i>Neurology</i> , 2012 , 78, 1555-9	6.5	110
450	Progressive grey matter atrophy in clinically early relapsing-remitting multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2004 , 10, 387-91	5	110
449	Physics potential of a long-baseline neutrino oscillation experiment using a J-PARC neutrino beam and Hyper-Kamiokande. <i>Progress of Theoretical and Experimental Physics</i> , 2015 , 2015, 53C02-0	5.4	109
448	Diffusion tractography based group mapping of major white-matter pathways in the human brain. <i>NeuroImage</i> , 2003 , 19, 1545-55	7.9	109
447	Altered relationship between hippocampal glutamate levels and striatal dopamine function in subjects at ultra high risk of psychosis. <i>Biological Psychiatry</i> , 2010 , 68, 599-602	7.9	107
446	A serial MRI study following optic nerve mean area in acute optic neuritis. <i>Brain</i> , 2004 , 127, 2498-505	11.2	107
445	Thalamic glutamate levels as a predictor of cortical response during executive functioning in subjects at high risk for psychosis. <i>Archives of General Psychiatry</i> , 2011 , 68, 881-90		106
444	Diffusion tensor imaging demonstrates deviation of fibres in normal appearing white matter adjacent to a brain tumour. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 68, 501-3	5.5	106
443	MR tractography predicts visual field defects following temporal lobe resection. <i>Neurology</i> , 2005 , 65, 596-9	6.5	105
442	White matter and cognition in adults who were born preterm. <i>PLoS ONE</i> , 2011 , 6, e24525	3.7	104
441	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. <i>Physical Review Letters</i> , 2017 , 118, 151801	7.4	103
440	Determinants of early alcohol use in healthy adolescents: the differential contribution of neuroimaging and psychological factors. <i>Neuropsychopharmacology</i> , 2012 , 37, 986-95	8.7	103
439	White matter tracts in first-episode psychosis: a DTI tractography study of the uncinate fasciculus. <i>NeuroImage</i> , 2008 , 39, 949-55	7.9	103

438	Diffusion imaging shows abnormalities after blunt head trauma when conventional magnetic resonance imaging is normal. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2001 , 70, 530-3	5.5	103
437	Noninvasive in vivo demonstration of the connections of the human parahippocampal gyrus. <i>NeuroImage</i> , 2004 , 22, 740-7	7.9	102
436	Limbic and callosal white matter changes in euthymic bipolar I disorder: an advanced diffusion magnetic resonance imaging tractography study. <i>Biological Psychiatry</i> , 2013 , 73, 194-201	7.9	101
435	Abnormal brain connectivity in first-episode psychosis: a diffusion MRI tractography study of the corpus callosum. <i>NeuroImage</i> , 2007 , 35, 458-66	7.9	101
434	Nonlinear smoothing for reduction of systematic and random errors in diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 702-10	5.6	101
433	Evidence of electron neutrino appearance in a muon neutrino beam. <i>Physical Review D</i> , 2013 , 88,	4.9	100
432	White matter microstructural abnormalities in the frontal lobe of adults with antisocial personality disorder. <i>Cortex</i> , 2012 , 48, 216-29	3.8	98
431	Magnetic resonance diffusion imaging of the human cervical spinal cord in vivo. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1269-73	4.4	98
430	Accurate multislice gradient echo T(1) measurement in the presence of non-ideal RF pulse shape and RF field nonuniformity. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 838-45	4.4	97
429	Quantitative magnetization transfer mapping of bound protons in multiple sclerosis. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 83-91	4.4	96
428	Search for CP Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with 2.2 $\times 10^{21}$ Protons on Target. <i>Physical Review Letters</i> , 2018 , 121, 171802	7.4	96
427	Magnetization transfer histograms in clinically isolated syndromes suggestive of multiple sclerosis. <i>Brain</i> , 2005 , 128, 2911-25	11.2	94
426	Gray and white matter brain abnormalities in first-episode schizophrenia inferred from magnetization transfer imaging. <i>Archives of General Psychiatry</i> , 2003 , 60, 779-88		94
425	Variations in T1 and T2 relaxation times of normal appearing white matter and lesions in multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 2000 , 178, 81-7	3.2	94
424	Serial magnetization transfer imaging in acute optic neuritis. <i>Brain</i> , 2004 , 127, 692-700	11.2	93
423	A study of bipolar disorder using magnetization transfer imaging and voxel-based morphometry. <i>Brain</i> , 2004 , 127, 2433-40	11.2	92
422	Proton MRS reveals frontal lobe metabolite abnormalities in idiopathic generalized epilepsy. <i>Neurology</i> , 2003 , 61, 897-902	6.5	92
421	The structural and functional mechanisms of motor recovery: complementary use of diffusion tensor and functional magnetic resonance imaging in a traumatic injury of the internal capsule. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1998 , 65, 863-9	5.5	92

4 ²⁰	Serial magnetization transfer imaging to characterize the early evolution of new MS lesions. <i>Neurology</i> , 1998 , 51, 758-64	6.5	92
4 ¹⁹	A multicenter measurement of magnetization transfer ratio in normal white matter. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 441-6	5.6	89
4 ¹⁸	Proton magnetic resonance spectroscopy: an in vivo method of estimating hippocampal neuronal depletion in schizophrenia. <i>Psychological Medicine</i> , 1995 , 25, 1201-9	6.9	89
4 ¹⁷	White matter microstructure in schizophrenia: effects of disorder, duration and medication. <i>British Journal of Psychiatry</i> , 2009 , 194, 236-42	5.4	88
4 ¹⁶	Search for doubly charged Higgs bosons decaying to dileptons in pp collisions at square root of $s=1.96$ TeV. <i>Physical Review Letters</i> , 2004 , 93, 221802	7.4	88
4 ¹⁵	Magnetisation transfer ratios and transverse magnetisation decay curves in optic neuritis: correlation with clinical findings and electrophysiology. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1995 , 59, 487-92	5.5	88
4 ¹⁴	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017 , 11, 1497-1514	4.1	87
4 ¹³	Adaptive cortical plasticity in higher visual areas after acute optic neuritis. <i>Annals of Neurology</i> , 2005 , 57, 622-33	9.4	87
4 ¹²	Lesion heterogeneity in multiple sclerosis: a study of the relations between appearances on T1 weighted images, T1 relaxation times, and metabolite concentrations. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 68, 627-32	5.5	87
4 ¹¹	Reduced subcortical glutamate/glutamine in adults with autism spectrum disorders: a $[^1H]$ MRS study. <i>Translational Psychiatry</i> , 2013 , 3, e279	8.6	85
4 ¹⁰	Diffusion tensor imaging in refractory epilepsy. <i>Lancet, The</i> , 2002 , 359, 1748-51	4.0	85
4 ⁰⁹	An interleaved sequence for accurate and reproducible clinical measurement of magnetization transfer ratio. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 403-11	3.3	85
4 ⁰⁸	Restraint of appetite and reduced regional brain volumes in anorexia nervosa: a voxel-based morphometric study. <i>BMC Psychiatry</i> , 2011 , 11, 179	4.2	84
4 ⁰⁷	White matter defects in first episode psychosis patients: a voxelwise analysis of diffusion tensor imaging. <i>NeuroImage</i> , 2010 , 49, 199-204	7.9	83
4 ⁰⁶	In vivo investigation of white matter pathology in schizophrenia with magnetisation transfer imaging. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2000 , 68, 70-4	5.5	83
4 ⁰⁵	Detection of optic nerve atrophy following a single episode of unilateral optic neuritis by MRI using a fat-saturated short-echo fast FLAIR sequence. <i>Neuroradiology</i> , 2001 , 43, 123-8	3.2	83
4 ⁰⁴	Proton magnetic resonance spectroscopy in Steele-Richardson-Olszewski syndrome. <i>Movement Disorders</i> , 1997 , 12, 767-71	7	80
4 ⁰³	Proton MR spectroscopy in clinically isolated syndromes suggestive of multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 1999 , 166, 16-22	3.2	80

402	Neural and cognitive correlates of the common and specific variance across externalizing problems in young adolescence. <i>American Journal of Psychiatry</i> , 2014 , 171, 1310-9	11.9	79
401	O5.6. REMISSION FROM ANTIPSYCHOTIC TREATMENT IN FIRST EPISODE PSYCHOSIS RELATED TO LONGITUDINAL CHANGES IN BRAIN GLUTAMATE LEVELS. <i>Schizophrenia Bulletin</i> , 2019 , 45, S175-S175	1.3	78
400	T150. REAL-TIME FMRI NEUROFEEDBACK TO DOWN-REGULATE SUPERIOR TEMPORAL GYRUS ACTIVITY IN PATIENTS WITH SCHIZOPHRENIA AND AUDITORY HALLUCINATIONS: A PROOF-OF-CONCEPT STUDY. <i>Schizophrenia Bulletin</i> , 2018 , 44, S174-S174	1.3	78
399	Measurement of bottom-quark hadron masses in exclusive J/psi decays with the CDF detector. <i>Physical Review Letters</i> , 2006 , 96, 202001	7.4	78
398	A chemical shift selective inversion recovery sequence for fat-suppressed MRI: theory and experimental validation. <i>Magnetic Resonance Imaging</i> , 1993 , 11, 341-55	3.3	78
397	Optic nerve diffusion measurement from diffusion-weighted imaging in optic neuritis. <i>American Journal of Neuroradiology</i> , 2005 , 26, 951-6	4.4	78
396	T19. GLUTAMATE AND RESPONSE TO CLOZAPINE IN TREATMENT RESISTANT SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2020 , 46, S238-S238	1.3	78
395	O6.2. NEUROBIOLOGY OF PSYCHOMETRIC SCHIZOTYPY: INSIGHTS FROM MULTIMODAL IMAGING RESEARCH. <i>Schizophrenia Bulletin</i> , 2018 , 44, S89-S90	1.3	78
394	O3.7. EFFECT OF N-ACETYLCYSTEINE ON BRAIN GLUTAMATE LEVELS AND RESTING PERFUSION IN SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018 , 44, S81-S82	1.3	78
393	CSF1R inhibitor JNJ-40346527 attenuates microglial proliferation and neurodegeneration in P301S mice. <i>Brain</i> , 2019 , 142, 3243-3264	11.2	77
392	Technique for measuring hippocampal T2 relaxation time. <i>American Journal of Neuroradiology</i> , 1996 , 17, 1805-10	4.4	77
391	Magnetisation transfer ratio of normal brain white matter: a normative database spanning four decades of life. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1997 , 62, 223-8	5.5	76
390	Tractography of the parahippocampal gyrus and material specific memory impairment in unilateral temporal lobe epilepsy. <i>NeuroImage</i> , 2008 , 40, 1755-64	7.9	76
389	Disability in multiple sclerosis is related to normal appearing brain tissue MTR histogram abnormalities. <i>Multiple Sclerosis Journal</i> , 2003 , 9, 566-73	5	76
388	MRI of the optic nerve in benign intracranial hypertension. <i>Neuroradiology</i> , 1996 , 38, 769-73	3.2	76
387	Cortical thickness of superior frontal cortex predicts impulsiveness and perceptual reasoning in adolescence. <i>Molecular Psychiatry</i> , 2013 , 18, 624-30	15.1	75
386	Inflammatory biomarkers in Alzheimer's disease plasma. <i>Alzheimer's and Dementia</i> , 2019 , 15, 776-787	1.2	74
385	Mapping the brain in younger and older asymptomatic HIV-1 men: frontal volume changes in the absence of other cortical or diffusion tensor abnormalities. <i>Cortex</i> , 2012 , 48, 230-41	3.8	74

384	Normal-appearing brain tissue MTR histograms in clinically isolated syndromes suggestive of MS. <i>Neurology</i> , 2002 , 59, 126-8	6.5	73
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