# Gareth Barker

List of Publications by Year
in descending order

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| | | | |
|---|---|---|---|
| 562 papers | 45,852 citations | 1099 112 h-index | 3407 183 g-index |
| 593 all docs | 593 docs citations | 593 times ranked | 34966 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. Nature Neuroscience, 2003, 6, 750-757. | 14.8 | 2,131 |
| 2 | Indication of Electron Neutrino Appearance from an Accelerator-Produced Off-Axis Muon Neutrino Beam. Physical Review Letters, 2011, 107, 041801. | 7.8 | 1,054 |
| 3 | Magnetization transfer ratio and myelin in postmortem multiple sclerosis brain. Annals of Neurology, 2004, 56, 407-415. | 5.3 | 678 |
| 4 | Spinal cord atrophy and disability in multiple sclerosis. Brain, 1996, 119, 701-708. | 7.6 | 605 |
| 5 | Diffusion tensor imaging of lesions and normal-appearing white matter in multiple sclerosis. Neurology, 1999, 52, 1626-1626. | 1.1 | 566 |
| 6 | The IMAGEN study: reinforcement-related behaviour in normal brain function and psychopathology. Molecular Psychiatry, 2010, 15, 1128-1139. | 7.9 | 539 |
| 7 | Correlated gene expression supports synchronous activity in brain networks. Science, 2015, 348, 1241-1244. | 12.6 | 532 |
| 8 | Serial proton magnetic resonance spectroscopy in acute multiple sclerosis lesions. Brain, 1994, 117, 49-58. | 7.6 | 521 |
| 9 | Amygdala Hypoactivity to Fearful Faces in Boys With Conduct Problems and Callous-Unemotional Traits. American Journal of Psychiatry, 2009, 166, 95-102. | 7.2 | 517 |
| 10 | Detection and modeling of nonâ€Gaussian apparent diffusion coefficient profiles in human brain data. Magnetic Resonance in Medicine, 2002, 48, 331-340. | 3.0 | 498 |
| 11 | PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans. Nature, 2007, 450, 106-109. | 27.8 | 413 |
| 12 | Study design in fMRI: Basic principles. Brain and Cognition, 2006, 60, 220-232. | 1.8 | 396 |
| 13 | Persistent functional deficit in multiple sclerosis and autosomal dominant cerebellar ataxia is associated with axon loss. Brain, 1995, 118, 1583-1592. | 7.6 | 395 |
| 14 | Hemispheric asymmetries in language-related pathways: A combined functional MRI and tractography study. NeuroImage, 2006, 32, 388-399. | 4.2 | 373 |
| 15 | Observation of Electron Neutrino Appearance in a Muon Neutrino Beam. Physical Review Letters, 2014, 112, 061802. | 7.8 | 369 |
| 16 | Adolescent impulsivity phenotypes characterized by distinct brain networks. Nature Neuroscience, 2012, 15, 920-925. | 14.8 | 368 |
| 17 | Neuropsychosocial profiles of current and future adolescent alcohol misusers. Nature, 2014, 512, 185-189. | 27.8 | 368 |
| 18 | Diffusion tensor imaging can detect and quantify corticospinal tract degeneration after stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 69, 269-272. | 1.9 | 357 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Diffusion tensor imaging of post mortem multiple sclerosis brain. NeuroImage, 2007, 35, 467-477. | 4.2 | 347 |
| 20 | Correlation of magnetization transfer ration with clinical disability in multiple sclerosis. Annals of Neurology, 1994, 36, 62-67. | 5.3 | 335 |
| 21 | Combined functional MRI and tractography to demonstrate the connectivity of the human primary motor cortex in vivo. NeuroImage, 2003, 19, 1349-1360. | 4.2 | 319 |
| 22 | Investigation of MS normal-appearing brain using diffusion tensor MRI with clinical correlations. Neurology, 2001, 56, 926-933. | 1.1 | 317 |
| 23 | Constraint on the matterâ€“antimatter symmetry-violating phase in neutrino oscillations. Nature, 2020, 580, 339-344. | 27.8 | 313 |
| 24 | MRI outcomes in a placebo-controlled trial of natalizumab in relapsing MS. Neurology, 2007, 68, 1390-1401. | 1.1 | 307 |
| 25 | Diffusion tensor imaging in patients with epilepsy and malformations of cortical development. Brain, 2001, 124, 617-626. | 7.6 | 306 |
| 26 | Diffusion Tensor Imaging in Schizophrenia. Biological Psychiatry, 2005, 58, 921-929. | 1.3 | 305 |
| 27 | EEG-triggered functional MRI of interictal epileptiform activity in patients with partial seizures. Brain, 1999, 122, 1679-1688. | 7.6 | 296 |
| 28 | Neuropathological abnormalities of the corpus callosum in schizophrenia: a diffusion tensor imaging study. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 68, 242-244. | 1.9 | 287 |
| 29 | The pathogenesis of lesions and normal-appearing white matter changes in multiple sclerosis: A serial diffusion MRI study. Brain, 2000, 123, 1667-1676. | 7.6 | 286 |
| 30 | Size matters: Increased grey matter in boys with conduct problems and callousâ€“unemotional traits. Brain, 2009, 132, 843-852. | 7.6 | 271 |
| 31 | Estimating distributed anatomical connectivity using fast marching methods and diffusion tensor imaging. IEEE Transactions on Medical Imaging, 2002, 21, 505-512. | 8.9 | 270 |
| 32 | High field MRI correlates of myelin content and axonal density in multiple sclerosis. Journal of Neurology, 2003, 250, 1293-1301. | 3.6 | 266 |
| 33 | Ketamine effects on brain GABA and glutamate levels with 1H-MRS: relationship to ketamine-induced psychopathology. Molecular Psychiatry, 2012, 17, 664-665. | 7.9 | 260 |
| 34 | Quantitative magnetic resonance of postmortem multiple sclerosis brain before and after fixation. Magnetic Resonance in Medicine, 2008, 59, 268-277. | 3.0 | 255 |
| 35 | Identical, but not the same: Intra-site and inter-site reproducibility of fractional anisotropy measures on two 3.0T scanners. NeuroImage, 2010, 51, 1384-1394. | 4.2 | 252 |
| 36 | The effect of interferon beta-1b treatment on MRI measures of cerebral atrophy in secondary progressive multiple sclerosis. Brain, 2000, 123, 2256-2263. | 7.6 | 242 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Quantitative magnetization transfer imaging in postmortem multiple sclerosis brain. Journal of Magnetic Resonance Imaging, 2007, 26, 41-51. | 3.4 | 241 |
| 38 | Investigating Cervical Spinal Cord Structure Using Axial Diffusion Tensor Imaging. NeuroImage, 2002, 16, 93-102. | 4.2 | 240 |
| 39 | Sources of intensity nonuniformity in spin echo images at 1.5 T. Magnetic Resonance in Medicine, 1994, 32, 121-128. | 3.0 | 239 |
| 40 | Test liquids for quantitative MRI measurements of self-diffusion coefficient in vivo. Magnetic Resonance in Medicine, 2000, 43, 368-374. | 3.0 | 236 |
| 41 | Diffusion tensor imaging of cryptogenic and acquired partial epilepsies. Brain, 2001, 124, 627-636. | 7.6 | 235 |
| 42 | Early Specialization for Voice and Emotion Processing in the Infant Brain. Current Biology, 2011, 21, 1220-1224. | 3.9 | 233 |
| 43 | Optimal imaging parameters for fiber-orientation estimation in diffusion MRI. NeuroImage, 2005, 27, 357-367. | 4.2 | 226 |
| 44 | A Diffusion Tensor Imaging Study of Fasciculi in Schizophrenia. American Journal of Psychiatry, 2007, 164, 467-473. | 7.2 | 223 |
| 45 | From diffusion tractography to quantitative white matter tract measures: a reproducibility study. NeuroImage, 2003, 18, 348-359. | 4.2 | 219 |
| 46 | Quantitative MRI in patients with secondary progressive MS treated with monoclonal antibody Campath 1H. Neurology, 1999, 53, 751-751. | 1.1 | 218 |
| 47 | Spinal cord atrophy and disability in MS. Neurology, 1998, 51, 234-238. | 1.1 | 217 |
| 48 | Glutamate and GABA in autism spectrum disorderâ€"a translational magnetic resonance spectroscopy study in man and rodent models. Translational Psychiatry, 2018, 8, 106. | 4.8 | 212 |
| 49 | Glutamate Dysfunction in People with Prodromal Symptoms of Psychosis: Relationship to Gray Matter Volume. Biological Psychiatry, 2009, 66, 533-539. | 1.3 | 210 |
| 50 | Precise estimate of fundamental in-vivo MT parameters in human brain in clinically feasible times. Magnetic Resonance Imaging, 2002, 20, 721-731. | 1.8 | 208 |
| 51 | 1H magnetic resonance spectroscopy of chronic cerebral white matter lesions and normal appearing white matter in multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 1997, 63, 736-742. | 1.9 | 206 |
| 52 | Quantification of MRI lesion load in multiple sclerosis: A comparison of three computer-assisted techniques. Magnetic Resonance Imaging, 1996, 14, 495-505. | 1.8 | 198 |
| 53 | Motor system hyperconnectivity in juvenile myoclonic epilepsy: a cognitive functional magnetic resonance imaging study. Brain, 2011, 134, 1710-1719. | 7.6 | 192 |
| 54 | The proton NMR spectrum in acute EAE: The significance of the change in the Cho:Cr ratio. Magnetic Resonance in Medicine, 1993, 29, 737-745. | 3.0 | 187 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Recovery from optic neuritis is associated with a change in the distribution of cerebral response to visual stimulation: a functional magnetic resonance imaging study. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 68, 441-449. | 1.9 | 186 |
| 56 | Alterations in White Matter Evident Before the Onset of Psychosis. Schizophrenia Bulletin, 2012, 38, 1170-1179. | 4.3 | 186 |
| 57 | Apparent diffusion coefficients in benign and secondary progressive multiple sclerosis by nuclear magnetic resonance. Magnetic Resonance in Medicine, 1996, 36, 393-400. | 3.0 | 176 |
| 58 | Colicin E1 binding to membranes: time-resolved studies of spin-labeled mutants. Science, 1993, 259, 960-963. | 12.6 | 173 |
| 59 | MRI dynamics of brain and spinal cord in progressive multiple sclerosis.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 60, 15-19. | 1.9 | 173 |
| 60 | Differentiation of multiple system atrophy from idiopathic Parkinson's disease using proton magnetic resonance spectroscopy. Annals of Neurology, 1995, 37, 204-210. | 5.3 | 171 |
| 61 | 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. NeuroImage, 2002, 15, 797-809. | 4.2 | 171 |
| 62 | Effect of Convalescent Plasma on Organ Supportâ€“Free Days in Critically Ill Patients With COVID-19. JAMA - Journal of the American Medical Association, 2021, 326, 1690. | 7.4 | 169 |
| 63 | Precise Measurement of the Neutrino Mixing Parameterî¸23from Muon Neutrino Disappearance in an Off-Axis Beam. Physical Review Letters, 2014, 112, 181801. | 7.8 | 168 |
| 64 | Gender Differences in White Matter Microstructure. PLoS ONE, 2012, 7, e38272. | 2.5 | 167 |
| 65 | Diffusion tensor imaging detects corticospinal tract involvement at multiple levels in amyotrophic lateral sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2003, 74, 1250-1257. | 1.9 | 165 |
| 66 | T2K neutrino flux prediction. Physical Review D, 2013, 87, . | 4.7 | 165 |
| 67 | Search for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math> Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2.2</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>21</mml:mn></mml:msup> Protons on Target. Physical Review Letters, 2018, 121, 171802. | 7.8 | 165 |
| 68 | A study of the mechanisms of normal-appearing white matter damage in multiple sclerosis using diffusion tensor imaging. Journal of Neurology, 2003, 250, 287-292. | 3.6 | 161 |
| 69 | Abnormal thalamocortical structural and functional connectivity in juvenile myoclonic epilepsy. Brain, 2012, 135, 3635-3644. | 7.6 | 159 |
| 70 | Abnormalities of language networks in temporal lobe epilepsy. NeuroImage, 2007, 36, 209-221. | 4.2 | 157 |
| 71 | White matter microstructural impairments and genetic liability to familial bipolar I disorder. British Journal of Psychiatry, 2009, 194, 527-534. | 2.8 | 157 |
| 72 | Focal structural changes and cognitive dysfunction in juvenile myoclonic epilepsy. Neurology, 2011, 76, 34-40. | 1.1 | 157 |

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|---|---|---|---|
| 73 | Anterior Cingulate Glutamate Levels Related to Clinical Status Following Treatment in First-Episode Schizophrenia. Neuropsychopharmacology, 2012, 37, 2515-2521. | 5.4 | 157 |
| 74 | Physics potential of a long-baseline neutrino oscillation experiment using a J-PARC neutrino beam and Hyper-Kamiokande. Progress of Theoretical and Experimental Physics, 2015, 2015, 53C02-0. | 6.6 | 157 |
| 75 | CSF1R inhibitor JNJ-40346527 attenuates microglial proliferation and neurodegeneration in P301S mice. Brain, 2019, 142, 3243-3264. | 7.6 | 156 |
| 76 | Effect of interferon-?1b on magnetic resonance imaging outcomes in secondary progressive multiple sclerosis: Results of a European multicenter, randomized, double-blind, placebo-controlled trial. Annals of Neurology, 1999, 46, 850-859. | 5.3 | 155 |
| 77 | Sensitivity of contrast enhanced MRI in multiple sclerosis. Effects of gadolinium dose, magnetization transfer contrast and delayed imaging. Brain, 1997, 120, 1149-1161. | 7.6 | 152 |
| 78 | Optic nerve diffusion tensor imaging in optic neuritis. NeuroImage, 2006, 30, 498-505. | 4.2 | 151 |
| 79 | Correction of intensity nonuniformity in MR images of any orientation. Magnetic Resonance Imaging, 1993, 11, 183-196. | 1.8 | 150 |
| 80 | Neuropathological abnormalities in schizophrenia: evidence from magnetization transfer imaging. Brain, 2001, 124, 882-892. | 7.6 | 149 |
| 81 | Tract-specific anisotropy measurements in diffusion tensor imaging. Psychiatry Research - Neuroimaging, 2006, 146, 73-82. | 1.8 | 148 |
| 82 | Regional changes in hippocampal T2 relaxation and volume: a quantitative magnetic resonance imaging study of hippocampal sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 1998, 65, 656-664. | 1.9 | 147 |
| 83 | Investigating regional white matter in schizophrenia using diffusion tensor imaging. NeuroReport, 2002, 13, 333-336. | 1.2 | 147 |
| 84 | Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801. | 7.8 | 146 |
| 85 | Quantitative analysis of short echo time1H-MRSI of cerebral gray and white matter. Magnetic Resonance in Medicine, 2000, 44, 401-411. | 3.0 | 145 |
| 86 | Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. Brain Imaging and Behavior, 2017, 11, 1497-1514. | 2.1 | 144 |
| 87 | Reduced anisotropy of water diffusion in structural cerebral abnormalities demonstrated with diffusion tensor imaging. Magnetic Resonance Imaging, 1999, 17, 1269-1274. | 1.8 | 141 |
| 88 | A Diffusion Tensor Imaging Study of White Matter in Early-Onset Schizophrenia. Biological Psychiatry, 2008, 63, 519-523. | 1.3 | 141 |
| 89 | The neural basis of video gaming. Translational Psychiatry, 2011, 1, e53-e53. | 4.8 | 141 |
| 90 | Diffusion tensor imaging in schizophrenia. European Psychiatry, 2008, 23, 255-273. | 0.2 | 139 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Altered microstructural connectivity in juvenile myoclonic epilepsy. Neurology, 2012, 78, 1555-1559. | 1.1 | 138 |
| 92 | Risk Taking and the Adolescent Reward System: A Potential Common Link to Substance Abuse. American Journal of Psychiatry, 2012, 169, 39-46. | 7.2 | 138 |
| 93 | Measuring brain stem and cerebellar damage in parkinsonian syndromes using diffusion tensor MRI. Neurology, 2006, 67, 2199-2205. | 1.1 | 137 |
| 94 | 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. Journal of Neurology, 2001, 248, 131-138. | 3.6 | 136 |
| 95 | Comparison of multiple sclerosis clinical subgroups using navigated spin echo diffusion-weighted imaging. Magnetic Resonance Imaging, 1999, 17, 653-661. | 1.8 | 134 |
| 96 | Diffusion imaging shows abnormalities after blunt head trauma when conventional magnetic resonance imaging is normal. Journal of Neurology, Neurosurgery and Psychiatry, 2001, 70, 530-533. | 1.9 | 134 |
| 97 | Inflammatory biomarkers in Alzheimer's disease plasma. Alzheimer's and Dementia, 2019, 15, 776-787. | 0.8 | 134 |
| 98 | Short echo time single-voxel1H magnetic resonance spectroscopy in magnetic resonance imaging-negative temporal lobe epilepsy: Different biochemical profile compared with hippocampal sclerosis. Annals of Neurology, 1999, 45, 369-376. | 5.3 | 131 |
| 99 | White Matter Integrity and Cognitive Impairment in First-Episode Psychosis. American Journal of Psychiatry, 2010, 167, 451-458. | 7.2 | 131 |
| 100 | 1 H Magnetic resonance spectroscopy of normal appearing white matter in primary progressive multiple sclerosis. Journal of Neurology, 1999, 246, 1023-1026. | 3.6 | 130 |
| 101 | ADC mapping of the human optic nerve: Increased resolution, coverage, and reliability with CSF-suppressed ZOOM-EPI. Magnetic Resonance in Medicine, 2002, 47, 24-31. | 3.0 | 129 |
| 102 | Water diffusion in the human hippocampus in epilepsy. Magnetic Resonance Imaging, 1999, 17, 29-36. | 1.8 | 125 |
| 103 | Progressive grey matter atrophy in clinically early relapsing-remitting multiple sclerosis. Multiple Sclerosis Journal, 2004, 10, 387-391. | 3.0 | 125 |
| 104 | A serial MRI study following optic nerve mean area in acute optic neuritis. Brain, 2004, 127, 2498-2505. | 7.6 | 125 |
| 105 | Altered Relationship Between Hippocampal Glutamate Levels and Striatal Dopamine Function in Subjects at Ultra High Risk of Psychosis. Biological Psychiatry, 2010, 68, 599-602. | 1.3 | 125 |
| 106 | White Matter and Cognition in Adults Who Were Born Preterm. PLoS ONE, 2011, 6, e24525. | 2.5 | 125 |
| 107 | Determinants of Early Alcohol Use In Healthy Adolescents: The Differential Contribution of Neuroimaging and Psychological Factors. Neuropsychopharmacology, 2012, 37, 986-995. | 5.4 | 124 |
| 108 | Effect of natalizumab on conversion of gadolinium enhancing lesions to T1 hypointense lesions in relapsing multiple sclerosis. Journal of Neurology, 2004, 251, 407-413. | 3.6 | 123 |

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|---|---|---|---|
| 109 | White matter microstructural abnormalities in the frontal lobe of adults with antisocial personality disorder. Cortex, 2012, 48, 216-229. | 2.4 | 121 |
| 110 | MR tractography predicts visual field defects following temporal lobe resection. Neurology, 2005, 65, 596-599. | 1.1 | 117 |
| 111 | Nonlinear smoothing for reduction of systematic and random errors in diffusion tensor imaging. Journal of Magnetic Resonance Imaging, 2000, 11, 702-710. | 3.4 | 116 |
| 112 | Diffusion tensor imaging demonstrates deviation of fibres in normal appearing white matter adjacent to a brain tumour. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 68, 501-503. | 1.9 | 116 |
| 113 | Diffusion tractography based group mapping of major white-matter pathways in the human brain. NeuroImage, 2003, 19, 1545-1555. | 4.2 | 116 |
| 114 | Noninvasive in vivo demonstration of the connections of the human parahippocampal gyrus. NeuroImage, 2004, 22, 740-747. | 4.2 | 116 |
| 115 | Limbic and Callosal White Matter Changes in Euthymic Bipolar I Disorder: An Advanced Diffusion Magnetic Resonance Imaging Tractography Study. Biological Psychiatry, 2013, 73, 194-201. | 1.3 | 116 |
| 116 | Evidence of electron neutrino appearance in a muon neutrino beam. Physical Review D, 2013, 88, . | 4.7 | 116 |
| 117 | Variations in T1 and T2 relaxation times of normal appearing white matter and lesions in multiple sclerosis. Journal of the Neurological Sciences, 2000, 178, 81-87. | 0.6 | 114 |
| 118 | White matter tracts in first-episode psychosis: A DTI tractography study of the uncinate fasciculus. NeuroImage, 2008, 39, 949-955. | 4.2 | 114 |
| 119 | Thalamic Glutamate Levels as a Predictor of Cortical Response During Executive Functioning in Subjects at High Risk for Psychosis. Archives of General Psychiatry, 2011, 68, 881. | 12.3 | 114 |
| 120 | A Diffusion Tensor Imaging Study of Fasciculi in Schizophrenia. American Journal of Psychiatry, 2007, 164, 467. | 7.2 | 114 |
| 121 | Response to initial antipsychotic treatment in first episode psychosis is related to anterior cingulate glutamate levels: a multicentre 1H-MRS study (OPTiMiSE). Molecular Psychiatry, 2018, 23, 2145-2155. | 7.9 | 113 |
| 122 | Abnormal brain connectivity in first-episode psychosis: A diffusion MRI tractography study of the corpus callosum. NeuroImage, 2007, 35, 458-466. | 4.2 | 111 |
| 123 | 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. Journal of Neurology, Neurosurgery and Psychiatry, 1998, 65, 863-869. | 1.9 | 110 |
| 124 | A study of bipolar disorder using magnetization transfer imaging and voxel-based morphometry. Brain, 2004, 127, 2433-2440. | 7.6 | 110 |
| 125 | Quantitative magnetization transfer mapping of bound protons in multiple sclerosis. Magnetic Resonance in Medicine, 2003, 50, 83-91. | 3.0 | 108 |
| 126 | Gray and White Matter Brain Abnormalities in First-Episode Schizophrenia Inferred From Magnetization Transfer Imaging. Archives of General Psychiatry, 2003, 60, 779. | 12.3 | 108 |

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|---|---|---|---|
| 127 | Proton MRS reveals frontal lobe metabolite abnormalities in idiopathic generalized epilepsy. Neurology, 2003, 61, 897-902. | 1.1 | 107 |
| 128 | Serial magnetization transfer imaging in acute optic neuritis. Brain, 2003, 127, 692-700. | 7.6 | 107 |
| 129 | Neural and Cognitive Correlates of the Common and Specific Variance Across Externalizing Problems in Young Adolescence. American Journal of Psychiatry, 2014, 171, 1310-1319. | 7.2 | 107 |
| 130 | Lesion heterogeneity in multiple sclerosis: a study of the relations between appearances on T1 weighted images, T1 relaxation times, and metabolite concentrations. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 68, 627-632. | 1.9 | 106 |
| 131 | Reduced subcortical glutamate/glutamine in adults with autism spectrum disorders: a [1H]MRS study. Translational Psychiatry, 2013, 3, e279-e279. | 4.8 | 106 |
| 132 | Magnetisation transfer ratios and transverse magnetisation decay curves in optic neuritis: correlation with clinical findings and electrophysiology.. Journal of Neurology, Neurosurgery and Psychiatry, 1995, 59, 487-492. | 1.9 | 105 |
| 133 | Serial magnetization transfer imaging to characterize the early evolution of new MS lesions. Neurology, 1998, 51, 758-764. | 1.1 | 103 |
| 134 | Magnetic resonance diffusion imaging of the human cervical spinal cord in vivo. Magnetic Resonance in Medicine, 1999, 41, 1269-1273. | 3.0 | 103 |
| 135 | Proton magnetic resonance spectroscopy: an in vivo method of estimating hippocampal neuronal depletion in schizophrenia. Psychological Medicine, 1995, 25, 1201-1209. | 4.5 | 102 |
| 136 | Accurate multislice gradient echoT1 measurement in the presence of non-ideal RF pulse shape and RF field nonuniformity. Magnetic Resonance in Medicine, 2001, 45, 838-845. | 3.0 | 101 |
| 137 | Magnetization transfer histograms in clinically isolated syndromes suggestive of multiple sclerosis. Brain, 2005, 128, 2911-2925. | 7.6 | 101 |
| 138 | Shifting brain inhibitory balance and connectivity of the prefrontal cortex of adults with autism spectrum disorder. Translational Psychiatry, 2017, 7, e1137-e1137. | 4.8 | 101 |
| 139 | In vivo investigation of white matter pathology in schizophrenia with magnetisation transfer imaging. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 68, 70-74. | 1.9 | 100 |
| 140 | Adaptive cortical plasticity in higher visual areas after acute optic neuritis. Annals of Neurology, 2005, 57, 622-633. | 5.3 | 100 |
| 141 | A multicenter measurement of magnetization transfer ratio in normal white matter. Journal of Magnetic Resonance Imaging, 1999, 9, 441-446. | 3.4 | 99 |
| 142 | Restraint of appetite and reduced regional brain volumes in anorexia nervosa: a voxel-based morphometric study. BMC Psychiatry, 2011, 11, 179. | 2.6 | 99 |
| 143 | Realâ€time f<scp>MRI</scp> neurofeedback in adolescents with attention deficit hyperactivity disorder. Human Brain Mapping, 2017, 38, 3190-3209. | 3.6 | 99 |
| 144 | White matter microstructure in schizophrenia: effects of disorder, duration and medication. British Journal of Psychiatry, 2009, 194, 236-242. | 2.8 | 97 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Mapping the brain in younger and older asymptomatic HIV-1 men: Frontal volume changes in the absence of other cortical or diffusion tensor abnormalities. Cortex, 2012, 48, 230-241. | 2.4 | 96 |
| 146 | Preoperative automated fibre quantification predicts postoperative seizure outcome in temporal lobe epilepsy. Brain, 2017, 140, 68-82. | 7.6 | 96 |
| 147 | Diffusion tensor imaging in refractory epilepsy. Lancet, The, 2002, 359, 1748-1751. | 13.7 | 93 |
| 148 | An interleaved sequence for accurate and reproducible clinical measurement of Magnetization Transfer Ratio. Magnetic Resonance Imaging, 1996, 14, 403-411. | 1.8 | 92 |
| 149 | Detection of optic nerve atrophy following a single episode of unilateral optic neuritis by MRI using a fat-saturated short-echo fast FLAIR sequence. Neuroradiology, 2001, 43, 123-128. | 2.2 | 92 |
| 150 | Search for Doubly Charged Higgs Bosons Decaying to Dileptons inppÂ¯Collisions ats=1.96â€‰â€‰TeV. Physical Review Letters, 2004, 93, 221802. | 7.8 | 92 |
| 151 | White matter defects in first episode psychosis patients: A voxelwise analysis of diffusion tensor imaging. NeuroImage, 2010, 49, 199-204. | 4.2 | 92 |
| 152 | A chemical shift selective inversion recovery sequence for fat-suppressed MRI: Theory and experimental validation. Magnetic Resonance Imaging, 1993, 11, 341-355. | 1.8 | 91 |
| 153 | Proton MR spectroscopy in clinically isolated syndromes suggestive of multiple sclerosis. Journal of the Neurological Sciences, 1999, 166, 16-22. | 0.6 | 90 |
| 154 | RASGRF2 regulates alcohol-induced reinforcement by influencing mesolimbic dopamine neuron activity and dopamine release. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21128-21133. | 7.1 | 90 |
| 155 | MRI of the optic nerve in benign intracranial hypertension. Neuroradiology, 1996, 38, 769-773. | 2.2 | 89 |
| 156 | Magnetisation transfer ratio of normal brain white matter: a normative database spanning four decades of life.. Journal of Neurology, Neurosurgery and Psychiatry, 1997, 62, 223-228. | 1.9 | 88 |
| 157 | Proton magnetic resonance spectroscopy in steele-richardson-olszewski syndrome. Movement Disorders, 1997, 12, 767-771. | 3.9 | 88 |
| 158 | Cortical thickness of superior frontal cortex predicts impulsiveness and perceptual reasoning in adolescence. Molecular Psychiatry, 2013, 18, 624-630. | 7.9 | 87 |
| 159 | Tractography of the parahippocampal gyrus and material specific memory impairment in unilateral temporal lobe epilepsy. NeuroImage, 2008, 40, 1755-1764. | 4.2 | 86 |
| 160 | Association of placental perfusion, as assessed by magnetic resonance imaging and uterine artery Doppler ultrasound, and its relationship to pregnancy outcome. Placenta, 2013, 34, 885-891. | 1.5 | 86 |
| 161 | Optic nerve diffusion measurement from diffusion-weighted imaging in optic neuritis. American Journal of Neuroradiology, 2005, 26, 951-6. | 2.4 | 85 |
| 162 | A Direct Demonstration of both Structure and Function in the Visual System: Combining Diffusion Tensor Imaging with Functional Magnetic Resonance Imaging. NeuroImage, 1999, 9, 352-361. | 4.2 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Functional connectivity changes associated with fMRI neurofeedback of right inferior frontal cortex in adolescents with ADHD. NeuroImage, 2019, 188, 43-58. | 4.2 | 84 |
| 164 | Disability in multiple sclerosis is related to normal appearing brain tissue MTR histogram abnormalities. Multiple Sclerosis Journal, 2003, 9, 566-573. | 3.0 | 82 |
| 165 | Measurement of Bottom-Quark Hadron Masses in Exclusive$J/\psi$Decays with the CDF Detector. Physical Review Letters, 2006, 96, 202001. | 7.8 | 82 |
| 166 | Behavioural and emotional symptoms of apathy are associated with distinct patterns of brain atrophy in neurodegenerative disorders. Journal of Neurology, 2013, 260, 2481-2490. | 3.6 | 82 |
| 167 | Technique for measuring hippocampal T2 relaxation time. American Journal of Neuroradiology, 1996, 17, 1805-10. | 2.4 | 81 |
| 168 | Widespread anatomical abnormalities of grey and white matter structure in tuberous sclerosis. Psychological Medicine, 2001, 31, 1437-1446. | 4.5 | 80 |
| 169 | Measurement of Neutrino Oscillation Parameters from Muon Neutrino Disappearance with an Off-Axis Beam. Physical Review Letters, 2013, 111, 211803. | 7.8 | 79 |
| 170 | Normal-appearing brain tissue MTR histograms in clinically isolated syndromes suggestive of MS. Neurology, 2002, 59, 126-128. | 1.1 | 77 |
| 171 | High-resolution diffusion tensor imaging of the hippocampus in temporal lobe epilepsy. Epilepsy Research, 2006, 71, 102-106. | 1.6 | 77 |
| 172 | Reproducibility of thalamic segmentation based on probabilistic tractography. NeuroImage, 2010, 52, 69-85. | 4.2 | 77 |
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