Maria A Rocca

List of Publications by Year in Descending Order

562 papers	25,173 citations	83 h-index	129 g-index
601 ext. papers	29,476 ext. citations	6.9 avg, IF	6.86 L-index

#	Paper	IF	Citations
562	A Deep Learning Approach to Predicting Disease Progression in Multiple Sclerosis Using Magnetic Resonance Imaging.. *Investigative Radiology*, **2022**,	10.1	2
561	Slowly Expanding Lesions Predict 9-Year Multiple Sclerosis Disease Progression.. *Neurology: Neuroimmunology and NeuroInflammation*, **2022**, 9,	9.1	6
560	Divergent time-varying connectivity of thalamic sub-regions characterizes clinical phenotypes and cognitive status in multiple sclerosis.. *Molecular Psychiatry*, **2022**,	15.1	1
559	MAGNIMS recommendations for harmonization of MRI data in MS multicenter studies.. *NeuroImage: Clinical*, **2022**, 34, 102972	5.3	0
558	Current and future applications of artificial intelligence in multiple sclerosis **2022**, 107-144		1
557	The association between cognition and motor performance is beyond structural damage in relapsing-remitting multiple sclerosis.. *Journal of Neurology*, **2022**, 1	5.5	0
556	Spinal cord atrophy is a preclinical marker of progressive MS.. *Annals of Neurology*, **2022**,	9.4	
555	The role of cerebellar damage in explaining disability and cognition in multiple sclerosis phenotypes: a multiparametric MRI study.. *Journal of Neurology*, **2022**, 1	5.5	0
554	Towards imaging criteria that best differentiate MS from NMOSD and MOGAD: Large multi-ethnic population and different clinical scenarios.. *Multiple Sclerosis and Related Disorders*, **2022**, 61, 103778	4	1
553	Advanced diffusion-weighted imaging models better characterize white matter neurodegeneration and clinical outcomes in multiple sclerosis.. *Journal of Neurology*, **2022**, 1	5.5	1
552	Pediatric multiple sclerosis: developments in timely diagnosis and prognostication.. *Expert Review of Neurotherapeutics*, **2022**, 1-11	4.3	0
551	The relationship between processing speed and verbal and non-verbal new learning and memory in progressive multiple sclerosis.. *Multiple Sclerosis Journal*, **2022**, 13524585221088190	5	0
550	Role of artificial intelligence in MS clinical practice. *NeuroImage: Clinical*, **2022**, 35, 103065	5.3	0
549	Clinical predictivity of thalamic sub-regional connectivity in clinically isolated syndrome: a 7-year study. *Molecular Psychiatry*, **2021**, 26, 2163-2174	15.1	4
548	MRI of Transcallosal White Matter Helps to Predict Motor Impairment in Multiple Sclerosis. *Radiology*, **2021**, 210922	20.5	0
547	Opportunities for Understanding MS Mechanisms and Progression With MRI Using Large-Scale Data Sharing and Artificial Intelligence. *Neurology*, **2021**, 97, 989-999	6.5	1
546	Association of Age at Onset With Gray Matter Volume and White Matter Microstructural Abnormalities in People With Multiple Sclerosis. *Neurology*, **2021**, 97, e2007-e2019	6.5	1

545	Effects on cognition of DMTs in multiple sclerosis: moving beyond the prevention of inflammatory activity. *Journal of Neurology*, **2021**, 1	5.5	2
544	Clinical correlates of hypothalamic functional changes in migraine patients. *Cephalalgia*, **2021**, 333102421104661	8	18
543	Characterizing 1-year development of cervical cord atrophy across different MS phenotypes: A voxel-wise, multicentre analysis. *Multiple Sclerosis Journal*, **2021**, 13524585211045545	5	1
542	Performance of the 2017 and 2010 Revised McDonald Criteria in Predicting MS Diagnosis After a Clinically Isolated Syndrome: A MAGNIMS Study. *Neurology*, **2021**,	6.5	4
541	Quantitative MRI adds to neuropsychiatric lupus diagnostics. *Rheumatology*, **2021**, 60, 3278-3288	3.9	1
540	Deep Learning on Conventional Magnetic Resonance Imaging Improves the Diagnosis of Multiple Sclerosis Mimics. *Investigative Radiology*, **2021**, 56, 252-260	10.1	8
539	Resting state network functional connectivity abnormalities in systemic lupus erythematosus: correlations with neuropsychiatric impairment. *Molecular Psychiatry*, **2021**, 26, 3634-3645	15.1	8
538	Occurrence and microstructural features of slowly expanding lesions on fingolimod or natalizumab treatment in multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 27, 1520-1532	5	6
537	COVID-19 in cladribine-treated relapsing-remitting multiple sclerosis patients: a monocentric experience. *Journal of Neurology*, **2021**, 268, 2697-2699	5.5	6
536	MRI correlates of clinical disability and hand-motor performance in multiple sclerosis phenotypes. *Multiple Sclerosis Journal*, **2021**, 27, 1205-1221	5	3
535	Diagnosis of Progressive Multiple Sclerosis From the Imaging Perspective: A Review. *JAMA Neurology*, **2021**, 78, 351-364	17.2	11
534	Cortico-subcortical functional connectivity modifications in fatigued multiple sclerosis patients treated with fampridine and amantadine. *European Journal of Neurology*, **2021**, 28, 2249-2258	6	1
533	Dynamic Functional Connectivity in the Main Clinical Phenotypes of Multiple Sclerosis. *Brain Connectivity*, **2021**, 11, 678-690	2.7	0
532	Targeting Neuromyelitis Optica Pathogenesis: Results from Randomized Controlled Trials of Biologics. *Neurotherapeutics*, **2021**, 18, 1623-1636	6.4	1
531	Neural correlates of visuospatial processing in migraine: does the pain network help?. *Molecular Psychiatry*, **2021**,	15.1	2
530	Central vein sign and iron rim in multiple sclerosis: ready for clinical use?. *Current Opinion in Neurology*, **2021**, 34, 505-513	7.1	4
529	Disease-modifying therapies and SARS-CoV-2 vaccination in multiple sclerosis: an expert consensus. *Journal of Neurology*, **2021**, 268, 3961-3968	5.5	26
528	Identifying the Distinct Cognitive Phenotypes in Multiple Sclerosis. *JAMA Neurology*, **2021**, 78, 414-425	17.2	23

527	Network Damage Predicts Clinical Worsening in Multiple Sclerosis: A 6.4-Year Study. *Neurology: Neuroimmunology and NeuroInflammation*, **2021**, 8,	9.1	5
526	Quantitative magnetic resonance imaging towards clinical application in multiple sclerosis. *Brain*, **2021**, 144, 1296-1311	11.2	12
525	Assessment of the genetic contribution to brain magnetic resonance imaging lesion load and atrophy measures in multiple sclerosis patients. *European Journal of Neurology*, **2021**, 28, 2513-2522	6	0
524	Differential association of cortical, subcortical and spinal cord damage with multiple sclerosis disability milestones: A multiparametric MRI study. *Multiple Sclerosis Journal*, **2021**, 13524585211020296	5	0
523	Application of deep-learning to the seronegative side of the NMO spectrum. *Journal of Neurology*, **2021**, 1	5.5	0
522	Unraveling the substrates of cognitive impairment in multiple sclerosis: A multiparametric structural and functional magnetic resonance imaging study. *European Journal of Neurology*, **2021**, 28, 3749-3759	6	1
521	Cortical axonal loss is associated with both gray matter demyelination and white matter tract pathology in progressive multiple sclerosis: Evidence from a combined MRI-histopathology study. *Multiple Sclerosis Journal*, **2021**, 27, 380-390	5	6
520	Longitudinal cortical thinning progression differs across multiple sclerosis phenotypes and is clinically relevant: A multicentre study. *Multiple Sclerosis Journal*, **2021**, 27, 827-840	5	2
519	Mapping white matter damage distribution in neuromyelitis optica spectrum disorders with a multimodal MRI approach. *Multiple Sclerosis Journal*, **2021**, 27, 841-854	5	8
518	Measurement of white matter fiber-bundle cross-section in multiple sclerosis using diffusion-weighted imaging. *Multiple Sclerosis Journal*, **2021**, 27, 818-826	5	9
517	In vivo gradients of thalamic damage in paediatric multiple sclerosis: a window into pathology. *Brain*, **2021**, 144, 186-197	11.2	9
516	The emotional impact of the COVID-19 pandemic on individuals with progressive multiple sclerosis. *Journal of Neurology*, **2021**, 268, 1598-1607	5.5	28
515	Action observation training promotes motor improvement and modulates functional network dynamic connectivity in multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 27, 139-146	5	8
514	Regional changes in thalamic shape and volume are related to cognitive performance in multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 27, 134-138	5	15
513	Manual and automated tissue segmentation confirm the impact of thalamus atrophy on cognition in multiple sclerosis: A multicenter study. *NeuroImage: Clinical*, **2021**, 29, 102549	5.3	6
512	Mind the gap: from neurons to networks to outcomes in multiple sclerosis. *Nature Reviews Neurology*, **2021**, 17, 173-184	15	18
511	Effects of Fingolimod and Natalizumab on Brain T1-/T2-Weighted and Magnetization Transfer Ratios: a 2-Year Study. *Neurotherapeutics*, **2021**, 18, 878-888	6.4	2
510	Effect of cognitive reserve on structural and functional MRI measures in healthy subjects: a multiparametric assessment. *Journal of Neurology*, **2021**, 268, 1780-1791	5.5	3

509	Neurite density explains cortical T1-weighted/T2-weighted ratio in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2021**, 92, 790-792	5.5	6
508	Development and evaluation of a manual segmentation protocol for deep grey matter in multiple sclerosis: Towards accelerated semi-automated references. *NeuroImage: Clinical*, **2021**, 30, 102659	5.3	0
507	Therapeutic recommendations and seasonal influenza vaccine for multiple sclerosis patients in treatment with ocrelizumab: an expert consensus. *Journal of Neurology*, **2021**, 268, 1540-1543	5.5	3
506	Early Predictors of 9-Year Disability in Pediatric Multiple Sclerosis. *Annals of Neurology*, **2021**, 89, 1011-1022	9.4	3
505	Functional and structural MRI correlates of executive functions in multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 13524585211033184	5	1
504	Anti-CD20 therapies for multiple sclerosis: current status and future perspectives. *Journal of Neurology*, **2021**, 1	5.5	9
503	Quantification of Cervical Cord Cross-Sectional Area: Which Acquisition, Vertebra Level, and Analysis Software? A Multicenter Repeatability Study on a Traveling Healthy Volunteer. *Frontiers in Neurology*, **2021**, 12, 693333	4.1	1
502	CONCERTO: A randomized, placebo-controlled trial of oral laquinimod in relapsing-remitting multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 13524585211032803	5	3
501	Volume of hippocampal subfields and cognitive deficits in neuromyelitis optica spectrum disorders. *European Journal of Neurology*, **2021**, 28, 4167-4177	6	1
500	2021 MAGNIMS-CMSC-NAIMS consensus recommendations on the use of MRI in patients with multiple sclerosis. *Lancet Neurology, The*, **2021**, 20, 653-670	24.1	44
499	Cardiorespiratory fitness and free-living physical activity are not associated with cognition in persons with progressive multiple sclerosis: Baseline analyses from the CogEx study. *Multiple Sclerosis Journal*, **2021**, 13524585211048397	5	1
498	Human Functional MRI. *Neuromethods*, **2021**, 213-236	0.4	
497	Association of Gray Matter Atrophy Patterns With Clinical Phenotype and Progression in Multiple Sclerosis. *Neurology*, **2021**, 96, e1561-e1573	6.5	5
496	Glymphatic system impairment in multiple sclerosis: relation with brain damage and disability.. *Brain*, **2021**,	11.2	4
495	Moving beyond anti-aquaporin-4 antibodies: emerging biomarkers in the spectrum of neuromyelitis optica. *Expert Review of Neurotherapeutics*, **2020**, 20, 601-618	4.3	2
494	COVID-19 will change MS care forever - No. *Multiple Sclerosis Journal*, **2020**, 26, 1149-1151	5	5
493	Multiple sclerosis lesions in motor tracts from brain to cervical cord: spatial distribution and correlation with disability. *Brain*, **2020**, 143, 2089-2105	11.2	17
492	Clinical Relevance of Multiparametric MRI Assessment of Cervical Cord Damage in Multiple Sclerosis. *Radiology*, **2020**, 296, 605-615	20.5	12

491	Identifying Progression in Multiple Sclerosis: New Perspectives. *Annals of Neurology*, **2020**, 88, 438-452	9.4	30
490	Rethinking multiple sclerosis treatment strategies. *Lancet Neurology, The*, **2020**, 19, 281-282	24.1	4
489	What role should spinal cord MRI take in the future of multiple sclerosis surveillance?. *Expert Review of Neurotherapeutics*, **2020**, 20, 783-797	4.3	6
488	Two-year regional grey and white matter volume changes with natalizumab and fingolimod. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**, 91, 493-502	5.5	6
487	Cognitive impairment in benign multiple sclerosis: a multiparametric structural and functional MRI study. *Journal of Neurology*, **2020**, 267, 3508-3517	5.5	6
486	MAGNIMS consensus recommendations on the use of brain and spinal cord atrophy measures in clinical practice. *Nature Reviews Neurology*, **2020**, 16, 171-182	15	68
485	White Matter Diseases **2020**,		1
484	Current state-of-art of the application of serum neurofilaments in multiple sclerosis diagnosis and monitoring. *Expert Review of Neurotherapeutics*, **2020**, 20, 747-769	4.3	6
483	Study protocol: improving cognition in people with progressive multiple sclerosis: a multi-arm, randomized, blinded, sham-controlled trial of cognitive rehabilitation and aerobic exercise (COGEx). *BMC Neurology*, **2020**, 20, 204	3.1	14
482	Pediatric Multiple Sclerosis **2020**, 37-66		
481	Neuromyelitis Optica Spectrum Disorders **2020**, 67-94		
480	Resting-State fMRI in Multiple Sclerosis **2020**, 335-353		3
479	Dysregulation of multisensory processing stands out from an early stage of migraine: a study in pediatric patients. *Journal of Neurology*, **2020**, 267, 760-769	5.5	2
478	Extent and characteristics of carotid plaques and brain parenchymal loss in asymptomatic patients with no indication for revascularization. *IJC Heart and Vasculature*, **2020**, 30, 100619	2.4	1
477	Spinal Cord Atrophy in Neuromyelitis Optica Spectrum Disorders Is Spatially Related to Cord Lesions and Disability. *Radiology*, **2020**, 297, 154-163	20.5	3
476	Fatigue in multiple sclerosis patients with different clinical phenotypes: a clinical and magnetic resonance imaging study. *European Journal of Neurology*, **2020**, 27, 2549-2560	6	5
475	Structural connectivity in multiple sclerosis and modeling of disconnection. *Multiple Sclerosis Journal*, **2020**, 26, 220-232	5	15
474	Functional brain connectivity abnormalities and cognitive deficits in neuromyelitis optica spectrum disorder. *Multiple Sclerosis Journal*, **2020**, 26, 795-805	5	8

473	Imaging correlates of hand motor performance in multiple sclerosis: A multiparametric structural and functional MRI study. *Multiple Sclerosis Journal*, **2020**, 26, 233-244	5	9
472	Two-year dynamic functional network connectivity in clinically isolated syndrome. *Multiple Sclerosis Journal*, **2020**, 26, 645-658	5	11
471	Reduced dynamics of functional connectivity and cognitive impairment in multiple sclerosis. *Multiple Sclerosis Journal*, **2020**, 26, 476-488	5	26
470	Structural and functional brain connectomes in patients with systemic lupus erythematosus. *European Journal of Neurology*, **2020**, 27, 113-e2	6	12
469	Influence of CNS T2-focal lesions on cervical cord atrophy and disability in multiple sclerosis. *Multiple Sclerosis Journal*, **2020**, 26, 1402-1409	5	8
468	Effects of Natalizumab and Fingolimod on Clinical, Cognitive, and Magnetic Resonance Imaging Measures in Multiple Sclerosis. *Neurotherapeutics*, **2020**, 17, 208-217	6.4	16
467	Longitudinal Assessment of Multiple Sclerosis with the Brain-Age Paradigm. *Annals of Neurology*, **2020**, 88, 93-105	9.4	26
466	Spatial distribution of multiple sclerosis lesions in the cervical spinal cord. *Brain*, **2019**, 142, 633-646	11.2	47
465	Spinal cord involvement in multiple sclerosis and neuromyelitis optica spectrum disorders. *Lancet Neurology, The*, **2019**, 18, 185-197	24.1	74
464	Lifespan normative data on rates of brain volume changes. *Neurobiology of Aging*, **2019**, 81, 30-37	5.6	24
463	Assessment of lesions on magnetic resonance imaging in multiple sclerosis: practical guidelines. *Brain*, **2019**, 142, 1858-1875	11.2	150
462	Progression of brain white matter hyperintensities in asymptomatic patients with carotid atherosclerotic plaques and no indication for revascularization. *Atherosclerosis*, **2019**, 287, 171-178	3.1	6
461	Author response: Gray matter volume modifications in migraine: A cross-sectional and longitudinal study. *Neurology*, **2019**, 92, 587-588	6.5	
460	Imaging the migrainous brain: the present and the future. *Neurological Sciences*, **2019**, 40, 49-54	3.5	6
459	Cross-sectional study of smoking exposure: no differential effect on OCT metrics in a cohort of MS patients. *Multiple Sclerosis Journal - Experimental, Translational and Clinical*, **2019**, 5, 2055217319828400	2	4
458	Dynamic gray matter volume changes in pediatric multiple sclerosis: A 3.5 year MRI study. *Neurology*, **2019**, 92, e1709-e1723	6.5	15
457	Cortical Lesions on 7-T MRI in Multiple Sclerosis: A Window into Pathogenetic Mechanisms?. *Radiology*, **2019**, 291, 750-751	20.5	2
456	Fronto-temporal vulnerability to disconnection in paediatric moderate and severe traumatic brain injury. *European Journal of Neurology*, **2019**, 26, 1183-1190	6	4

455	Multi-branch convolutional neural network for multiple sclerosis lesion segmentation. *NeuroImage*, **2019**, 196, 1-15	7.9	56
454	Functional and structural plasticity following action observation training in multiple sclerosis. *Multiple Sclerosis Journal*, **2019**, 25, 1472-1487	5	17
453	Dynamic volumetric changes of hippocampal subfields in clinically isolated syndrome patients: A 2-year MRI study. *Multiple Sclerosis Journal*, **2019**, 25, 1232-1242	5	5
452	Cross-modal plasticity among sensory networks in neuromyelitis optica spectrum disorders. *Multiple Sclerosis Journal*, **2019**, 25, 968-979	5	8
451	MRI quality control for the Italian Neuroimaging Network Initiative: moving towards big data in multiple sclerosis. *Journal of Neurology*, **2019**, 266, 2848-2858	5.5	7
450	Longitudinal spinal cord atrophy in multiple sclerosis using the generalized boundary shift integral. *Annals of Neurology*, **2019**, 86, 704-713	9.4	22
449	Characterizing Rapid Fluctuations of Resting State Functional Connectivity in Demyelinating, Neurodegenerative, and Psychiatric Conditions: From Static to Time-Varying Analysis. *Frontiers in Neuroscience*, **2019**, 13, 618	5.1	12
448	Axonal degeneration as substrate of fractional anisotropy abnormalities in multiple sclerosis cortex. *Brain*, **2019**, 142, 1921-1937	11.2	16
447	Clinically relevant cranio-caudal patterns of cervical cord atrophy evolution in MS. *Neurology*, **2019**, 93, e1852-e1866	6.5	22
446	SVM recursive feature elimination analyses of structural brain MRI predicts near-term relapses in patients with clinically isolated syndromes suggestive of multiple sclerosis. *NeuroImage: Clinical*, **2019**, 24, 102011	5.3	23
445	PET is necessary to make the next step forward in understanding MS pathophysiology - No. *Multiple Sclerosis Journal*, **2019**, 25, 1088-1090	5	1
444	Unraveling treatment response in multiple sclerosis: A clinical and MRI challenge. *Neurology*, **2019**, 92, 180-192	6.5	50
443	Targeting progression in multiple sclerosis - an update. *Nature Reviews Neurology*, **2019**, 15, 62-64	15	3
442	Association between pathological and MRI findings in multiple sclerosis. *Lancet Neurology, The*, **2019**, 18, 198-210	24.1	86
441	Brain and cord imaging features in neuromyelitis optica spectrum disorders. *Annals of Neurology*, **2019**, 85, 371-384	9.4	42
440	Application of advanced MRI techniques to monitor pharmacologic and rehabilitative treatment in multiple sclerosis: current status and future perspectives. *Expert Review of Neurotherapeutics*, **2019** , 19, 835-866	4.3	12
439	Automatic segmentation of the spinal cord and intramedullary multiple sclerosis lesions with convolutional neural networks. *NeuroImage*, **2019**, 184, 901-915	7.9	77
438	Brain mapping in multiple sclerosis: Lessons learned about the human brain. *NeuroImage*, **2019**, 190, 32-45	7.9	33

437	Imaging patterns of gray and white matter abnormalities associated with PASAT and SDMT performance in relapsing-remitting multiple sclerosis. *Multiple Sclerosis Journal*, **2019**, 25, 204-216	5	16
436	Hippocampal-related memory network in multiple sclerosis: A structural connectivity analysis. *Multiple Sclerosis Journal*, **2019**, 25, 801-810	5	11
435	Cognitive reserve, cognition, and regional brain damage in MS: A 2 -year longitudinal study. *Multiple Sclerosis Journal*, **2019**, 25, 372-381	5	26
434	The role of the cerebellum in multiple sclerosis-150 years after Charcot. *Neuroscience and Biobehavioral Reviews*, **2018**, 89, 85-98	9	31
433	Cervical Cord T1-weighted Hypointense Lesions at MR Imaging in Multiple Sclerosis: Relationship to Cord Atrophy and Disability. *Radiology*, **2018**, 288, 234-244	20.5	28
432	Radiologically isolated syndrome or subclinical multiple sclerosis: MAGNIMS consensus recommendations. *Multiple Sclerosis Journal*, **2018**, 24, 214-221	5	43
431	Cognition in multiple sclerosis: State of the field and priorities for the future. *Neurology*, **2018**, 90, 278-288	8.5	242
430	Effectiveness and baseline factors associated to fingolimod response in a real-world study on multiple sclerosis patients. *Journal of Neurology*, **2018**, 265, 896-905	5.5	8
429	Prediction of a multiple sclerosis diagnosis in patients with clinically isolated syndrome using the 2016 MAGNIMS and 2010 McDonald criteria: a retrospective study. *Lancet Neurology, The*, **2018**, 17, 133-142	24.1	66
428	Deep gray matter volume loss drives disability worsening in multiple sclerosis. *Annals of Neurology*, **2018**, 83, 210-222	9.4	185
427	Measurement of Whole-Brain and Gray Matter Atrophy in Multiple Sclerosis: Assessment with MR Imaging. *Radiology*, **2018**, 288, 554-564	20.5	32
426	Urgent challenges in quantification and interpretation of brain grey matter atrophy in individual MS patients using MRI. *NeuroImage: Clinical*, **2018**, 19, 466-475	5.3	33
425	Functional network connectivity abnormalities in multiple sclerosis: Correlations with disability and cognitive impairment. *Multiple Sclerosis Journal*, **2018**, 24, 459-471	5	71
424	Mesial temporal lobe and subcortical grey matter volumes differentially predict memory across stages of multiple sclerosis. *Multiple Sclerosis Journal*, **2018**, 24, 675-678	5	13
423	Abnormal functional connectivity of thalamic sub-regions contributes to fatigue in multiple sclerosis. *Multiple Sclerosis Journal*, **2018**, 24, 1183-1195	5	30
422	Diagnosis of multiple sclerosis: a multicentre study to compare revised McDonald-2010 and Filippi-2010 criteria. *Journal of Neurology, Neurosurgery and Psychiatry*, **2018**, 89, 316-318	5.5	14
421	Neuromyelitis optica spectrum disorder and multiple sclerosis in a Sardinian family. *Multiple Sclerosis and Related Disorders*, **2018**, 25, 73-76	4	3
420	Assessing the role of innovative therapeutic paradigm on multiple sclerosis treatment response. *Acta Neurologica Scandinavica*, **2018**, 138, 447-453	3.8	2

419	Gray matter volume modifications in migraine: A cross-sectional and longitudinal study. *Neurology*, **2018**, 91, e280-e292	6.5	32
418	Multiple sclerosis. *Nature Reviews Disease Primers*, **2018**, 4, 43	51.1	372
417	The hippocampus in multiple sclerosis. *Lancet Neurology, The*, **2018**, 17, 918-926	24.1	57
416	Progression of regional grey matter atrophy in multiple sclerosis. *Brain*, **2018**, 141, 1665-1677	11.2	146
415	Basal vitamin D levels and disease activity in multiple sclerosis patients treated with fingolimod. *Neurological Sciences*, **2018**, 39, 1467-1470	3.5	6
414	MRI in multiple sclerosis: what is changing?. *Current Opinion in Neurology*, **2018**, 31, 386-395	7.1	13
413	Cardiovascular disease and brain health: Focus on white matter hyperintensities. *IJC Heart and Vasculature*, **2018**, 19, 63-69	2.4	41
412	The effect of action observation/execution on mirror neuron system recruitment: an fMRI study in healthy individuals. *Brain Imaging and Behavior*, **2017**, 11, 565-576	4.1	28
411	Working memory network dysfunction in relapse-onset multiple sclerosis phenotypes: A clinical-imaging evaluation. *Multiple Sclerosis Journal*, **2017**, 23, 577-587	5	13
410	Gray matter trophism, cognitive impairment, and depression in patients with multiple sclerosis. *Multiple Sclerosis Journal*, **2017**, 23, 1864-1874	5	33
409	Altered neural mechanisms of cognitive control in patients with primary progressive multiple sclerosis: An effective connectivity study. *Human Brain Mapping*, **2017**, 38, 2580-2588	5.9	11
408	DT MRI microstructural cortical lesion damage does not explain cognitive impairment in MS. *Multiple Sclerosis Journal*, **2017**, 23, 1918-1928	5	7
407	Structural brain abnormalities in patients with vestibular migraine. *Journal of Neurology*, **2017**, 264, 295-303	3.9	28
406	Simvastatin and cognition in multiple sclerosis. *Lancet Neurology, The*, **2017**, 16, 572-573	24.1	4
405	Functional reorganization is a maladaptive response to injury - YES. *Multiple Sclerosis Journal*, **2017**, 23, 191-193	5	12
404	The Italian Neuroimaging Network Initiative (INNI): enabling the use of advanced MRI techniques in patients with MS. *Neurological Sciences*, **2017**, 38, 1029-1038	3.5	6
403	Microstructural MR Imaging Techniques in Multiple Sclerosis. *Neuroimaging Clinics of North America*, **2017**, 27, 313-333	3	23
402	A diffusion tensor magnetic resonance imaging study of paediatric patients with severe non-traumatic brain injury. *Developmental Medicine and Child Neurology*, **2017**, 59, 199-206	3.3	7

401	Brain MRI atrophy quantification in MS: From methods to clinical application. *Neurology*, **2017**, 88, 403-413	6.5	134
400	Efficacy of fingolimod and interferon beta-1b on cognitive, MRI, and clinical outcomes in relapsing-remitting multiple sclerosis: an 18-month, open-label, rater-blinded, randomised, multicentre study (the GOLDEN study). *Journal of Neurology*, **2017**, 264, 2436-2449	5.5	35
399	Long-term disability progression in primary progressive multiple sclerosis: a 15-year study. *Brain*, **2017**, 140, 2814-2819	11.2	38
398	MRI substrates of sustained attention system and cognitive impairment in pediatric MS patients. *Neurology*, **2017**, 89, 1265-1273	6.5	9
397	Relation between characteristics of carotid atherosclerotic plaques and brain white matter hyperintensities in asymptomatic patients. *Scientific Reports*, **2017**, 7, 10559	4.9	15
396	Structural connectivity-defined thalamic subregions have different functional connectivity abnormalities in multiple sclerosis patients: Implications for clinical correlations. *Human Brain Mapping*, **2017**, 38, 6005-6018	5.9	26
395	Performance of five research-domain automated WM lesion segmentation methods in a multi-center MS study. *NeuroImage*, **2017**, 163, 106-114	7.9	18
394	Progression of regional atrophy in the left hemisphere contributes to clinical and cognitive deterioration in multiple sclerosis: A 5-year study. *Human Brain Mapping*, **2017**, 38, 5648-5665	5.9	23
393	Cerebellar contribution to motor and cognitive performance in multiple sclerosis: An MRI sub-regional volumetric analysis. *Multiple Sclerosis Journal*, **2017**, 23, 1194-1203	5	38
392	Action observation training modifies brain gray matter structure in healthy adult individuals. *Brain Imaging and Behavior*, **2017**, 11, 1343-1352	4.1	6
391	Mapping face encoding using functional MRI in multiple sclerosis across disease phenotypes. *Brain Imaging and Behavior*, **2017**, 11, 1238-1247	4.1	2
390	Hippocampal and Deep Gray Matter Nuclei Atrophy Is Relevant for Explaining Cognitive Impairment in MS: A Multicenter Study. *American Journal of Neuroradiology*, **2017**, 38, 18-24	4.4	49
389	Cognitive Processes Underlying Vegetarianism as Assessed by Brain Imaging **2017**, 71-91		
388	The Role of T1-Weighted Derived Measures of Neurodegeneration for Assessing Disability Progression in Multiple Sclerosis. *Frontiers in Neurology*, **2017**, 8, 433	4.1	41
387	High-Field-Strength MRI (3.0 T or More) in White Matter Diseases **2017**, 223-237		
386	Diffusion tensor magnetic resonance imaging in very early onset pediatric multiple sclerosis. *Multiple Sclerosis Journal*, **2016**, 22, 620-7	5	16
385	Regional hippocampal involvement and cognitive impairment in pediatric multiple sclerosis. *Multiple Sclerosis Journal*, **2016**, 22, 628-40	5	20
384	Abnormal cerebellar functional MRI connectivity in patients with paediatric multiple sclerosis. *Multiple Sclerosis Journal*, **2016**, 22, 292-301	5	13

383	Carotid atherosclerosis, silent ischemic brain damage and brain atrophy: A systematic review and meta-analysis. *International Journal of Cardiology*, **2016**, 223, 681-687	3.2	44
382	MRI in the evaluation of pediatric multiple sclerosis. *Neurology*, **2016**, 87, S88-96	6.5	33
381	Functional MRI in investigating cognitive impairment in multiple sclerosis. *Acta Neurologica Scandinavica*, **2016**, 134 Suppl 200, 39-46	3.8	18
380	A Semiautomatic Method for Multiple Sclerosis Lesion Segmentation on Dual-Echo MR Imaging: Application in a Multicenter Context. *American Journal of Neuroradiology*, **2016**, 37, 2043-2049	4.4	4
379	Abnormalities of the executive control network in multiple sclerosis phenotypes: An fMRI effective connectivity study. *Human Brain Mapping*, **2016**, 37, 2293-304	5.9	21
378	Multiple sclerosis. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2016**, 135, 399-423	3	7
377	Surrogate Markers in Multiple Sclerosis: The Role of Magnetic Resonance Imaging **2016**, 163-187		
376	Preface. *Acta Neurologica Scandinavica*, **2016**, 134 Suppl 200, 3	3.8	
375	A review of recent literature on functional MRI and personal experience in two cases of definite vestibular migraine. *Neurological Sciences*, **2016**, 37, 1399-402	3.5	18
374	Regional cortical thinning in multiple sclerosis and its relation with cognitive impairment: A multicenter study. *Multiple Sclerosis Journal*, **2016**, 22, 901-9	5	29
373	Power estimation for non-standardized multisite studies. *NeuroImage*, **2016**, 134, 281-294	7.9	28
372	Assessing response to interferon-β in a multicenter dataset of patients with MS. *Neurology*, **2016**, 87, 134-40	6.5	74
371	Structural MRI correlates of cognitive impairment in patients with multiple sclerosis: A Multicenter Study. *Human Brain Mapping*, **2016**, 37, 1627-44	5.9	65
370	Searching for the neural basis of reserve against memory decline: intellectual enrichment linked to larger hippocampal volume in multiple sclerosis. *European Journal of Neurology*, **2016**, 23, 39-44	6	23
369	Impaired functional integration in multiple sclerosis: a graph theory study. *Brain Structure and Function*, **2016**, 221, 115-31	4	90
368	MRI criteria for the diagnosis of multiple sclerosis: MAGNIMS consensus guidelines. *Lancet Neurology, The*, **2016**, 15, 292-303	24.1	486
367	Clinically Isolated Syndrome Suggestive of Multiple Sclerosis: Dynamic Patterns of Gray and White Matter Changes-A 2-year MR Imaging Study. *Radiology*, **2016**, 278, 841-53	20.5	26
366	Hyperconnectivity of the dorsolateral prefrontal cortex following mental effort in multiple sclerosis patients with cognitive fatigue. *Multiple Sclerosis Journal*, **2016**, 22, 1665-1675	5	29

365	Correlates of Executive Functions in Multiple Sclerosis Based on Structural and Functional MR Imaging: Insights from a Multicenter Study. *Radiology*, **2016**, 280, 869-79	20.5	19
364	Abnormal adaptation over time of motor network recruitment in multiple sclerosis patients with fatigue. *Multiple Sclerosis Journal*, **2016**, 22, 1144-53	5	37
363	The Role of DTI in Multiple Sclerosis and Other Demyelinating Conditions **2016**, 331-341		1
362	Reading, writing, and reserve: Literacy activities are linked to hippocampal volume and memory in multiple sclerosis. *Multiple Sclerosis Journal*, **2016**, 22, 1621-1625	5	14
361	Longitudinal fMRI studies: Exploring brain plasticity and repair in MS. *Multiple Sclerosis Journal*, **2016**, 22, 269-78	5	32
360	MRI and neurophysiological measures to predict course, disability and treatment response in multiple sclerosis. *Current Opinion in Neurology*, **2016**, 29, 243-53	7.1	27
359	Estimating Brain Lesion Volume Change in Multiple Sclerosis by Subtraction of Magnetic Resonance Images. *Journal of Neuroimaging*, **2016**, 26, 395-402	2.8	7
358	Dynamic pattern of clinical and MRI findings in a tumefactive demyelinating lesion: A case report. *Journal of the Neurological Sciences*, **2016**, 361, 184-6	3.2	2
357	A Semi-automatic Method for Segmentation of Multiple Sclerosis Lesions on Dual-Echo Magnetic Resonance Images. *Lecture Notes in Computer Science*, **2016**, 80-90	0.9	1
356	Brain reserve against physical disability progression over 5 years in multiple sclerosis. *Neurology*, **2016**, 86, 2006-9	6.5	21
355	fMRI of Pain. *Neuromethods*, **2016**, 495-521	0.4	1
354	fMRI of the Sensorimotor System. *Neuromethods*, **2016**, 523-543	0.4	0
353	Application of fMRI to Multiple Sclerosis and Other White Matter Disorders. *Neuromethods*, **2016**, 609-637	0.4	
352	fMRI in Psychiatric Disorders. *Neuromethods*, **2016**, 657-697	0.4	
351	Clinical Applications of the Functional Connectome. *Neuromethods*, **2016**, 893-903	0.4	1
350	Cognitive impairment in paediatric multiple sclerosis patients is not related to cortical lesions. *Multiple Sclerosis Journal*, **2015**, 21, 956-9	5	21
349	Evidence-based guidelines: MAGNIMS consensus guidelines on the use of MRI in multiple sclerosis-clinical implementation in the diagnostic process. *Nature Reviews Neurology*, **2015**, 11, 471-82	15	272
348	Connectivity-based parcellation of the thalamus in multiple sclerosis and its implications for cognitive impairment: A multicenter study. *Human Brain Mapping*, **2015**, 36, 2809-25	5.9	55

347	Distributed abnormalities of brain white matter architecture in patients with dominant optic atrophy and OPA1 mutations. *Journal of Neurology*, **2015**, 262, 1216-27	5.5	5
346	MRI monitoring of pathological changes in the spinal cord in patients with multiple sclerosis. *Lancet Neurology, The*, **2015**, 14, 443-54	24.1	81
345	Mind the gap: the mismatch between clinical and imaging metrics in ALS. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, **2015**, 16, 524-9	3.6	47
344	Validation of 1-year predictive score of long-term response to interferon-β in everyday clinical practice multiple sclerosis patients. *European Journal of Neurology*, **2015**, 22, 973-80	6	13
343	Elevated body temperature is linked to fatigue in an Italian sample of relapsing-remitting multiple sclerosis patients. *Journal of Neurology*, **2015**, 262, 2440-2	5.5	15
342	Evidence-based guidelines: MAGNIMS consensus guidelines on the use of MRI in multiple sclerosis--establishing disease prognosis and monitoring patients. *Nature Reviews Neurology*, **2015**, 11, 597-606	15	321
341	Nonconventional MRI and microstructural cerebral changes in multiple sclerosis. *Nature Reviews Neurology*, **2015**, 11, 676-86	15	93
340	Deficits in memory and visuospatial learning correlate with regional hippocampal atrophy in MS. *Brain Structure and Function*, **2015**, 220, 435-44	4	61
339	MRI in Leber's hereditary optic neuropathy: the relationship to multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2015**, 86, 537-42	5.5	44
338	Natalizumab in the pediatric MS population: results of the Italian registry. *BMC Neurology*, **2015**, 15, 174	3.1	58
337	In vivo evidence of hippocampal dentate gyrus expansion in multiple sclerosis. *Human Brain Mapping*, **2015**, 36, 4702-13	5.9	18
336	Hippocampal-DMN disconnectivity in MS is related to WM lesions and depression. *Human Brain Mapping*, **2015**, 36, 5051-63	5.9	41
335	Altered Recruitment of the Attention Network Is Associated with Disability and Cognitive Impairment in Pediatric Patients with Acquired Brain Injury. *Neural Plasticity*, **2015**, 2015, 104282	3.3	8
334	A longitudinal MRI study of cervical cord atrophy in multiple sclerosis. *Journal of Neurology*, **2015**, 262, 1622-8	5.5	18
333	Resting-state fMRI functional connectivity: a new perspective to evaluate pain modulation in migraine?. *Neurological Sciences*, **2015**, 36 Suppl 1, 41-5	3.5	27
332	Demyelinating Diseases **2015**, 895-905		
331	White matter microstructure abnormalities in pediatric migraine patients. *Cephalalgia*, **2015**, 35, 1278-86	6.1	27
330	Clinical and imaging assessment of cognitive dysfunction in multiple sclerosis. *Lancet Neurology, The*, **2015**, 14, 302-17	24.1	322

329	Brain reserve and cognitive reserve protect against cognitive decline over 4.5 years in MS. *Neurology*, **2014**, 82, 1776-83	6.5	124
328	Determinants of iron accumulation in deep grey matter of multiple sclerosis patients. *Multiple Sclerosis Journal*, **2014**, 20, 1692-8	5	41
327	Structural brain MRI abnormalities in pediatric patients with migraine. *Journal of Neurology*, **2014**, 261, 350-7	5.5	59
326	Ultra-high-field MR imaging in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 60-6	5.5	40
325	Regional but not global brain damage contributes to fatigue in multiple sclerosis. *Radiology*, **2014**, 273, 511-20	20.5	64
324	Insights from magnetic resonance imaging. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2014**, 122, 115-49	3	18
323	KIR4.1: another misleading expectation in multiple sclerosis?. *Lancet Neurology, The*, **2014**, 13, 753-5	24.1	9
322	Diagnostic value of brain chronic black holes on T1-weighted MR images in clinically isolated syndromes. *Multiple Sclerosis Journal*, **2014**, 20, 1471-7	5	22
321	Patterns of regional gray matter and white matter atrophy in cortical multiple sclerosis. *Journal of Neurology*, **2014**, 261, 1715-25	5.5	9
320	Relationship between damage to the cerebellar peduncles and clinical disability in multiple sclerosis. *Radiology*, **2014**, 271, 822-30	20.5	38
319	Multicenter R2* mapping in the healthy brain. *Magnetic Resonance in Medicine*, **2014**, 71, 1103-7	4.4	13
318	Magnetic resonance imaging correlates of physical disability in relapse onset multiple sclerosis of long disease duration. *Multiple Sclerosis Journal*, **2014**, 20, 72-80	5	81
317	Intranetwork and internetwork functional connectivity abnormalities in pediatric multiple sclerosis. *Human Brain Mapping*, **2014**, 35, 4180-92	5.9	34
316	Placebo-controlled trial of oral laquinimod in multiple sclerosis: MRI evidence of an effect on brain tissue damage. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 851-8	5.5	84
315	Brain connectivity abnormalities extend beyond the sensorimotor network in peripheral neuropathy. *Human Brain Mapping*, **2014**, 35, 513-26	5.9	10
314	Functional correlates of cognitive dysfunction in multiple sclerosis: A multicenter fMRI Study. *Human Brain Mapping*, **2014**, 35, 5799-814	5.9	54
313	Magnetic resonance outcome measures in multiple sclerosis trials: time to rethink?. *Current Opinion in Neurology*, **2014**, 27, 290-9	7.1	52
312	Influence of the topography of brain damage on depression and fatigue in patients with multiple sclerosis. *Multiple Sclerosis Journal*, **2014**, 20, 192-201	5	76

311	Forceps minor damage and co-occurrence of depression and fatigue in multiple sclerosis. *Multiple Sclerosis Journal*, **2014**, 20, 1633-40	5	36
310	Posterior brain damage and cognitive impairment in pediatric multiple sclerosis. *Neurology*, **2014**, 82, 1314-21	6.5	40
309	Changes of brain resting state functional connectivity predict the persistence of cognitive rehabilitation effects in patients with multiple sclerosis. *Multiple Sclerosis Journal*, **2014**, 20, 686-94	5	53
308	Cognitive rehabilitation correlates with the functional connectivity of the anterior cingulate cortex in patients with multiple sclerosis. *Brain Imaging and Behavior*, **2014**, 8, 387-93	4.1	58
307	Imaging of Migraine and Vestibular Migraine **2014**, 193-209		
306	The organization of intrinsic brain activity differs between genders: a resting-state fMRI study in a large cohort of young healthy subjects. *Human Brain Mapping*, **2013**, 34, 1330-43	5.9	111
305	MRI predicts efficacy of constraint-induced movement therapy in children with brain injury. *Neurotherapeutics*, **2013**, 10, 511-9	6.4	18
304	Analysis of "task-positive" and "task-negative" functional networks during the performance of the Symbol Digit Modalities Test in patients at presentation with clinically isolated syndrome suggestive of multiple sclerosis. *Experimental Brain Research*, **2013**, 225, 399-407	2.3	13
303	Imaging resting state brain function in multiple sclerosis. *Journal of Neurology*, **2013**, 260, 1709-13	5.5	53
302	Imaging cortical damage and dysfunction in multiple sclerosis. *JAMA Neurology*, **2013**, 70, 556-64	17.2	22
301	Contribution of magnetic resonance imaging to the diagnosis and monitoring of multiple sclerosis. *Radiologia Medica*, **2013**, 118, 251-64	6.5	15
300	Recommendations to improve imaging and analysis of brain lesion load and atrophy in longitudinal studies of multiple sclerosis. *Journal of Neurology*, **2013**, 260, 2458-71	5.5	83
299	Atypical idiopathic inflammatory demyelinating lesions: prognostic implications and relation to multiple sclerosis. *Journal of Neurology*, **2013**, 260, 2016-22	5.5	47
298	Brain structural and functional abnormalities in Fahr disease: a report of two cases. *Journal of Neurology*, **2013**, 260, 1927-30	5.5	1
297	Guidelines from The Italian Neurological and Neuroradiological Societies for the use of magnetic resonance imaging in daily life clinical practice of multiple sclerosis patients. *Neurological Sciences*, **2013**, 34, 2085-93	3.5	40
296	Brain reserve and cognitive reserve in multiple sclerosis: what you've got and how you use it. *Neurology*, **2013**, 80, 2186-93	6.5	112
295	Future MRI tools in multiple sclerosis. *Journal of the Neurological Sciences*, **2013**, 331, 14-8	3.2	20
294	Voxel-wise mapping of cervical cord damage in multiple sclerosis patients with different clinical phenotypes. *Journal of Neurology, Neurosurgery and Psychiatry*, **2013**, 84, 35-41	5.5	38

293	Assessment of system dysfunction in the brain through MRI-based connectomics. *Lancet Neurology, The*, **2013**, 12, 1189-99	24.1	155
292	Brain atrophy and lesion load predict long term disability in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2013**, 84, 1082-91	5.5	209
291	Effects of early treatment with glatiramer acetate in patients with clinically isolated syndrome. *Multiple Sclerosis Journal*, **2013**, 19, 1074-83	5	72
290	Multiple sclerosis: new measures to monitor the disease. *Lancet Neurology, The*, **2013**, 12, 12-3	24.1	6
289	Disease reactivation after fingolimod discontinuation in two multiple sclerosis patients. *Journal of Neurology*, **2013**, 260, 327-9	5.5	31
288	Multiple sclerosis: Linking disability and spinal cord imaging outcomes in MS. *Nature Reviews Neurology*, **2013**, 9, 189-90	15	7
287	Location of brain lesions predicts conversion of clinically isolated syndromes to multiple sclerosis. *Neurology*, **2013**, 80, 234-41	6.5	42
286	Vitamin A: yet another player in multiple sclerosis pathogenesis?. *Expert Review of Clinical Immunology*, **2013**, 9, 113-5	5.1	4
285	Multiple sclerosis imaging: recent advances. *Journal of Neurology*, **2013**, 260, 929-35	5.5	14
284	The "vegetarian brain": chatting with monkeys and pigs?. *Brain Structure and Function*, **2013**, 218, 1211-27	4	6
283	Cortical abnormalities in patients with migraine: a surface-based analysis. *Radiology*, **2013**, 268, 170-80	20.5	83
282	Preventing brain atrophy should be the gold standard of effective theraphy in MS (after the first year of treatment): No. *Multiple Sclerosis Journal*, **2013**, 19, 1005-6	5	9
281	Wallerian and trans-synaptic degeneration contribute to optic radiation damage in multiple sclerosis: a diffusion tensor MRI study. *Multiple Sclerosis Journal*, **2013**, 19, 1610-7	5	49
280	Microstructural magnetic resonance imaging of cortical lesions in multiple sclerosis. *Multiple Sclerosis Journal*, **2013**, 19, 418-26	5	31
279	Natalizumab in pediatric multiple sclerosis: results of a cohort of 55 cases. *Multiple Sclerosis Journal* , **2013**, 19, 1106-12	5	50
278	Gray matter damage predicts the accumulation of disability 13 years later in MS. *Neurology*, **2013**, 81, 1759-67	6.5	133
277	Regional cervical cord atrophy and disability in multiple sclerosis: a voxel-based analysis. *Radiology*, **2013**, 266, 853-61	20.5	37
276	Present and future of fMRI in multiple sclerosis. *Expert Review of Neurotherapeutics*, **2013**, 13, 27-31	4.3	30

275	Association between pathological and MRI findings in multiple sclerosis. *Lancet Neurology, The*, **2012**, 11, 349-60	24.1	267
274	Mapping regional grey and white matter atrophy in relapsing-remitting multiple sclerosis. *Multiple Sclerosis Journal*, **2012**, 18, 1027-37	5	47
273	Myeloid microvesicles are a marker and therapeutic target for neuroinflammation. *Annals of Neurology*, **2012**, 72, 610-24	9.4	201
272	Patterns of white matter diffusivity abnormalities in Leber hereditary optic neuropathy: a tract-based spatial statistics study. *Journal of Neurology*, **2012**, 259, 1801-7	5.5	18
271	Patients with migraine do not have MRI-visible cortical lesions. *Journal of Neurology*, **2012**, 259, 2695-8	5.5	46
270	A randomised, double blind, placebo controlled trial with vitamin D3 as an add on treatment to interferon β1b in patients with multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2012**, 83, 565-71	5.5	203
269	Spatial normalization and regional assessment of cord atrophy: voxel-based analysis of cervical cord 3D T1-weighted images. *American Journal of Neuroradiology*, **2012**, 33, 2195-200	4.4	33
268	Large-scale neuronal network dysfunction in relapsing-remitting multiple sclerosis. *Neurology*, **2012**, 79, 1449-57	6.5	130
267	Functional magnetic resonance imaging correlates of cognitive performance in patients with a clinically isolated syndrome suggestive of multiple sclerosis at presentation: an activation and connectivity study. *Multiple Sclerosis Journal*, **2012**, 18, 153-63	5	41
266	New magnetic resonance imaging biomarkers for the diagnosis of multiple sclerosis. *Expert Opinion on Medical Diagnostics*, **2012**, 6, 109-20		8
265	Optimizing parameter choice for FSL-Brain Extraction Tool (BET) on 3D T1 images in multiple sclerosis. *NeuroImage*, **2012**, 61, 1484-94	7.9	116
264	Neuroplasticity and functional recovery in multiple sclerosis. *Nature Reviews Neurology*, **2012**, 8, 635-46	15	100
263	Placebo-controlled trial of oral laquinimod for multiple sclerosis. *New England Journal of Medicine*, **2012**, 366, 1000-9	59.2	290
262	Consensus statement: evaluation of new and existing therapeutics for pediatric multiple sclerosis. *Multiple Sclerosis Journal*, **2012**, 18, 116-27	5	149
261	Abnormalities of resting state functional connectivity are related to sustained attention deficits in MS. *PLoS ONE*, **2012**, 7, e42862	3.7	43
260	Cervical cord FMRI abnormalities differ between the progressive forms of multiple sclerosis. *Human Brain Mapping*, **2012**, 33, 2072-80	5.9	22
259	The role of advanced magnetic resonance imaging techniques in primary progressive MS. *Journal of Neurology*, **2012**, 259, 611-21	5.5	24
258	The neurologist dilemma: MS is a grey matter disease that standard clinical and MRI measures cannot assess adequately--no. *Multiple Sclerosis Journal*, **2012**, 18, 557-8	5	2

257	Selective decreased grey matter volume of the pain-matrix network in cluster headache. *Cephalalgia*, **2012**, 32, 109-15	6.1	83
256	Abnormal cervical cord function contributes to fatigue in multiple sclerosis. *Multiple Sclerosis Journal*, **2012**, 18, 1552-9	5	22
255	Diffusion tensor MRI tractography and cognitive impairment in multiple sclerosis. *Neurology*, **2012**, 78, 969-75	6.5	90
254	Multiple sclerosis: effects of cognitive rehabilitation on structural and functional MR imaging measures--an explorative study. *Radiology*, **2012**, 262, 932-40	20.5	147
253	Differential cerebellar functional interactions during an interference task across multiple sclerosis phenotypes. *Radiology*, **2012**, 265, 864-73	20.5	30
252	Magnetic resonance imaging in Alzheimer disease: from diagnosis to monitoring treatment effect. *Current Alzheimer Research*, **2012**, 9, 1198-209	3	10
251	Evaluation and training of hands and feet movements performed with different strategies: a kinematic study. *Clinical Neurology and Neurosurgery*, **2011**, 113, 218-23	2	3
250	Extra-visual functional and structural connection abnormalities in Leber hereditary optic neuropathy. *PLoS ONE*, **2011**, 6, e17081	3.7	16
249	Cortical lesions in children with multiple sclerosis. *Neurology*, **2011**, 76, 910-3	6.5	43
248	Tract-specific white matter structural disruption in patients with bipolar disorder. *Bipolar Disorders*, **2011**, 13, 414-24	3.8	107
247	A multicentre study of motor functional connectivity changes in patients with multiple sclerosis. *European Journal of Neuroscience*, **2011**, 33, 1256-63	3.5	21
246	The multiple sclerosis mystery: is there a vascular component?. *Lancet Neurology, The*, **2011**, 10, 597-8	24.1	2
245	MRI assessment of iron deposition in multiple sclerosis. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 13-21	5.6	67
244	Phase III dose-comparison study of glatiramer acetate for multiple sclerosis. *Annals of Neurology*, **2011**, 69, 75-82	9.4	53
243	Cognitive impairment in multiple sclerosis is associated to different patterns of gray matter atrophy according to clinical phenotype. *Human Brain Mapping*, **2011**, 32, 1535-43	5.9	70
242	Consensus recommendations for MS cortical lesion scoring using double inversion recovery MRI. *Neurology*, **2011**, 76, 418-24	6.5	212
241	Interferon 1b and glatiramer acetate effects on permanent black hole evolution. *Neurology*, **2011**, 76, 1222-8	6.5	37
240	Overcoming the clinical-MR imaging paradox of multiple sclerosis: MR imaging data assessed with a random forest approach. *American Journal of Neuroradiology*, **2011**, 32, 2098-102	4.4	16

239	Thalamic damage predicts the evolution of primary-progressive multiple sclerosis at 5 years. *American Journal of Neuroradiology*, **2011**, 32, 1016-20	4.4	50
238	Deep grey matter T2 hypo-intensity in patients with paediatric multiple sclerosis. *Multiple Sclerosis Journal*, **2011**, 17, 702-7	5	19
237	Relationship between brain MRI lesion load and short-term disease evolution in non-disabling MS: a large-scale, multicentre study. *Multiple Sclerosis Journal*, **2011**, 17, 319-26	5	8
236	Intrinsic damage to the major white matter tracts in patients with different clinical phenotypes of multiple sclerosis: a voxelwise diffusion-tensor MR study. *Radiology*, **2011**, 260, 541-50	20.5	54
235	Voxelwise assessment of the regional distribution of damage in the brains of patients with multiple sclerosis and fatigue. *American Journal of Neuroradiology*, **2011**, 32, 874-9	4.4	63
234	Magnetic resonance techniques in multiple sclerosis: the present and the future. *Archives of Neurology*, **2011**, 68, 1514-20		106
233	MR imaging of multiple sclerosis. *Radiology*, **2011**, 259, 659-81	20.5	187
232	Dentate nucleus T1 hyperintensity in multiple sclerosis. *American Journal of Neuroradiology*, **2011**, 32, E120-1	4.4	8
231	A multicenter assessment of cervical cord atrophy among MS clinical phenotypes. *Neurology*, **2011**, 76, 2096-102	6.5	114
230	Mitoxantrone prior to interferon beta-1b in aggressive relapsing multiple sclerosis: a 3-year randomised trial. *Journal of Neurology, Neurosurgery and Psychiatry*, **2011**, 82, 1344-50	5.5	62
229	The role of magnetic resonance imaging in the study of multiple sclerosis: diagnosis, prognosis and understanding disease pathophysiology. *Acta Neurologica Belgica*, **2011**, 111, 89-98	1.5	12
228	Structural and functional magnetic resonance imaging correlates of motor network dysfunction in primary progressive multiple sclerosis. *European Journal of Neuroscience*, **2010**, 31, 1273-80	3.5	34
227	Comparative study of mitoxantrone efficacy profile in patients with relapsing-remitting and secondary progressive multiple sclerosis. *Multiple Sclerosis Journal*, **2010**, 16, 1490-9	5	22
226	Safety and efficacy of natalizumab in children with multiple sclerosis. *Neurology*, **2010**, 75, 912-7	6.5	71
225	Reply:. *American Journal of Neuroradiology*, **2010**, 31, E46-E46	4.4	78
224	Default-mode network dysfunction and cognitive impairment in progressive MS. *Neurology*, **2010**, 74, 1252-9	6.5	251
223	A diffusion tensor MRI study of cervical cord damage in benign and secondary progressive multiple sclerosis patients. *Journal of Neurology, Neurosurgery and Psychiatry*, **2010**, 81, 26-30	5.5	34
222	Intracortical lesions: relevance for new MRI diagnostic criteria for multiple sclerosis. *Neurology*, **2010**, 75, 1988-94	6.5	134

221	Functional MR imaging correlates of neuropsychological impairment in primary-progressive multiple sclerosis. *American Journal of Neuroradiology*, **2010**, 31, 1240-6	4.4	30
220	Bimonthly assessment of magnetization transfer magnetic resonance imaging parameters in multiple sclerosis: a 14-month, multicentre, follow-up study. *Multiple Sclerosis Journal*, **2010**, 16, 325-31	5	12
219	Central nervous system dysregulation extends beyond the pain-matrix network in cluster headache. *Cephalalgia*, **2010**, 30, 1383-91	6.1	47
218	The contribution of MRI in assessing cognitive impairment in multiple sclerosis. *Neurology*, **2010**, 75, 2121-8	6.5	135
217	Thalamic damage and long-term progression of disability in multiple sclerosis. *Radiology*, **2010**, 257, 463-9	20.5	107
216	Deep gray matter T2 hypointensity is present in patients with clinically isolated syndromes suggestive of multiple sclerosis. *Multiple Sclerosis Journal*, **2010**, 16, 39-44	5	49
215	Brain macro- and microscopic damage in patients with paediatric MS. *Journal of Neurology, Neurosurgery and Psychiatry*, **2010**, 81, 1357-62	5.5	17
214	Dirty-appearing white matter: a disregarded entity in multiple sclerosis. *American Journal of Neuroradiology*, **2010**, 31, 390-1	4.4	10
213	Preserved brain adaptive properties in patients with benign multiple sclerosis. *Neurology*, **2010**, 74, 142-6	6.5	46
212	MR imaging of gray matter involvement in multiple sclerosis: implications for understanding disease pathophysiology and monitoring treatment efficacy. *American Journal of Neuroradiology*, **2010**, 31, 1171-7	4.4	46
211	Functional and structural connectivity of the motor network in pediatric and adult-onset relapsing-remitting multiple sclerosis. *Radiology*, **2010**, 254, 541-50	20.5	63
210	The present and the future of neuroimaging in amyotrophic lateral sclerosis. *American Journal of Neuroradiology*, **2010**, 31, 1769-77	4.4	97
209	FMRI correlates of execution and observation of foot movements in left-handers. *Journal of the Neurological Sciences*, **2010**, 288, 34-41	3.2	18
208	Assessing lesion morphology in MS: why does this matter?. *Journal of the Neurological Sciences*, **2010**, 290, 194-5	3.2	
207	Use of Imaging in Multiple Sclerosis **2010**, 35-51		
206	The management of multiple sclerosis in children: a European view. *Multiple Sclerosis Journal*, **2010**, 16, 1258-67	5	69
205	Rapid semi-automatic segmentation of the spinal cord from magnetic resonance images: application in multiple sclerosis. *NeuroImage*, **2010**, 50, 446-55	7.9	203
204	A 3-year magnetic resonance imaging study of cortical lesions in relapse-onset multiple sclerosis. *Annals of Neurology*, **2010**, 67, 376-83	9.4	118

203	Sensorimotor network rewiring in mild cognitive impairment and Alzheimer's disease. *Human Brain Mapping*, **2010**, 31, 515-25	5.9	54
202	Novel MRI approaches to assess patients with multiple sclerosis. *Current Opinion in Neurology*, **2010**, 23, 212-7	7.1	12
201	MRI and cognition in multiple sclerosis. *Neurological Sciences*, **2010**, 31, S231-4	3.5	41
200	Neuropsychological rehabilitation in adult multiple sclerosis. *Neurological Sciences*, **2010**, 31, S271-4	3.5	39
199	Motor area localization using fMRI-constrained cortical current density reconstruction of movement-related cortical potentials, a comparison with fMRI and TMS mapping. *Brain Research*, **2010**, 1308, 68-78	3.7	9
198	Evidence for retrochiasmatic tissue loss in Leber's hereditary optic neuropathy. *Human Brain Mapping*, **2010**, 31, 1900-6	5.9	40
197	Evidence for acute neurotoxicity after chemotherapy. *Annals of Neurology*, **2010**, 68, 806-15	9.4	39
196	Motor learning in healthy humans is associated to gray matter changes: a tensor-based morphometry study. *PLoS ONE*, **2010**, 5, e10198	3.7	55
195	The brain functional networks associated to human and animal suffering differ among omnivores, vegetarians and vegans. *PLoS ONE*, **2010**, 5, e10847	3.7	52
194	T2 hypointensity in the deep gray matter of patients with benign multiple sclerosis. *Multiple Sclerosis Journal*, **2009**, 15, 678-86	5	47
193	In-vivo evidence for stable neuroaxonal damage in the brain of patients with benign multiple sclerosis. *Multiple Sclerosis Journal*, **2009**, 15, 789-94	5	21
192	Cortical lesions in primary progressive multiple sclerosis: a 2-year longitudinal MR study. *Neurology*, **2009**, 72, 1330-6	6.5	108
191	Can rate of brain atrophy in multiple sclerosis be explained by clinical and MRI characteristics?. *Multiple Sclerosis Journal*, **2009**, 15, 465-71	5	13
190	A short-term randomized MRI study of high-dose oral vs intravenous methylprednisolone in MS. *Neurology*, **2009**, 73, 1842-8	6.5	65
189	A longitudinal diffusion tensor MRI study of the cervical cord and brain in amyotrophic lateral sclerosis patients. *Journal of Neurology, Neurosurgery and Psychiatry*, **2009**, 80, 53-5	5.5	104
188	MRI features of benign multiple sclerosis: toward a new definition of this disease phenotype. *Neurology*, **2009**, 72, 1693-701	6.5	43
187	Tactile-associated fMRI recruitment of the cervical cord in healthy subjects. *Human Brain Mapping*, **2009**, 30, 340-5	5.9	20
186	Structural and functional MRI correlates of Stroop control in benign MS. *Human Brain Mapping*, **2009**, 30, 276-90	5.9	105

185	Abnormal connectivity of the sensorimotor network in patients with MS: a multicenter fMRI study. *Human Brain Mapping*, **2009**, 30, 2412-25	5.9	47
184	Corpus callosum damage and cognitive dysfunction in benign MS. *Human Brain Mapping*, **2009**, 30, 2656-66	5.9	82
183	Is a preserved functional reserve a mechanism limiting clinical impairment in pediatric MS patients?. *Human Brain Mapping*, **2009**, 30, 2844-51	5.9	57
182	A multiparametric evaluation of regional brain damage in patients with primary progressive multiple sclerosis. *Human Brain Mapping*, **2009**, 30, 3009-19	5.9	39
181	Influence of task complexity during coordinated hand and foot movements in MS patients with and without fatigue. A kinematic and functional MRI study. *Journal of Neurology*, **2009**, 256, 470-82	5.5	20
180	A search for new MRI criteria for dissemination in space in subjects with a clinically isolated syndrome. *European Radiology*, **2009**, 19, 2244-8	8	5
179	Short-term adaptation to a simple motor task: a physiological process preserved in multiple sclerosis. *NeuroImage*, **2009**, 45, 500-11	7.9	33
178	Cognitive learning is associated with gray matter changes in healthy human individuals: a tensor-based morphometry study. *NeuroImage*, **2009**, 48, 585-9	7.9	54
177	Effect of glatiramer acetate on conversion to clinically definite multiple sclerosis in patients with clinically isolated syndrome (PreCISe study): a randomised, double-blind, placebo-controlled trial. *Lancet, The*, **2009**, 374, 1503-11	40	475
176	Functional MR imaging in multiple sclerosis. *Neuroimaging Clinics of North America*, **2009**, 19, 59-70	3	39
175	Application of fMRI to Multiple Sclerosis and Other White Matter Disorders. *Neuromethods*, **2009**, 573-596	0.4	
174	fMRI of the Sensorimotor System. *Neuromethods*, **2009**, 493-511	0.4	
173	Relating functional changes during hand movement to clinical parameters in patients with multiple sclerosis in a multi-centre fMRI study. *European Journal of Neurology*, **2008**, 15, 113-22	6	61
172	Selective diffusion changes of the visual pathways in patients with migraine: a 3-T tractography study. *Cephalalgia*, **2008**, 28, 1061-8	6.1	53
171	MRI in multiple sclerosis: current status and future prospects. *Lancet Neurology, The*, **2008**, 7, 615-25	24.1	262
170	Short-term combination of glatiramer acetate with i.v. steroid treatment preceding treatment with GA alone assessed by MRI-disease activity in patients with relapsing-remitting multiple sclerosis. *Journal of the Neurological Sciences*, **2008**, 266, 44-50	3.2	10
169	Application of fMRI to the study of multiple sclerosis: an update. *Future Neurology*, **2008**, 3, 141-151	1.5	1
168	The topographical distribution of tissue injury in benign MS: a 3T multiparametric MRI study. *NeuroImage*, **2008**, 39, 1499-509	7.9	45

167	Voxel-based analysis derived from fractional anisotropy images of white matter volume changes with aging. *NeuroImage*, **2008**, 41, 657-67	7.9	97
166	A voxel-based morphometry study of grey matter loss in MS patients with different clinical phenotypes. *NeuroImage*, **2008**, 42, 315-22	7.9	170
165	Reproducibility of fMRI in the clinical setting: implications for trial designs. *NeuroImage*, **2008**, 42, 603-10	7.9	45
164	Effect of laquinimod on MRI-monitored disease activity in patients with relapsing-remitting multiple sclerosis: a multicentre, randomised, double-blind, placebo-controlled phase IIb study. *Lancet, The*, **2008**, 371, 2085-92	40	236
163	Evidence of thalamic gray matter loss in pediatric multiple sclerosis. *Neurology*, **2008**, 70, 1107-12	6.5	118
162	Restless legs syndrome is a common finding in multiple sclerosis and correlates with cervical cord damage. *Multiple Sclerosis Journal*, **2008**, 14, 86-93	5	99
161	The "mirror-neuron system" in MS: A 3 tesla fMRI study. *Neurology*, **2008**, 70, 255-62	6.5	29
160	Impairment of movement-associated brain deactivation in multiple sclerosis: further evidence for a functional pathology of interhemispheric neuronal inhibition. *Experimental Brain Research*, **2008**, 187, 25-31	2.3	46
159	Multiple sclerosis and allied white matter diseases. *Neurological Sciences*, **2008**, 29 Suppl 3, 319-22	3.5	9
158	Headache and migraine. *Neurological Sciences*, **2008**, 29 Suppl 3, 336-8	3.5	6
157	A three-year, multi-parametric MRI study in patients at presentation with CIS. *Journal of Neurology*, **2008**, 255, 683-91	5.5	65
156	Clinical and conventional MRI predictors of disability and brain atrophy accumulation in RRMS. A large scale, short-term follow-up study. *Journal of Neurology*, **2008**, 255, 1378-83	5.5	24
155	Agreement between different input image types in brain atrophy measurement in multiple sclerosis using SIENAX and SIENA. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 559-65	5.6	18
154	Evidence for enhanced functional activity of cervical cord in relapsing multiple sclerosis. *Magnetic Resonance in Medicine*, **2008**, 59, 1035-42	4.4	44
153	Functional cortical changes of the sensorimotor network are associated with clinical recovery in multiple sclerosis. *Human Brain Mapping*, **2008**, 29, 562-73	5.9	69
152	The mirror-neuron system and handedness: a "right" world?. *Human Brain Mapping*, **2008**, 29, 1243-54	5.9	19
151	Incorporating domain knowledge into the fuzzy connectedness framework: application to brain lesion volume estimation in multiple sclerosis. *IEEE Transactions on Medical Imaging*, **2007**, 26, 1670-80	11.7	19
150	Toward a definition of structural and functional MRI substrates of fatigue in multiple sclerosis. *Journal of the Neurological Sciences*, **2007**, 263, 1-2	3.2	10

149	Randomized, double-blind, dose-comparison study of glatiramer acetate in relapsing-remitting MS. *Neurology*, **2007**, 68, 939-44	6.5	39
148	Anton@ syndrome following callosal disconnection. *Behavioural Neurology*, **2007**, 18, 183-6	3	9
147	Influence of body segment position during in-phase and antiphase hand and foot movements: a kinematic and functional MRI study. *Human Brain Mapping*, **2007**, 28, 218-27	5.9	17
146	fMRI changes in relapsing-remitting multiple sclerosis patients complaining of fatigue after IFNbeta-1a injection. *Human Brain Mapping*, **2007**, 28, 373-82	5.9	71
145	Voxel-based morphometry study of brain volumetry and diffusivity in amyotrophic lateral sclerosis patients with mild disability. *Human Brain Mapping*, **2007**, 28, 1430-8	5.9	135
144	Assessing atrophy of the major white matter fiber bundles of the brain from diffusion tensor MRI data. *Magnetic Resonance in Medicine*, **2007**, 58, 527-34	4.4	26
143	Magnetization transfer magnetic resonance imaging of the brain, spinal cord, and optic nerve. *Neurotherapeutics*, **2007**, 4, 401-13	6.4	67
142	High prevalence of restless legs syndrome in multiple sclerosis. *European Journal of Neurology*, **2007**, 14, 534-9	6	108
141	Conventional MRI in multiple sclerosis. *Journal of Neuroimaging*, **2007**, 17 Suppl 1, 3S-9S	2.8	46
140	Functional MRI in multiple sclerosis. *Journal of Neuroimaging*, **2007**, 17 Suppl 1, 36S-41S	2.8	84
139	Normal-appearing white and grey matter damage in MS. A volumetric and diffusion tensor MRI study at 3.0 Tesla. *Journal of Neurology*, **2007**, 254, 513-8	5.5	65
138	Magnetic resonance imaging techniques to define and monitor tissue damage and repair in multiple sclerosis. *Journal of Neurology*, **2007**, 254, I55-I62	5.5	6
137	A three-year study of brain atrophy after autologous hematopoietic stem cell transplantation in rapidly evolving secondary progressive multiple sclerosis. *American Journal of Neuroradiology*, **2007** , 28, 1659-61	4.4	26
136	The long-term effect of AHSCT on MRI measures of MS evolution: a five-year follow-up study. *Multiple Sclerosis Journal*, **2007**, 13, 1068-70	5	45
135	A longitudinal conventional and magnetization transfer magnetic resonance imaging study of optic neuritis. *Multiple Sclerosis Journal*, **2007**, 13, 265-8	5	19
134	Altered functional and structural connectivities in patients with MS: a 3-T study. *Neurology*, **2007**, 69, 2136-45	6.5	106
133	Combining functional and structural brain magnetic resonance imaging in Huntington disease. *Journal of Computer Assisted Tomography*, **2007**, 31, 574-80	2.2	32
132	Long-term follow-up of patients treated with glatiramer acetate: a multicentre, multinational extension of the European/Canadian double-blind, placebo-controlled, MRI-monitored trial. *Multiple Sclerosis Journal*, **2007**, 13, 502-8	5	45

131	Functional MRI **2007**, 85-104		
130	Regional assessment of brain atrophy: a novel approach to achieve a more complete picture of tissue damage associated with central nervous system disorders?. *American Journal of Neuroradiology*, **2007**, 28, 260-1	4.4	5
129	MRI criteria for dissemination in space in patients with clinically isolated syndromes: a multicentre follow-up study. *Lancet Neurology, The*, **2006**, 5, 221-7	24.1	94
128	Subcortical damage and cortical functional changes in men and women with Fabry disease: a multifaceted MR study. *Radiology*, **2006**, 241, 492-500	20.5	21
127	Brain gray matter changes in migraine patients with T2-visible lesions: a 3-T MRI study. *Stroke*, **2006** , 37, 1765-70	6.7	252
126	Diffusion tensor magnetic resonance imaging at 3.0 tesla shows subtle cerebral grey matter abnormalities in patients with migraine. *Journal of Neurology, Neurosurgery and Psychiatry*, **2006**, 77, 686-9	5.5	38
125	An fMRI study of the motor system in patients with neuropsychiatric systemic lupus erythematosus. *NeuroImage*, **2006**, 30, 478-84	7.9	33
124	The level of spinal cord involvement influences the pattern of movement-associated cortical recruitment in patients with isolated myelitis. *NeuroImage*, **2006**, 30, 879-84	7.9	21
123	Toward a better understanding of cerebral plasticity in multiple sclerosis. *Journal of the Neurological Sciences*, **2006**, 244, 1-2	3.2	1
122	Assessment of MRI abnormalities of the brainstem from patients with migraine and multiple sclerosis. *Journal of the Neurological Sciences*, **2006**, 244, 137-41	3.2	51
121	EFNS guidelines on the use of neuroimaging in the management of multiple sclerosis. *European Journal of Neurology*, **2006**, 13, 313-25	6	53
120	MRI quantification of gray and white matter damage in patients with early-onset multiple sclerosis. *Journal of Neurology*, **2006**, 253, 903-7	5.5	53
119	Functional MRI to study brain plasticity in clinical neurology. *Neurological Sciences*, **2006**, 27 Suppl 1, S24-6	3.5	29
118	A multiparametric brain and cord MR imaging study of a patient with Hirayama disease. *American Journal of Neuroradiology*, **2006**, 27, 2115-7	4.4	7
117	MR imaging assessment of brain and cervical cord damage in patients with neuroborreliosis. *American Journal of Neuroradiology*, **2006**, 27, 892-4	4.4	26
116	Functional magnetic resonance imaging and multiple sclerosis. *Future Neurology*, **2006**, 1, 67-76	1.5	2
115	A method for obtaining tract-specific diffusion tensor MRI measurements in the presence of disease: application to patients with clinically isolated syndromes suggestive of multiple sclerosis. *NeuroImage*, **2005**, 26, 258-65	7.9	168
114	Mean diffusivity and fractional anisotropy histogram analysis of the cervical cord in MS patients. *NeuroImage*, **2005**, 26, 822-8	7.9	108

113	Imaging the optic nerve in multiple sclerosis. *Multiple Sclerosis Journal*, **2005**, 11, 537-41	5	33
112	Imaging Spinal Cord Damage in Multiple Sclerosis **2005**, 15, 297-304		11
111	Cortical adaptation in patients with MS: a cross-sectional functional MRI study of disease phenotypes. *Lancet Neurology, The*, **2005**, 4, 618-26	24.1	205
110	MRI evidence for multiple sclerosis as a diffuse disease of the central nervous system. *Journal of Neurology*, **2005**, 252 Suppl 5, v16-24	5.5	91
109	Serum MMP-9/TIMP-1 and MMP-2/TIMP-2 ratios in multiple sclerosis: relationships with different magnetic resonance imaging measures of disease activity during IFN-beta-1a treatment. *Multiple Sclerosis Journal*, **2005**, 11, 441-6	5	70
108	Quantification of cervical cord pathology in primary progressive MS using diffusion tensor MRI. *Neurology*, **2005**, 64, 631-5	6.5	92
107	Imaging spinal cord damage in multiple sclerosis **2005**, 15, 297-304		11
106	Multiple Sclerosis: Other MR Techniques **2005**, 225-240		
105	Regional brain atrophy evolves differently in patients with multiple sclerosis according to clinical phenotype. *American Journal of Neuroradiology*, **2005**, 26, 341-6	4.4	106
104	Persistence of congenital mirror movements after hemiplegic stroke. *American Journal of Neuroradiology*, **2005**, 26, 831-4	4.4	9
103	A widespread pattern of cortical activations in patients at presentation with clinically isolated symptoms is associated with evolution to definite multiple sclerosis. *American Journal of Neuroradiology*, **2005**, 26, 1136-9	4.4	27
102	MRI-Clinical Correlations in Multiple Sclerosis: Implications for Our Understanding of Neuronal Changes **2005**, 215-225		
101	Multiparametric MRI in a patient with adult-onset leukoencephalopathy with vanishing white matter. *Neurology*, **2004**, 62, 323-6	6.5	24
100	Imaging primary progressive multiple sclerosis: the contribution of structural, metabolic, and functional MRI techniques. *Multiple Sclerosis Journal*, **2004**, 10 Suppl 1, S36-44; discussion S44-5	5	22
99	Brain plasticity in multiple sclerosis. *European Neurology*, **2004**, 51, 189-90	2.1	2
98	A preliminary diffusion tensor and magnetization transfer magnetic resonance imaging study of early-onset multiple sclerosis. *Archives of Neurology*, **2004**, 61, 366-8		46
97	Imaging primary progressive multiple sclerosis: the contribution of structural, metabolic, and functional MRI techniques. *Multiple Sclerosis Journal*, **2004**, 10, S36-S45	5	15
96	Magnetization transfer and diffusion tensor MRI show gray matter damage in neuromyelitis optica. *Neurology*, **2004**, 62, 476-8	6.5	109

95	Magnetization Transfer Magnetic Resonance Imaging in the Assessment of Neurological Diseases. *Journal of Neuroimaging*, **2004**, 14, 303-313	2.8	69
94	Diffusion tensor and magnetization transfer MR imaging of early-onset multiple sclerosis. *Neurological Sciences*, **2004**, 25 Suppl 4, S344-5	3.5	4
93	MR imaging of Devic's neuromyelitis optica. *Neurological Sciences*, **2004**, 25 Suppl 4, S371-3	3.5	34
92	Simple and complex movement-associated functional MRI changes in patients at presentation with clinically isolated syndromes suggestive of multiple sclerosis. *Human Brain Mapping*, **2004**, 21, 108-17	5.9	85
91	A functional MRI study of movement-associated cortical changes in patients with Devic's neuromyelitis optica. *NeuroImage*, **2004**, 21, 1061-8	7.9	51
90	A functional MRI study of cortical activations associated with object manipulation in patients with MS. *NeuroImage*, **2004**, 21, 1147-54	7.9	52
89	Pyramidal tract lesions and movement-associated cortical recruitment in patients with MS. *NeuroImage*, **2004**, 23, 141-7	7.9	47
88	European study on intravenous immunoglobulin in multiple sclerosis: results of magnetization transfer magnetic resonance imaging analysis. *Archives of Neurology*, **2004**, 61, 1409-12		53
87	Magnetization transfer magnetic resonance imaging in the assessment of neurological diseases **2004**, 14, 303-13		26
86	Brain tissue loss occurs after suppression of enhancement in patients with multiple sclerosis treated with autologous haematopoietic stem cell transplantation. *Journal of Neurology, Neurosurgery and Psychiatry*, **2004**, 75, 643-4	5.5	65
85	The Grey Matter Component of MS Pathology: Magnetization Transfer and Diffusion-Weighted Imaging **2004**, 121-127		
84	Functional MRI in Multiple Sclerosis **2004**, 145-155		
83	A diffusion tensor magnetic resonance imaging study of brain tissue from patients with migraine. *Journal of Neurology, Neurosurgery and Psychiatry*, **2003**, 74, 501-3	5.5	48
82	Cord damage elicits brain functional reorganization after a single episode of myelitis. *Neurology*, **2003**, 61, 1078-85	6.5	37
81	Magnetic resonance-based techniques for the study and management of multiple sclerosis. *British Medical Bulletin*, **2003**, 65, 133-44	5.4	11
80	Disturbed function and plasticity in multiple sclerosis as gleaned from functional magnetic resonance imaging. *Current Opinion in Neurology*, **2003**, 16, 275-282	7.1	38
79	Evidence for cortical functional changes in patients with migraine and white matter abnormalities on conventional and diffusion tensor magnetic resonance imaging. *Stroke*, **2003**, 34, 665-70	6.7	45
78	Evidence of subtle gray-matter pathologic changes in healthy elderly individuals with nonspecific white-matter hyperintensities. *Archives of Neurology*, **2003**, 60, 1109-12		24

77	Disturbed function and plasticity in multiple sclerosis as gleaned from functional magnetic resonance imaging. *Current Opinion in Neurology*, **2003**, 16, 275-82	7.1	15
76	Occult tissue damage in patients with primary progressive multiple sclerosis is independent of T2-visible lesions--a diffusion tensor MR study. *Journal of Neurology*, **2003**, 250, 456-60	5.5	45
75	MRI aspects of the "inflammatory phase" of multiple sclerosis. *Neurological Sciences*, **2003**, 24 Suppl 5, S275-8	3.5	15
74	The use of quantitative magnetic-resonance-based techniques to monitor the evolution of multiple sclerosis. *Lancet Neurology, The*, **2003**, 2, 337-46	24.1	76
73	Validation of diagnostic magnetic resonance imaging criteria for multiple sclerosis and response to interferon beta1a. *Annals of Neurology*, **2003**, 53, 718-24	9.4	96
72	A diffusion tensor MRI study of basal ganglia from patients with ADEM. *Journal of the Neurological Sciences*, **2003**, 206, 27-30	3.2	18
71	Whole-brain atrophy in multiple sclerosis measured by two segmentation processes from various MRI sequences. *Journal of the Neurological Sciences*, **2003**, 216, 169-77	3.2	40
70	Demyelination and cortical reorganization: functional MRI data from a case of subacute combined degeneration. *NeuroImage*, **2003**, 18, 558-63	7.9	5
69	Evidence for axonal pathology and adaptive cortical reorganization in patients at presentation with clinically isolated syndromes suggestive of multiple sclerosis. *NeuroImage*, **2003**, 18, 847-55	7.9	122
68	Functional cortical changes in patients with multiple sclerosis and nonspecific findings on conventional magnetic resonance imaging scans of the brain. *NeuroImage*, **2003**, 19, 826-36	7.9	57
67	A functional magnetic resonance imaging study of patients with secondary progressive multiple sclerosis. *NeuroImage*, **2003**, 19, 1770-7	7.9	76
66	Diffusion-Weighted MRI **2003**, 33-45		
65	Functional MRI **2003**, 83-97		
64	Adaptive functional changes in the cerebral cortex of patients with nondisabling multiple sclerosis correlate with the extent of brain structural damage. *Annals of Neurology*, **2002**, 51, 330-9	9.4	197
63	Clinical trials and clinical practice in multiple sclerosis: conventional and emerging magnetic resonance imaging technologies. *Current Neurology and Neuroscience Reports*, **2002**, 2, 267-76	6.6	6
62	A preliminary study of magnetization transfer and diffusion tensor MRI of multiple sclerosis patients with fatigue. *Journal of Neurology*, **2002**, 249, 535-7	5.5	51
61	Evidence for widespread movement-associated functional MRI changes in patients with PPMS. *Neurology*, **2002**, 58, 866-72	6.5	131
60	Contribution of cervical cord MRI and brain magnetization transfer imaging to the assessment of individual patients with multiple sclerosis: a preliminary study. *Multiple Sclerosis Journal*, **2002**, 8, 52-8	5	12

59	Cerebral grey matter pathology and fatigue in patients with multiple sclerosis: a preliminary study. *Journal of the Neurological Sciences*, **2002**, 194, 71-4	3.2	47
58	Functional magnetic resonance imaging correlates of fatigue in multiple sclerosis. *NeuroImage*, **2002**, 15, 559-67	7.9	293
57	Correlations between structural CNS damage and functional MRI changes in primary progressive MS. *NeuroImage*, **2002**, 15, 537-46	7.9	159
56	Functional Magnetic Resonance Imaging **2002**, 113-124		
55	A magnetic resonance imaging study of the cervical cord of patients with CADASIL. *Neurology*, **2001**, 56, 1392-4	6.5	25
54	Short-term brain volume change in relapsing-remitting multiple sclerosis: effect of glatiramer acetate and implications. *Brain*, **2001**, 124, 1803-12	11.2	111
53	Glatiramer acetate reduces the proportion of new MS lesions evolving into "black holes". *Neurology*, **2001**, 57, 731-3	6.5	247
52	An MR study of tissue damage in the cervical cord of patients with migraine. *Journal of the Neurological Sciences*, **2001**, 183, 43-6	3.2	28
51	Weekly diffusion-weighted imaging of normal-appearing white matter in MS. *Neurology*, **2000**, 55, 882-4	6.5	121
50	Activity revealed in MRI of multiple sclerosis without contrast agent. A preliminary report. *Magnetic Resonance Imaging*, **2000**, 18, 139-42	3.3	7
49	A magnetization transfer imaging study of the brain in patients with migraine. *Neurology*, **2000**, 54, 507-9	6.5	47
48	A conventional and magnetization transfer MRI study of the cervical cord in patients with MS. *Neurology*, **2000**, 54, 207-13	6.5	118
47	Pathologic damage in MS assessed by diffusion-weighted and magnetization transfer MRI. *Neurology*, **2000**, 54, 1139-44	6.5	176
46	A quantitative study of water diffusion in multiple sclerosis lesions and normal-appearing white matter using echo-planar imaging. *Archives of Neurology*, **2000**, 57, 1017-21		184
45	Reproducibility of magnetization transfer ratio histogram-derived measures of the brain in healthy volunteers. *American Journal of Neuroradiology*, **2000**, 21, 133-6	4.4	28
44	Peripheral levels of caspase-1 mRNA correlate with disease activity in patients with multiple sclerosis; a preliminary study. *Journal of Neurology, Neurosurgery and Psychiatry*, **1999**, 67, 785-8	5.5	52
43	Reproducibility of brain MRI lesion volume measurements in multiple sclerosis using a local thresholding technique: effects of formal operator training. *European Neurology*, **1999**, 41, 226-30	2.1	9
42	MRI and magnetization transfer imaging changes in the brain and cervical cord of patients with Devic's neuromyelitis optica. *Neurology*, **1999**, 53, 1705-10	6.5	150

41	Lesion load measurements in multiple sclerosis: the effect of incorporating magnetization transfer contrast in fast-FLAIR sequence. *Magnetic Resonance Imaging*, **1999**, 17, 459-61	3.3	2
40	Short-term evolution of individual enhancing MS lesions studied with magnetization transfer imaging. *Magnetic Resonance Imaging*, **1999**, 17, 979-84	3.3	25
39	Lesion load quantification on fast-FLAIR, rapid acquisition relaxation-enhanced, and gradient spin echo brain MRI scans from multiple sclerosis patients. *Magnetic Resonance Imaging*, **1999**, 17, 1105-10	3.3	13
38	Method for intracellular magnetic labeling of human mononuclear cells using approved iron contrast agents. *Magnetic Resonance Imaging*, **1999**, 17, 1521-3	3.3	62
37	Disease activity in multiple sclerosis studied by weekly triple-dose magnetic resonance imaging. *Journal of Neurology*, **1999**, 246, 689-92	5.5	32
36	A multiparametric MRI study of frontal lobe dementia in multiple sclerosis. *Journal of the Neurological Sciences*, **1999**, 171, 135-44	3.2	40
35	Magnetization transfer imaging of patients with definite MS and negative conventional MRI. *Neurology*, **1999**, 52, 845-8	6.5	46
34	A longitudinal MR study of the presymptomatic phase in a patient with clinically definite multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 1268-72	4.4	3
33	Relevance of hypointense lesions on fast fluid-attenuated inversion recovery MR images as a marker of disease severity in cases of multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 813-20	4.4	31
32	Long-term changes of magnetization transfer-derived measures from patients with relapsing-remitting and secondary progressive multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 821-7	4.4	65
31	Comparison of three MR sequences for the detection of cervical cord lesions in patients with multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 1710-6	4.4	59
30	A comparison of MR imaging with fast-FLAIR, HASTE-FLAIR, and EPI-FLAIR sequences in the assessment of patients with multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 1931-8	4.4	10
29	Magnetization-transfer histogram analysis of the cervical cord in patients with multiple sclerosis. *American Journal of Neuroradiology*, **1999**, 20, 1803-8	4.4	37
28	Interscanner variation in brain MR lesion load measurements in multiple sclerosis using conventional spin-echo, rapid relaxation-enhanced, and fast-FLAIR sequences. *American Journal of Neuroradiology*, **1999**, 20, 133-7	4.4	19
27	Correlations between monthly enhanced MRI lesion rate and changes in T2 lesion volume in multiple sclerosis. *Annals of Neurology*, **1998**, 43, 332-9	9.4	142
26	Magnetization transfer changes in the normal appearing white matter precede the appearance of enhancing lesions in patients with multiple sclerosis. *Annals of Neurology*, **1998**, 43, 809-14	9.4	283
25	Quantitative volumetric analysis of brain magnetic resonance imaging from patients with multiple sclerosis. *Journal of the Neurological Sciences*, **1998**, 158, 148-53	3.2	55
24	A one year study of new lesions in multiple sclerosis using monthly gadolinium enhanced MRI: correlations with changes of T2 and magnetization transfer lesion loads. *Journal of the Neurological Sciences*, **1998**, 158, 203-8	3.2	21

23	A longitudinal brain MRI study comparing the sensitivities of the conventional and a newer approach for detecting active lesions in multiple sclerosis. *Journal of the Neurological Sciences*, **1998**, 159, 94-101	3.2	9
22	Magnetization transfer ratios of multiple sclerosis lesions with variable durations of enhancement. *Journal of the Neurological Sciences*, **1998**, 159, 162-5	3.2	46
21	Relation between MR abnormalities and patterns of cognitive impairment in multiple sclerosis. *Neurology*, **1998**, 50, 1601-8	6.5	230
20	Magnetization transfer ratios in multiple sclerosis lesions enhancing after different doses of gadolinium. *Neurology*, **1998**, 50, 1289-93	6.5	71
19	The effect of cross-talk on MRI lesion numbers and volumes in multiple sclerosis using conventional and turbo spin-echo. *Multiple Sclerosis Journal*, **1998**, 4, 471-4	5	3
18	Detecting new lesion formation in multiple sclerosis: the relative contributions of monthly dual-echo and T1-weighted scans after triple-dose gadolinium. *European Neurology*, **1998**, 40, 146-50	2.1	3
17	A comparison between the sensitivities of 3-mm and 5-mm thick serial brain MRI for detecting lesion volume changes in patients with multiple sclerosis **1998**, 8, 144-7		7
16	Intraobserver and interobserver variability in measuring changes in lesion volume on serial brain MR images in multiple sclerosis. *American Journal of Neuroradiology*, **1998**, 19, 685-7	4.4	5
15	MR outcome parameters in multiple sclerosis: comparison of surface-based thresholding segmentation and magnetization transfer ratio histographic analysis in relation to disability (a preliminary note). *American Journal of Neuroradiology*, **1998**, 19, 1857-62	4.4	11
14	Intraobserver and interobserver variability in schemes for estimating volume of brain lesions on MR images in multiple sclerosis. *American Journal of Neuroradiology*, **1998**, 19, 239-44	4.4	32
13	Increased spatial resolution using a three-dimensional T1-weighted gradient-echo MR sequence results in greater hypointense lesion volumes in multiple sclerosis. *American Journal of Neuroradiology*, **1998**, 19, 235-8	4.4	9
12	The influence of slice orientation on brain MRI lesion load measurement in multiple sclerosis. *Multiple Sclerosis Journal*, **1997**, 3, 382-4	5	0
11	The effect of imprecise repositioning on lesion volume measurements in patients with multiple sclerosis. *Neurology*, **1997**, 49, 274-6	6.5	37
10	Interscanner variation in brain MRI lesion load measurements in MS: implications for clinical trials. *Neurology*, **1997**, 49, 371-7	6.5	67
9	Sensitivity of delayed gadolinium-enhanced MRI in multiple sclerosis. *Acta Neurologica Scandinavica* , **1997**, 95, 331-4	3.8	23
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