Claudia A M Gandini Wheeler-Kingshott

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

238 papers	14,689 citations	57 h-index	117 g-index
263 ext. papers	17,462 ext. citations	6 avg, IF	6.38 L-index

#	Paper	IF	Citations
238	MAGNIMS recommendations for harmonization of MRI data in MS multicenter studies.. *NeuroImage: Clinical*, **2022**, 34, 102972	5.3	0
237	Association of Slowly Expanding Lesions on MRI With Disability in People With Secondary Progressive Multiple Sclerosis.. *Neurology*, **2022**,	6.5	3
236	Quantitative MRI Harmonization to Maximize Clinical Impact: The RIN-Neuroimaging Network.. *Frontiers in Neurology*, **2022**, 13, 855125	4.1	0
235	Assessing Lumbar Plexus and Sciatic Nerve Damage in Relapsing-Remitting Multiple Sclerosis Using Magnetisation Transfer Ratio.. *Frontiers in Neurology*, **2021**, 12, 763143	4.1	0
234	Spatial patterns of brain lesions assessed through covariance estimations of lesional voxels in multiple Sclerosis: The SPACE-MS technique. *NeuroImage: Clinical*, **2021**, 33, 102904	5.3	2
233	Pilot Study on Quantitative Cervical Cord and Muscular MRI in Spinal Muscular Atrophy: Promising Biomarkers of Disease Evolution and Treatment?. *Frontiers in Neurology*, **2021**, 12, 613834	4.1	4
232	Brain microstructural and metabolic alterations detected in vivo at onset of the first demyelinating event. *Brain*, **2021**, 144, 1409-1421	11.2	7
231	Blood Oxygenation Level-Dependent Response to Multiple Grip Forces in Multiple Sclerosis: Going Beyond the Main Effect of Movement in Brodmann Area 4a and 4p. *Frontiers in Cellular Neuroscience*, **2021**, 15, 616028	6.1	0
230	Cortical involvement determines impairment 30 years after a clinically isolated syndrome. *Brain*, **2021**, 144, 1384-1395	11.2	6
229	Predicting disability progression and cognitive worsening in multiple sclerosis using patterns of grey matter volumes. *Journal of Neurology, Neurosurgery and Psychiatry*, **2021**, 92, 995-1006	5.5	1
228	Quantitative magnetic resonance imaging towards clinical application in multiple sclerosis. *Brain*, **2021**, 144, 1296-1311	11.2	12
227	Motor and higher-order functions topography of the human dentate nuclei identified with tractography and clustering methods. *Human Brain Mapping*, **2021**, 42, 4348-4361	5.9	3
226	Comparison of Neurite Orientation Dispersion and Density Imaging and Two-Compartment Spherical Mean Technique Parameter Maps in Multiple Sclerosis. *Frontiers in Neurology*, **2021**, 12, 662855	4.1	2
225	Ongoing microstructural changes in the cervical cord underpin disability progression in early primary progressive multiple sclerosis. *Multiple Sclerosis Journal*, **2021**, 27, 28-38	5	8
224	Mind the gap: from neurons to networks to outcomes in multiple sclerosis. *Nature Reviews Neurology*, **2021**, 17, 173-184	15	18
223	Deep Learning Model Fitting for Diffusion-Relaxometry: A Comparative Study. *Mathematics and Visualization*, **2021**, 159-172	0.6	2
222	Automatic Segmentation of Dentate Nuclei for Microstructure Assessment: Example of Application to Temporal Lobe Epilepsy Patients. *Mathematics and Visualization*, **2021**, 263-278	0.6	0

221	Image quality assessment for closed-loop computer-assisted lung ultrasound **2021**,		7
220	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. *Scientific Data*, **2021**, 8, 219	8.2	6
219	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
218	Tracking White and Gray Matter Degeneration along the Spinal Cord Axis in Degenerative Cervical Myelopathy. *Journal of Neurotrauma*, **2021**, 38, 2978-2987	5.4	0
217	Generic acquisition protocol for quantitative MRI of the spinal cord. *Nature Protocols*, **2021**, 16, 4611-4632	13.8	11
216	Safety and efficacy of bexarotene in patients with relapsing-remitting multiple sclerosis (CCMR One): a randomised, double-blind, placebo-controlled, parallel-group, phase 2a study. *Lancet Neurology, The*, **2021**, 20, 709-720	24.1	6
215	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. *NeuroImage*, **2021**, 243, 118502	7.9	18
214	Thalamocortical Connectivity in Experimentally-Induced Migraine Attacks: A Pilot Study. *Brain Sciences*, **2021**, 11,	3.4	1
213	Lung Ultrasound Segmentation and Adaptation Between COVID-19 and Community-Acquired Pneumonia. *Lecture Notes in Computer Science*, **2021**, 45-53	0.9	2
212	White matter integrity correlates with cognition and disease severity in Fabry disease. *Brain*, **2020**, 143, 3331-3342	11.2	3
211	A Machine Learning Approach for the Differential Diagnosis of Alzheimer and Vascular Dementia Fed by MRI Selected Features. *Frontiers in Neuroinformatics*, **2020**, 14, 25	3.9	24
210	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. *NeuroImage*, **2020**, 217, 116884	7.9	11
209	Substantia Nigra Volumetry with 3-T MRI in De Novo and Advanced Parkinson Disease. *Radiology*, **2020**, 296, 401-410	20.5	10
208	Disrupted principal network organisation in multiple sclerosis relates to disability. *Scientific Reports* , **2020**, 10, 3620	4.9	2
207	Unsuspected Involvement of Spinal Cord in Alzheimer Disease. *Frontiers in Cellular Neuroscience*, **2020**, 14, 6	6.1	7
206	Translating pH-sensitive PROgressive saturation for QUantifying Exchange rates using Saturation Times (PRO-QUEST) MRI to a 3T clinical scanner. *Magnetic Resonance in Medicine*, **2020**, 84, 1734-1746	4.4	0
205	Efficacy of three neuroprotective drugs in secondary progressive multiple sclerosis (MS-SMART): a phase 2b, multiarm, double-blind, randomised placebo-controlled trial. *Lancet Neurology, The*, **2020**, 19, 214-225	24.1	48
204	Amiloride, fluoxetine or riluzole to reduce brain volume loss in secondary progressive multiple sclerosis: the MS-SMART four-arm RCT. *Efficacy and Mechanism Evaluation*, **2020**, 7, 1-72	1.7	6

203	Medical Informatics Platform (MIP): A Pilot Study Across Clinical Italian Cohorts. *Frontiers in Neurology*, **2020**, 11, 1021	4.1	3
202	Reduced neurite density in the brain and cervical spinal cord in relapsing-remitting multiple sclerosis: A NODDI study. *Multiple Sclerosis Journal*, **2020**, 26, 1647-1657	5	24
201	Generalised boundary shift integral for longitudinal assessment of spinal cord atrophy. *NeuroImage* , **2020**, 209, 116489	7.9	10
200	Sodium in the Relapsing-Remitting Multiple Sclerosis Spinal Cord: Increased Concentrations and Associations With Microstructural Tissue Anisotropy. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 1429-1438	5.6	2
199	Frontal and Cerebellar Atrophy Supports FTSD-ALS Clinical Continuum. *Frontiers in Aging Neuroscience*, **2020**, 12, 593526	5.3	1
198	NAA is a Marker of Disability in Secondary-Progressive MS: A Proton MR Spectroscopic Imaging Study. *American Journal of Neuroradiology*, **2020**, 41, 2209-2218	4.4	5
197	Pathologic correlates of the magnetization transfer ratio in multiple sclerosis. *Neurology*, **2020**, 95, e2965-e2976	6.5	18
196	The Importance of Cerebellar Connectivity on Simulated Brain Dynamics. *Frontiers in Cellular Neuroscience*, **2020**, 14, 240	6.1	4
195	Clinical relevance of cortical network dynamics in early primary progressive MS. *Multiple Sclerosis Journal*, **2020**, 26, 442-456	5	9
194	A multi-shell multi-tissue diffusion study of brain connectivity in early multiple sclerosis. *Multiple Sclerosis Journal*, **2020**, 26, 774-785	5	8
193	Periventricular magnetisation transfer ratio abnormalities in multiple sclerosis improve after alemtuzumab. *Multiple Sclerosis Journal*, **2020**, 26, 1093-1101	5	5
192	Magnetisation transfer ratio abnormalities in primary and secondary progressive multiple sclerosis. *Multiple Sclerosis Journal*, **2020**, 26, 679-687	5	8
191	Spinal cord involvement in multiple sclerosis and neuromyelitis optica spectrum disorders. *Lancet Neurology, The*, **2019**, 18, 185-197	24.1	74
190	Lifespan normative data on rates of brain volume changes. *Neurobiology of Aging*, **2019**, 81, 30-37	5.6	24
189	Spatial Characterisation of Fibre Response Functions for Spherical Deconvolution in Multiple Sclerosis. *Mathematics and Visualization*, **2019**, 265-279	0.6	
188	Fast bound pool fraction mapping via steady-state magnetization transfer saturation using single-shot EPI. *Magnetic Resonance in Medicine*, **2019**, 82, 1025-1040	4.4	3
187	Early cortical and late striatal diffusion restriction on 3T MRI in a long-lived sporadic creutzfeldt-jakob disease case. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 1659-1662	5.6	1
186	Default Mode Network Structural Integrity and Cerebellar Connectivity Predict Information Processing Speed Deficit in Multiple Sclerosis. *Frontiers in Cellular Neuroscience*, **2019**, 13, 21	6.1	8

185	Cortical grey matter sodium accumulation is associated with disability and secondary progressive disease course in relapse-onset multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2019**, 90, 755-760	5.5	10
184	Longitudinal spinal cord atrophy in multiple sclerosis using the generalized boundary shift integral. *Annals of Neurology*, **2019**, 86, 704-713	9.4	22
183	Early imaging predictors of long-term outcomes in relapse-onset multiple sclerosis. *Brain*, **2019**, 142, 2276-2287	11.2	65
182	Guidelines for the conduct of clinical trials in spinal cord injury: Neuroimaging biomarkers. *Spinal Cord*, **2019**, 57, 717-728	2.7	21
181	Relevance of time-dependence for clinically viable diffusion imaging of the spinal cord. *Magnetic Resonance in Medicine*, **2019**, 81, 1247-1264	4.4	18
180	Gray vs. White Matter Segmentation of the Conus Medullaris: Reliability and Variability in Healthy Volunteers. *Journal of Neuroimaging*, **2019**, 29, 410-417	2.8	4
179	Structural network disruption markers explain disability in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2019**, 90, 219-226	5.5	24
178	I See Your Effort: Force-Related BOLD Effects in an Extended Action Execution-Observation Network Involving the Cerebellum. *Cerebral Cortex*, **2019**, 29, 1351-1368	5.1	11
177	From micro- to macro-structures in multiple sclerosis: what is the added value of diffusion imaging. *NMR in Biomedicine*, **2019**, 32, e3888	4.4	18
176	Bi-exponential Na T * component analysis in the human brain. *NMR in Biomedicine*, **2018**, 31, e3899	4.4	9
175	Increased resting cerebral blood flow in adult Fabry disease: MRI arterial spin labeling study. *Neurology*, **2018**, 90, e1379-e1385	6.5	14
174	Deep gray matter volume loss drives disability worsening in multiple sclerosis. *Annals of Neurology*, **2018**, 83, 210-222	9.4	185
173	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
172	Brain atrophy and disability worsening in primary progressive multiple sclerosis: insights from the INFORMS study. *Annals of Clinical and Translational Neurology*, **2018**, 5, 346-356	5.3	13
171	Abnormal age-related cortical folding and neurite morphology in children with developmental dyslexia. *NeuroImage: Clinical*, **2018**, 18, 814-821	5.3	17
170	Spinal cord atrophy as a primary outcome measure in phase II trials of progressive multiple sclerosis. *Multiple Sclerosis Journal*, **2018**, 24, 932-941	5	31
169	An optimized framework for quantitative magnetization transfer imaging of the cervical spinal cord in vivo. *Magnetic Resonance in Medicine*, **2018**, 79, 2576-2588	4.4	7
168	Fast and reproducible in vivo T mapping of the human cervical spinal cord. *Magnetic Resonance in Medicine*, **2018**, 79, 2142-2148	4.4	12

167	Specific Patterns of White Matter Alterations Help Distinguishing Alzheimer's and Vascular Dementia. *Frontiers in Neuroscience*, **2018**, 12, 274	5.1	32
166	Structural cortical network reorganization associated with early conversion to multiple sclerosis. *Scientific Reports*, **2018**, 8, 10715	4.9	10
165	Challenges and Perspectives of Quantitative Functional Sodium Imaging (fNaI). *Frontiers in Neuroscience*, **2018**, 12, 810	5.1	5
164	Author response: Increased resting cerebral blood flow in adult Fabry disease: MRI arterial spin labeling study. *Neurology*, **2018**, 91, 1072	6.5	
163	Prominent Changes in Cerebro-Cerebellar Functional Connectivity During Continuous Cognitive Processing. *Frontiers in Cellular Neuroscience*, **2018**, 12, 331	6.1	15
162	Functional Connectivity Alterations Reveal Complex Mechanisms Based on Clinical and Radiological Status in Mild Relapsing Remitting Multiple Sclerosis. *Frontiers in Neurology*, **2018**, 9, 690	4.1	21
161	Multiple Sclerosis-Secondary Progressive Multi-Arm Randomisation Trial (MS-SMART): a multiarm phase IIb randomised, double-blind, placebo-controlled clinical trial comparing the efficacy of three neuroprotective drugs in secondary progressive multiple sclerosis. *BMJ Open*, **2018**, 8, e021944	3	26
160	Progression of regional grey matter atrophy in multiple sclerosis. *Brain*, **2018**, 141, 1665-1677	11.2	146
159	Characterisation of tissue-type metabolic content in secondary progressive multiple sclerosis: a magnetic resonance spectroscopic imaging study. *Journal of Neurology*, **2018**, 265, 1795-1802	5.5	7
158	Is multiple sclerosis a length-dependent central axonopathy? The case for therapeutic lag and the asynchronous progressive MS hypotheses. *Multiple Sclerosis and Related Disorders*, **2017**, 12, 70-78	4	64
157	Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. *NeuroImage*, **2017**, 148, 77-102	7.9	136
156	Machine learning based compartment models with permeability for white matter microstructure imaging. *NeuroImage*, **2017**, 150, 119-135	7.9	52
155	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. *NMR in Biomedicine*, **2017**, 30, e3734	4.4	26
154	Spinal cord grey matter segmentation challenge. *NeuroImage*, **2017**, 152, 312-329	7.9	64
153	An abnormal periventricular magnetization transfer ratio gradient occurs early in multiple sclerosis. *Brain*, **2017**, 140, 387-398	11.2	39
152	Contralateral cortico-ponto-cerebellar pathways reconstruction in humans in vivo: implications for reciprocal cerebro-cerebellar structural connectivity in motor and non-motor areas. *Scientific Reports*, **2017**, 7, 12841	4.9	78
151	Sensitivity of multi-shell NODDI to multiple sclerosis white matter changes: a pilot study. *Functional Neurology*, **2017**, 32, 97-101	2.2	61
150	Neurite dispersion: a new marker of multiple sclerosis spinal cord pathology?. *Annals of Clinical and Translational Neurology*, **2017**, 4, 663-679	5.3	148

149	Cerebellar lobules and dentate nuclei mirror cortical force-related-BOLD responses: Beyond all (linear) expectations. *Human Brain Mapping*, **2017**, 38, 2566-2579	5.9	9
148	Association of asymptomatic spinal cord lesions and atrophy with disability 5 years after a clinically isolated syndrome. *Multiple Sclerosis Journal*, **2017**, 23, 665-674	5	83
147	A longitudinal study of cortical grey matter lesion subtypes in relapse-onset multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2016**, 87, 750-3	5.5	12
146	DIR-visible grey matter lesions and atrophy in multiple sclerosis: partners in crime?. *Journal of Neurology, Neurosurgery and Psychiatry*, **2016**, 87, 461-7	5.5	30
145	Complex motor task associated with non-linear BOLD responses in cerebro-cortical areas and cerebellum. *Brain Structure and Function*, **2016**, 221, 2443-58	4	16
144	Fully automated grey and white matter spinal cord segmentation. *Scientific Reports*, **2016**, 6, 36151	4.9	28
143	Bingham-NODDI: Mapping anisotropic orientation dispersion of neurites using diffusion MRI. *NeuroImage*, **2016**, 133, 207-223	7.9	97
142	Phenytoin for neuroprotection in patients with acute optic neuritis: a randomised, placebo-controlled, phase 2 trial. *Lancet Neurology, The*, **2016**, 15, 259-69	24.1	129
141	White and gray matter damage in primary progressive MS: The chicken or the egg?. *Neurology*, **2016**, 86, 170-6	6.5	25
140	Fully automated segmentation of the cervical cord from T1-weighted MRI using PropSeg: Application to multiple sclerosis. *NeuroImage: Clinical*, **2016**, 10, 71-7	5.3	44
139	Characteristics of lesional and extra-lesional cortical grey matter in relapsing-remitting and secondary progressive multiple sclerosis: A magnetisation transfer and diffusion tensor imaging study. *Multiple Sclerosis Journal*, **2016**, 22, 150-9	5	19
138	Longitudinal evidence for anterograde trans-synaptic degeneration after optic neuritis. *Brain*, **2016**, 139, 816-28	11.2	46
137	Reconstructing contralateral fiber tracts: methodological aspects of cerebello-thalamocortical pathway reconstruction. *Functional Neurology*, **2016**, 31, 229-238	2.2	10
136	Reduced Field-of-View Diffusion-Weighted Imaging of the Lumbosacral Enlargement: A Pilot In Vivo Study of the Healthy Spinal Cord at 3T. *PLoS ONE*, **2016**, 11, e0164890	3.7	9
135	Exploring Patterns of Alteration in Alzheimer's Disease Brain Networks: A Combined Structural and Functional Connectomics Analysis. *Frontiers in Neuroscience*, **2016**, 10, 380	5.1	24
134	ZOOM or Non-ZOOM? Assessing Spinal Cord Diffusion Tensor Imaging Protocols for Multi-Centre Studies. *PLoS ONE*, **2016**, 11, e0155557	3.7	39
133	Fully Automated Patch-Based Image Restoration: Application to Pathology Inpainting. *Lecture Notes in Computer Science*, **2016**, 3-15	0.9	2
132	Relationship of grey and white matter abnormalities with distance from the surface of the brain in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2016**, 87, 1212-1217	5.5	36

131	HLA-DRB*1501 associations with magnetic resonance imaging measures of grey matter pathology in multiple sclerosis. *Multiple Sclerosis and Related Disorders*, **2016**, 7, 47-52	4	6
130	A framework for optimal whole-sample histological quantification of neurite orientation dispersion in the human spinal cord. *Journal of Neuroscience Methods*, **2016**, 273, 20-32	3	20
129	A multi-time-point modality-agnostic patch-based method for lesion filling in multiple sclerosis. *NeuroImage*, **2016**, 139, 376-384	7.9	52
128	Contralateral cerebello-thalamo-cortical pathways with prominent involvement of associative areas in humans in vivo. *Brain Structure and Function*, **2015**, 220, 3369-84	4	99
127	Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo. *NeuroImage*, **2015**, 111, 590-601	7.9	80
126	The grey matter correlates of impaired decision-making in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2015**, 86, 530-6	5.5	24
125	Reduced gamma-aminobutyric acid concentration is associated with physical disability in progressive multiple sclerosis. *Brain*, **2015**, 138, 2584-95	11.2	71
124	Motor network efficiency and disability in multiple sclerosis. *Neurology*, **2015**, 85, 1115-22	6.5	30
123	White matter compartment models for in vivo diffusion MRI at 300mT/m. *NeuroImage*, **2015**, 118, 468-83	7.9	47
122	Nonconventional MRI and microstructural cerebral changes in multiple sclerosis. *Nature Reviews Neurology*, **2015**, 11, 676-86	15	93
121	Regional patterns of grey matter atrophy and magnetisation transfer ratio abnormalities in multiple sclerosis clinical subgroups: a voxel-based analysis study. *Multiple Sclerosis Journal*, **2015**, 21, 423-32	5	13
120	Spinal cord grey matter abnormalities are associated with secondary progression and physical disability in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2015**, 86, 608-14	5.5	52
119	Measuring brain atrophy with a generalized formulation of the boundary shift integral. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S81-90	5.6	18
118	Differential involvement of cortical and cerebellar areas using dominant and nondominant hands: An FMRI study. *Human Brain Mapping*, **2015**, 36, 5079-100	5.9	24
117	THE MS-SMART TRIAL IN SECONDARY PROGRESSIVE MULTIPLE SCLEROSIS: A MULTI-ARM, MULTI-CENTRE TRIAL OF NEUROPROTECTION. *Journal of Neurology, Neurosurgery and Psychiatry*, **2015**, 86, e4.8-e4	5.5	
116	Magnetization transfer ratio measures in normal-appearing white matter show periventricular gradient abnormalities in multiple sclerosis. *Brain*, **2015**, 138, 1239-46	11.2	56
115	Evidence for early neurodegeneration in the cervical cord of patients with primary progressive multiple sclerosis. *Brain*, **2015**, 138, 1568-82	11.2	42
114	Cervical cord lesion load is associated with disability independently from atrophy in MS. *Neurology*, **2015**, 84, 367-73	6.5	81

113	Effects of delayed-release dimethyl fumarate on MRI measures in the phase 3 CONFIRM study. *Neurology*, **2015**, 84, 1145-52	6.5	47
112	Cervical cord area measurement using volumetric brain magnetic resonance imaging in multiple sclerosis. *Multiple Sclerosis and Related Disorders*, **2015**, 4, 52-7	4	23
111	Multi-channel registration of fractional anisotropy and T1-weighted images in the presence of atrophy: application to multiple sclerosis. *Functional Neurology*, **2015**, 30, 245-56	2.2	6
110	Grey and White Matter Magnetisation Transfer Ratio Measurements in the Lumbosacral Enlargement: A Pilot In Vivo Study at 3T. *PLoS ONE*, **2015**, 10, e0134495	3.7	3
109	Improved MRI quantification of spinal cord atrophy in multiple sclerosis. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 617-23	5.6	64
108	Imaging outcomes for trials of remyelination in multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 1396-404	5.5	75
107	Determinants of iron accumulation in deep grey matter of multiple sclerosis patients. *Multiple Sclerosis Journal*, **2014**, 20, 1692-8	5	41
106	The current state-of-the-art of spinal cord imaging: applications. *NeuroImage*, **2014**, 84, 1082-93	7.9	142
105	Voxel-based cervical spinal cord mapping of diffusion abnormalities in MS-related myelitis. *Neurology*, **2014**, 83, 1321-5	6.5	18
104	In vivo estimation of dispersion anisotropy of neurites using diffusion MRI. *Lecture Notes in Computer Science*, **2014**, 17, 241-8	0.9	4
103	Pathogenesis of multiple sclerosis: insights from molecular and metabolic imaging. *Lancet Neurology, The*, **2014**, 13, 807-22	24.1	153
102	Machine learning based compartment models with permeability for white matter microstructure imaging. *Lecture Notes in Computer Science*, **2014**, 17, 257-64	0.9	11
101	Accurate GM atrophy quantification in MS using lesion-filling with co-registered 2D lesion masks. *NeuroImage: Clinical*, **2014**, 4, 366-73	5.3	32
100	The current state-of-the-art of spinal cord imaging: methods. *NeuroImage*, **2014**, 84, 1070-81	7.9	201
99	Sample sizes for lesion magnetisation transfer ratio outcomes in remyelination trials for multiple sclerosis. *Multiple Sclerosis and Related Disorders*, **2014**, 3, 237-43	4	17
98	A ranking of diffusion MRI compartment models with in vivo human brain data. *Magnetic Resonance in Medicine*, **2014**, 72, 1785-92	4.4	61
97	Multicenter R2* mapping in the healthy brain. *Magnetic Resonance in Medicine*, **2014**, 71, 1103-7	4.4	13
96	The use of the lumbosacral enlargement as an intrinsic imaging biomarker: feasibility of grey matter and white matter cross-sectional area measurements using MRI at 3T. *PLoS ONE*, **2014**, 9, e105544	3.7	17

95	A comprehensive assessment of resting state networks: bidirectional modification of functional integrity in cerebro-cerebellar networks in dementia. *Frontiers in Neuroscience*, **2014**, 8, 223	5.1	47
94	Reduced grey matter perfusion without volume loss in early relapsing-remitting multiple sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 544-51	5.5	52
93	Investigation of outer cortical magnetisation transfer ratio abnormalities in multiple sclerosis clinical subgroups. *Multiple Sclerosis Journal*, **2014**, 20, 1322-30	5	48
92	SPINAL CORD GLUTAMATE-GLUTAMINE IS ELEVATED IN MS RELAPSE. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, e4.30-e4	5.5	
91	Cerebral arterial bolus arrival time is prolonged in multiple sclerosis and associated with disability. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 34-42	7.3	42
90	Memory in multiple sclerosis is linked to glutamate concentration in grey matter regions. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 833-9	5.5	56
89	Spatial variability and changes of metabolite concentrations in the cortico-spinal tract in multiple sclerosis using coronal CSI. *Human Brain Mapping*, **2014**, 35, 993-1003	5.9	9
88	Investigation of magnetization transfer ratio-derived pial and subpial abnormalities in the multiple sclerosis spinal cord. *Brain*, **2014**, 137, 2456-68	11.2	32
87	NETWORK EFFICIENCY AND COGNITIVE DEFICITS IN MS. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, e4.48-e4	5.5	
86	Sodium ((23)Na) ultra-short echo time imaging in the human brain using a 3D-Cones trajectory. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2014**, 27, 35-46	2.8	26
85	Age related changes in metabolite concentrations in the normal spinal cord. *PLoS ONE*, **2014**, 9, e105774	3.7	12
84	A modality-agnostic patch-based technique for lesion filling in multiple sclerosis. *Lecture Notes in Computer Science*, **2014**, 17, 781-8	0.9	7
83	In vivo magnetic resonance spectroscopy detection of combined glutamate-glutamine in healthy upper cervical cord at 3 T. *NMR in Biomedicine*, **2013**, 26, 357-66	4.4	17
82	Sulcal and gyral crown cortical grey matter involvement in multiple sclerosis: A magnetisation transfer ratio study. *Multiple Sclerosis and Related Disorders*, **2013**, 2, 204-12	4	3
81	Low myo-inositol indicating astrocytic damage in a case series of neuromyelitis optica. *Annals of Neurology*, **2013**, 74, 301-5	9.4	37
80	Metabolic changes in the spinal cord after brachial plexus root re-implantation. *Neurorehabilitation and Neural Repair*, **2013**, 27, 118-24	4.7	17
79	SODIUM ACCUMULATION IS ASSOCIATED WITH DISABILITY AND PROGRESSION IN MULTIPLE SCLEROSIS: A 23NA MRI STUDY. *Journal of Neurology, Neurosurgery and Psychiatry*, **2013**, 84, e2.144-e2	5.5	3
78	ADvanced IMage Algebra (ADIMA): a novel method for depicting multiple sclerosis lesion heterogeneity, as demonstrated by quantitative MRI. *Multiple Sclerosis Journal*, **2013**, 19, 732-41	5	2

77	LOBAR DISTRIBUTION OF CORTICAL GREY MATTER LESIONS IN MULTIPLE SCLEROSIS CLINICAL SUBGROUPS. *Journal of Neurology, Neurosurgery and Psychiatry*, **2013**, 84, e2.99-e2	5.5	3
76	MS cortical lesions on DIR: not quite what they seem?. *PLoS ONE*, **2013**, 8, e78879	3.7	34
75	Ranking diffusion-MRI models with in-vivo human brain data **2013**,		1
74	Diffusion MRI-based cortical complexity alterations associated with executive function in multiple sclerosis. *Journal of Magnetic Resonance Imaging*, **2013**, 38, 54-63	5.6	15
73	Tissue- and column-specific measurements from multi-parameter mapping of the human cervical spinal cord at 3 T. *NMR in Biomedicine*, **2013**, 26, 1823-30	4.4	18
72	Sodium accumulation is associated with disability and a progressive course in multiple sclerosis. *Brain*, **2013**, 136, 2305-17	11.2	85
71	Sodium quantification in the spinal cord at 3T. *Magnetic Resonance in Medicine*, **2013**, 69, 1201-8	4.4	12
70	MRI acquisition and analysis protocol for in vivo intraorbital optic nerve segmentation at 3T **2013**, 54, 4235-40		13
69	Development of a high-resolution fat and CSF-suppressed optic nerve DTI protocol at 3T: application in multiple sclerosis. *Functional Neurology*, **2013**, 28, 93-100	2.2	9
68	The importance of being dispersed: A ranking of diffusion MRI models for fibre dispersion using in vivo human brain data. *Lecture Notes in Computer Science*, **2013**, 16, 74-81	0.9	11
67	Advanced MR imaging techniques and characterization of residual anatomy. *Clinical Neurology and Neurosurgery*, **2012**, 114, 460-70	2	19
66	Neurodegenerative dementias: From MR Physics lab to assessment room. *European Physical Journal Plus*, **2012**, 127, 1	3.1	3
65	Poster #55 CORTICAL THINNING OVER TWO YEARS FOLLOWING THE FIRST EPISODE OF PSYCHOSIS: RELATIONSHIP TO TREATMENT DURATION AND COGNITIVE IMPAIRMENT. *Schizophrenia Research*, **2012**, 136, S205	3.6	
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List of Publications

5	Physiological MR of the spine853-863	
4	Select and retrieve via direct upsampling network (SARDU-Net): a data-driven, model-free, deep learning approach for quantitative MRI protocol design	3
3	Tractography dissection variability: what happens when 42 groups dissect 14 white matter bundles on the same dataset?	5
2	Deep learning model fitting for diffusion-relaxometry: a comparative study	4
1	Unsuspected involvement of spinal cord in Alzheimer Disease	1