

Cornelia Laule

List of Publications by Year in descending order

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86
papers

4,345
citations

147801

31
h-index

114465

63
g-index

91
all docs

91
docs citations

91
times ranked

3991
citing authors

#	ARTICLE	IF	CITATIONS
1	Myelin water imaging in multiple sclerosis: quantitative correlations with histopathology. Multiple Sclerosis Journal, 2006, 12, 747-753.	3.0	414
2	Water content and myelin water fraction in multiple sclerosis. Journal of Neurology, 2004, 251, 284-293.	3.6	334
3	Insights into brain microstructure from the T2 distribution. Magnetic Resonance Imaging, 2006, 24, 515-525.	1.8	324
4	Myelin water imaging of multiple sclerosis at 7T: Correlations with histopathology. NeuroImage, 2008, 40, 1575-1580.	4.2	319
5	Magnetic resonance imaging of myelin. Neurotherapeutics, 2007, 4, 460-484.	4.4	269
6	Rapid whole cerebrum myelin water imaging using a 3D GRASE sequence. NeuroImage, 2012, 63, 533-539.	4.2	222
7	Magnetic Resonance of Myelin Water: An <i>In vivo</i> Marker for Myelin. Brain Plasticity, 2016, 2, 71-91.	3.5	205
8	Is the magnetization transfer ratio a marker for myelin in multiple sclerosis?. Journal of Magnetic Resonance Imaging, 2011, 33, 710-718.	3.4	158
9	Cell-based therapeutic strategies for multiple sclerosis. Brain, 2017, 140, 2776-2796.	7.6	139
10	Spinal cord involvement in multiple sclerosis and neuromyelitis optica spectrum disorders. Lancet Neurology, The, 2019, 18, 185-197.	10.2	110
11	Comparison of myelin water fraction from multi-echo T ₂ decay curve and steady-state methods. Magnetic Resonance in Medicine, 2015, 73, 223-232.	3.0	72
12	Pathological basis of diffusely abnormal white matter: insights from magnetic resonance imaging and histology. Multiple Sclerosis Journal, 2011, 17, 144-150.	3.0	67
13	Generic acquisition protocol for quantitative MRI of the spinal cord. Nature Protocols, 2021, 16, 4611-4632.	12.0	65
14	Long T2 water in multiple sclerosis: What else can we learn from multi-echo T2 relaxation?. Journal of Neurology, 2007, 254, 1579-1587.	3.6	64
15	MR evidence of long T ₂ water in pathological white matter. Journal of Magnetic Resonance Imaging, 2007, 26, 1117-1121.	3.4	63
16	Reproducibility of myelin water fraction analysis: a comparison of region of interest and voxel-based analysis methods. Magnetic Resonance Imaging, 2009, 27, 1096-1103.	1.8	63
17	Two-year study of cervical cord volume and myelin water in primary progressive multiple sclerosis. Multiple Sclerosis Journal, 2010, 16, 670-677.	3.0	63
18	Magnetic resonance frequency shifts during acute MS lesion formation. Neurology, 2013, 81, 211-218.	1.1	61

#	ARTICLE	IF	CITATIONS
19	Multicenter measurements of myelin water fraction and geometric mean T_2 : Intra- and intersite reproducibility. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1445-1453.	3.4	61
20	Normal-appearing White Matter in Patients with Phenylketonuria: Water Content, Myelin Water Fraction, and Metabolite Concentrations. <i>Radiology</i> , 2007, 242, 236-243.	7.3	59
21	Diffusely Abnormal White Matter in Multiple Sclerosis: Further Histologic Studies Provide Evidence for a Primary Lipid Abnormality With Neurodegeneration. <i>Journal of Neuropathology and Experimental Neurology</i> , 2013, 72, 42-52.	1.7	59
22	Evolution of focal and diffuse magnetisation transfer abnormalities in multiple sclerosis. <i>Journal of Neurology</i> , 2003, 250, 924-931.	3.6	54
23	Pathological correlates of magnetic resonance imaging texture heterogeneity in multiple sclerosis. <i>Annals of Neurology</i> , 2013, 74, 91-99.	5.3	54
24	Myelin water imaging to detect demyelination and remyelination and its validation in pathology. <i>Brain Pathology</i> , 2018, 28, 750-764.	4.1	50
25	Myelin water measurement in the spinal cord. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 883-892.	3.0	45
26	Assessing structure and function of myelin in cervical spondylotic myelopathy. <i>Neurology</i> , 2017, 89, 602-610.	1.1	45
27	Complementary information from multi-exponential T2 relaxation and diffusion tensor imaging reveals differences between multiple sclerosis lesions. <i>NeuroImage</i> , 2008, 40, 77-85.	4.2	43
28	An atlas for human brain myelin content throughout the adult life span. <i>Scientific Reports</i> , 2021, 11, 269.	3.3	42
29	Insight into in vivo magnetization exchange in human white matter regions. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1142-1151.	3.0	40
30	How does magnetization transfer influence mc^{DESPOT} results?. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1327-1335.	3.0	39
31	48 echo T2 myelin imaging of white matter in first-episode schizophrenia: Evidence for aberrant myelination. <i>NeuroImage: Clinical</i> , 2014, 6, 408-414.	2.7	38
32	Global loss of myelin water over 5 years in multiple sclerosis normal-appearing white matter. <i>Multiple Sclerosis Journal</i> , 2018, 24, 1557-1568.	3.0	33
33	High-resolution myelin water imaging in post-mortem multiple sclerosis spinal cord: A case report. <i>Multiple Sclerosis Journal</i> , 2016, 22, 1485-1489.	3.0	32
34	Coexistence of Multiple Sclerosis and Alzheimer's disease: A review. <i>Multiple Sclerosis and Related Disorders</i> , 2019, 27, 232-238.	2.0	32
35	Does hydration status affect MRI measures of brain volume or water content?. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 296-304.	3.4	30
36	Hematopoietic Stem Cell Transplantation in Late-Onset Krabbe Disease: No Evidence of Worsening Demyelination and Axonal Loss 4 Years Post-allograft. <i>Journal of Neuroimaging</i> , 2018, 28, 252-255.	2.0	29

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37	Myelin Water Atlas: A Template for Myelin Distribution in the Brain. <i>Journal of Neuroimaging</i> , 2019, 29, 699-706.	2.0	29
38	Measuring water content using T2 relaxation at 3T: Phantom validations and simulations. <i>Magnetic Resonance Imaging</i> , 2016, 34, 246-251.	1.8	27
39	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. <i>Scientific Data</i> , 2021, 8, 219.	5.3	27
40	Myelin water imaging data analysis in less than one minute. <i>NeuroImage</i> , 2020, 210, 116551.	4.2	26
41	Brain MRI features and scoring of leukodystrophy in adult-onset Krabbe disease. <i>Neurology</i> , 2019, 93, e647-e652.	1.1	25
42	In vivo multiecho T2 relaxation measurements using variable TR to decrease scan time. <i>Magnetic Resonance Imaging</i> , 2007, 25, 834-839.	1.8	24
43	Imaging Mechanisms of Disease Progression in Multiple Sclerosis: Beyond Brain Atrophy. <i>Journal of Neuroimaging</i> , 2020, 30, 251-266.	2.0	24
44	A 24-month advanced magnetic resonance imaging study of multiple sclerosis patients treated with alemtuzumab. <i>Multiple Sclerosis Journal</i> , 2019, 25, 811-818.	3.0	20
45	Neuropathologic Correlates of Magnetic Resonance Imaging in Multiple Sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012, 71, 762-778.	1.7	19
46	Multicenter Measurements of T ₁ Relaxation and Diffusion Tensor Imaging: Intra and Intersite Reproducibility. <i>Journal of Neuroimaging</i> , 2019, 29, 42-51.	2.0	19
47	Associations Between Findings From Myelin Water Imaging and Cognitive Performance Among Individuals With Multiple Sclerosis. <i>JAMA Network Open</i> , 2020, 3, e2014220.	5.9	18
48	Myelin Damage in Normal Appearing White Matter Contributes to Impaired Cognitive Processing Speed in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2020, 30, 205-211.	2.0	17
49	What causes the hyperintense T2-weighting and increased short T2 signal in the corticospinal tract?. <i>Magnetic Resonance Imaging</i> , 2013, 31, 329-335.	1.8	16
50	Rapid myelin water imaging for the assessment of cervical spinal cord myelin damage. <i>NeuroImage: Clinical</i> , 2019, 23, 101896.	2.7	16
51	Short-term stability of T ₁ and T ₂ relaxation measures in multiple sclerosis normal appearing white matter. <i>Journal of Neurology</i> , 2012, 259, 1151-1158.	3.6	15
52	Thalamic stimulation in multiple sclerosis: evidence for a "demyelinative thalamotomy". <i>Multiple Sclerosis Journal</i> , 2009, 15, 1311-1321.	3.0	14
53	Brain Myelin Water Fraction and Diffusion Tensor Imaging Atlases for 9-10 Year Old Children. <i>Journal of Neuroimaging</i> , 2020, 30, 150-160.	2.0	14
54	Temporal phase correction of multiple echo T2 magnetic resonance images. <i>Journal of Magnetic Resonance</i> , 2013, 231, 22-31.	2.1	13

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55	Complement and Humoral Adaptive Immunity in the Human Choroid Plexus: Roles for Stromal Concretions, Basement Membranes, and Epithelium. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 415-428.	1.7	13
56	Myelin Water Fraction and Intra/Extracellular Water Geometric Mean T ₂ Normative Atlases for the Cervical Spinal Cord from 3T MRI. <i>Journal of Neuroimaging</i> , 2020, 30, 50-57.	2.0	13
57	Myelin Water Imaging Demonstrates Lower Brain Myelination in Children and Adolescents With Poor Reading Ability. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 568395.	2.0	13
58	Water content changes in new multiple sclerosis lesions have a minimal effect on the determination of myelin water fraction values. <i>Journal of Neuroimaging</i> , 2021, 31, 1119-1125.	2.0	12
59	Characterization of multiple sclerosis neuroinflammation and neurodegeneration with relaxation and diffusion basis spectrum imaging. <i>Multiple Sclerosis Journal</i> , 2022, 28, 418-428.	3.0	11
60	Diffusely Abnormal White Matter, T ₂ Burden of Disease, and Brain Volume in Relapsing-Remitting Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2019, 29, 151-159.	2.0	10
61	Longer Repetition Time Proton MR Spectroscopy Shows Increasing Hippocampal and Parahippocampal Metabolite Concentrations with Aging. <i>Journal of Neuroimaging</i> , 2019, 29, 592-597.	2.0	9
62	Exploring the Contribution of Myelin Content in Normal Appearing White Matter to Cognitive Outcomes in Cerebral Small Vessel Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 91-101.	2.6	9
63	Temperature dependence and histological correlation of inhomogeneous magnetization transfer and myelin water imaging in ex vivo brain. <i>NeuroImage</i> , 2021, 236, 118046.	4.2	9
64	Orientation dependence of inhomogeneous magnetization transfer and dipolar order relaxation rate in phospholipid bilayers. <i>Journal of Magnetic Resonance</i> , 2022, 338, 107205.	2.1	9
65	Serum neurofilament light chain correlates with myelin and axonal magnetic resonance imaging markers in multiple sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2022, 57, 103366.	2.0	8
66	A proton NMR study on the hydration of normal versus psoriatic stratum corneum: linking distinguishable reservoirs to anatomical structures. <i>NMR in Biomedicine</i> , 2010, 23, 1181-1190.	2.8	6
67	Intra- and inter-site reproducibility of human brain single-voxel proton MRS at 3T. <i>NMR in Biomedicine</i> , 2019, 32, e4083.	2.8	6
68	Longitudinal advanced MRI case report of white matter radiation necrosis. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 379-385.	3.7	6
69	Characterization of brain tumours with spin-spin relaxation: pilot case study reveals unique T ₂ distribution profiles of glioblastoma, oligodendroglioma and meningioma. <i>Journal of Neurology</i> , 2017, 264, 2205-2214.	3.6	5
70	Diffusely abnormal white matter in multiple sclerosis. <i>Journal of Neuroimaging</i> , 2022, 32, 5-16.	2.0	5
71	Myelin water imaging in relapsing multiple sclerosis treated with ocrelizumab and interferon beta-1a. <i>NeuroImage: Clinical</i> , 2022, 35, 103109.	2.7	5
72	Cervical cord myelin abnormality is associated with clinical disability in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2021, 27, 2191-2198.	3.0	4

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73	Myelin Water Imaging and Transcranial Magnetic Stimulation Suggest Structure-Function Relationships in Multiple Sclerosis. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	3
74	Nonlesional diffusely abnormal appearing white matter in clinically isolated syndrome: Prevalence, association with clinical and MRI features, and risk for conversion to multiple sclerosis. <i>Journal of Neuroimaging</i> , 2021, 31, 981-994.	2.0	3
75	A data-driven T2 relaxation analysis approach for myelin water imaging: Spectrum analysis for multiple exponentials via experimental condition oriented simulation (SAME-COS). <i>Magnetic Resonance in Medicine</i> , 2022, 87, 915-931.	3.0	3
76	Elevated levels of serum CD5 antigen-like protein distinguish secondary progressive multiple sclerosis from other disease subtypes. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 56, 103269.	2.0	3
77	Cervical Spinal Cord Atrophy can be Accurately Quantified Using Head Images. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2022, 8, 205521732110707.	1.0	3
78	Magnetic resonance techniques for investigation of multiple sclerosis. , 2014, , .		2
79	Correlating new directional measures of myelin and axonal integrity in T2-weighted MRI with quantitative histology in multiple sclerosis. <i>Journal of Neuroscience Methods</i> , 2019, 311, 369-376.	2.5	2
80	Muscle Activity with 0.5T Upright MRI - DESS to Measure T ₂ in Biceps and Triceps. <i>Journal of Orthopaedic Research</i> , 0, , .	2.3	1
81	Studying Multiple Sclerosis with Magnetic Resonance. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
82	T2 Relaxation. , 2014, , 181-206.		0
83	How does magnetization transfer influence mcDESPOT results?. <i>Magnetic Resonance in Medicine</i> , 2015, 74, spcone-spcone.	3.0	0
84	Learning-Challenged Youth Show an Abnormal Relationship Between Fronto-Parietal Myelination and Mathematical Ability. <i>Journal of Neuroimaging</i> , 2020, 30, 648-657.	2.0	0
85	Relaxometry: Applications in the Brain. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020, 1, 149-184.	0.1	0
86	The International Spinal Cord Injury Biobank (ISCIB): A Biorepository and Resource for Translational Research. <i>Journal of Neurotrauma</i> , 0, , .	3.4	0