Peter A Calabresi

List of Publications by Year
in descending order

356 papers	28,096 citations	8755 75 h-index	7160 153 g-index
371 all docs	371 docs citations	371 times ranked	23065 citing authors

#	Article	IF	Citations
1	Defining the clinical course of multiple sclerosis. Neurology, 2014, 83, 278-286.	1.1	2,344
2	Multiple Sclerosis. New England Journal of Medicine, 2018, 378, 169-180.	27.0	1,653
3	Rituximab in patients with primary progressive multiple sclerosis: Results of a randomized doubleâ€blind placeboâ€controlled multicenter trial. Annals of Neurology, 2009, 66, 460-471.	5.3	815
4	Safety and efficacy of fingolimod in patients with relapsing-remitting multiple sclerosis (FREEDOMS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 545-556.	10.2	707
5	Ocrelizumab in relapsing-remitting multiple sclerosis: a phase 2, randomised, placebo-controlled, multicentre trial. Lancet, The, 2011, 378, 1779-1787.	13.7	636
6	Relation of Visual Function to Retinal Nerve Fiber Layer Thickness in Multiple Sclerosis. Ophthalmology, 2006, 113, 324-332.	5.2	589
7	Optical coherence tomography in multiple sclerosis: a systematic review and meta-analysis. Lancet Neurology, The, 2010, 9, 921-932.	10.2	503
8	Dimethyl fumarate targets GAPDH and aerobic glycolysis to modulate immunity. Science, 2018, 360, 449-453.	12.6	489
9	Kv1.3 channels are a therapeutic target for T cell-mediated autoimmune diseases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17414-17419.	7.1	470
10	Abnormal Bâ€cell cytokine responses a trigger of Tâ€cellâ€“mediated disease in MS?. Annals of Neurology, 2010, 67, 452-461.	5.3	428
11	Retinal layer segmentation in multiple sclerosis: a systematic review and meta-analysis. Lancet Neurology, The, 2017, 16, 797-812.	10.2	397
12	The voltage-gated Kv1.3 K+ channel in effector memory T cells as new target for MS. Journal of Clinical Investigation, 2003, 111, 1703-1713.	8.2	368
13	Imaging outcomes for neuroprotection and repair in multiple sclerosis trials. Nature Reviews Neurology, 2009, 5, 256-266.	10.1	352
14	Pegylated interferon beta-1a for relapsing-remitting multiple sclerosis (ADVANCE): a randomised, phase 3, double-blind study. Lancet Neurology, The, 2014, 13, 657-665.	10.2	339
15	Longitudinal study of vision and retinal nerve fiber layer thickness in multiple sclerosis. Annals of Neurology, 2010, 67, 749-760.	5.3	308
16	A lymphocyteâ€“microgliaâ€“astrocyte axis in chronic active multiple sclerosis. Nature, 2021, 597, 709-714.	27.8	307
17	Optical coherence tomography segmentation reveals ganglion cell layer pathology after optic neuritis. Brain, 2012, 135, 521-533.	7.6	306
18	Optical coherence tomography reflects brain atrophy in multiple sclerosis: A fourâ€year study. Annals of Neurology, 2015, 78, 801-813.	5.3	304

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19	Statistical normalization techniques for magnetic resonance imaging. NeuroImage: Clinical, 2014, 6, 9-19.	2.7	300
20	Primary retinal pathology in multiple sclerosis as detected by optical coherence tomography. Brain, 2011, 134, 518-533.	7.6	291
21	A topology-preserving approach to the segmentation of brain images with multiple sclerosis lesions. NeuroImage, 2010, 49, 1524-1535.	4.2	287
22	Optical coherence tomography: a window into the mechanisms of multiple sclerosis. Nature Clinical Practice Neurology, 2008, 4, 664-675.	2.5	282
23	Microcystic macular oedema, thickness of the inner nuclear layer of the retina, and disease characteristics in multiple sclerosis: a retrospective study. Lancet Neurology, The, 2012, 11, 963-972.	10.2	267
24	Retinal thickness measured with optical coherence tomography and risk of disability worsening in multiple sclerosis: a cohort study. Lancet Neurology, The, 2016, 15, 574-584.	10.2	266
25	Retinal layer segmentation of macular OCT images using boundary classification. Biomedical Optics Express, 2013, 4, 1133.	2.9	265
26	Ganglion Cell Loss in Relation to Visual Disability in Multiple Sclerosis. Ophthalmology, 2012, 119, 1250-1257.	5.2	260
27	Gadolinium-based MRI characterization of leptomeningeal inflammation in multiple sclerosis. Neurology, 2015, 85, 18-28.	1.1	247
28	Oligodendrocyte precursor cells present antigen and are cytotoxic targets in inflammatory demyelination. Nature Communications, 2019, 10, 3887.	12.8	245
29	Visual dysfunction in multiple sclerosis correlates better with optical coherence tomography derived estimates of macular ganglion cell layer thickness than peripapillary retinal nerve fiber layer thickness. Multiple Sclerosis Journal, 2011, 17, 1449-1463.	3.0	239
30	Quality control for retinal OCT in multiple sclerosis: validation of the OSCAR-IB criteria. Multiple Sclerosis Journal, 2015, 21, 163-170.	3.0	237
31	Targeting Effector Memory T Cells with a Selective Peptide Inhibitor of Kv1.3 Channels for Therapy of Autoimmune Diseases. Molecular Pharmacology, 2005, 67, 1369-1381.	2.3	232
32	Induction of IL-17 and nonclassical T-cell activation by HIV-Tat protein. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13588-13593.	7.1	218
33	Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. NeuroImage, 2017, 148, 77-102.	4.2	215
34	Active MS is associated with accelerated retinal ganglion cell/inner plexiform layer thinning. Neurology, 2013, 80, 47-54.	1.1	200
35	Relationships Between Retinal Axonal and Neuronal Measures and Global Central Nervous System Pathology in Multiple Sclerosis. JAMA Neurology, 2013, 70, 34.	9.0	197
36	High resolution diffusion tensor imaging of axonal damage in focal inflammatory and demyelinating lesions in rat spinal cord. Brain, 2007, 130, 2199-2210.	7.6	183

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37	Non-myeloablative autologous haematopoietic stem cell transplantation expands regulatory cells and depletes IL-17 producing mucosal-associated invariant T cells in multiple sclerosis. Brain, 2013, 136, 2888-2903.	7.6	174
38	The voltage-gated potassium channel Kv1.3 is highly expressed on inflammatory infiltrates in multiple sclerosis brain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11094-11099.	7.1	172
39	Healthâ€related quality of life in multiple sclerosis: effects of natalizumab. Annals of Neurology, 2007, 62, 335-346.	5.3	172
40	Diffusion Tensor Magnetic Resonance Imaging of Wallerian Degeneration in Rat Spinal Cord after Dorsal Root Axotomy. Journal of Neuroscience, 2009, 29, 3160-3171.	3.6	167
41	Macular Volume Determined by Optical Coherence Tomography as a Measure of Neuronal Loss in Multiple Sclerosis. Archives of Neurology, 2009, 66, 1366-72.	4.5	165
42	DeepHarmony: A deep learning approach to contrast harmonization across scanner changes. Magnetic Resonance Imaging, 2019, 64, 160-170.	1.8	150
43	Increases in soluble VCAM-1 correlate with a decrease in MRI lesions in multiple sclerosis treated with interferon ?-1b. Annals of Neurology, 1997, 41, 669-674.	5.3	149
44	A defect of sphingolipid metabolism modifies the properties of normal appearing white matter in multiple sclerosis. Brain, 2008, 131, 3092-3102.	7.6	148
45	Optical Coherence Tomography (OCT): Imaging the Visual Pathway as a Model for Neurodegeneration. Neurotherapeutics, 2011, 8, 117-132.	4.4	145
46	Damage to the Optic Radiation in Multiple Sclerosis Is Associated With Retinal Injury and Visual Disability. Archives of Neurology, 2009, 66, 998-1006.	4.5	142
47	Human iPSC-derived blood-brain barrier microvessels: validation of barrier function and endothelial cell behavior. Biomaterials, 2019, 190-191, 24-37.	11.4	141
48	Association of Cortical Lesion Burden on 7-T Magnetic Resonance Imaging With Cognition and Disability in Multiple Sclerosis. JAMA Neurology, 2015, 72, 1004.	9.0	140
49	PET imaging of microglia by targeting macrophage colony-stimulating factor 1 receptor (CSF1R). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1686-1691.	7.1	140
50	In vivo identification of morphologic retinal abnormalities in neuromyelitis optica. Neurology, 2013, 80, 1406-1414.	1.1	138
51	Sensorimotor dysfunction in multiple sclerosis and column-specific magnetization transfer-imaging abnormalities in the spinal cord. Brain, 2009, 132, 1200-1209.	7.6	130
52	Cerebrospinal fluid ceramides from patients with multiple sclerosis impair neuronal bioenergetics. Brain, 2014, 137, 2271-2286.	7.6	128
53	Diagnosis and management of multiple sclerosis. American Family Physician, 2004, 70, 1935-44.	0.1	128
54	Safety and immunologic effects of high- vs low-dose cholecalciferol in multiple sclerosis. Neurology, 2016, 86, 382-390.	1.1	124

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55	Axonal Protective Effects of the Myelin-Associated Glycoprotein. Journal of Neuroscience, 2009, 29, 630-637.	3.6	121
56	IL-6 induces regionally selective spinal cord injury in patients with the neuroinflammatory disorder transverse myelitis. Journal of Clinical Investigation, 2005, 115, 2731-2741.	8.2	115
57	Low-Frequency and Rare-Coding Variation Contributes to Multiple Sclerosis Risk. Cell, 2018, 175, 1679-1687.e7.	28.9	115
58	Retinal Imaging by Laser Polarimetry and Optical Coherence Tomography Evidence of Axonal Degeneration in Multiple Sclerosis. Archives of Neurology, 2008, 65, 924-8.	4.5	114
59	Safety and efficacy of opicinumab in patients with relapsing multiple sclerosis (SYNERGY): a randomised, placebo-controlled, phase 2 trial. Lancet Neurology, The, 2019, 18, 845-856.	10.2	110
60	Bile acid metabolism is altered in multiple sclerosis and supplementation ameliorates neuroinflammation. Journal of Clinical Investigation, 2020, 130, 3467-3482.	8.2	109
61	Differentiating neuromyelitis optica from other causes of longitudinally extensive transverse myelitis on spinal magnetic resonance imaging. Multiple Sclerosis Journal, 2016, 22, 302-311.	3.0	106
62	Optimal intereye difference thresholds by optical coherence tomography in multiple sclerosis: An international study. Annals of Neurology, 2019, 85, 618-629.	5.3	104
63	Reproducibility of high-resolution optical coherence tomography in multiple sclerosis. Multiple Sclerosis Journal, 2010, 16, 829-839.	3.0	98
64	Revisiting Brain Atrophy and Its Relationship to Disability in Multiple Sclerosis. PLoS ONE, 2012, 7, e37049.	2.5	97
65	Neuropsychiatric syndromes of multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, 697-708.	1.9	97
66	Inhibition of FLT3 signaling targets DCs to ameliorate autoimmune disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16741-16746.	7.1	96
67	APOSTEL 2.0 Recommendations for Reporting Quantitative Optical Coherence Tomography Studies. Neurology, 2021, 97, 68-79.	1.1	96
68	Volumetric Analysis from a Harmonized Multisite Brain MRI Study of a Single Subject with Multiple Sclerosis. American Journal of Neuroradiology, 2017, 38, 1501-1509.	2.4	95
69	Evaluating White Matter Lesion Segmentations with Refined SÃ¸rensen-Dice Analysis. Scientific Reports, 2020, 10, 8242.	3.3	94
70	Peginterferon beta-1a in multiple sclerosis: 2-year results from ADVANCE. Multiple Sclerosis Journal, 2015, 21, 1025-1035.	3.0	91
71	Paramagnetic Rim Lesions are Specific to Multiple Sclerosis: An International Multicenter 3T MRI Study. Annals of Neurology, 2020, 88, 1034-1042.	5.3	89
72	Characterization of the Functional Properties of the Voltage-Gated Potassium Channel Kv1.3 in Human CD4+ T Lymphocytes. Journal of Immunology, 2007, 179, 4563-4570.	0.8	86

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73	Transfer of Myelin-Reactive Th17 Cells Impairs Endogenous Remyelination in the Central Nervous System of Cuprizone-Fed Mice. Journal of Neuroscience, 2015, 35, 8626-8639.	3.6	86
74	Discordant humoral and T cell immune responses to SARS-CoV-2 vaccination in people with multiple sclerosis on anti-CD20 therapy. EBioMedicine, 2021, 73, 103636.	6.1	85
75	Multiparametric magnetic resonance imaging analysis of the corticospinal tract in multiple sclerosisâ˜†. NeuroImage, 2007, 38, 271-279.	4.2	84
76	Photoreceptor layer thinning in idiopathic Parkinson's disease. Movement Disorders, 2014, 29, 1163-1170.	3.9	84
77	In vivo assessment of retinal neuronal layers in multiple sclerosis with manual and automated optical coherence tomography segmentation techniques. Journal of Neurology, 2012, 259, 2119-2130.	3.6	83
78	Lineage tracing reveals dynamic changes in oligodendrocyte precursor cells following cuprizoneâ€induced demyelination. Glia, 2017, 65, 2087-2098.	4.9	81
79	OASIS is Automated Statistical Inference for Segmentation, with applications to multiple sclerosis lesion segmentation in MRI. NeuroImage: Clinical, 2013, 2, 402-413.	2.7	80
80	Magnetic susceptibility contrast variations in multiple sclerosis lesions. Journal of Magnetic Resonance Imaging, 2016, 43, 463-473.	3.4	79
81	Metabolic alterations in multiple sclerosis and the impact of vitamin D supplementation. JCI Insight, 2017, 2, .	5.0	79
82	Reduction of Disease Activity and Disability With High-Dose Cyclophosphamide in Patients With Aggressive Multiple Sclerosis. Archives of Neurology, 2008, 65, 1044-51.	4.5	78
83	Varicella-zoster virus encephalitis and vasculopathy in a patient treated with fingolimod. Neurology, 2012, 79, 2002-2004.	1.1	75
84	Aquaporin-4 IgG seropositivity is associated with worse visual outcomes after optic neuritis than MOG-IgG seropositivity and multiple sclerosis, independent of macular ganglion cell layer thinning. Multiple Sclerosis Journal, 2020, 26, 1360-1371.	3.0	75
85	Increased serum levels of soluble CD95 (APO-1/Fas) in relapsing-remitting multiple sclerosis. Annals of Neurology, 1998, 43, 116-120.	5.3	73
86	Lesion Heterogeneity on High-Field Susceptibility MRI Is Associated with Multiple Sclerosis Severity. American Journal of Neuroradiology, 2016, 37, 1447-1453.	2.4	73
87	Disease-modifying therapies modulate retinal atrophy in multiple sclerosis. Neurology, 2017, 88, 525-532.	1.1	73
88	Reproducibility of Optical Coherence Tomography in Multiple Sclerosis. Archives of Neurology, 2008, 65, 1218-22.	4.5	72
89	The Impact of Utilizing Different Optical Coherence Tomography Devices for Clinical Purposes and in Multiple Sclerosis Trials. PLoS ONE, 2011, 6, e22947.	2.5	72
90	Spinal cord quantitative MRI discriminates between disability levels in multiple sclerosis. Neurology, 2013, 80, 540-547.	1.1	72

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91	Anti-CD20 therapy depletes activated myelin-specific CD8⁺T cells in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25800-25807.	7.1	71
92	Emerging Applications of Optical Coherence Tomography Angiography (OCTA) in neurological research. Eye and Vision (London, England), 2018, 5, 11.	3.0	69
93	Multiparametric MRI correlates of sensorimotor function in the spinal cord in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 427-435.	3.0	68
94	Longitudinally extensive optic neuritis as an MRI biomarker distinguishes neuromyelitis optica from multiple sclerosis. Journal of the Neurological Sciences, 2015, 355, 59-63.	0.6	68
95	Brain and retinal atrophy in African-Americans versus Caucasian-Americans with multiple sclerosis: a longitudinal study. Brain, 2018, 141, 3115-3129.	7.6	67
96	Remyelination alters the pattern of myelin in the cerebral cortex. ELife, 2020, 9, .	6.0	67
97	A selective thyroid hormone Î² receptor agonist enhances human and rodent oligodendrocyte differentiation. Glia, 2014, 62, 1513-1529.	4.9	66
98	Alterations in the retinal vasculature occur in multiple sclerosis and exhibit novel correlations with disability and visual function measures. Multiple Sclerosis Journal, 2020, 26, 815-828.	3.0	66
99	AQP4-IgG and MOG-IgG Related Optic Neuritisâ€"Prevalence, Optical Coherence Tomography Findings, and Visual Outcomes: A Systematic Review and Meta-Analysis. Frontiers in Neurology, 2020, 11, 540156.	2.4	66
100	Kv1.3 Deletion Biases T Cells toward an Immunoregulatory Phenotype and Renders Mice Resistant to Autoimmune Encephalomyelitis. Journal of Immunology, 2012, 188, 5877-5886.	0.8	65
101	Investigating Axonal Damage in Multiple Sclerosis by Diffusion Tensor Spectroscopy. Journal of Neuroscience, 2012, 32, 6665-6669.	3.6	63
102	Applications of a deep learning method for anti-aliasing and super-resolution in MRI. Magnetic Resonance Imaging, 2019, 64, 132-141.	1.8	63
103	Targeting Repulsive Guidance Molecule A to Promote Regeneration and Neuroprotection in Multiple Sclerosis. Cell Reports, 2015, 10, 1887-1898.	6.4	62
104	Automatic segmentation of microcystic macular edema in OCT. Biomedical Optics Express, 2015, 6, 155.	2.9	60
105	Reproducibility of tractâ€specific magnetization transfer and diffusion tensor imaging in the cervical spinal cord at 3 tesla. NMR in Biomedicine, 2010, 23, 207-217.	2.8	59
106	Aluinsertion variants alter mRNA splicing. Nucleic Acids Research, 2019, 47, 421-431.	14.5	58
107	Retinal Ganglion Cell Layer Volumetric Assessment by Spectral-Domain Optical Coherence Tomography in Multiple Sclerosis: Application of a High-Precision Manual Estimation Technique. Journal of Neuro-Ophthalmology, 2011, 31, 260-264.	0.8	57
108	Inhibition of Glutamate Carboxypeptidase II (GCPII) activity as a treatment for cognitive impairment in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20101-20106.	7.1	57

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109	Systemic Tolerance Mediated by Melanoma Brain Tumors Is Reversible by Radiotherapy and Vaccination. Clinical Cancer Research, 2016, 22, 1161-1172.	7.0	57
110	Granzyme B mediates neurotoxicity through a Gâ€proteinâ€coupled receptor. FASEB Journal, 2006, 20, 1209-1211.	0.5	56
111	Natalizumab plus interferon beta-1a reduces lesion formation in relapsing multiple sclerosis. Journal of the Neurological Sciences, 2010, 292, 28-35.	0.6	56
112	Quantitative measures detect sensory and motor impairments in multiple sclerosis. Journal of the Neurological Sciences, 2011, 305, 103-111.	0.6	56
113	PEGylation of Interferon-Î²-1a. CNS Drugs, 2012, 26, 205-214.	5.9	56
114	KLF4 Modulates Expression of IL-6 in Dendritic Cells via Both Promoter Activation and Epigenetic Modification. Journal of Biological Chemistry, 2013, 288, 23868-23874.	3.4	56
115	Progressive Multiple Sclerosis Is Associated with Faster and Specific Retinal Layer Atrophy. Annals of Neurology, 2020, 87, 885-896.	5.3	56
116	Potassium channels Kv1.3 and Kv1.5 are expressed on blood-derived dendritic cells in the central nervous system. Annals of Neurology, 2006, 60, 118-127.	5.3	55
117	One Eye or Two: A Comparison of Binocular and Monocular Low-Contrast Acuity Testing in Multiple Sclerosis. American Journal of Ophthalmology, 2011, 152, 133-140.	3.3	55
118	Dimethyl fumarate alters Bâ€cell memory and cytokine production in MS patients. Annals of Clinical and Translational Neurology, 2017, 4, 351-355.	3.7	54
119	Considerations in the treatment of relapsing-remitting multiple sclerosis. Neurology, 2002, 58, S10-22.	1.1	54
120	A lipid storageâ€“like disorder contributes to cognitive decline in HIV-infected subjects. Neurology, 2013, 81, 1492-1499.	1.1	53
121	Retinal damage and vision loss in <scp>A</scp>frican <scp>A</scp>merican multiple sclerosis patients. Annals of Neurology, 2015, 77, 228-236.	5.3	53
122	Outer retinal changes following acute optic neuritis. Multiple Sclerosis Journal, 2016, 22, 362-372.	3.0	53
123	Imaging outcome measures of neuroprotection and repair in MS. Neurology, 2019, 92, 519-533.	1.1	53
124	Low-contrast acuity measures visual improvement in phase 3 trial of natalizumab in relapsing MS. Journal of the Neurological Sciences, 2012, 318, 119-124.	0.6	52
125	Relationships between quantitative spinal cord MRI and retinal layers in multiple sclerosis. Neurology, 2015, 84, 720-728.	1.1	52
126	Multiple-object geometric deformable model for segmentation of macular OCT. Biomedical Optics Express, 2014, 5, 1062.	2.9	51

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127	Mesenchymal Stem Cells Differentially Modulate Effector CD8+ T Cell Subsets and Exacerbate Experimental Autoimmune Encephalomyelitis. Stem Cells, 2014, 32, 2744-2755.	3.2	51
128	Structured layer surface segmentation for retina OCT using fully convolutional regression networks. Medical Image Analysis, 2021, 68, 101856.	11.6	51
129	Activated T-Cells Inhibit Neurogenesis by Releasing Granzyme B: Rescue by Kv1.3 Blockers. Journal of Neuroscience, 2010, 30, 5020-5027.	3.6	50
130	1,25-Dihydroxyvitamin D ₃ selectively and reversibly impairs T helper-cell CNS localization. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21101-21106.	7.1	50
131	Retinal measurements predict 10â€year disability in multiple sclerosis. Annals of Clinical and Translational Neurology, 2019, 6, 222-232.	3.7	50
132	Thalamic lesions in multiple sclerosis by 7T MRI: Clinical implications and relationship to cortical pathology. Multiple Sclerosis Journal, 2015, 21, 1139-1150.	3.0	49
133	Metabolomics in multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 451-460.	3.0	49
134	Signal Transduction Inhibition of APCs Diminishes Th17 and Th1 Responses in Experimental Autoimmune Encephalomyelitis. Journal of Immunology, 2009, 182, 4192-4199.	0.8	48
135	Glial pathology and retinal neurotoxicity in the anterior visual pathway in experimental autoimmune encephalomyelitis. Acta Neuropathologica Communications, 2019, 7, 125.	5.2	47
136	Single-cell transcriptomic reveals molecular diversity and developmental heterogeneity of human stem cell-derived oligodendrocyte lineage cells. Nature Communications, 2021, 12, 652.	12.8	47
137	Optimal Intereye Difference Thresholds in Retinal Nerve Fiber Layer Thickness for Predicting a Unilateral Optic Nerve Lesion in Multiple Sclerosis. Journal of Neuro-Ophthalmology, 2018, 38, 451-458.	0.8	46
138	Cutting Edge: The Transcription Factor Kruppel-Like Factor 4 Regulates the Differentiation of Th17 Cells Independently of RORÎ³t. Journal of Immunology, 2010, 185, 7161-7164.	0.8	45
139	Optical coherence tomography does not support optic nerve involvement in amyotrophic lateral sclerosis. European Journal of Neurology, 2013, 20, 1170-1176.	3.3	45
140	Trial of intrathecal rituximab in progressive multiple sclerosis patients with evidence of leptomeningeal contrast enhancement. Multiple Sclerosis and Related Disorders, 2019, 30, 136-140.	2.0	45
141	Pathogenic aquaporin-4 reactive T cells are sufficient to induce mouse model of neuromyelitis optica. Acta Neuropathologica Communications, 2015, 3, 28.	5.2	44
142	MIMoSA: An Automated Method for Intermodal Segmentation Analysis of Multiple Sclerosis Brain Lesions. Journal of Neuroimaging, 2018, 28, 389-398.	2.0	44
143	Imaging meningeal inflammation in CNS autoimmunity identifies a therapeutic role for BTK inhibition. Brain, 2021, 144, 1396-1408.	7.6	44
144	Fully Convolutional Boundary Regression for Retina OCT Segmentation. Lecture Notes in Computer Science, 2019, 11764, 120-128.	1.3	44

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145	Deep learning based topology guaranteed surface and MME segmentation of multiple sclerosis subjects from retinal OCT. Biomedical Optics Express, 2019, 10, 5042.	2.9	44
146	qâ€space and conventional diffusion imaging of axon and myelin damage in the rat spinal cord after axotomy. Magnetic Resonance in Medicine, 2010, 63, 1323-1335.	3.0	43
147	Automated vs. conventional tractography in multiple sclerosis: Variability and correlation with disability. NeuroImage, 2010, 49, 3047-3056.	4.2	43
148	Granzyme B-Induced Neurotoxicity Is Mediated via Activation of PAR-1 Receptor and Kv1.3 Channel. PLoS ONE, 2012, 7, e43950.	2.5	43
149	Retinal layer parcellation of optical coherence tomography images: Data resource for multiple sclerosis and healthy controls. Data in Brief, 2019, 22, 601-604.	1.0	43
150	New and emerging disease modifying therapies for multiple sclerosis. Annals of the New York Academy of Sciences, 2012, 1247, 117-137.	3.8	42
151	FTY720 impairs CD8 T-cell function independently of the sphingosine-1-phosphate pathway. Journal of Neuroimmunology, 2014, 270, 13-21.	2.3	42
152	Agar-gelatin for embedding tissues prior to paraffin processing. BioTechniques, 2007, 42, 569-570.	1.8	41
153	Monocular and binocular low-contrast visual acuity and optical coherence tomography in pediatric multiple sclerosis. Multiple Sclerosis and Related Disorders, 2014, 3, 326-334.	2.0	41
154	The Impact of Dynamic Balance Measures on Walking Performance in Multiple Sclerosis. Neurorehabilitation and Neural Repair, 2015, 29, 62-69.	2.9	41
155	Dimethyl fumarate treatment alters NK cell function in multiple sclerosis. European Journal of Immunology, 2018, 48, 380-383.	2.9	41
156	Diversity and Function of Glial Cell Types in Multiple Sclerosis. Trends in Immunology, 2021, 42, 228-247.	6.8	41
157	Effect of peginterferon beta-1a on MRI measures and achieving no evidence of disease activity: results from a randomized controlled trial in relapsing-remitting multiple sclerosis. BMC Neurology, 2014, 14, 240.	1.8	40
158	Retinal degeneration in primary-progressive multiple sclerosis: A role for cortical lesions?. Multiple Sclerosis Journal, 2017, 23, 43-50.	3.0	40
159	Bryostatin-1 alleviates experimental multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2186-2191.	7.1	40
160	Dimethyl fumarate treatment induces lipid metabolism alterations that are linked to immunological changes. Annals of Clinical and Translational Neurology, 2019, 6, 33-45.	3.7	39
161	Complement component 3 from astrocytes mediates retinal ganglion cell loss during neuroinflammation. Acta Neuropathologica, 2021, 142, 899-915.	7.7	39
162	A Comparison of Supervised Machine Learning Algorithms and Feature Vectors for MS Lesion Segmentation Using Multimodal Structural MRI. PLoS ONE, 2014, 9, e95753.	2.5	38

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163	Synaptic and complement markers in extracellular vesicles in multiple sclerosis. Multiple Sclerosis Journal, 2021, 27, 509-518.	3.0	38
164	Quantitative measures of walking and strength provide insight into brain corticospinal tract pathology in multiple sclerosis. NeuroImage: Clinical, 2017, 14, 490-498.	2.7	37
165	Optical coherence tomography in multiple sclerosis: A 3â€year prospective multicenter study. Annals of Clinical and Translational Neurology, 2021, 8, 2235-2251.	3.7	36
166	OCT retinal nerve fiber layer thickness differentiates acute optic neuritis from MOG antibody-associated disease and Multiple Sclerosis. Multiple Sclerosis and Related Disorders, 2022, 58, 103525.	2.0	36
167	Visual Pathway Axonal Loss in Benign Multiple Sclerosis. Journal of Neuro-Ophthalmology, 2012, 32, 116-123.	0.8	35
168	Axial 3D gradient-echo imaging for improved multiple sclerosis lesion detection in the cervical spinal cord at 3T. Neuroradiology, 2013, 55, 431-439.	2.2	35
169	Helper T cells down-regulate CD4 expression upon chronic stimulation giving rise to double-negative T cells. Cellular Immunology, 2013, 284, 68-74.	3.0	35
170	Spinal Cord Normalization in Multiple Sclerosis. Journal of Neuroimaging, 2014, 24, 577-584.	2.0	35
171	Applying an Open-Source Segmentation Algorithm to Different OCT Devices in Multiple Sclerosis Patients and Healthy Controls: Implications for Clinical Trials. Multiple Sclerosis International, 2015, 2015, 1-10.	0.8	35
172	Association of Spectral-Domain OCT With Long-term Disability Worsening in Multiple Sclerosis. Neurology, 2021, 96, e2058-e2069.	1.1	35
173	Hiding in plain sight: a closer look at posterior cortical atrophy. Practical Neurology, 2015, 15, 5-13.	1.1	34
174	Reconstruction of the human cerebral cortex robust to white matter lesions: Method and validation. Human Brain Mapping, 2014, 35, 3385-3401.	3.6	33
175	Artificial intelligence extension of the OSCARâ€IB criteria. Annals of Clinical and Translational Neurology, 2021, 8, 1528-1542.	3.7	33
176	Chemokine receptor expression on MBP-reactive T cells: CXCR6 is a marker of IFNÎ³-producing effector cells. Journal of Neuroimmunology, 2002, 127, 96-105.	2.3	32
177	Longitudinal relationships among posturography and gait measures in multiple sclerosis. Neurology, 2015, 84, 2048-2056.	1.1	32
178	Quantitative sensory and motor measures detect change over time and correlate with walking speed in individuals with multiple sclerosis. Multiple Sclerosis and Related Disorders, 2015, 4, 67-74.	2.0	32
179	How global MS prevalence is changing: A retrospective chart review in the United Arab Emirates. Multiple Sclerosis and Related Disorders, 2016, 9, 73-79.	2.0	32
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