

Robert H Miller

List of Publications by Citations

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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.

62

papers

4,687

citations

30

h-index

65

g-index

65

ext. papers

5,308

ext. citations

10.1

avg, IF

5.43

L-index

#	Paper	IF	Citations
62	LINGO-1 negatively regulates myelination by oligodendrocytes. <i>Nature Neuroscience</i> , 2005 , 8, 745-51	25.5	490
61	Human bone marrow-derived mesenchymal stem cells induce Th2-polarized immune response and promote endogenous repair in animal models of multiple sclerosis. <i>Glia</i> , 2009 , 57, 1192-203	9	418
60	Regulation of oligodendrocyte development in the vertebrate CNS. <i>Progress in Neurobiology</i> , 2002 , 67, 451-67	10.9	346
59	Changing role of forebrain astrocytes during development, regenerative failure, and induced regeneration upon transplantation. <i>Journal of Comparative Neurology</i> , 1986 , 251, 23-43	3.4	338
58	Hepatocyte growth factor mediates mesenchymal stem cell-induced recovery in multiple sclerosis models. <i>Nature Neuroscience</i> , 2012 , 15, 862-70	25.5	304
57	Drug-based modulation of endogenous stem cells promotes functional remyelination in vivo. <i>Nature</i> , 2015 , 522, 216-20	50.4	255
56	Promotion of central nervous system remyelination by induced differentiation of oligodendrocyte precursor cells. <i>Annals of Neurology</i> , 2009 , 65, 304-15	9.4	248
55	Oligodendrocyte origins. <i>Trends in Neurosciences</i> , 1996 , 19, 92-6	13.3	204
54	CNS myelin wrapping is driven by actin disassembly. <i>Developmental Cell</i> , 2015 , 34, 152-67	10.2	190
53	CXCR2-positive neutrophils are essential for cuprizone-induced demyelination: relevance to multiple sclerosis. <i>Nature Neuroscience</i> , 2010 , 13, 319-26	25.5	167
52	Induction of myelinating oligodendrocytes in human cortical spheroids. <i>Nature Methods</i> , 2018 , 15, 700-706	16.6	156
51	Human iPSC Glial Mouse Chimeras Reveal Glial Contributions to Schizophrenia. <i>Cell Stem Cell</i> , 2017 , 21, 195-208.e6	18	143
50	Accumulation of 8,9-unsaturated sterols drives oligodendrocyte formation and remyelination. <i>Nature</i> , 2018 , 560, 372-376	50.4	104
49	Cell-based therapeutic strategies for multiple sclerosis. <i>Brain</i> , 2017 , 140, 2776-2796	11.2	102
48	Contact with central nervous system myelin inhibits oligodendrocyte progenitor maturation. <i>Developmental Biology</i> , 1999 , 216, 359-68	3.1	96
47	Netrin 1 mediates spinal cord oligodendrocyte precursor dispersal. <i>Development (Cambridge)</i> , 2003 , 130, 2095-105	6.6	90
46	Erythropoietin signaling promotes oligodendrocyte development following prenatal systemic hypoxic-ischemic brain injury. <i>Pediatric Research</i> , 2013 , 74, 658-67	3.2	81

45	Human mesenchymal stem cells signals regulate neural stem cell fate. <i>Neurochemical Research</i> , 2007 , 32, 353-62	4.6	78
44	Pharmaceutical integrated stress response enhancement protects oligodendrocytes and provides a potential multiple sclerosis therapeutic. <i>Nature Communications</i> , 2015 , 6, 6532	17.4	68
43	Patterning of spinal cord oligodendrocyte development by dorsally derived BMP4. <i>Journal of Neuroscience Research</i> , 2004 , 76, 9-19	4.4	64
42	The roles of blood-derived macrophages and resident microglia in the neuroinflammatory response to implanted intracortical microelectrodes. <i>Biomaterials</i> , 2014 , 35, 8049-64	15.6	55
41	Spinal cord oligodendrocytes develop from a limited number of migratory highly proliferative precursors. <i>Journal of Neuroscience Research</i> , 1997 , 50, 157-68	4.4	47
40	Apoptosis of oligodendrocytes in the central nervous system results in rapid focal demyelination. <i>Annals of Neurology</i> , 2012 , 72, 395-405	9.4	45
39	Regulation of oligodendrocyte development. <i>Molecular Neurobiology</i> , 1998 , 18, 247-59	6.2	45
38	Contribution of the oligodendrocyte lineage to CNS repair and neurodegenerative pathologies. <i>Neuropharmacology</i> , 2016 , 110, 539-547	5.5	43
37	Density dependent modulation of cell cycle protein expression in astrocytes. <i>Journal of Neuroscience Research</i> , 2001 , 66, 487-96	4.4	41
36	Cyclin-dependent kinase 5 mediates adult OPC maturation and myelin repair through modulation of Akt and GSK-3 β signaling. <i>Journal of Neuroscience</i> , 2014 , 34, 10415-29	6.6	36
35	Modulation of adhesion molecule expression on rat cortical astrocytes during maturation. <i>Journal of Neurochemistry</i> , 1993 , 60, 1453-66	6	31
34	The potential of mesenchymal stem cells for neural repair. <i>Discovery Medicine</i> , 2010 , 9, 236-42	2.5	31
33	Targeting CD14 on blood derived cells improves intracortical microelectrode performance. <i>Biomaterials</i> , 2018 , 163, 163-173	15.6	30
32	Isolation and culture of spinal cord astrocytes. <i>Methods in Molecular Biology</i> , 2012 , 814, 93-104	1.4	29
31	Cellular approaches for stimulating CNS remyelination. <i>Regenerative Medicine</i> , 2007 , 2, 817-29	2.5	24
30	Loss of HDAC11 ameliorates clinical symptoms in a multiple sclerosis mouse model. <i>Life Science Alliance</i> , 2018 , 1, e201800039	5.8	23
29	Emerging Cellular and Molecular Strategies for Enhancing Central Nervous System (CNS) Remyelination. <i>Brain Sciences</i> , 2018 , 8,	3.4	22
28	Apoptosis of Oligodendrocytes during Early Development Delays Myelination and Impairs Subsequent Responses to Demyelination. <i>Journal of Neuroscience</i> , 2015 , 35, 14031-41	6.6	21

27	Homotypic cell contact-dependent inhibition of astrocyte proliferation. <i>Glia</i> , 1998 , 22, 379-89	9	21
26	Restoring the balance between disease and repair in multiple sclerosis: insights from mouse models. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 535-9	4.1	20
25	MSC Therapeutics in Chronic Inflammation. <i>Current Stem Cell Reports</i> , 2016 , 2, 168-173	1.8	19
24	A novel form of migration of glial precursors. <i>Glia</i> , 1996 , 16, 27-39	9	16
23	Notochord is essential for oligodendrocyte development in <i>Xenopus</i> spinal cord. <i>Journal of Neuroscience Research</i> , 1997 , 47, 361-71	4.4	15
22	The Activators of Cyclin-Dependent Kinase 5 p35 and p39 Are Essential for Oligodendrocyte Maturation, Process Formation, and Myelination. <i>Journal of Neuroscience</i> , 2016 , 36, 3024-37	6.6	14
21	CNS disease diminishes the therapeutic functionality of bone marrow mesenchymal stem cells. <i>Experimental Neurology</i> , 2017 , 295, 222-232	5.7	12
20	Astrocytes Are Required for Oligodendrocyte Survival and Maintenance of Myelin Compaction and Integrity. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 74	6.1	11
19	Community pharmacist outreach program directed at physicians treating congestive heart failure. <i>American Journal of Health-System Pharmacy</i> , 2000 , 57, 747-52	2.2	11
18	A cell surface antigen expressed by astrocytes and their precursors. <i>Glia</i> , 1993 , 8, 20-32	9	11
17	Discovery of 1,2,3-Triazole Derivatives for Multimodality PET/CT/Cryoimaging of Myelination in the Central Nervous System. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 987-999	8.3	10
16	Demyelination in the central nervous system mediated by an anti-oligodendrocyte antibody. <i>Journal of Neuroscience Research</i> , 1998 , 54, 158-68	4.4	9
15	Design, Synthesis, and Evaluation of Fluorinated Radioligands for Myelin Imaging. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3705-18	8.3	8
14	Oligodendrocyte-specific loss of Cdk5 disrupts the architecture of nodes of Ranvier as well as learning and memory. <i>Experimental Neurology</i> , 2018 , 306, 92-104	5.7	7
13	Targeting glioma-initiating cells in GBM: ABTC-0904, a randomized phase 0/II study targeting the Sonic Hedgehog-signaling pathway.. <i>Journal of Clinical Oncology</i> , 2014 , 32, 2026-2026	2.2	6
12	Transcriptional Profiling of Mesenchymal Stem Cells Identifies Distinct Neuroimmune Pathways Altered by CNS Disease. <i>International Journal of Stem Cells</i> , 2018 , 11, 48-60	3	6
11	Calcium control of myelin sheath growth. <i>Nature Neuroscience</i> , 2018 , 21, 2-3	25.5	5
10	Building bridges with astrocytes for spinal cord repair. <i>Journal of Biology</i> , 2006 , 5, 6		5

9	In vitro and in vivo characterization of blastemal cells from regenerating newt limbs. <i>The Journal of Experimental Zoology</i> , 1992 , 262, 180-92		4
8	Antibody-mediated oligodendrocyte cell death requires an astrocyte-derived cosignal. <i>Journal of Neuroscience Research</i> , 1998 , 52, 137-48	4.4	3
7	Oligodendrocyte ablation as a tool to study demyelinating diseases. <i>Neural Regeneration Research</i> , 2016 , 11, 886-9	4.5	3
6	Neurobiology: A change of fate for nerve repair. <i>Nature</i> , 2017 , 551, 41-42	50.4	2
5	B Cells in Neuroinflammation: New Perspectives and Mechanistic Insights. <i>Cells</i> , 2021 , 10,	7.9	2
4	Renegade nuclear enzymes disrupt axonal integrity. <i>Nature Neuroscience</i> , 2010 , 13, 143-4	25.5	1
3	Developmental ablation of mature oligodendrocytes exacerbates adult CNS demyelination. <i>Brain, Behavior, & Immunity - Health</i> , 2020 , 7, 100110	5.1	0
2	Cell type specific isolation of primary astrocytes and microglia from adult mouse spinal cord.. <i>Journal of Neuroscience Methods</i> , 2022 , 109599	3	0
1	Adherent self-renewable human embryonic stem cell-derived neural stem cell line: functional engraftment in experimental stroke model. <i>Regenerative Medicine</i> , 2008 , 3, 275-279	2.5	