Jonah R Chan

List of Publications by Year
in descending order

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62 papers	7,179 citations	100601 38 h-index	134545 62 g-index
76 all docs	76 docs citations	76 times ranked	9401 citing authors

#	Article	IF	Citations
1	A hormonal therapy for menopausal women with MS: A phase Ib/IIa randomized controlled trial. Multiple Sclerosis and Related Disorders, 2022, 61, 103747.	0.9	5
2	Validating visual evoked potentials as a preclinical, quantitative biomarker for remyelination efficacy. Brain, 2022, 145, 3943-3952.	3.7	19
3	Plasma neurofilament light chain levels suggest neuroaxonal stability following therapeutic remyelination in people with multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 972-977.	0.9	7
4	Prolonging the integrated stress response enhances CNS remyelination in an inflammatory environment. ELife, 2021, 10, .	2.8	17
5	TDP-43 maximizes nerve conduction velocity by repressing a cryptic exon for paranodal junction assembly in Schwann cells. ELife, 2021, 10, .	2.8	14
6	Building a (w)rapport between neurons and oligodendroglia: Reciprocal interactions underlying adaptive myelination. Neuron, 2021, 109, 1258-1273.	3.8	34
7	Enhancing myelin renewal reverses cognitive dysfunction in a murine model of Alzheimerâ€™s disease. Neuron, 2021, 109, 2292-2307.e5.	3.8	154
8	Oligodendroglial ring finger protein Rnf43 is an essential injury-specific regulator of oligodendrocyte maturation. Neuron, 2021, 109, 3104-3118.e6.	3.8	21
9	Clinical Applications of Myelin Plasticity for Remyelinating Therapies in Multiple Sclerosis. Annals of Neurology, 2021, 90, 558-567.	2.8	8
10	Experience-dependent myelination following stress is mediated by the neuropeptide dynorphin. Neuron, 2021, 109, 3619-3632.e5.	3.8	28
11	Metabolic Control of Sensory Neuron Survival by the p75 Neurotrophin Receptor in Schwann Cells. Journal of Neuroscience, 2021, 41, 8710-8724.	1.7	6
12	Myelin plasticity: sculpting circuits in learning and memory. Nature Reviews Neuroscience, 2020, 21, 682-694.	4.9	162
13	Myelin degeneration and diminished myelin renewal contribute to age-related deficits in memory. Nature Neuroscience, 2020, 23, 481-486.	7.1	193
14	Preservation of a remote fear memory requires new myelin formation. Nature Neuroscience, 2020, 23, 487-499.	7.1	218
15	That Wasnâ€™t a Complementâ€”Too Much C3 in Demyelinating Disease. Immunity, 2020, 52, 11-13.	6.6	7
16	Myelinating Schwann cells ensheath multiple axons in the absence of E3 ligase component Fbxw7. Nature Communications, 2019, 10, 2976.	5.8	39
17	Selective Estrogen Receptor Modulators Enhance CNS Remyelination Independent of Estrogen Receptors. Journal of Neuroscience, 2019, 39, 2184-2194.	1.7	49
18	A surprising role for myelin in Williams syndrome. Nature Neuroscience, 2019, 22, 681-683.	7.1	4

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19	Aberrant oligodendroglialâ€“vascular interactions disrupt the bloodâ€“brain barrier, triggering CNS inflammation. Nature Neuroscience, 2019, 22, 709-718.	7.1	131
20	Myelination of Neuronal Cell Bodies when Myelin Supply Exceeds Axonal Demand. Current Biology, 2018, 28, 1296-1305.e5.	1.8	38
21	Clemastine rescues myelination defects and promotes functional recovery in hypoxic brain injury. Brain, 2018, 141, 85-98.	3.7	83
22	<scp>T</scp>he <scp>TSC</scp>1â€“m<scp>TORâ€PLK</scp> axis regulates the homeostatic switch from <scp>S</scp>chwann cell proliferation to myelination in a stageâ€specific manner. Glia, 2018, 66, 1947-1959.	2.5	10
23	Mechanical plasticity during oligodendrocyte differentiation and myelination. Glia, 2018, 66, 5-14.	2.5	49
24	Initiation of CNS Myelination in the Optic Nerve Is Dependent on Axon Caliber. Cell Reports, 2018, 25, 544-550.e3.	2.9	52
25	Enhancing Oligodendrocyte Myelination Rescues Synaptic Loss and Improves Functional Recovery after Chronic Hypoxia. Neuron, 2018, 99, 689-701.e5.	3.8	108
26	Regulatory T cells promote myelin regeneration in the central nervous system. Nature Neuroscience, 2017, 20, 674-680.	7.1	343
27	Fibrinogen Activates BMP Signaling in Oligodendrocyte Progenitor Cells and Inhibits Remyelination after Vascular Damage. Neuron, 2017, 96, 1003-1012.e7.	3.8	131
28	Clemastine fumarate as a remyelinating therapy for multiple sclerosis (ReBUILD): a randomised, controlled, double-blind, crossover trial. Lancet, The, 2017, 390, 2481-2489.	6.3	377
29	Architecting the myelin landscape. Current Opinion in Neurobiology, 2017, 47, 1-7.	2.0	31
30	Regulation and dysregulation of axon infrastructure by myelinating glia. Journal of Cell Biology, 2017, 216, 3903-3916.	2.3	41
31	Accelerated remyelination during inflammatory demyelination prevents axonal loss and improves functional recovery. ELife, 2016, 5, .	2.8	210
32	The environment rules: spatiotemporal regulation of oligodendrocyte differentiation. Current Opinion in Neurobiology, 2016, 39, 47-52.	2.0	34
33	Identification of the Kappa-Opioid Receptor as a Therapeutic Target for Oligodendrocyte Remyelination. Journal of Neuroscience, 2016, 36, 7925-7935.	1.7	90
34	Somatodendritic Expression of JAM2 Inhibits Oligodendrocyte Myelination. Neuron, 2016, 91, 824-836.	3.8	79
35	Proâ€region engineering for improved yeast display and secretion of brain derived neurotrophic factor. Biotechnology Journal, 2016, 11, 425-436.	1.8	6
36	Activation of HIPK2 Promotes ER Stress-Mediated Neurodegeneration in Amyotrophic Lateral Sclerosis. Neuron, 2016, 91, 41-55.	3.8	75

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37	Zeb2 recruits HDACâ€“NuRD to inhibit Notch and controls Schwann cell differentiation and remyelination. Nature Neuroscience, 2016, 19, 1060-1072.	7.1	113
38	Dynamic Modulation of Myelination in Response to Visual Stimuli Alters Optic Nerve Conduction Velocity. Journal of Neuroscience, 2016, 36, 6937-6948.	1.7	157
39	Remodeling myelination: implications for mechanisms of neural plasticity. Nature Neuroscience, 2016, 19, 190-197.	7.1	121
40	Mechanostimulation Promotes Nuclear and Epigenetic Changes in Oligodendrocytes. Journal of Neuroscience, 2016, 36, 806-813.	1.7	65
41	Oligodendrocyte precursors migrate along vasculature in the developing nervous system. Science, 2016, 351, 379-384.	6.0	319
42	Astrocytes Underlie Neuroinflammatory Memory Impairment. Cell, 2015, 163, 1574-1576.	13.5	20
43	Astrocyte-encoded positional cues maintain sensorimotor circuit integrity. Nature, 2014, 509, 189-194.	13.7	266
44	Phosphorylation of LKB1/Par-4 establishes Schwann cell polarity to initiate and control myelin extent. Nature Communications, 2014, 5, 4991.	5.8	47
45	Directed Evolution of Brain-Derived Neurotrophic Factor for Improved Folding and Expression in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2014, 80, 5732-5742.	1.4	26
46	Micropillar arrays as a high-throughput screening platform for therapeutics in multiple sclerosis. Nature Medicine, 2014, 20, 954-960.	15.2	451
47	Multiple sclerosis: Prospects and promise. Annals of Neurology, 2013, 74, 317-327.	2.8	165
48	Olig2 Targets Chromatin Remodelers to Enhancers to Initiate Oligodendrocyte Differentiation. Cell, 2013, 152, 248-261.	13.5	307
49	A rapid and reproducible assay for modeling myelination by oligodendrocytes using engineered nanofibers. Nature Protocols, 2013, 8, 771-782.	5.5	99
50	Stage-Specific Deletion of Olig2 Conveys Opposing Functions on Differentiation and Maturation of Oligodendrocytes. Journal of Neuroscience, 2013, 33, 8454-8462.	1.7	86
51	Neurite outgrowth inhibitor Nogo-A establishes spatial segregation and extent of oligodendrocyte myelination. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1299-1304.	3.3	196
52	Brain-derived Neurotrophic Factor (BDNF) Induces Polarized Signaling of Small GTPase (Rac1) Protein at the Onset of Schwann Cell Myelination through Partitioning-defective 3 (Par3) Protein. Journal of Biological Chemistry, 2012, 287, 1600-1608.	1.6	40
53	A culture system to study oligodendrocyte myelination processes using engineered nanofibers. Nature Methods, 2012, 9, 917-922.	9.0	329
54	Myelin Regeneration: A Recapitulation of Development?. Annual Review of Neuroscience, 2011, 34, 21-43.	5.0	282

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55	Assessing the Role of the Cadherin/Catenin Complex at the Schwann Cellâ€“Axon Interface and in the Initiation of Myelination. Journal of Neuroscience, 2011, 31, 3032-3043.	1.7	60
56	The geometric and spatial constraints of the microenvironment induce oligodendrocyte differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14662-14667.	3.3	185
57	Anterograde Transport and Secretion of Brain-Derived Neurotrophic Factor along Sensory Axons Promote Schwann Cell Myelination. Journal of Neuroscience, 2007, 27, 7597-7603.	1.7	80
58	Myelination: all about Rac â€˜nâ€™ roll. Journal of Cell Biology, 2007, 177, 953-955.	2.3	16
59	NGF Regulates the Expression of Axonal LINGO-1 to Inhibit Oligodendrocyte Differentiation and Myelination. Journal of Neuroscience, 2007, 27, 220-225.	1.7	149
60	The Polarity Protein Par-3 Directly Interacts with p75NTR to Regulate Myelination. Science, 2006, 314, 832-836.	6.0	135
61	NGF Controls Axonal Receptivity to Myelination by Schwann Cells or Oligodendrocytes. Neuron, 2004, 43, 183-191.	3.8	281
62	The Neurotrophin Receptor p75NTR as a Positive Modulator of Myelination. Science, 2002, 298, 1245-1248.	6.0	307