

# Chao Zhao

## List of Publications by Year in descending order

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51  
papers

7,457  
citations

101543

36  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

8291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myelin Impairs CNS Remyelination by Inhibiting Oligodendrocyte Precursor Cell Differentiation. <i>Journal of Neuroscience</i> , 2006, 26, 328-332.	3.6	626
2	CNS-Resident Glial Progenitor/Stem Cells Produce Schwann Cells as well as Oligodendrocytes during Repair of CNS Demyelination. <i>Cell Stem Cell</i> , 2010, 6, 578-590.	11.1	549
3	Dysregulation of the Wnt pathway inhibits timely myelination and remyelination in the mammalian CNS. <i>Genes and Development</i> , 2009, 23, 1571-1585.	5.9	537
4	The Age-Related Decrease in CNS Remyelination Efficiency Is Attributable to an Impairment of Both Oligodendrocyte Progenitor Recruitment and Differentiation. <i>Journal of Neuroscience</i> , 2002, 22, 2451-2459.	3.6	502
5	Micropillar arrays as a high-throughput screening platform for therapeutics in multiple sclerosis. <i>Nature Medicine</i> , 2014, 20, 954-960.	30.7	451
6	Retinoid X receptor gamma signaling accelerates CNS remyelination. <i>Nature Neuroscience</i> , 2011, 14, 45-53.	14.8	449
7	bHLH Transcription Factor Olig1 Is Required to Repair Demyelinated Lesions in the CNS. <i>Science</i> , 2004, 306, 2111-2115.	12.6	379
8	Regulatory T cells promote myelin regeneration in the central nervous system. <i>Nature Neuroscience</i> , 2017, 20, 674-680.	14.8	343
9	Niche stiffness underlies the ageing of central nervous system progenitor cells. <i>Nature</i> , 2019, 573, 130-134.	27.8	311
10	Axin2 as regulatory and therapeutic target in newborn brain injury and remyelination. <i>Nature Neuroscience</i> , 2011, 14, 1009-1016.	14.8	307
11	Increased expression of Nkx2.2 and Olig2 identifies reactive oligodendrocyte progenitor cells responding to demyelination in the adult CNS. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 247-254.	2.2	256
12	Metformin Restores CNS Remyelination Capacity by Rejuvenating Aged Stem Cells. <i>Cell Stem Cell</i> , 2019, 25, 473-485.e8.	11.1	245
13	Lnc RNA GAS5 inhibits microglial M2 polarization and exacerbates demyelination. <i>EMBO Reports</i> , 2017, 18, 1801-1816.	4.5	173
14	Overcoming remyelination failure in multiple sclerosis and other myelin disorders. <i>Experimental Neurology</i> , 2010, 225, 18-23.	4.1	161
15	Fibronectin aggregation in multiple sclerosis lesions impairs remyelination. <i>Brain</i> , 2013, 136, 116-131.	7.6	159
16	Oligodendrocyte <i>PTEN</i> is required for myelin and axonal integrity, not remyelination. <i>Annals of Neurology</i> , 2010, 68, 703-716.	5.3	148
17	Increased mitochondrial content in remyelinated axons: implications for multiple sclerosis. <i>Brain</i> , 2011, 134, 1901-1913.	7.6	131
18	Astrocyte response to motor neuron injury promotes structural synaptic plasticity via STAT3-regulated TSP-1 expression. <i>Nature Communications</i> , 2014, 5, 4294.	12.8	131

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19	Differences in the early inflammatory responses to toxin-induced demyelination are associated with the age-related decline in CNS remyelination. <i>Neurobiology of Aging</i> , 2006, 27, 1298-1307.	3.1	127
20	Vitamin D receptor-retinoid X receptor heterodimer signaling regulates oligodendrocyte progenitor cell differentiation. <i>Journal of Cell Biology</i> , 2015, 211, 975-985.	5.2	118
21	Pericytes Stimulate Oligodendrocyte Progenitor Cell Differentiation during CNS Remyelination. <i>Cell Reports</i> , 2017, 20, 1755-1764.	6.4	100
22	Clemastine rescues myelination defects and promotes functional recovery in hypoxic brain injury. <i>Brain</i> , 2018, 141, 85-98.	7.6	83
23	Fibronectin in tissue regeneration: timely disassembly of the scaffold is necessary to complete the build. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4243-4253.	5.4	80
24	Tamoxifen accelerates the repair of demyelinated lesions in the central nervous system. <i>Scientific Reports</i> , 2016, 6, 31599.	3.3	71
25	Oligodendrocyte-encoded Kir4.1 function is required for axonal integrity. <i>ELife</i> , 2018, 7, .	6.0	71
26	Sox2 Sustains Recruitment of Oligodendrocyte Progenitor Cells following CNS Demyelination and Primes Them for Differentiation during Remyelination. <i>Journal of Neuroscience</i> , 2015, 35, 11482-11499.	3.6	67
27	Mechanisms of CNS remyelination—the key to therapeutic advances. <i>Journal of the Neurological Sciences</i> , 2005, 233, 87-91.	0.6	63
28	Metastasis-on-a-chip mimicking the progression of kidney cancer in the liver for predicting treatment efficacy. <i>Theranostics</i> , 2020, 10, 300-311.	10.0	60
29	Stem cells, progenitors and myelin repair. <i>Journal of Anatomy</i> , 2005, 207, 251-258.	1.5	58
30	Up-regulation of oligodendrocyte precursor cell $\alpha$ V integrin and its extracellular ligands during central nervous system remyelination. <i>Journal of Neuroscience Research</i> , 2009, 87, 3447-3455.	2.9	58
31	Tumor Necrosis Factor-stimulated Gene-6 (TSG-6) Is Constitutively Expressed in Adult Central Nervous System (CNS) and Associated with Astrocyte-mediated Glial Scar Formation following Spinal Cord Injury. <i>Journal of Biological Chemistry</i> , 2016, 291, 19939-19952.	3.4	55
32	Myelin Regeneration in Multiple Sclerosis: Targeting Endogenous Stem Cells. <i>Neurotherapeutics</i> , 2011, 8, 650-658.	4.4	47
33	Efficient Remyelination Requires DNA Methylation. <i>ENeuro</i> , 2017, 4, ENEURO.0336-16.2017.	1.9	45
34	Astrocyte Activation via Stat3 Signaling Determines the Balance of Oligodendrocyte versus Schwann Cell Remyelination. <i>American Journal of Pathology</i> , 2015, 185, 2431-2440.	3.8	41
35	Expression of the POU-Domain Transcription Factors SCIP/Oct-6 and Brn-2 Is Associated with Schwann Cell but Not Oligodendrocyte Remyelination of the CNS. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 669-682.	2.2	40
36	Osteopontin is extensively expressed by macrophages following CNS demyelination but has a redundant role in remyelination. <i>Neurobiology of Disease</i> , 2008, 31, 209-217.	4.4	40

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37	The EIIIA domain from astrocyte-derived fibronectin mediates proliferation of oligodendrocyte progenitor cells following CNS demyelination. <i>Glia</i> , 2015, 63, 242-256.	4.9	38
38	Differentiation of Glial Cells From hiPSCs: Potential Applications in Neurological Diseases and Cell Replacement Therapy. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 239.	3.7	38
39	<scp>MMP</scp>7 cleaves remyelination-impairing fibronectin aggregates and its expression is reduced in chronic multiple sclerosis lesions. <i>Glia</i> , 2018, 66, 1625-1643.	4.9	30
40	Lentiviral vectors for gene delivery to normal and demyelinated white matter. <i>Glia</i> , 2003, 42, 59-67.	4.9	28
41	Aging restricts the ability of mesenchymal stem cells to promote the generation of oligodendrocytes during remyelination. <i>Glia</i> , 2019, 67, 1510-1525.	4.9	28
42	Promoting remyelination in multiple sclerosis by endogenous adult neural stem/precursor cells: Defining cellular targets. <i>Journal of the Neurological Sciences</i> , 2008, 265, 12-16.	0.6	27
43	Injury-induced perivascular niche supports alternative differentiation of adult rodent CNS progenitor cells. <i>ELife</i> , 2018, 7, .	6.0	27
44	Myt1L Promotes Differentiation of Oligodendrocyte Precursor Cells and is Necessary for Remyelination After Lysolecithin-Induced Demyelination. <i>Neuroscience Bulletin</i> , 2018, 34, 247-260.	2.9	25
45	Toxin-Based Models to Investigate Demyelination and Remyelination. <i>Methods in Molecular Biology</i> , 2019, 1936, 377-396.	0.9	24
46	Problems and Pitfalls of Identifying Remyelination in Multiple Sclerosis. <i>Cell Stem Cell</i> , 2020, 26, 617-619.	11.1	21
47	A Subpopulation of Foxj1-Expressing, Nonmyelinating Schwann Cells of the Peripheral Nervous System Contribute to Schwann Cell Remyelination in the Central Nervous System. <i>Journal of Neuroscience</i> , 2018, 38, 9228-9239.	3.6	20
48	Isolation and Long-Term Expansion of Functional, Myelinating Oligodendrocyte Progenitor Cells from Neonatal Rat Brain. <i>Current Protocols in Stem Cell Biology</i> , 2014, 31, 2D.17.1-15.	3.0	18
49	Electric Signals Regulate the Directional Migration of Oligodendrocyte Progenitor Cells (OPCs) via $\beta$ 1 Integrin. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1948.	4.1	14
50	Therapeutic effects of diosgenin in experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2017, 313, 152-160.	2.3	13
51	Myc determines the functional age state of oligodendrocyte progenitor cells. <i>Nature Aging</i> , 2021, 1, 826-837.	11.6	12