

Zhigang He

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

13,755
citations

50276

46
h-index

88630

70
g-index

90
all docs

90
docs citations

90
times ranked

9960
citing authors

#	ARTICLE	IF	CITATIONS
1	Promoting Axon Regeneration in the Adult CNS by Modulation of the PTEN/mTOR Pathway. <i>Science</i> , 2008, 322, 963-966.	12.6	1,455
2	Glial inhibition of CNS axon regeneration. <i>Nature Reviews Neuroscience</i> , 2006, 7, 617-627.	10.2	1,329
3	PTEN deletion enhances the regenerative ability of adult corticospinal neurons. <i>Nature Neuroscience</i> , 2010, 13, 1075-1081.	14.8	841
4	p75 interacts with the Nogo receptor as a co-receptor for Nogo, MAG and OMgp. <i>Nature</i> , 2002, 420, 74-78.	27.8	748
5	Sustained axon regeneration induced by co-deletion of PTEN and SOCS3. <i>Nature</i> , 2011, 480, 372-375.	27.8	637
6	Myelin-Associated Glycoprotein Interacts with the Nogo66 Receptor to Inhibit Neurite Outgrowth. <i>Neuron</i> , 2002, 35, 283-290.	8.1	533
7	Intrinsic Control of Axon Regeneration. <i>Neuron</i> , 2016, 90, 437-451.	8.1	469
8	SOCS3 Deletion Promotes Optic Nerve Regeneration In Vivo. <i>Neuron</i> , 2009, 64, 617-623.	8.1	442
9	Reprogramming to recover youthful epigenetic information and restore vision. <i>Nature</i> , 2020, 588, 124-129.	27.8	424
10	Subtype-Specific Regeneration of Retinal Ganglion Cells following Axotomy: Effects of Osteopontin and mTOR Signaling. <i>Neuron</i> , 2015, 85, 1244-1256.	8.1	421
11	Neuronal Intrinsic Mechanisms of Axon Regeneration. <i>Annual Review of Neuroscience</i> , 2011, 34, 131-152.	10.7	404
12	Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. <i>Neuron</i> , 2019, 104, 1039-1055.e12.	8.1	396
13	Required growth facilitators propel axon regeneration across complete spinal cord injury. <i>Nature</i> , 2018, 561, 396-400.	27.8	341
14	A Systems-Level Analysis of the Peripheral Nerve Intrinsic Axonal Growth Program. <i>Neuron</i> , 2016, 89, 956-970.	8.1	314
15	Counteracting the Nogo Receptor Enhances Optic Nerve Regeneration If Retinal Ganglion Cells Are in an Active Growth State. <i>Journal of Neuroscience</i> , 2004, 24, 1646-1651.	3.6	258
16	Neural activity promotes long-distance, target-specific regeneration of adult retinal axons. <i>Nature Neuroscience</i> , 2016, 19, 1073-1084.	14.8	246
17	Short Hairpin RNA against PTEN Enhances Regenerative Growth of Corticospinal Tract Axons after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2013, 33, 15350-15361.	3.6	245
18	Injury-Induced Decline of Intrinsic Regenerative Ability Revealed by Quantitative Proteomics. <i>Neuron</i> , 2015, 86, 1000-1014.	8.1	220

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19	Restoration of Visual Function by Enhancing Conduction in Regenerated Axons. <i>Cell</i> , 2016, 164, 219-232.	28.9	209
20	THE NOGO SIGNALING PATHWAY FOR REGENERATION BLOCK. <i>Annual Review of Neuroscience</i> , 2004, 27, 341-368.	10.7	201
21	Microglia-organized scar-free spinal cord repair in neonatal mice. <i>Nature</i> , 2020, 587, 613-618.	27.8	197
22	Differential Effects of Unfolded Protein Response Pathways on Axon Injury-Induced Death of Retinal Ganglion Cells. <i>Neuron</i> , 2012, 73, 445-452.	8.1	174
23	Reaching the brain: Advances in optic nerve regeneration. <i>Experimental Neurology</i> , 2017, 287, 365-373.	4.1	173
24	Touch and tactile neuropathic pain sensitivity are set by corticospinal projections. <i>Nature</i> , 2018, 561, 547-550.	27.8	171
25	Reactivation of Dormant Relay Pathways in Injured Spinal Cord by KCC2 Manipulations. <i>Cell</i> , 2018, 174, 521-535.e13.	28.9	165
26	Deconstruction of Corticospinal Circuits for Goal-Directed Motor Skills. <i>Cell</i> , 2017, 171, 440-455.e14.	28.9	155
27	A Sensitized IGF1 Treatment Restores Corticospinal Axon-Dependent Functions. <i>Neuron</i> , 2017, 95, 817-833.e4.	8.1	155
28	Restoration of skilled locomotion by sprouting corticospinal axons induced by co-deletion of PTEN and SOCS3. <i>Nature Communications</i> , 2015, 6, 8074.	12.8	154
29	Sox11 Expression Promotes Regeneration of Some Retinal Ganglion Cell Types but Kills Others. <i>Neuron</i> , 2017, 94, 1112-1120.e4.	8.1	151
30	The Mammalian-Specific Protein Armcx1 Regulates Mitochondrial Transport during Axon Regeneration. <i>Neuron</i> , 2016, 92, 1294-1307.	8.1	150
31	An Intrinsic Epigenetic Barrier for Functional Axon Regeneration. <i>Neuron</i> , 2017, 94, 337-346.e6.	8.1	130
32	Doublecortin-Like Kinases Promote Neuronal Survival and Induce Growth Cone Reformation via Distinct Mechanisms. <i>Neuron</i> , 2015, 88, 704-719.	8.1	104
33	Signaling regulations of neuronal regenerative ability. <i>Current Opinion in Neurobiology</i> , 2014, 27, 135-142.	4.2	102
34	Axon Regeneration in the Mammalian Optic Nerve. <i>Annual Review of Vision Science</i> , 2020, 6, 195-213.	4.4	101
35	Effects of PTEN and Nogo Codeletion on Corticospinal Axon Sprouting and Regeneration in Mice. <i>Journal of Neuroscience</i> , 2015, 35, 6413-6428.	3.6	95
36	Neuronal deletion of Gtf2i, associated with Williams syndrome, causes behavioral and myelin alterations rescuable by a remyelinating drug. <i>Nature Neuroscience</i> , 2019, 22, 700-708.	14.8	92

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37	Elevating Growth Factor Responsiveness and Axon Regeneration by Modulating Presynaptic Inputs. <i>Neuron</i> , 2019, 103, 39-51.e5.	8.1	89
38	Knowing How to Navigate: Mechanisms of Semaphorin Signaling in the Nervous System. <i>Science Signaling</i> , 2002, 2002, re1.	3.6	87
39	Robust Axonal Regeneration Occurs in the Injured CAST/Ei Mouse CNS. <i>Neuron</i> , 2015, 86, 1215-1227.	8.1	87
40	B-RAF kinase drives developmental axon growth and promotes axon regeneration in the injured mature CNS. <i>Journal of Experimental Medicine</i> , 2014, 211, 801-814.	8.5	86
41	Solving neurodegeneration: common mechanisms and strategies for new treatments. <i>Molecular Neurodegeneration</i> , 2022, 17, 23.	10.8	83
42	Robust Myelination of Regenerated Axons Induced by Combined Manipulations of GPR17 and Microglia. <i>Neuron</i> , 2020, 108, 876-886.e4.	8.1	76
43	Microglia coordinate cellular interactions during spinal cord repair in mice. <i>Nature Communications</i> , 2022, 13, .	12.8	61
44	LATS suppresses mTORC1 activity to directly coordinate Hippo and mTORC1 pathways in growth control. <i>Nature Cell Biology</i> , 2020, 22, 246-256.	10.3	56
45	Neuronal mitochondria transport Pink1 mRNA via synaptojanin 2 to support local mitophagy. <i>Neuron</i> , 2022, 110, 1516-1531.e9.	8.1	55
46	Characterization of Long Descending Premotor Propriospinal Neurons in the Spinal Cord. <i>Journal of Neuroscience</i> , 2014, 34, 9404-9417.	3.6	51
47	The Brain Metabolome of Male Rats across the Lifespan. <i>Scientific Reports</i> , 2016, 6, 24125.	3.3	51
48	Improving hindlimb locomotor function by Non-invasive AAV-mediated manipulations of propriospinal neurons in mice with complete spinal cord injury. <i>Nature Communications</i> , 2021, 12, 781.	12.8	50
49	In Vivo Two-Photon Imaging of Axonal Dieback, Blood Flow and Calcium Influx withMethylprednisolone Therapy after Spinal Cord Injury. <i>Scientific Reports</i> , 2015, 5, 9691.	3.3	48
50	Overlapping transcriptional programs promote survival and axonal regeneration of injured retinal ganglion cells. <i>Neuron</i> , 2022, 110, 2625-2645.e7.	8.1	48
51	Activating Transcription Factor 3 (ATF3) Protects Retinal Ganglion Cells and Promotes Functional Preservation After Optic Nerve Crush. , 2020, 61, 31.		46
52	Core transcription programs controlling injury-induced neurodegeneration of retinal ganglion cells. <i>Neuron</i> , 2022, 110, 2607-2624.e8.	8.1	45
53	Reciprocal repulsions instruct the precise assembly of parallel hippocampal networks. <i>Science</i> , 2021, 372, 1068-1073.	12.6	38
54	A high mitochondrial transport rate characterizes CNS neurons with high axonal regeneration capacity. <i>PLoS ONE</i> , 2017, 12, e0184672.	2.5	37

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55	MyelTracer: A Semi-Automated Software for Myelin<i>g</i>-Ratio Quantification. ENeuro, 2021, 8, ENEURO.0558-20.2021.	1.9	32
56	SOCS3: A common target for neuronal protection and axon regeneration after spinal cord injury. Experimental Neurology, 2015, 263, 364-367.	4.1	24
57	Intrinsic control of axon regeneration. Journal of Biomedical Research, 2010, 24, 2-5.	1.6	19
58	Variable laterality of corticospinal tract axons that regenerate after spinal cord injury as a result of PTEN deletion or knock“down. Journal of Comparative Neurology, 2016, 524, 2654-2676.	1.6	18
59	Retinal ganglion cell survival and axon regeneration after optic nerve injury in naked mole“rats. Journal of Comparative Neurology, 2017, 525, 380-388.	1.6	17
60	Viral vectors for neuronal cell type-specific visualization and manipulations. Current Opinion in Neurobiology, 2020, 63, 67-76.	4.2	16
61	No simpler than mammals: axon and dendrite regeneration in Drosophila. Genes and Development, 2012, 26, 1509-1514.	5.9	15
62	Meeting Proceedings for SCI 2020: Launching a Decade of Disruption in Spinal Cord Injury Research. Journal of Neurotrauma, 2021, 38, 1251-1266.	3.4	14
63	Axon Regeneration: A Subcellular Extension in Multiple Dimensions. Cold Spring Harbor Perspectives in Biology, 2022, 14, a040923.	5.5	9
64	Preclinical insights into therapeutic targeting of KCC2 for disorders of neuronal hyperexcitability. Expert Opinion on Therapeutic Targets, 2020, 24, 629-637.	3.4	8
65	Lipidomics dataset of PTEN deletion-induced optic nerve regeneration mouse model. Data in Brief, 2021, 34, 106699.	1.0	6
66	Independent Control of Aging and Axon Regeneration. Cell Metabolism, 2014, 19, 354-356.	16.2	5
67	Two-photon microscopy as a tool to investigate the therapeutic time window of methylprednisolone in a mouse spinal cord injury model. Restorative Neurology and Neuroscience, 2015, 33, 291-300.	0.7	5
68	Building bridges to regenerate axons. Science, 2016, 354, 544-545.	12.6	2
69	Utilizing mouse optic nerve crush to examine CNS remyelination. STAR Protocols, 2021, 2, 100796.	1.2	2
70	How Oligodendrocytes Help The Brain Function. Frontiers for Young Minds, 0, 9, .	0.8	0
71	Intrinsic control of axon regeneration. FASEB Journal, 2010, 24, 173.3.	0.5	0
72	Intrinsic Neuronal Mechanisms in Axon Regeneration After Spinal Cord Injury. , 2016, , 399-414.		0