

Hauke B Werner

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

5,459
citations

94433

37
h-index

88630

70
g-index

177
all docs

177
docs citations

177
times ranked

6730
citing authors

#	ARTICLE	IF	CITATIONS
1	Myelination of the Nervous System: Mechanisms and Functions. Annual Review of Cell and Developmental Biology, 2014, 30, 503-533.	9.4	722
2	Dynamin and the Actin Cytoskeleton Cooperatively Regulate Plasma Membrane Invagination by BAR and F-BAR Proteins. Developmental Cell, 2005, 9, 791-804.	7.0	538
3	Axonal loss and neuroinflammation caused by peroxisome-deficient oligodendrocytes. Nature Genetics, 2007, 39, 969-976.	21.4	294
4	Myelin Proteomics: Molecular Anatomy of an Insulating Sheath. Molecular Neurobiology, 2009, 40, 55-72.	4.0	259
5	Proteolipid Protein Is Required for Transport of Sirtuin 2 into CNS Myelin. Journal of Neuroscience, 2007, 27, 7717-7730.	3.6	217
6	Inactivation of ether lipid biosynthesis causes male infertility, defects in eye development and optic nerve hypoplasia in mice. Human Molecular Genetics, 2003, 12, 1881-1895.	2.9	198
7	Targeted inactivation of the X-linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	2.9	181
8	Quantitative and Integrative Proteome Analysis of Peripheral Nerve Myelin Identifies Novel Myelin Proteins and Candidate Neuropathy Loci. Journal of Neuroscience, 2011, 31, 16369-16386.	3.6	164
9	Antagonistic Functions of MBP and CNP Establish Cytosolic Channels in CNS Myelin. Cell Reports, 2017, 18, 314-323.	6.4	145
10	Early ultrastructural defects of axons and axon-glia junctions in mice lacking expression of <i>Cnp1</i> . Glia, 2009, 57, 1815-1824.	4.9	142
11	Systematic approaches to central nervous system myelin. Cellular and Molecular Life Sciences, 2012, 69, 2879-2894.	5.4	100
12	Functional hypoxia drives neuroplasticity and neurogenesis via brain erythropoietin. Nature Communications, 2020, 11, 1313.	12.8	95
13	A critical role for the cholesterol-associated proteolipids PLP and M6B in myelination of the central nervous system. Glia, 2013, 61, 567-586.	4.9	91
14	Phosphatidylinositol 4,5-Bisphosphate-Dependent Interaction of Myelin Basic Protein with the Plasma Membrane in Oligodendroglial Cells and Its Rapid Perturbation by Elevated Calcium. Journal of Neuroscience, 2009, 29, 4794-4807.	3.6	90
15	Readthrough of nonsense mutations in Rett syndrome: evaluation of novel aminoglycosides and generation of a new mouse model. Journal of Molecular Medicine, 2011, 89, 389-398.	3.9	90
16	Microglia ablation alleviates myelin-associated catatonic signs in mice. Journal of Clinical Investigation, 2017, 128, 734-745.	8.2	88
17	The Proteoglycan NG2 Is Complexed with α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors by the PDZ Glutamate Receptor Interaction Protein (GRIP) in Glial Progenitor Cells. Journal of Biological Chemistry, 2003, 278, 3590-3598.	3.4	87
18	Oligodendrocytes support axonal transport and maintenance via exosome secretion. PLoS Biology, 2020, 18, e3000621.	5.6	85

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19	A role for talin in presynaptic function. <i>Journal of Cell Biology</i> , 2004, 167, 43-50.	5.2	78
20	Phylogeny of proteolipid proteins: divergence, constraints, and the evolution of novel functions in myelination and neuroprotection. <i>Neuron Glia Biology</i> , 2008, 4, 111-127.	1.6	70
21	Septin/anillin filaments scaffold central nervous system myelin to accelerate nerve conduction. <i>ELife</i> , 2016, 5, .	6.0	68
22	The transcriptome of mouse central nervous system myelin. <i>Scientific Reports</i> , 2016, 6, 25828.	3.3	66
23	Uncoupling of neuroinflammation from axonal degeneration in mice lacking the myelin protein tetraspaninâ€². <i>Glia</i> , 2013, 61, 1832-1847.	4.9	65
24	Molecular evolution of myelin basic protein, an abundant structural myelin component. <i>Glia</i> , 2013, 61, 1364-1377.	4.9	63
25	Proteome profile of peripheral myelin in healthy mice and in a neuropathy model. <i>ELife</i> , 2020, 9, .	6.0	63
26	Cortical network dysfunction caused by a subtle defect of myelination. <i>Glia</i> , 2016, 64, 2025-2040.	4.9	62
27	Electron microscopy of myelin: Structure preservation by high-pressure freezing. <i>Brain Research</i> , 2016, 1641, 92-100.	2.2	60
28	Evolution of myelin proteolipid proteins: Gene duplication in teleosts and expression pattern divergence. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 161-177.	2.2	57
29	The CNS Myelin Proteome: Deep Profile and Persistence After Post-mortem Delay. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 239.	3.7	54
30	Expression of distinct splice variants of the stem cell marker promininâ€¹ (CD133) in glial cells. <i>Glia</i> , 2009, 57, 860-874.	4.9	52
31	The SNARE protein SNAPâ€²9 interacts with the GTPase Rab3A: Implications for membrane trafficking in myelinating glia. <i>Journal of Neuroscience Research</i> , 2009, 87, 3465-3479.	2.9	51
32	Interaction of Syntenin-1 and the NG2 Proteoglycan in Migratory Oligodendrocyte Precursor Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 8310-8317.	3.4	50
33	Mouse Models of Myelin Diseases. <i>Brain Pathology</i> , 1998, 8, 771-793.	4.1	49
34	Anillin facilitates septin assembly to prevent pathological outfoldings of central nervous system myelin. <i>ELife</i> , 2019, 8, .	6.0	49
35	Multiple Splice Isoforms of Proteolipid M6B in Neurons and Oligodendrocytes. <i>Molecular and Cellular Neurosciences</i> , 2001, 18, 593-605.	2.2	48
36	Ensheathment and Myelination of Axons: Evolution of Glial Functions. <i>Annual Review of Neuroscience</i> , 2021, 44, 197-219.	10.7	45

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37	The septin cytoskeleton in myelinating glia. <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 156-166.	2.2	44
38	A single gene defect causing claustrophobia. <i>Translational Psychiatry</i> , 2013, 3, e254-e254.	4.8	41
39	Transcallosal Projections Require Glycoprotein M6-Dependent Neurite Growth and Guidance. <i>Cerebral Cortex</i> , 2015, 25, 4111-4125.	2.9	41
40	Maintenance of high proteolipid protein level in adult central nervous system myelin is required to preserve the integrity of myelin and axons. <i>Glia</i> , 2019, 67, 634-649.	4.9	39
41	Genetic dissection of oligodendroglial and neuronal <i>Plp1</i> function in a novel mouse model of spastic paraplegia type 2. <i>Glia</i> , 2017, 65, 1762-1776.	4.9	34
42	Axonal Ensheathment in the Nervous System of Lamprey: Implications for the Evolution of Myelinating Glia. <i>Journal of Neuroscience</i> , 2018, 38, 6586-6596.	3.6	34
43	Gpm6b deficiency impairs sensorimotor gating and modulates the behavioral response to a 5-HT2A/C receptor agonist. <i>Behavioural Brain Research</i> , 2015, 277, 254-263.	2.2	31
44	White matter integrity in mice requires continuous myelin synthesis at the inner tongue. <i>Nature Communications</i> , 2022, 13, 1163.	12.8	30
45	Myelin: Methods for Purification and Proteome Analysis. <i>Methods in Molecular Biology</i> , 2019, 1936, 37-63.	0.9	27
46	CMTM6 expressed on the adaxonal Schwann cell surface restricts axonal diameters in peripheral nerves. <i>Nature Communications</i> , 2020, 11, 4514.	12.8	27
47	Structural myelin defects are associated with low axonal ATP levels but rapid recovery from energy deprivation in a mouse model of spastic paraplegia. <i>PLoS Biology</i> , 2020, 18, e3000943.	5.6	26
48	The NG2 Proteoglycan Protects Oligodendrocyte Precursor Cells against Oxidative Stress via Interaction with OMI/HtrA2. <i>PLoS ONE</i> , 2015, 10, e0137311.	2.5	26
49	Tuning PAK Activity to Rescue Abnormal Myelin Permeability in HNPP. <i>PLoS Genetics</i> , 2016, 12, e1006290.	3.5	25
50	High-affinity heterotetramer formation between the large myelin-associated glycoprotein and the dynein light chain <i>DYNLL1</i> . <i>Journal of Neurochemistry</i> , 2018, 147, 764-783.	3.9	24
51	Conservation and divergence of myelin proteome and oligodendrocyte transcriptome profiles between humans and mice. <i>ELife</i> , 2022, 11, .	6.0	24
52	Proteolipid protein modulates preservation of peripheral axons and premature death when myelin protein zero is lacking. <i>Glia</i> , 2016, 64, 155-174.	4.9	23
53	Glycoprotein M6a is present in glutamatergic axons in adult rat forebrain and cerebellum. <i>Brain Research</i> , 2008, 1197, 1-12.	2.2	22
54	Progesterone Antagonist Therapy in a Pelizaeus-Merzbacher Mouse Model. <i>American Journal of Human Genetics</i> , 2014, 94, 533-546.	6.2	21

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55	Abcd2 Is a Strong Modifier of the Metabolic Impairments in Peritoneal Macrophages of Abcd1-Deficient Mice. PLoS ONE, 2014, 9, e108655.	2.5	21
56	Hyccin, the Molecule Mutated in the Leukodystrophy Hypomyelination and Congenital Cataract (HCC), Is a Neuronal Protein. PLoS ONE, 2012, 7, e32180.	2.5	20
57	Myelin Proteome Analysis: Methods and Implications for the Myelin Cytoskeleton. Neuromethods, 2013, , 335-353.	0.3	19
58	Glial M6B stabilizes the axonal membrane at peripheral nodes of Ranvier. Glia, 2018, 66, 801-812.	4.9	17
59	Pathology of myelinated axons in the PLP-deficient mouse model of spastic paraplegia type 2 revealed by volume imaging using focused ion beam-scanning electron microscopy. Journal of Structural Biology, 2020, 210, 107492.	2.8	17
60	Myelin matters: proteomic insights into white matter disorders. Expert Review of Proteomics, 2010, 7, 159-164.	3.0	16
61	Interferon-driven brain phenotype in a mouse model of RNaseT2 deficient leukoencephalopathy. Nature Communications, 2021, 12, 6530.	12.8	16
62	Do we have to reconsider the evolutionary emergence of myelin?. Frontiers in Cellular Neuroscience, 2013, 7, 217.	3.7	15
63	Curcumin therapy in a <i>Plp1</i> transgenic mouse model of Pelizaeusâ€Merzbacher disease. Annals of Clinical and Translational Neurology, 2015, 2, 787-796.	3.7	15
64	Partial Immunoblotting of 2D-Gels: A Novel Method to Identify Post-Translationally Modified Proteins Exemplified for the Myelin Acetylome. Proteomes, 2017, 5, 3.	3.5	15
65	Myelinating Glia-Specific Deletion of Fbxo7 in Mice Triggers Axonal Degeneration in the Central Nervous System Together with Peripheral Neuropathy. Journal of Neuroscience, 2019, 39, 5606-5626.	3.6	14
66	Proteome Profile of Myelin in the Zebrafish Brain. Frontiers in Cell and Developmental Biology, 2021, 9, 640169.	3.7	14
67	Molecular cloning and transfection studies of M6b-2, a novel splice variant of a member of the PLP-DM20/M6 gene family. Journal of Neuroscience Research, 1998, 52, 633-640.	2.9	10
68	Epitope-Specific Tolerance Modes Differentially Specify Susceptibility to Proteolipid Protein-Induced Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2017, 8, 1511.	4.8	10
69	Turning to myelin turnover. Neural Regeneration Research, 2019, 14, 2063.	3.0	10
70	Progressive axonopathy when oligodendrocytes lack the myelin protein CMTM5. ELife, 2022, 11, .	6.0	9
71	Septins in the glial cells of the nervous system. Biological Chemistry, 2014, 395, 143-149.	2.5	8
72	Gallyas Silver Impregnation of Myelinated Nerve Fibers. Bio-protocol, 2019, 9, e3436.	0.4	6

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73	Pinch2 regulates myelination in the mouse central nervous system. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	2
74	On the evolution of myelin. <i>Brain Research</i> , 2016, 1641, 1-3.	2.2	1
75	Enhanced Actin Dynamics: A Therapeutic Strategy for Axonal Regeneration?. <i>Neuron</i> , 2019, 103, 949-950.	8.1	1
76	Mutations of Myelination-Associated Genes That Affect Axonal Integrity. , 2005, , 305-315.		0