Hauke B Werner

List of Publications by Year
in descending order

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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	White matter integrity in miceÂrequires continuous myelin synthesis at the inner tongue. Nature Communications, 2022, 13, 1163.	12.8	30
2	Progressive axonopathy when oligodendrocytes lack the myelin protein CMTM5. ELife, 2022, 11, .	6.0	9
3	Conservation and divergence of myelin proteome and oligodendrocyte transcriptome profiles between humans and mice. ELife, 2022, 11, .	6.0	24
4	Pinch2 regulates myelination in the mouse central nervous system. Development (Cambridge), 2022, 149, .	2.5	2
5	Proteome Profile of Myelin in the Zebrafish Brain. Frontiers in Cell and Developmental Biology, 2021, 9, 640169.	3.7	14
6	Ensheathment and Myelination of Axons: Evolution of Glial Functions. Annual Review of Neuroscience, 2021, 44, 197-219.	10.7	45
7	Interferon-driven brain phenotype in a mouse model of RNaseT2 deficient leukoencephalopathy. Nature Communications, 2021, 12, 6530.	12.8	16
8	The CNS Myelin Proteome: Deep Profile and Persistence After Post-mortem Delay. Frontiers in Cellular Neuroscience, 2020, 14, 239.	3.7	54
9	CMTM6 expressed on the adaxonal Schwann cell surface restricts axonal diameters in peripheral nerves. Nature Communications, 2020, 11, 4514.	12.8	27
10	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
11	Functional hypoxia drives neuroplasticity and neurogenesis via brain erythropoietin. Nature Communications, 2020, 11, 1313.	12.8	95
12	Oligodendrocytes support axonal transport and maintenance via exosome secretion. PLoS Biology, 2020, 18, e3000621.	5.6	85
13	Structural myelin defects are associated with low axonal ATP levels but rapid recovery from energy deprivation in a mouse model of spastic paraplegia. PLoS Biology, 2020, 18, e3000943.	5.6	26
14	Proteome profile of peripheral myelin in healthy mice and in a neuropathy model. ELife, 2020, 9, .	6.0	63
15	Enhanced Actin Dynamics: A Therapeutic Strategy for Axonal Regeneration?. Neuron, 2019, 103, 949-950.	8.1	1
16	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
17	Myelin: Methods for Purification and Proteome Analysis. Methods in Molecular Biology, 2019, 1936, 37-63.	0.9	27
18	Maintenance of high proteolipid protein level in adult central nervous system myelin is required to preserve the integrity of myelin and axons. Glia, 2019, 67, 634-649.	4.9	39

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19	Gallyas Silver Impregnation of Myelinated Nerve Fibers. Bio-protocol, 2019, 9, e3436.	0.4	6
20	Turning to myelin turnover. Neural Regeneration Research, 2019, 14, 2063.	3.0	10
21	Anillin facilitates septin assembly to prevent pathological outfoldings of central nervous system myelin. ELife, 2019, 8, .	6.0	49
22	Glial M6B stabilizes the axonal membrane at peripheral nodes of Ranvier. Glia, 2018, 66, 801-812.	4.9	17
23	Highâ€affinity heterotetramer formation between the large myelinâ€associated glycoprotein and the dynein light chain <scp>DYNLL</scp>1. Journal of Neurochemistry, 2018, 147, 764-783.	3.9	24
24	Axonal Ensheathment in the Nervous System of Lamprey: Implications for the Evolution of Myelinating Glia. Journal of Neuroscience, 2018, 38, 6586-6596.	3.6	34
25	Antagonistic Functions of MBP and CNP Establish Cytosolic Channels in CNS Myelin. Cell Reports, 2017, 18, 314-323.	6.4	145
26	Genetic dissection of oligodendroglial and neuronalPlp1function in a novel mouse model of spastic paraplegia type 2. Glia, 2017, 65, 1762-1776.	4.9	34
27	Epitope-Specific Tolerance Modes Differentially Specify Susceptibility to Proteolipid Protein-Induced Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2017, 8, 1511.	4.8	10
28	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
29	Microglia ablation alleviates myelin-associated catatonic signs in mice. Journal of Clinical Investigation, 2017, 128, 734-745.	8.2	88
30	The transcriptome of mouse central nervous system myelin. Scientific Reports, 2016, 6, 25828.	3.3	66
31	Proteolipid protein modulates preservation of peripheral axons and premature death when myelin protein zero is lacking. Glia, 2016, 64, 155-174.	4.9	23
32	Cortical network dysfunction caused by a subtle defect of myelination. Glia, 2016, 64, 2025-2040.	4.9	62
33	On the evolution of myelin. Brain Research, 2016, 1641, 1-3.	2.2	1
34	Electron microscopy of myelin: Structure preservation by high-pressure freezing. Brain Research, 2016, 1641, 92-100.	2.2	60
35	Tuning PAK Activity to Rescue Abnormal Myelin Permeability in HNPP. PLoS Genetics, 2016, 12, e1006290.	3.5	25
36	Septin/anillin filaments scaffold central nervous system myelin to accelerate nerve conduction. ELife, 2016, 5, .	6.0	68

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37	Curcumin therapy in a Plp1 transgenic mouse model of Pelizaeusâ€Merzbacher disease. Annals of Clinical and Translational Neurology, 2015, 2, 787-796.	3.7	15
38	Transcallosal Projections Require Glycoprotein M6-Dependent Neurite Growth and Guidance. Cerebral Cortex, 2015, 25, 4111-4125.	2.9	41
39	Gpm6b deficiency impairs sensorimotor gating and modulates the behavioral response to a 5-HT2A/C receptor agonist. Behavioural Brain Research, 2015, 277, 254-263.	2.2	31
40	The NG2 Proteoglycan Protects Oligodendrocyte Precursor Cells against Oxidative Stress via Interaction with OMI/HtrA2. PLoS ONE, 2015, 10, e0137311.	2.5	26
41	Septins in the glial cells of the nervous system. Biological Chemistry, 2014, 395, 143-149.	2.5	8
42	Myelination of the Nervous System: Mechanisms and Functions. Annual Review of Cell and Developmental Biology, 2014, 30, 503-533.	9.4	722
43	Progesterone Antagonist Therapy in a Pelizaeus-Merzbacher Mouse Model. American Journal of Human Genetics, 2014, 94, 533-546.	6.2	21
44	Abcd2 Is a Strong Modifier of the Metabolic Impairments in Peritoneal Macrophages of Abcd1-Deficient Mice. PLoS ONE, 2014, 9, e108655.	2.5	21
45	Molecular evolution of myelin basic protein, an abundant structural myelin component. Glia, 2013, 61, 1364-1377.	4.9	63
46	Uncoupling of neuroinflammation from axonal degeneration in mice lacking the myelin protein tetraspaninâ€2. Glia, 2013, 61, 1832-1847.	4.9	65
47	A single gene defect causing claustrophobia. Translational Psychiatry, 2013, 3, e254-e254.	4.8	41
48	A critical role for the cholesterolâ€associated proteolipids PLP and M6B in myelination of the central nervous system. Glia, 2013, 61, 567-586.	4.9	91
49	Do we have to reconsider the evolutionary emergence of myelin?. Frontiers in Cellular Neuroscience, 2013, 7, 217.	3.7	15
50	Myelin Proteome Analysis: Methods and Implications for the Myelin Cytoskeleton. Neuromethods, 2013, , 335-353.	0.3	19
51	Systematic approaches to central nervous system myelin. Cellular and Molecular Life Sciences, 2012, 69, 2879-2894.	5.4	100
52	Hyccin, the Molecule Mutated in the Leukodystrophy Hypomyelination and Congenital Cataract (HCC), Is a Neuronal Protein. PLoS ONE, 2012, 7, e32180.	2.5	20
53	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
54	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

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55	Myelin matters: proteomic insights into white matter disorders. Expert Review of Proteomics, 2010, 7, 159-164.	3.0	16
56	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
57	Expression of distinct splice variants of the stem cell marker prominin‚Äê1 (CD133) in glial cells. Glia, 2009, 57, 860-874.	4.9	52
58	Early ultrastructural defects of axons and axon‚Äêglia junctions in mice lacking expression of Cnp1. Glia, 2009, 57, 1815-1824.	4.9	142
59	The SNARE protein SNAP‚Äê29 interacts with the GTPase Rab3A: Implications for membrane trafficking in myelinating glia. Journal of Neuroscience Research, 2009, 87, 3465-3479.	2.9	51
60	Myelin Proteomics: Molecular Anatomy of an Insulating Sheath. Molecular Neurobiology, 2009, 40, 55-72.	4.0	259
61	The septin cytoskeleton in myelinating glia. Molecular and Cellular Neurosciences, 2009, 40, 156-166.	2.2	44
62	Glycoprotein M6a is present in glutamatergic axons in adult rat forebrain and cerebellum. Brain Research, 2008, 1197, 1-12.	2.2	22
63	Interaction of Syntenin-1 and the NG2 Proteoglycan in Migratory Oligodendrocyte Precursor Cells. Journal of Biological Chemistry, 2008, 283, 8310-8317.	3.4	50
64	Phylogeny of proteolipid proteins: divergence, constraints, and the evolution of novel functions in myelination and neuroprotection. Neuron Glia Biology, 2008, 4, 111-127.	1.6	70
65	Proteolipid Protein Is Required for Transport of Sirtuin 2 into CNS Myelin. Journal of Neuroscience, 2007, 27, 7717-7730.	3.6	217
66	Axonal loss and neuroinflammation caused by peroxisome-deficient oligodendrocytes. Nature Genetics, 2007, 39, 969-976.	21.4	294
67	Evolution of myelin proteolipid proteins: Gene duplication in teleosts and expression pattern divergence. Molecular and Cellular Neurosciences, 2006, 31, 161-177.	2.2	57
68	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
69	Mutations of Myelination-Associated Genes That Affect Axonal Integrity. , 2005, , 305-315.		0
70	A role for talin in presynaptic function. Journal of Cell Biology, 2004, 167, 43-50.	5.2	78
71	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
72	The Proteoglycan NG2 Is Complexed with Î±-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

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73	Multiple Splice Isoforms of Proteolipid M6B in Neurons and Oligodendrocytes. Molecular and Cellular Neurosciences, 2001, 18, 593-605.	2.2	48
74	Mouse Models of Myelin Diseases. Brain Pathology, 1998, 8, 771-793.	4.1	49
75	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
76	Targeted inactivation of the X-linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	2.9	181