Peter J Brophy

List of Publications by Year
in descending order

34	2,892	201674	377865
papers	citations	27 h-index	34 g-index

36	36	36	2529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neurofascins Are Required to Establish Axonal Domains for Saltatory Conduction. Neuron, 2005, 48, 737-742.	8.1	306
2	An Oligodendrocyte Cell Adhesion Molecule at the Site of Assembly of the Paranodal Axo-Glial Junction. Journal of Cell Biology, 2000, 150, 657-666.	5.2	280
3	Peripheral Demyelination and Neuropathic Pain Behavior in Periaxin-Deficient Mice. Neuron, 2000, 26, 523-531.	8.1	194
4	Specific Disruption of a Schwann Cell Dystrophin-Related Protein Complex in a Demyelinating Neuropathy. Neuron, 2001, 30, 677-687.	8.1	189
5	Restricted growth of Schwann cells lacking Cajal bands slows conduction in myelinated nerves. Nature, 2004, 431, 191-195.	27.8	187
6	A Glial Signal Consisting of Gliomedin and NrCAM Clusters Axonal Na+ Channels during the Formation of Nodes of Ranvier. Neuron, 2010, 65, 490-502.	8.1	179
7	Glial and neuronal isoforms of Neurofascin have distinct roles in the assembly of nodes of Ranvier in the central nervous system. Journal of Cell Biology, 2008, 181, 1169-1177.	5.2	171
8	Periaxin, a novel protein of myelinating schwann cells with a possible role in axonal ensheathment. Neuron, 1994, 12, 497-508.	8.1	157
9	A Critical Role for Neurofascin in Regulating Action Potential Initiation through Maintenance of the Axon Initial Segment. Neuron, 2011, 69, 945-956.	8.1	139
10	Periaxin mutations cause a broad spectrum of demyelinating neuropathies. Annals of Neurology, 2002, 51, 709-715.	5.3	106
11	Two PDZ Domain Proteins Encoded by the Murine Periaxin Gene Are the Result of Alternative Intron Retention and Are Differentially Targeted in Schwann Cells. Journal of Biological Chemistry, 1998, 273, 5794-5800.	3.4	79
12	Increasing Internodal Distance in Myelinated Nerves Accelerates Nerve Conduction to a Flat Maximum. Current Biology, 2012, 22, 1957-1961.	3.9	79
13	Clinicopathological and genetic study of early-onset demyelinating neuropathy. Brain, 2004, 127, 2540-2550.	7.6	76
14	Acceleration of conduction velocity linked to clustering of nodal components precedes myelination. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E321-8.	7.1	65
15	Proteome profile of peripheral myelin in healthy mice and in a neuropathy model. ELife, 2020, 9, .	6.0	63
16	A Tripartite Nuclear Localization Signal in the PDZ-domain Protein L-periaxin. Journal of Biological Chemistry, 2000, 275, 4537-4540.	3.4	58
17	The paranodal cytoskeleton clusters Na+ channels at nodes of Ranvier. ELife, 2017, 6, .	6.0	57
18	Drp2 and Periaxin Form Cajal Bands with Dystroglycan But Have Distinct Roles in Schwann Cell Growth. Journal of Neuroscience, 2012, 32, 9419-9428.	3.6	53

#	Article	IF	Citations
19	Differential Stability of PNS and CNS Nodal Complexes When Neuronal Neurofascin Is Lost. Journal of Neuroscience, 2014, 34, 5083-5088.	3.6	49
20	Schwann Cell O-GlcNAc Glycosylation Is Required for Myelin Maintenance and Axon Integrity. Journal of Neuroscience, 2016, 36, 9633-9646.	3.6	48
21	Periaxin is required for hexagonal geometry and membrane organization of mature lens fibers. Developmental Biology, 2011, 357, 179-190.	2.0	47
22	Absence of Dystrophin Related Protein-2 disrupts Cajal bands in a patient with Charcotâ€“Marieâ€“Tooth disease. Neuromuscular Disorders, 2015, 25, 786-793.	0.6	40
23	Loss of Glial Neurofascin155 Delays Developmental Synapse Elimination at the Neuromuscular Junction. Journal of Neuroscience, 2014, 34, 12904-12918.	3.6	39
24	Neurofascin 140 Is an Embryonic Neuronal Neurofascin Isoform That Promotes the Assembly of the Node of Ranvier. Journal of Neuroscience, 2015, 35, 2246-2254.	3.6	37
25	Input-Output Relationship of CA1 Pyramidal Neurons Reveals Intact Homeostatic Mechanisms in a Mouse Model of Fragile X Syndrome. Cell Reports, 2020, 32, 107988.	6.4	37
26	FAK Is Required for Schwann Cell Spreading on Immature Basal Lamina to Coordinate the Radial Sorting of Peripheral Axons with Myelination. Journal of Neuroscience, 2014, 34, 13422-13434.	3.6	36
27	Homozygous mutation in the Neurofascin gene affecting the glial isoform of Neurofascin causes severe neurodevelopment disorder with hypotonia, amimia and areflexia. Human Molecular Genetics, 2018, 27, 3669-3674.	2.9	34
28	Assembly of CNS Nodes of Ranvier in Myelinated Nerves Is Promoted by the Axon Cytoskeleton. Current Biology, 2017, 27, 1068-1073.	3.9	32
29	A murine model of Charcot-Marie-Tooth disease 4F reveals a role for the C-terminus of periaxin in the formation and stabilization of Cajal bands. Wellcome Open Research, 2018, 3, 20.	1.8	12
30	Direct Binding of the Flexible C-Terminal Segment of Periaxin to Î²4 Integrin Suggests a Molecular Basis for CMT4F. Frontiers in Molecular Neuroscience, 2019, 12, 84.	2.9	12
31	Neurofascin and Kv7.3 are delivered to somatic and axon terminal surface membranes en route to the axon initial segment. ELife, 2020, 9, .	6.0	12
32	Completion of neuronal remodeling prompts myelination along developing motor axon branches. Journal of Cell Biology, 2021, 220, .	5.2	7
33	Loss of protohaem IX farnesyltransferase in mature dentate granule cells impairs shortâ€term facilitation at mossy fibre to CA3 pyramidal cell synapses. Journal of Physiology, 2017, 595, 2147-2160.	2.9	6
34	Dynamic early clusters of nodal proteins contribute to node of Ranvier assembly during myelination of peripheral neurons. ELife, 2021, 10, .	6.0	6