

Peter W Baas

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,671
citations

94433

37
h-index

102487

66
g-index

76
all docs

76
docs citations

76
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	KIFC1 Regulates the Trajectory of Neuronal Migration. <i>Journal of Neuroscience</i> , 2022, 42, 2149-2165.	3.6	8
2	Modeling gain-of-function and loss-of-function components of <i>SPAST</i> -based hereditary spastic paraplegia using transgenic mice. <i>Human Molecular Genetics</i> , 2022, 31, 1844-1859.	2.9	4
3	The Carbamate, Physostigmine does not Impair Axonal Transport in Rat Cortical Neurons. <i>Neuroscience Insights</i> , 2021, 16, 263310552110202.	1.6	1
4	Mini-review: Microtubule sliding in neurons. <i>Neuroscience Letters</i> , 2021, 753, 135867.	2.1	11
5	Therapeutic Strategies for Mutant <i>SPAST</i> -Based Hereditary Spastic Paraplegia. <i>Brain Sciences</i> , 2021, 11, 1081.	2.3	5
6	A cellular approach to understanding and treating Gulf War Illness. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6941-6961.	5.4	12
7	Chronic neuronal activation increases dynamic microtubules to enhance functional axon regeneration after dorsal root crush injury. <i>Nature Communications</i> , 2020, 11, 6131.	12.8	30
8	Resurrecting the Mysteries of Big Tau. <i>Trends in Neurosciences</i> , 2020, 43, 493-504.	8.6	54
9	Cover Image, Volume 77, Issue 3–4. <i>Cytoskeleton</i> , 2020, 77, C4.	2.0	0
10	The Community of Neuronal Cytoskeletal Researchers Finds a Home. <i>Cytoskeleton</i> , 2020, 77, 39-39.	2.0	0
11	New hypothesis for the etiology of <i>SPAST</i> -based hereditary spastic paraplegia. <i>Cytoskeleton</i> , 2019, 76, 289-297.	2.0	16
12	Mitotic Motor KIFC1 Is an Organizer of Microtubules in the Axon. <i>Journal of Neuroscience</i> , 2019, 39, 3792-3811.	3.6	19
13	Tau: It's Not What You Think. <i>Trends in Cell Biology</i> , 2019, 29, 452-461.	7.9	79
14	Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)/Cas9-mediated <i>kif15</i> mutations accelerate axonal outgrowth during neuronal development and regeneration in zebrafish. <i>Traffic</i> , 2019, 20, 71-81.	2.7	15
15	Knockdown of Fidgetin Improves Regeneration of Injured Axons by a Microtubule-Based Mechanism. <i>Journal of Neuroscience</i> , 2019, 39, 2011-2024.	3.6	26
16	Polarity Sorting of Microtubules in the Axon. <i>Trends in Neurosciences</i> , 2018, 41, 77-88.	8.6	47
17	Tau Does Not Stabilize Axonal Microtubules but Rather Enables Them to Have Long Labile Domains. <i>Current Biology</i> , 2018, 28, 2181-2189.e4.	3.9	155
18	Mutant spastin proteins promote deficits in axonal transport through an isoform-specific mechanism involving casein kinase 2 activation. <i>Human Molecular Genetics</i> , 2017, 26, 2321-2334.	2.9	27

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19	Reprogramming cells from Gulf War veterans into neurons to study Gulf War illness. <i>Neurology</i> , 2017, 88, 1968-1975.	1.1	11
20	Pharmacologically increasing microtubule acetylation corrects stress-exacerbated effects of organophosphates on neurons. <i>Traffic</i> , 2017, 18, 433-441.	2.7	34
21	Cytoplasmic Dynein Transports Axonal Microtubules in a Polarity-Sorting Manner. <i>Cell Reports</i> , 2017, 19, 2210-2219.	6.4	67
22	Truncating mutations of <i>SPAST</i> associated with hereditary spastic paraplegia indicate greater accumulation and toxicity of the M1 isoform of spastin. <i>Molecular Biology of the Cell</i> , 2017, 28, 1728-1737.	2.1	27
23	Polarity sorting of axonal microtubules: a computational study. <i>Molecular Biology of the Cell</i> , 2017, 28, 3271-3285.	2.1	12
24	Nanoparticle Delivery of Fidgetin siRNA as a Microtubule-based Therapy to Augment Nerve Regeneration. <i>Scientific Reports</i> , 2017, 7, 9675.	3.3	21
25	Microtubules in health and degenerative disease of the nervous system. <i>Brain Research Bulletin</i> , 2016, 126, 217-225.	3.0	106
26	Using siRNA to study microtubule-related proteins in cultured neurons. <i>Methods in Cell Biology</i> , 2016, 131, 163-176.	1.1	3
27	Microtubules and Growth Cones: Motors Drive the Turn. <i>Trends in Neurosciences</i> , 2016, 39, 433-440.	8.6	69
28	Sliding of centrosome-unattached microtubules defines key features of neuronal phenotype. <i>Journal of Cell Biology</i> , 2016, 213, 329-341.	5.2	23
29	Stability properties of neuronal microtubules. <i>Cytoskeleton</i> , 2016, 73, 442-460.	2.0	237
30	Depletion of kinesin-12, a myosin-1B interacting protein, promotes migration of cortical astrocytes. <i>Journal of Cell Science</i> , 2016, 129, 2438-47.	2.0	19
31	Ablation of the 14-3-3 γ Protein Results in Neuronal Migration Delay and Morphological Defects in the Developing Cerebral Cortex. <i>Developmental Neurobiology</i> , 2016, 76, 600-614.	3.0	27
32	International Meeting Molecular Neurodegeneration: News and Views in Molecular Neuroscience in Health and Disease. Delmenhorst, Germany, July 20-22, 2015. <i>Journal of Molecular Neuroscience</i> , 2015, 57, 153-159.	2.3	1
33	Emerging Microtubule Targets in Glioma Therapy. <i>Seminars in Pediatric Neurology</i> , 2015, 22, 49-72.	2.0	36
34	Histone acetylation inhibitors promote axon growth in adult dorsal root ganglia neurons. <i>Journal of Neuroscience Research</i> , 2015, 93, 1215-1228.	2.9	13
35	Effects of kinesin-5 inhibition on dendritic architecture and microtubule organization. <i>Molecular Biology of the Cell</i> , 2015, 26, 66-77.	2.1	58
36	Pharmacologically inhibiting kinesin-5 activity with monastrol promotes axonal regeneration following spinal cord injury. <i>Experimental Neurology</i> , 2015, 263, 172-176.	4.1	19

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37	Hereditary spastic paraplegia SPG4: what is known and not known about the disease. <i>Brain</i> , 2015, 138, 2471-2484.	7.6	122
38	<scp>TPX</scp>2 regulates neuronal morphology through kinesinâ€5 interaction. <i>Cytoskeleton</i> , 2015, 72, 340-348.	2.0	17
39	Vertebrate Fidgetin Restrains Axonal Growth by Severing Labile Domains of Microtubules. <i>Cell Reports</i> , 2015, 12, 1723-1730.	6.4	49
40	Inhibition of kinesin-5 improves regeneration of injured axons by a novel microtubule-based mechanism. <i>Neural Regeneration Research</i> , 2015, 10, 845.	3.0	14
41	The crystal structure and biochemical characterization of Kif15: a bifunctional molecular motor involved in bipolar spindle formation and neuronal development. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 123-133.	2.5	25
42	O2-06-06: INHIBITION OF FIDGETIN, A MICROTUBULE SEVERING PROTEIN, PREVENTS MICROTUBULE LOSS IN AN EXPERIMENTAL MODEL OF ALZHEIMER'S DISEASE. , 2014, 10, P176-P177.		0
43	Beyond taxol: microtubule-based strategies for promoting nerve regeneration after injury. <i>Neural Regeneration Research</i> , 2014, 9, 1265.	3.0	9
44	Microtubule Stability in the Axon: New Answers to an Old Mystery. <i>Neuron</i> , 2013, 78, 3-5.	8.1	16
45	Beyond taxol: microtubule-based treatment of disease and injury of the nervous system. <i>Brain</i> , 2013, 136, 2937-2951.	7.6	102
46	Mitotic Motors Coregulate Microtubule Patterns in Axons and Dendrites. <i>Journal of Neuroscience</i> , 2012, 32, 14033-14049.	3.6	91
47	Microtubule Redistribution in Growth Cones Elicited by Focal Inactivation of Kinesin-5. <i>Journal of Neuroscience</i> , 2012, 32, 5783-5794.	3.6	41
48	Creative destruction of the microtubule array. <i>Cell Cycle</i> , 2012, 11, 2420-2421.	2.6	2
49	A novel role for retrograde transport of microtubules in the axon. <i>Cytoskeleton</i> , 2012, 69, 416-425.	2.0	33
50	Inhibition of Kinesinâ€5, a Microtubuleâ€Based Motor Protein, As a Strategy for Enhancing Regeneration of Adult Axons. <i>Traffic</i> , 2011, 12, 269-286.	2.7	51
51	Cell Migration: Katanin Gives Microtubules a Trim. <i>Current Biology</i> , 2011, 21, R302-R304.	3.9	7
52	Hooks and comets: The story of microtubule polarity orientation in the neuron. <i>Developmental Neurobiology</i> , 2011, 71, 403-418.	3.0	183
53	Kinesin-5, a mitotic microtubule-associated motor protein, modulates neuronal migration. <i>Molecular Biology of the Cell</i> , 2011, 22, 1561-1574.	2.1	93
54	Kinesin-12, a Mitotic Microtubule-Associated Motor Protein, Impacts Axonal Growth, Navigation, and Branching. <i>Journal of Neuroscience</i> , 2010, 30, 14896-14906.	3.6	109

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55	Basic Fibroblast Growth Factor Elicits Formation of Interstitial Axonal Branches via Enhanced Severing of Microtubules. <i>Molecular Biology of the Cell</i> , 2010, 21, 334-344.	2.1	78
56	Kinesin-5 Is Essential for Growth-Cone Turning. <i>Current Biology</i> , 2008, 18, 1972-1977.	3.9	99
57	Kinesin-5 regulates the growth of the axon by acting as a brake on its microtubule array. <i>Journal of Cell Biology</i> , 2007, 178, 1081-1091.	5.2	148
58	Axonal Transport of Microtubules: the Long and Short of It. <i>Traffic</i> , 2006, 7, 490-498.	2.7	123
59	Effects of Dynactin Disruption and Dynein Depletion on Axonal Microtubules. <i>Traffic</i> , 2006, 7, 524-537.	2.7	75
60	Tau Protects Microtubules in the Axon from Severing by Katanin. <i>Journal of Neuroscience</i> , 2006, 26, 3120-3129.	3.6	199
61	Neuronal microtubules: when the MAP is the roadblock. <i>Trends in Cell Biology</i> , 2005, 15, 183-187.	7.9	117
62	Microtubules cut and run. <i>Trends in Cell Biology</i> , 2005, 15, 518-524.	7.9	142
63	Role of cytoplasmic dynein in the axonal transport of microtubules and neurofilaments. <i>Journal of Cell Biology</i> , 2005, 168, 697-703.	5.2	212
64	Role of Actin Filaments in the Axonal Transport of Microtubules. <i>Journal of Neuroscience</i> , 2004, 24, 11291-11301.	3.6	78
65	Slow axonal transport and the genesis of neuronal morphology. <i>Journal of Neurobiology</i> , 2004, 58, 3-17.	3.6	90
66	Microtubule Transport in the Axon. <i>International Review of Cytology</i> , 2002, 212, 41-62.	6.2	49
67	Depletion of a Microtubule-Associated Motor Protein Induces the Loss of Dendritic Identity. <i>Journal of Neuroscience</i> , 2000, 20, 5782-5791.	3.6	110
68	Reorganization and Movement of Microtubules in Axonal Growth Cones and Developing Interstitial Branches. <i>Journal of Neuroscience</i> , 1999, 19, 8894-8908.	3.6	234
69	Microtubules and Neuronal Polarity. <i>Neuron</i> , 1999, 22, 23-31.	8.1	187
70	Cytoplasmic Dynein and Dynactin Are Required for the Transport of Microtubules into the Axon. <i>Journal of Cell Biology</i> , 1998, 140, 391-401.	5.2	204
71	Expression of the Mitotic Motor Protein Eg5 in Postmitotic Neurons: Implications for Neuronal Development. <i>Journal of Neuroscience</i> , 1998, 18, 7822-7835.	3.6	89
72	Identification of a Microtubule-associated Motor Protein Essential for Dendritic Differentiation. <i>Journal of Cell Biology</i> , 1997, 138, 833-843.	5.2	123

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73	Inhibition of a Mitotic Motor Compromises the Formation of Dendrite-like Processes from Neuroblastoma Cells. <i>Journal of Cell Biology</i> , 1997, 136, 659-668.	5.2	57