Thomas A Blanpied

List of Publications by Year
in descending order

48	4,962	159358 30	205818 48
papers	citations	h-index	g-index

53	53	53	5349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subsynaptic positioning of AMPARs by LRRTM2 controls synaptic strength. Science Advances, 2021, 7, .	4.7	43
2	Quantification of trans-synaptic protein alignment: A data analysis case for single-molecule localization microscopy. Methods, 2020, 174, 72-80.	1.9	19
3	Synapse and Active Zone Assembly in the Absence of Presynaptic Ca2+ Channels and Ca2+ Entry. Neuron, 2020, 107, 667-683.e9.	3.8	64
4	Shank Proteins Couple the Endocytic Zone to the Postsynaptic Density to Control Trafficking and Signaling of Metabotropic Glutamate Receptor 5. Cell Reports, 2019, 29, 258-269.e8.	2.9	18
5	Bi-allelic Variants in METTL5 Cause Autosomal-Recessive Intellectual Disability and Microcephaly. American Journal of Human Genetics, 2019, 105, 869-878.	2.6	58
6	Properties of Individual Hippocampal Synapses Influencing NMDA-Receptor Activation by Spontaneous Neurotransmission. ENeuro, 2019, 6, ENEURO.0419-18.2019.	0.9	13
7	Rat Model of Brain Injury to Occupants of Vehicles Targeted by Land Mines: Mitigation by Elastomeric Frame Designs. Journal of Neurotrauma, 2018, 35, 1192-1203.	1.7	9
8	Mapping the Proteome of the Synaptic Cleft through Proximity Labeling Reveals New Cleft Proteins. Proteomes, 2018, 6, 48.	1.7	62
9	Long-Term Potentiation Requires a Rapid Burst of Dendritic Mitochondrial Fission during Induction. Neuron, 2018, 100, 860-875.e7.	3.8	97
10	Subsynaptic spatial organization as a regulator of synaptic strength and plasticity. Current Opinion in Neurobiology, 2018, 51, 147-153.	2.0	67
11	Transcellular Nanoalignment of Synaptic Function. Neuron, 2017, 96, 680-696.	3.8	258
12	Patterns of conserved gp120 epitope presentation on attached HIV-1 virions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9893-E9902.	3.3	12
13	Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by Simultaneous Single-Molecule Tracking and Localization Microscopy. Frontiers in Synaptic Neuroscience, 2016, 8, 19.	1.3	24
14	Protein Crowding within the Postsynaptic Density Can Impede the Escape of Membrane Proteins. Journal of Neuroscience, 2016, 36, 4276-4295.	1.7	52
15	A trans-synaptic nanocolumn aligns neurotransmitter release to receptors. Nature, 2016, 536, 210-214.	13.7	511
16	Shankâ€“cortactin interactions control actin dynamics to maintain flexibility of neuronal spines and synapses. European Journal of Neuroscience, 2016, 43, 179-193.	1.2	51
17	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. Neuron, 2015, 88, 1165-1172.	3.8	102
18	Myristoylated Alanineâ€Rich Protein Kinase Substrate (MARCKS) Regulates Small GTPase Rac1 and Cdc42 Activity and Is a Critical Mediator of Vascular Smooth Muscle Cell Migration in Intimal Hyperplasia Formation. Journal of the American Heart Association, 2015, 4, e002255.	1.6	31

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19	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. Neuron, 2015, 87, 813-826.	3.8	115
20	Multiple Spatial and Kinetic Subpopulations of CaMKII in Spines and Dendrites as Resolved by Single-Molecule Tracking PALM. Journal of Neuroscience, 2014, 34, 7600-7610.	1.7	70
21	Specific Sorting and Post-Golgi Trafficking of Dendritic Potassium Channels in Living Neurons. Journal of Biological Chemistry, 2014, 289, 10566-10581.	1.6	36
22	Transport along the dendritic endoplasmic reticulum defines the trafficking modality for GABAB receptors. Journal of Cell Science, 2014, 127, 3382-95.	1.2	28
23	Live-Cell PALM of Intracellular Proteins in Neurons. Neuromethods, 2014, , 93-123.	0.2	2
24	Nanoscale Scaffolding Domains within the Postsynaptic Density Concentrate Synaptic AMPA Receptors. Neuron, 2013, 78, 615-622.	3.8	363
25	Singleâ€Molecule Tracking Photoactivated Localization Microscopy to Map Nanoâ€Scale Structure and Dynamics in Living Spines. Current Protocols in Neuroscience, 2013, 65, 2.20.1-2.20.19.	2.6	6
26	Outer Membrane Targeting, Ultrastructure, and Single Molecule Localization of the Enteropathogenic Escherichia coli Type IV Pilus Secretin BfpB. Journal of Bacteriology, 2012, 194, 1646-1658.	1.0	25
27	Subsynaptic AMPA Receptor Distribution Is Acutely Regulated by Actin-Driven Reorganization of the Postsynaptic Density. Journal of Neuroscience, 2012, 32, 658-673.	1.7	82
28	Optimization of Cell Morphology Measurement via Single-Molecule Tracking PALM. PLoS ONE, 2012, 7, e36751.	1.1	21
29	Lateral organization of the postsynaptic density. Molecular and Cellular Neurosciences, 2011, 48, 321-331.	1.0	56
30	Membrane trafficking and cytoskeletal dynamics in neuronal function. Molecular and Cellular Neurosciences, 2011, 48, 267-268.	1.0	2
31	Dynamics of PTH-induced disassembly of Npt2a/NHERF-1 complexes in living OK cells. American Journal of Physiology - Renal Physiology, 2011, 300, F231-F235.	1.3	23
32	A network of networks: cytoskeletal control of compartmentalized function within dendritic spines. Current Opinion in Neurobiology, 2010, 20, 578-587.	2.0	59
33	Cortactin is implicated in murine zygotic development. Experimental Cell Research, 2010, 316, 848-858.	1.2	21
34	Single-Molecule Discrimination of Discrete Perisynaptic and Distributed Sites of Actin Filament Assembly within Dendritic Spines. Neuron, 2010, 67, 86-99.	3.8	248
35	PTH transiently increases the percent mobile fraction of Npt2a in OK cells as determined by FRAP. American Journal of Physiology - Renal Physiology, 2009, 297, F1560-F1565.	1.3	24
36	Structural plasticity with preserved topology in the postsynaptic protein network. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12587-12592.	3.3	113

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37	Postsynaptic Positioning of Endocytic Zones and AMPA Receptor Cycling by Physical Coupling of Dynamin-3 to Homer. Neuron, 2007, 55, 874-889.	3.8	235
38	Neurabin/Protein Phosphatase-1 Complex Regulates Dendritic Spine Morphogenesis and Maturation. Molecular Biology of the Cell, 2005, 16, 2349-2362.	0.9	83
39	Amantadine Inhibits NMDA Receptors by Accelerating Channel Closure during Channel Block. Journal of Neuroscience, 2005, 25, 3312-3322.	1.7	205
40	Lateral organization of endocytic machinery in dendritic spines. Nature Neuroscience, 2004, 7, 917-918.	7.1	188
41	Microanatomy of dendritic spines: emerging principles of synaptic pathology in psychiatric and neurological disease. Biological Psychiatry, 2004, 55, 1121-1127.	0.7	171
42	Age-related regulation of dendritic endocytosis associated with altered clathrin dynamics. Neurobiology of Aging, 2003, 24, 1095-1104.	1.5	47
43	Coordinated PKA and PKC phosphorylation suppresses RXR-mediated ER retention and regulates the surface delivery of NMDA receptors. Neuropharmacology, 2003, 45, 755-767.	2.0	169
44	Dynamics and Regulation of Clathrin Coats at Specialized Endocytic Zones of Dendrites and Spines. Neuron, 2002, 36, 435-449.	3.8	315
45	An NMDA Receptor ER Retention Signal Regulated by Phosphorylation and Alternative Splicing. Journal of Neuroscience, 2001, 21, 3063-3072.	1.7	389
46	Protein kinase A takes center stage in ATP-dependent insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 329-331.	3.3	8
47	A versatile microporation technique for the transfection of cultured CNS neurons. Journal of Neuroscience Methods, 1999, 93, 37-48.	1.3	128
48	Trapping Channel Block of NMDA-Activated Responses By Amantadine and Memantine. Journal of Neurophysiology, 1997, 77, 309-323.	0.9	217