Edwin S Levitan

List of Publications by Year
in descending order

58 papers	2,363 citations	218677 26 h-index	223800 46 g-index
59 all docs	59 docs citations	59 times ranked	2456 citing authors

#	Article	IF	Citations
1	Neuronal Peptide Release Is Limited by Secretory Granule Mobility. Neuron, 1997, 19, 1095-1102.	8.1	153
2	Neuropeptide Delivery to Synapses by Long-Range Vesicle Circulation and Sporadic Capture. Cell, 2012, 148, 1029-1038.	28.9	137
3	Ca_v1.3 Channel Voltage Dependence, Not Ca²⁺Selectivity, Drives Pacemaker Activity and Amplifies Bursts in Nigral Dopamine Neurons. Journal of Neuroscience, 2009, 29, 15414-15419.	3.6	129
4	The p150Glued CAP-Gly Domain Regulates Initiation of Retrograde Transport at Synaptic Termini. Neuron, 2012, 74, 344-360.	8.1	126
5	Visualization of neuropeptide expression, transport, and exocytosis inDrosophila melanogaster. Journal of Neurobiology, 2001, 49, 159-172.	3.6	118
6	Streamlined Synaptic Vesicle Cycle in Cone Photoreceptor Terminals. Neuron, 2004, 41, 755-766.	8.1	114
7	Activity-dependent liberation of synaptic neuropeptide vesicles. Nature Neuroscience, 2005, 8, 173-178.	14.8	103
8	Decreased Expression of Kv4.2 and Novel Kv4.3 K ⁺ Channel Subunit mRNAs in Ventricles of Renovascular Hypertensive Rats. Circulation Research, 1997, 81, 533-539.	4.5	93
9	Activity-dependent synaptic capture of transiting peptidergic vesicles. Nature Neuroscience, 2006, 9, 896-900.	14.8	88
10	Presynaptic Ryanodine Receptor-Activated Calmodulin Kinase II Increases Vesicle Mobility and Potentiates Neuropeptide Release. Journal of Neuroscience, 2007, 27, 7799-7806.	3.6	81
11	Distinct Structural Requirements for Clustering and Immobilization of K+ Channels by PSD-95. Journal of General Physiology, 1999, 113, 71-80.	1.9	65
12	Metallothionein, Nitric Oxide and Zinc Homeostasis in Vascular Endothelial Cells. Journal of Nutrition, 2000, 130, 1467S-1470S.	2.9	61
13	Spastin, atlastin, and ER relocalization are involved in axon but not dendrite regeneration. Molecular Biology of the Cell, 2016, 27, 3245-3256.	2.1	56
14	Dynamic regulation of K+ channel gene expression in differentiated cells. , 1998, 37, 60-68.		55
15	Pacemaker Rate and Depolarization Block in Nigral Dopamine Neurons: A Somatic Sodium Channel Balancing Act. Journal of Neuroscience, 2012, 32, 14519-14531.	3.6	47
16	Acid Prohormone Sequence Determines Size, Shape, and Docking of Secretory Vesicles in Atrial Myocytes. Circulation Research, 2001, 89, E23-9.	4.5	46
17	In vivo imaging of vesicle motion and release at the Drosophila neuromuscular junction. Nature Protocols, 2007, 2, 1117-1125.	12.0	46
18	PDF Cycling in the Dorsal Protocerebrum of the Drosophila Brain Is Not Necessary for Circadian Clock Function. Journal of Biological Rhythms, 2006, 21, 104-117.	2.6	45

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19	Free intracellular Mg 2+ concentration and inhibition of NMDA responses in cultured rat neurons. Journal of Physiology, 2001, 533, 729-743.	2.9	39
20	Ether-a-go-go Related Gene Potassium Channels: What's All the Buzz About?. Schizophrenia Bulletin, 2006, 33, 1263-1269.	4.3	39
21	Functional characterization of etherâ€Ââ€goâ€goâ€related gene potassium channels in midbrain dopamine neurons â€“ implications for a role in depolarization block. European Journal of Neuroscience, 2012, 36, 2906-2916.	2.6	38
22	Crimpy Enables Discrimination of Presynaptic and Postsynaptic Pools of a BMP at the Drosophila Neuromuscular Junction. Developmental Cell, 2014, 31, 586-598.	7.0	37
23	Synaptic neuropeptide release by dynamin-dependent partial release from circulating vesicles. Molecular Biology of the Cell, 2015, 26, 2466-2474.	2.1	37
24	Physical mobilization of secretory vesicles facilitates neuropeptide release by nerve growth factorâ€differentiated PC12 Cells. Journal of Physiology, 2002, 542, 395-402.	2.9	35
25	Signaling for Vesicle Mobilization and Synaptic Plasticity. Molecular Neurobiology, 2008, 37, 39-43.	4.0	33
26	Differential Control of Presynaptic CaMKII Activation and Translocation to Active Zones. Journal of Neuroscience, 2011, 31, 9093-9100.	3.6	32
27	Presynaptic Ryanodine Receptorâ€“CamKII Signaling is Required for Activity-dependent Capture of Transiting Vesicles. Journal of Molecular Neuroscience, 2009, 37, 146-150.	2.3	31
28	Synaptic neuropeptide release induced by octopamine without Ca ²⁺ entry into the nerve terminal. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4477-4481.	7.1	29
29	Vesicle capture, not delivery, scales up neuropeptide storage in neuroendocrine terminals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3597-3601.	7.1	28
30	Drosophila Syd-1, Liprin-Â, and Protein Phosphatase 2A B' Subunit Wrd Function in a Linear Pathway to Prevent Ectopic Accumulation of Synaptic Materials in Distal Axons. Journal of Neuroscience, 2014, 34, 8474-8487.	3.6	26
31	Calcium/Calmodulinâ€“Dependent Protein Kinase II in Cerebrovascular Diseases. Translational Stroke Research, 2021, 12, 513-529.	4.2	26
32	Effects of caffeine on intracellular calcium, calcium current and calcium-dependent potassium current in anterior pituitary GH3 cells. Pflugers Archiv European Journal of Physiology, 1994, 426, 12-20.	2.8	24
33	Mathematical analysis of depolarization block mediated by slow inactivation of fast sodium channels in midbrain dopamine neurons. Journal of Neurophysiology, 2014, 112, 2779-2790.	1.8	24
34	Structural and Genetic Studies Demonstrate Neurologic Dysfunction in Triosephosphate Isomerase Deficiency Is Associated with Impaired Synaptic Vesicle Dynamics. PLoS Genetics, 2016, 12, e1005941.	3.5	23
35	Activity Induces Fmr1-Sensitive Synaptic Capture of Anterograde Circulating Neuropeptide Vesicles. Journal of Neuroscience, 2016, 36, 11781-11787.	3.6	23
36	Cell-cell contact between adult rat cardiac myocytes regulates Kv1.5 and Kv4.2 K⁺channel mRNA expression. American Journal of Physiology - Cell Physiology, 1998, 275, C1473-C1480.	4.6	22

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37	Unexpected Mobility Variation among Individual Secretory Vesicles Produces an Apparent Refractory Neuropeptide Pool. Biophysical Journal, 2003, 84, 4127-4134.	0.5	21
38	Nearly Neutral Secretory Vesicles in Drosophila Nerve Terminals. Biophysical Journal, 2006, 90, L45-L47.	0.5	20
39	Prolonged presynaptic posttetanic cyclic GMP signaling in Drosophila motoneurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13610-13613.	7.1	19
40	Nerve Growth Factor-Induced Differentiation Changes the Cellular Organization of Regulated Peptide Release by PC12 Cells. Journal of Neuroscience, 2002, 22, 3890-3897.	3.6	18
41	Action potentials and amphetamine release antipsychotic drug from dopamine neuron synaptic VMAT vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4485-94.	7.1	18
42	RPTPÎ¼ and protein tyrosine phosphorylation regulate K+channel mRNA expression in adult cardiac myocytes. American Journal of Physiology - Cell Physiology, 2000, 278, C397-C403.	4.6	17
43	Mycalolide B dissociates dynactin and abolishes retrograde axonal transport of dense-core vesicles. Molecular Biology of the Cell, 2015, 26, 2664-2672.	2.1	16
44	Temporally and spatially partitioned neuropeptide release from individual clock neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
45	Activity-evoked and spontaneous opening of synaptic fusion pores. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17039-17044.	7.1	14
46	Myopic (HD-PTP, PTPN23) selectively regulates synaptic neuropeptide release. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1617-1622.	7.1	13
47	Implications of Cellular Models of Dopamine Neurons for Schizophrenia. Progress in Molecular Biology and Translational Science, 2014, 123, 53-82.	1.7	12
48	Using GFP to image peptide hormone and neuropeptide release in vitro and in vivo. Methods, 2004, 33, 281-286.	3.8	9
49	Elevated mitochondria-coupled NAD(P)H in endoplasmic reticulum of dopamine neurons. Molecular Biology of the Cell, 2016, 27, 3214-3220.	2.1	9
50	Limited distal organelles and synaptic function in extensive monoaminergic innervation. Journal of Cell Science, 2017, 130, 2520-2529.	2.0	9
51	Stac protein regulates release of neuropeptides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29914-29924.	7.1	9
52	Loss of Huntingtin stimulates capture of retrograde dense-core vesicles to increase synaptic neuropeptide stores. European Journal of Cell Biology, 2017, 96, 402-406.	3.6	8
53	Ptp4E regulates vesicular packaging for monoamine-neuropeptide co-transmission. Journal of Cell Science, 2019, 132, .	2.0	7
54	Novel Roles for Peroxynitrite in Angiotensin II and CaMKII Signaling. Scientific Reports, 2016, 6, 23416.	3.3	6

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55	Vesicular Antipsychotic Drug Release Evokes an Extra Phase of Dopamine Transmission. Schizophrenia Bulletin, 2020, 46, 643-649.	4.3	6
56	Regional Variation in Striatal Dopamine Spillover and Release Plasticity. ACS Chemical Neuroscience, 2020, 11, 888-899.	3.5	5
57	Imaging Neuropeptide Release in the Drosophila Neuromuscular Junction (NMJ). Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5529.	0.3	2
58	Imaging the Drosophila Neuromuscular Junction (NMJ): Basic Optical Principles and Equipment. Cold Spring Harbor Protocols, 2010, 2010, pdb.top92.	0.3	1