Stephen D Meriney

List of Publications by Year
in descending order

37 papers	871 citations	516710 16 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	721 citing authors

#	Article	IF	Citations
1	Neuromuscular Active Zone Structure and Function in Healthy and Lambert-Eaton Myasthenic Syndrome States. Biomolecules, 2022, 12, 740.	4.0	4
2	In Search of a Cure: The Development of Therapeutics to Alter the Progression of Spinal Muscular Atrophy. Brain Sciences, 2021, 11, 194.	2.3	19
3	A high-affinity, partial antagonist effect of 3,4-diaminopyridine mediates action potential broadening and enhancement of transmitter release at NMJs. Journal of Biological Chemistry, 2021, 296, 100302.	3.4	15
4	The Frog Motor Nerve Terminal Has Very Brief Action Potentials and Three Electrical Regions Predicted to Differentially Control Transmitter Release. Journal of Neuroscience, 2020, 40, 3504-3516.	3.6	10
5	Calcium Homeostasis, Calcium Channels, and Transmitter Release. , 2019, , 121-153.		0
6	New Cav2 calcium channel gating modifiers with agonist activity and therapeutic potential to treat neuromuscular disease. Neuropharmacology, 2018, 131, 176-189.	4.1	11
7	Presynaptic mechanisms controlling calcium-triggered transmitter release at the neuromuscular junction. Current Opinion in Physiology, 2018, 4, 15-24.	1.8	17
8	Impact of spatiotemporal calcium dynamics within presynaptic active zones on synaptic delay at the frog neuromuscular junction. Journal of Neurophysiology, 2018, 119, 688-699.	1.8	10
9	Lambertâ€“Eaton myasthenic syndrome: mouse passiveâ€transfer model illuminates disease pathology and facilitates testing therapeutic leads. Annals of the New York Academy of Sciences, 2018, 1412, 73-81.	3.8	14
10	Reported direct aminopyridine effects on voltage-gated calcium channels is a high-dose pharmacological off-target effect of no clinical relevance. Journal of Biological Chemistry, 2018, 293, 16100.	3.4	4
11	Active zone structureâ€function relationships at the neuromuscular junction. Synapse, 2018, 72, e22057.	1.2	13
12	Transmitter release site organization can predict synaptic function at the neuromuscular junction. Journal of Neurophysiology, 2018, 119, 1340-1355.	1.8	17
13	Single calcium channels stand out in the crowd. Channels, 2016, 10, 71-72.	2.8	2
14	Transmitter release is evoked with low probability predominately by calcium flux through single channel openings at the frog neuromuscular junction. Journal of Neurophysiology, 2015, 113, 2480-2489.	1.8	25
15	New insights into short-term synaptic facilitation at the frog neuromuscular junction. Journal of Neurophysiology, 2015, 113, 71-87.	1.8	16
16	Synaptic Pathophysiology and Treatment of Lambert-Eaton Myasthenic Syndrome. Molecular Neurobiology, 2015, 52, 456-463.	4.0	33
17	Complete reversal of Lambertâ€“Eaton myasthenic syndrome synaptic impairment by the combined use of a K⁺ channel blocker and a Ca²⁺ channel agonist. Journal of Physiology, 2014, 592, 3687-3696.	2.9	24
18	Fast, Ca2+-dependent exocytosis at nerve terminals: Shortcomings of SNARE-based models. Progress in Neurobiology, 2014, 121, 55-90.	5.7	15

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19	Organization and function of transmitter release sites at the neuromuscular junction. Journal of Physiology, 2013, 591, 3159-3165.	2.9	25
20	Are unreliable release mechanisms conserved from NMJ to CNS?. Trends in Neurosciences, 2013, 36, 14-22.	8.6	43
21	Evaluation of a Novel Calcium Channel Agonist for Therapeutic Potential in Lambert-Eaton Myasthenic Syndrome. Journal of Neuroscience, 2013, 33, 10559-10567.	3.6	40
22	An Excess-Calcium-Binding-Site Model Predicts Neurotransmitter Release at the Neuromuscular Junction. Biophysical Journal, 2013, 104, 2751-2763.	0.5	45
23	Distinct roles of neuroligin-1 and SynCAM1 in synapse formation and function in primary hippocampal neuronal cultures. Neuroscience, 2012, 215, 1-16.	2.3	16
24	Synthesis and Biological Evaluation of a Selective N- and P/Q-Type Calcium Channel Agonist. ACS Medicinal Chemistry Letters, 2012, 3, 985-990.	2.8	23
25	mGluRs Modulate Strength and Timing of Excitatory Transmission in Hippocampal Area CA3. Molecular Neurobiology, 2011, 44, 93-101.	4.0	25
26	High affinity group III mGluRs regulate mossy fiber input to CA3 interneurons. Hippocampus, 2011, 21, 1302-1317.	1.9	11
27	Single-Pixel Optical Fluctuation Analysis of Calcium Channel Function in Active Zones of Motor Nerve Terminals. Journal of Neuroscience, 2011, 31, 11268-11281.	3.6	45
28	Area CA3 interneurons receive two spatially segregated mossy fiber inputs. Hippocampus, 2010, 20, 1003-1009.	1.9	10
29	A Nitric Oxide/Cyclic GMP-Dependent Protein Kinase Pathway Alters Transmitter Release and Inhibition by Somatostatin at a Site Downstream of Calcium Entry. Journal of Neurochemistry, 2008, 72, 1981-1990.	3.9	16
30	The effects of presynaptic calcium channel modulation by roscovitine on transmitter release at the adult frog neuromuscular junction. European Journal of Neuroscience, 2006, 23, 3200-3208.	2.6	30
31	Spatial Distribution of Calcium Entry Evoked by Single Action Potentials within the Presynaptic Active Zone. Journal of Neuroscience, 2004, 24, 2877-2885.	3.6	64
32	G-Protein-Modulated Ca²⁺ Current With Slowed Activation Does Not Alter the Kinetics of Action Potential-Evoked Ca²⁺ Current. Journal of Neurophysiology, 2000, 84, 2417-2425.	1.8	9
33	Variations in onset of action potential broadening: effects on calcium current studied in chick ciliary ganglion neurones. Journal of Physiology, 1999, 514, 719-728.	2.9	26
34	Direct Measurements of Presynaptic Calcium and Calcium-Activated Potassium Currents Regulating Neurotransmitter Release at Cultured<i>Xenopus</i>Nerveâ€“Muscle Synapses. Journal of Neuroscience, 1997, 17, 2990-3001.	3.6	107
35	Lambert-eaton myasthenic syndrome immunoglobulins react with multiple types of calcium channels in small-cell lung carcinoma. Annals of Neurology, 1996, 40, 739-749.	5.3	69
36	Low calcium-induced disruption of active zone structure and function at the frog neuromuscular junction. , 1996, 24, 1-11.		16

#	Article	IF	Citations
37	Microphysiological Modeling of the Structure and Function of Neuromuscular Transmitter Release Sites. Frontiers in Synaptic Neuroscience, 0, 14, .	2.5	2