Bryan A Stewart

List of Publications by Year
in descending order

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67 papers	2,781 citations	279701 23 h-index	189801 50 g-index
71 all docs	71 docs citations	71 times ranked	2538 citing authors

#	Article	IF	Citations
1	Improved stability of Drosophila larval neuromuscular preparations in haemolymph-like physiological solutions. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1994, 175, 179-191.	0.7	741
2	Distinct Requirements for Evoked and Spontaneous Release of Neurotransmitter Are Revealed by Mutations in theDrosophilaGeneneuronal-synaptobrevin. Journal of Neuroscience, 1998, 18, 2028-2039.	1.7	216
3	Differential physiology and morphology of motor axons to ventral longitudinal muscles in larvalDrosophila. Journal of Comparative Neurology, 1994, 350, 463-472.	0.9	174
4	A 3D culture model of innervated human skeletal muscle enables studies of the adult neuromuscular junction. ELife, 2019, 8, .	2.8	169
5	Homeostasis of Synaptic Transmission inDrosophilawith Genetically Altered Nerve Terminal Morphology. Journal of Neuroscience, 1996, 16, 3877-3886.	1.7	153
6	Quantal measurement and analysis methods compared for crayfish and Drosophila neuromuscular junctions, and rat hippocampus. Journal of Neuroscience Methods, 1995, 61, 67-78.	1.3	92
7	Members of the synaptobrevin/vesicle-associated membrane protein (VAMP) family in Drosophila are functionally interchangeable in vivo for neurotransmitter release and cell viability. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13867-13872.	3.3	83
8	SNARE proteins contribute to calcium cooperativity of synaptic transmission. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13955-13960.	3.3	81
9	Dystroglycan and ProteinO-Mannosyltransferases 1 and 2 Are Required to Maintain Integrity ofDrosophilaLarval Muscles. Molecular Biology of the Cell, 2007, 18, 4721-4730.	0.9	65
10	Regulated spacing of synapses and presynaptic active zones at larval neuromuscular junctions in different genotypes of the fliesDrosophila andSarcophaga. , 1998, 393, 482-492.		58
11	A DrosophilaSNAP-25Null Mutant Reveals Context-Dependent Redundancy WithSNAP-24in Neurotransmission. Genetics, 2002, 162, 259-271.	1.2	57
12	Two distinct effects on neurotransmission in a temperature-sensitive SNAP-25 mutant. EMBO Journal, 2001, 20, 6761-6771.	3.5	53
13	Influence of semicrystalline order on the second-harmonic generation efficiency in the anisotropic bands of myocytes. Applied Optics, 2007, 46, 1852.	2.1	53
14	Drosophila Amphiphysin is a Post-Synaptic Protein Required for Normal Locomotion but Not Endocytosis. Traffic, 2001, 2, 839-850.	1.3	48
15	Intermyofilament dynamics of myocytes revealed by second harmonic generation microscopy. Journal of Biomedical Optics, 2008, 13, 041318.	1.4	47
16	Regulation of Commissureless by the Ubiquitin Ligase DNedd4 Is Required for Neuromuscular Synaptogenesis in Drosophila melanogaster. Molecular and Cellular Biology, 2007, 27, 481-496.	1.1	34
17	A Genetic Screen for Suppressors of Drosophila NSF2 Neuromuscular Junction Overgrowth. Genetics, 2005, 170, 779-792.	1.2	32
18	Synaptic Vesicle Mobility and Presynaptic F-Actin Are Disrupted in a N-ethylmaleimideâ€“sensitive Factor Allele of Drosophila. Molecular Biology of the Cell, 2006, 17, 4709-4719.	0.9	32

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19	Nonmuscle Myosin II helps regulate synaptic vesicle mobility at the Drosophila neuromuscular junction. BMC Neuroscience, 2010, 11, 37.	0.8	32
20	Analysis of the mutant Drosophila N-ethylmaleimide sensitive fusion-1 protein in comatose reveals molecular correlates of the behavioural paralysis. Journal of Neurochemistry, 2001, 77, 1407-1417.	2.1	31
21	Second harmonic generation double stokes Mueller polarimetric microscopy of myofilaments. Biomedical Optics Express, 2016, 7, 559.	1.5	31
22	Electrophysiological Recording from Drosophila Larval Body-Wall Muscles. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5487.	0.2	30
23	Dominant-negative NSF2 disrupts the structure and function ofdrosophila neuromuscular synapses. Journal of Neurobiology, 2002, 51, 261-271.	3.7	29
24	SNARE-Dependent Signaling at the Drosophila Wing Margin. Developmental Biology, 2001, 234, 13-23.	0.9	27
25	Functional Roles for Î²1,4-N-Acetlygalactosaminyltransferase-A in Drosophila Larval Neurons and Muscles. Genetics, 2007, 175, 671-679.	1.2	26
26	De novo revertant fiber formation and therapy testing in a 3D culture model of Duchenne muscular dystrophy skeletal muscle. Acta Biomaterialia, 2021, 132, 227-244.	4.1	26
27	Population density regulatesDrosophila synaptic morphology in a Fasciclin-II-dependent manner. Journal of Neurobiology, 2004, 61, 392-399.	3.7	21
28	Synaptic transmission and plasticity are modulated by nonmuscle myosin II at the neuromuscular junction ofDrosophila. Journal of Neurophysiology, 2011, 105, 1966-1976.	0.9	21
29	The Advanced Interdisciplinary Research Laboratory: A Student Team Approach to the Fourth-Year Research Thesis Project Experience. Journal of Chemical Education, 2014, 91, 655-661.	1.1	21
30	Live imaging of contracting muscles with wide-field second harmonic generation microscopy using a high power laser. Biomedical Optics Express, 2019, 10, 5130.	1.5	21
31	Myosin VI contributes to synaptic transmission and development at the Drosophila neuromuscular junction. BMC Neuroscience, 2011, 12, 65.	0.8	19
32	Second harmonic generation polarization properties of myofilaments. Journal of Biomedical Optics, 2014, 19, 056005.	1.4	18
33	Carotenoid based bio-compatible labels for third harmonic generation microscopy. Physical Chemistry Chemical Physics, 2012, 14, 10653.	1.3	17
34	Phospho-regulated Drosophila adducin is a determinant of synaptic plasticity in a complex with Dlg and PIP2 at the larval neuromuscular junction. Biology Open, 2014, 3, 1196-1206.	0.6	17
35	Disruption of synaptic development and ultrastructure byDrosophila NSF2 alleles. Journal of Comparative Neurology, 2005, 488, 101-111.	0.9	15
36	Dualâ€•and singleâ€shot susceptibility ratio measurements with circular polarizations in secondâ€harmonic generation microscopy. Journal of Biophotonics, 2020, 13, e201960167.	1.1	15

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37	The influence of postsynaptic structure on missing quanta at the Drosophila neuromuscular junction. BMC Neuroscience, 2016, 17, 53.	0.8	11
38	Membrane trafficking in Drosophila wing and eye development. Seminars in Cell and Developmental Biology, 2002, 13, 91-97.	2.3	10
39	Drosophila SNAP-29 Is an Essential SNARE That Binds Multiple Proteins Involved in Membrane Traffic. PLoS ONE, 2014, 9, e91471.	1.1	10
40	Jack bean urease modulates neurotransmitter release at insect neuromuscular junctions. Pesticide Biochemistry and Physiology, 2018, 146, 63-70.	1.6	10
41	Localization and Mobility of Synaptic Vesicles in Myosin VI Mutants of Drosophila. PLoS ONE, 2014, 9, e102988.	1.1	10
42	Moesin helps to restrain synaptic growth at the Drosophila neuromuscular junction. Developmental Neurobiology, 2008, 68, 379-391.	1.5	9
43	Effect of juxtamembrane tryptophans on the immersion depth of Synaptobrevin, an integral vesicle membrane protein. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2994-2999.	1.4	9
44	Local regulation of extracellular vesicle traffic by the synaptic endocytic machinery. Journal of Cell Biology, 2022, 221, .	2.3	9
45	Synaptic plasticity in a regenerated crayfish phasic motoneuron. Journal of Neurobiology, 1992, 23, 881-889.	3.7	8
46	Interaction of cytoskeleton genes with NSF2-induced neuromuscular junction overgrowth. Genesis, 2006, 44, 595-600.	0.8	8
47	Postsynaptic Syntaxin 4 negatively regulates the efficiency of neurotransmitter release. Journal of Neurogenetics, 2018, 32, 221-229.	0.6	8
48	Analysis ofDrosophilanervous system development following an early, brief exposure to ethanol. Developmental Neurobiology, 2019, 79, 780-793.	1.5	8
49	The neuronal ceroid lipofuscinosis protein Cln7 functions in the postsynaptic cell to regulate synapse development. Scientific Reports, 2019, 9, 15592.	1.6	8
50	Equipment Setup for Drosophila Electrophysiology. Cold Spring Harbor Protocols, 2010, 2010, pdb.ip80-pdb.ip80.	0.2	7
51	Investigation of the juxtamembrane region of neuronal-Synaptobrevin in synaptic transmission at theDrosophilaneuromuscular junction. Journal of Neurophysiology, 2014, 112, 1356-1366.	0.9	6
52	Regulation of SH3PX1 by dNedd4-long at the Drosophila neuromuscular junction. Journal of Biological Chemistry, 2019, 294, 1739-1752.	1.6	6
53	Examination of Drosophila eye development with third harmonic generation microscopy. Biomedical Optics Express, 2017, 8, 4504.	1.5	5
54	Electrophysiological analysis of healthy and dystrophic 3-D bioengineered skeletal muscle tissues. American Journal of Physiology - Cell Physiology, 2021, 321, C749-C759.	2.1	5

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55	Dynamic investigation of Drosophila myocytes with second harmonic generation microscopy. , 2006, , .		5
56	Fabrication of Microelectrodes, Suction Electrodes, and Focal Electrodes. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5490-pdb.prot5490.	0.2	4
57	Electrophysiological Recording from a 'Model' Cell. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5486-pdb.prot5486.	0.2	4
58	Voltage-Clamp Analysis of Synaptic Transmission at the Drosophila Larval Neuromuscular Junction. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5488-pdb.prot5488.	0.2	3
59	Second Harmonic Generation Properties in Chiral Sarcomeres of Drosophila Larval Muscles. Frontiers in Physics, 2022, 10, .	1.0	3
60	Disruption of Drosophila larval muscle structure and function by UNC45 knockdown. BMC Molecular and Cell Biology, 2021, 22, 38.	1.0	2
61	A diode-pumped high power extended cavity femtosecond Yb:KGW laser: from development to applications in nonlinear microscopy. , 2006, , .		1
62	Analysis of the mutant Drosophila N-ethylmaleimide sensitive fusion-1 protein in comatose reveals molecular correlates of the behavioural paralysis. Journal of Neurochemistry, 2001, 78, 207-208.	2.1	0
63	Introduction: membrane trafficking, secretion and development. Seminars in Cell and Developmental Biology, 2002, 13, 69-70.	2.3	0
64	Focal Recording of Synaptic Currents from Single Boutons at the Drosophila Neuromuscular Junction. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5489-pdb.prot5489.	0.2	0
65	Early consolidation of development and physiology of an identified presynaptic nerve terminal. BMC Neuroscience, 2013, 14, 124.	0.8	0
66	Imaging SNAP-29 in Drosophila. Methods in Molecular Biology, 2019, 1860, 391-401.	0.4	0
67	SHG Polarization Microscopy of Structural Differences in Mutated Myofilaments of Fruit Fly Muscles. , 2014, , .		0