Karen A Mesce

List of Publications by Year
in descending order

37 papers	1,141 citations	430874 18 h-index	414414 32 g-index
39 all docs	39 docs citations	39 times ranked	865 citing authors

#	Article	IF	Citations
1	Hygienic behavior in the honey bee (Apis mellifera L.) and the modulatory role of octopamine. Journal of Neurobiology, 2003, 55, 341-354.	3.6	135
2	Odorants that Induce Hygienic Behavior in Honeybees: Identification of Volatile Compounds in Chalkbrood-Infected Honeybee Larvae. Journal of Chemical Ecology, 2009, 35, 1108-1116.	1.8	117
3	Evidence for Sequential Decision Making in the Medicinal Leech. Journal of Neuroscience, 2002, 22, 11045-11054.	3.6	98
4	Dopamine Activates the Motor Pattern for Crawling in the Medicinal Leech. Journal of Neuroscience, 2008, 28, 4192-4200.	3.6	69
5	Integration of Endocrine Signals That Regulate Insect Ecdysis. Frontiers in Neuroendocrinology, 2002, 23, 179-199.	5.2	63
6	Improvements for the anatomical characterization of insect neurons in whole mount: the use of cyanine-derived fluorophores and laser scanning confocal microscopy. Cell and Tissue Research, 1993, 271, 381-397.	2.9	60
7	Metamodulation of the Biogenic Amines: Second-Order Modulation by Steroid Hormones and Amine Cocktails. Brain, Behavior and Evolution, 2002, 60, 339-349.	1.7	43
8	Programmed cell death of identified peptidergic neurons involved in ecdysis behavior in the moth,Manduca sexta. , 1998, 37, 265-280.		36
9	Metamorphosis of the ecdysis motor pattern in the hawkmoth,Manduca sexta. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1988, 163, 287-299.	1.6	35
10	Beyond the central pattern generator: amine modulation of decision-making neural pathways descending from the brain of the medicinal leech. Journal of Experimental Biology, 2006, 209, 1746-1756.	1.7	35
11	Keeping It Together: Mechanisms of Intersegmental Coordination for a Flexible Locomotor Behavior. Journal of Neuroscience, 2010, 30, 2373-2383.	3.6	34
12	A cephalic projection neuron involved in locomotion is dye coupled to the dopaminergic neural network in the medicinal leech. Journal of Experimental Biology, 2004, 207, 4535-4542.	1.7	32
13	A Tyrosine-Hydroxylase Characterization of Dopaminergic Neurons in the Honey Bee Brain. Frontiers in Systems Neuroscience, 2017, 11, 47.	2.5	31
14	Steroid regulation of octopamine expression during metamorphic development of the mothManduca sexta. Journal of Comparative Neurology, 2000, 424, 283-296.	1.6	30
15	Distribution and developmental expression of octopamine-immunoreactive neurons in the central nervous system of the leech. Journal of Comparative Neurology, 1995, 353, 451-463.	1.6	29
16	Distribution and development of dopamine- and octopamine-synthesizing neurons in the medicinal leech. Journal of Comparative Neurology, 2002, 442, 115-129.	1.6	29
17	Necessary, Sufficient and Permissive: A Single Locomotor Command Neuron Important for Intersegmental Coordination. Journal of Neuroscience, 2012, 32, 17646-17657.	3.6	29
18	Shared strategies for behavioral switching: understanding how locomotor patterns are turned on and off. Frontiers in Behavioral Neuroscience, 2010, 4, .	2.0	22

#	Article	IF	Citations
19	Cellular substrates of action selection: a cluster of higher-order descending neurons shapes body posture and locomotion. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 469-481.	1.6	21
20	A Light Insensitive Method for Contrast Enhancement of Insect Neurons Filled with a Cobalt-Lysine Complex. Biotechnic and Histochemistry, 1993, 68, 222-228.	1.3	20
21	Dopamine-synthesizing neurons include the putative H-cell homologue in the mothManduca sexta. Journal of Comparative Neurology, 2001, 430, 501-517.	1.6	18
22	Reorganization of the ventral nerve cord in the moth Manduca sexta (L.) (Lepidoptera : Sphingidae). Arthropod Structure and Development, 1994, 23, 21-37.	0.4	16
23	Novel mouse IgG-like immunoreactivity expressed by neurons in the mothManduca sexta: Developmental regulation and colocalization with crustacean cardioactive peptide. Microscopy Research and Technique, 1996, 35, 242-264.	2.2	15
24	Morphology, ultrastructure and functional role of antennal sensilla in off-host aggregation by the bed bug, Cimex lectularius. Arthropod Structure and Development, 2014, 43, 117-122.	1.4	15
25	An annotated CNS transcriptome of the medicinal leech, Hirudo verbana: De novo sequencing to characterize genes associated with nervous system activity. PLoS ONE, 2018, 13, e0201206.	2.5	15
26	Focused Ultrasound Neuromodulation and the Confounds of Intracellular Electrophysiological Investigation. ENeuro, 2020, 7, ENEURO.0213-20.2020.	1.9	14
27	Dopamine Signaling in the Bee. , 2012, , 199-209.		13
28	â€œNeuroethoendocrinologyâ€• Integration of field and laboratory studies in insect neuroendocrinology. Hormones and Behavior, 2005, 48, 352-359.	2.1	12
29	Compensatory plasticity restores locomotion after chronic removal of descending projections. Journal of Neurophysiology, 2015, 113, 3610-3622.	1.8	12
30	The Inhibitory Thermal Effects of Focused Ultrasound on an Identified, Single Motoneuron. ENeuro, 2021, 8, ENEURO.0514-20.2021.	1.9	10
31	Functional Recovery of a Locomotor Network after Injury: Plasticity beyond the Central Nervous System. ENeuro, 2018, 5, ENEURO.0195-18.2018.	1.9	10
32	Programmed cell death of an identified motoneuron examinedin vivo: Electrophysiological and morphological correlates. , 1999, 39, 307-322.		9
33	A motoneuron spared from steroid-activated developmental death by removal of descending neural inputs exhibits stable electrophysiological properties and morphology. Journal of Neurobiology, 1995, 26, 511-522.	3.6	5
34	The stomatogastric nervous system of the medicinal leech: its anatomy, physiology and associated aminergic neurons. Journal of Experimental Biology, 2018, 221, .	1.7	4
35	Hormoneâ€dependent expression of fasciclin II during ganglionic migration and fusion in the ventral nerve cord of the moth Manduca sexta. Journal of Comparative Neurology, 2008, 509, 319-339.	1.6	2
36	Tyrosine hydroxylase immunolabeling reveals the distribution of catecholaminergic neurons in the central nervous systems of the spiders Hogna lenta (Araneae: Lycosidae) and Phidippus regius (Araneae: Salticidae). Journal of Comparative Neurology, 2020, 528, 211-230.	1.6	2

#	Article	IF	Citations
37	Small steps and larger strides in understanding the neural bases of crawling in the medicinal leech. , 2020, , 31-55.		1