Michael P Nusbaum

List of Publications by Year
in descending order

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64 papers	3,631 citations	117625 34 h-index	144013 57 g-index
66 all docs	66 docs citations	66 times ranked	1346 citing authors

#	Article	IF	Citations
1	A small-systems approach to motor pattern generation. Nature, 2002, 417, 343-350.	27.8	290
2	Functional consequences of neuropeptide and small-molecule co-transmission. Nature Reviews Neuroscience, 2017, 18, 389-403.	10.2	231
3	Distribution and partial characterization of FMRFamide-like peptides in the stomatogastric nervous systems of the rock crab,Cancer borealis, and the spiny lobster,Panulirus interruptus. Journal of Comparative Neurology, 1987, 259, 150-163.	1.6	163
4	A switch between two modes of synaptic transmission mediated by presynaptic inhibition. Nature, 1995, 378, 502-505.	27.8	147
5	Coordination of Fast and Slow Rhythmic Neuronal Circuits. Journal of Neuroscience, 1999, 19, 6650-6660.	3.6	147
6	Different Proctolin Neurons Elicit Distinct Motor Patterns from a Multifunctional Neuronal Network. Journal of Neuroscience, 1999, 19, 5449-5463.	3.6	143
7	Neuropeptidomic analysis of the brain and thoracic ganglion from the Jonah crab, Cancer borealis. Biochemical and Biophysical Research Communications, 2003, 308, 535-544.	2.1	131
8	Intercircuit Control of Motor Pattern Modulation by Presynaptic Inhibition. Journal of Neuroscience, 1997, 17, 2247-2256.	3.6	114
9	A Neuronal Role for A Crustacean Red Pigment Concentrating Hormone-Like Peptide: Neuromodulation of the Pyloric Rhythm in the Crab, Cancer Borealis. Journal of Experimental Biology, 1988, 135, 165-181.	1.7	101
10	Distribution of modulatory inputs to the stomatogastric ganglion of the crab, Cancer borealis. Journal of Comparative Neurology, 1992, 325, 581-594.	1.6	97
11	Distinct Functions for Cotransmitters Mediating Motor Pattern Selection. Journal of Neuroscience, 1999, 19, 6774-6783.	3.6	91
12	Frequency Regulation of a Slow Rhythm by a Fast Periodic Input. Journal of Neuroscience, 1998, 18, 5053-5067.	3.6	83
13	General Principles of Neuronal Co-transmission: Insights From Multiple Model Systems. Frontiers in Neural Circuits, 2018, 12, 117.	2.8	80
14	Different Sensory Systems Share Projection Neurons But Elicit Distinct Motor Patterns. Journal of Neuroscience, 2004, 24, 11381-11390.	3.6	78
15	Neuropeptide modulation of microcircuits. Current Opinion in Neurobiology, 2012, 22, 592-601.	4.2	78
16	Distribution and effects of tachykinin-like peptides in the stomatogastric nervous system of the crab,Cancer borealis. Journal of Comparative Neurology, 1995, 354, 282-294.	1.6	76
17	Projection Neurons with Shared Cotransmitters Elicit Different Motor Patterns from the Same Neural Circuit. Journal of Neuroscience, 2000, 20, 8943-8953.	3.6	75
18	Long-Lasting Activation of Rhythmic Neuronal Activity by a Novel Mechanosensory System in the Crustacean Stomatogastric Nervous System. Journal of Neurophysiology, 2004, 91, 78-91.	1.8	74

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19	Motor Pattern Selection via Inhibition of Parallel Pathways. Journal of Neuroscience, 1997, 17, 4965-4975.	3.6	72
20	Mechanosensory Activation of a Motor Circuit by Coactivation of Two Projection Neurons. Journal of Neuroscience, 2004, 24, 6741-6750.	3.6	70
21	Divergent coâ€transmitter actions underlie motor pattern activation by a modulatory projection neuron. European Journal of Neuroscience, 2007, 26, 1148-1165.	2.6	68
22	Complicating connectomes: Electrical coupling creates parallel pathways and degenerate circuit mechanisms. Developmental Neurobiology, 2017, 77, 597-609.	3.0	68
23	Neural circuit flexibility in a small sensorimotor system. Current Opinion in Neurobiology, 2011, 21, 544-552.	4.2	67
24	Modulation of Rhythmic Motor Activity by Pyrokinin Peptides. Journal of Neurophysiology, 2007, 97, 579-595.	1.8	63
25	Actions of a histaminergic/peptidergic projection neuron on rhythmic motor patterns in the stomatogastric nervous system of the crabCancer borealis. Journal of Comparative Neurology, 2004, 469, 153-169.	1.6	60
26	Proprioceptor Regulation of Motor Circuit Activity by Presynaptic Inhibition of a Modulatory Projection Neuron. Journal of Neuroscience, 2005, 25, 8794-8806.	3.6	57
27	A newly identified extrinsic input triggers a distinct gastric mill rhythmviaactivation of modulatory projection neurons. Journal of Experimental Biology, 2008, 211, 1000-1011.	1.7	57
28	Convergent Motor Patterns from Divergent Circuits. Journal of Neuroscience, 2007, 27, 6664-6674.	3.6	56
29	Intercircuit Control via Rhythmic Regulation of Projection Neuron Activity. Journal of Neuroscience, 2004, 24, 7455-7463.	3.6	48
30	Regulating Peptidergic Modulation of Rhythmically Active Neural Circuits. Brain, Behavior and Evolution, 2002, 60, 378-387.	1.7	42
31	Mechanosensory Gating of Proprioceptor Input to Modulatory Projection Neurons. Journal of Neuroscience, 2007, 27, 14308-14316.	3.6	42
32	Parallel Regulation of a Modulator-Activated Current via Distinct Dynamics Underlies Comodulation of Motor Circuit Output. Journal of Neuroscience, 2009, 29, 12355-12367.	3.6	42
33	The Same Core Rhythm Generator Underlies Different Rhythmic Motor Patterns. Journal of Neuroscience, 2011, 31, 11484-11494.	3.6	42
34	Modulation of Circuit Feedback Specifies Motor Circuit Output. Journal of Neuroscience, 2012, 32, 9182-9193.	3.6	42
35	Convergent Rhythm Generation from Divergent Cellular Mechanisms. Journal of Neuroscience, 2013, 33, 18047-18064.	3.6	41
36	Motor Circuit-Specific Burst Patterns Drive Different Muscle and Behavior Patterns. Journal of Neuroscience, 2013, 33, 12013-12029.	3.6	40

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37	Presynaptic Inhibition Selectively Weakens Peptidergic Cotransmission in a Small Motor System. Journal of Neurophysiology, 2009, 102, 3492-3504.	1.8	35
38	Neural mechanisms generating the leech swimming rhythm: Swim-initiator neurons excite the network of swim oscillator neurons. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1987, 161, 355-366.	1.6	34
39	Extracellular Peptidase Activity Tunes Motor Pattern Modulation. Journal of Neuroscience, 2002, 22, 4185-4195.	3.6	33
40	Species-specific modulation of pattern-generating circuits. European Journal of Neuroscience, 2000, 12, 2585-2596.	2.6	32
41	State-Dependent Presynaptic Inhibition Regulates Central Pattern Generator Feedback to Descending Inputs. Journal of Neuroscience, 2008, 28, 9564-9574.	3.6	32
42	Peptide Hormone Modulation of a Neuronally Modulated Motor Circuit. Journal of Neurophysiology, 2007, 98, 3206-3220.	1.8	30
43	Similarities and differences in circuit responses to applied Gly¹-SIFamide and peptidergic (Gly¹-SIFamide) neuron stimulation. Journal of Neurophysiology, 2019, 121, 950-972.	1.8	25
44	Discovery and Functional Study of a Novel Crustacean Tachykinin Neuropeptide. ACS Chemical Neuroscience, 2011, 2, 711-722.	3.5	23
45	Presynaptic control of neurones in pattern-generating networks. Current Opinion in Neurobiology, 1994, 4, 909-914.	4.2	19
46	Mass Spectrometry Quantification, Localization, and Discovery of Feeding-Related Neuropeptides in Cancer borealis. ACS Chemical Neuroscience, 2021, 12, 782-798.	3.5	19
47	Editorial overview: Neuromodulation: Tuning the properties of neurons, networks and behavior. Current Opinion in Neurobiology, 2014, 29, iv-vii.	4.2	18
48	Frequency Control of a Slow Oscillatory Network by a Fast Rhythmic Input: Pyloric to Gastric Mill Interactions in the Crab Stomatogastric Nervous Systema. Annals of the New York Academy of Sciences, 1998, 860, 226-238.	3.8	17
49	Central nervous system projections to and from the commissural ganglion of the crab Cancer borealis. Cell and Tissue Research, 2007, 328, 625-637.	2.9	17
50	Perturbation-specific responses by two neural circuits generating similar activity patterns. Current Biology, 2021, 31, 4831-4838.e4.	3.9	15
51	Hormonal Modulation of Sensorimotor Integration. Journal of Neuroscience, 2010, 30, 2418-2427.	3.6	14
52	Actions of kinin peptides in the stomatogastric ganglion of the crab Cancer borealis. Journal of Experimental Biology, 2006, 209, 3664-3676.	1.7	13
53	State-dependent sensorimotor gating in a rhythmic motor system. Journal of Neurophysiology, 2017, 118, 2806-2818.	1.8	13
54	Convergent neuromodulation onto a network neuron can have divergent effects at the network level. Journal of Computational Neuroscience, 2016, 40, 113-135.	1.0	12

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55	Sensorimotor Gating: Startle Submits to Presynaptic Inhibition. Current Biology, 2004, 14, R247-R249.	3.9	11
56	A modeling comparison of projection neuron- and neuromodulator-elicited oscillations in a central pattern generating network. Journal of Computational Neuroscience, 2008, 24, 374-397.	1.0	10
57	Editorial: Neuronal Co-transmission. Frontiers in Neural Circuits, 2019, 13, 19.	2.8	8
58	Different microcircuit responses to comparable input from a one vs. both copies of an identified projection neuron. Journal of Experimental Biology, 2020, 223, .	1.7	6
59	Mass spectrometry profiling and quantitation of changes in circulating hormones secreted over time in Cancer borealis hemolymph due to feeding behavior. Analytical and Bioanalytical Chemistry, 2022, 414, 533-543.	3.7	6
60	Feeding state-dependent modulation of feeding-related motor patterns. Journal of Neurophysiology, 2021, 126, 1903-1924.	1.8	5
61	Convergence and Divergence of Cotransmitter Systems in the Crab Stomatogastric Nervous System. , 2002, , 20-33.		4
62	Motor systems Understanding motor circuits: where bottom-up meets top-down. Current Opinion in Neurobiology, 2000, 10, 673-675.	4.2	3
63	Absolute Temperature. , 2008, , 2-2.		1
64	Modeling the MCN1-Activated Gastric Mill Rhythm. , 1997, , 391-394.		0