

Michael P Nusbaum

List of Publications by Year in descending order

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64
papers

3,631
citations

117619

34
h-index

144002

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. <i>Nature</i> , 2002, 417, 343-350.	27.8	290
2	Functional consequences of neuropeptide and small-molecule co-transmission. <i>Nature Reviews Neuroscience</i> , 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, <i>Cancer borealis</i> , and the spiny lobster, <i>Panulirus interruptus</i> . <i>Journal of Comparative Neurology</i> , 1987, 259, 150-163.	1.6	163
4	A switch between two modes of synaptic transmission mediated by presynaptic inhibition. <i>Nature</i> , 1995, 378, 502-505.	27.8	147
5	Coordination of Fast and Slow Rhythmic Neuronal Circuits. <i>Journal of Neuroscience</i> , 1999, 19, 6650-6660.	3.6	147
6	Different Proctolin Neurons Elicit Distinct Motor Patterns from a Multifunctional Neuronal Network. <i>Journal of Neuroscience</i> , 1999, 19, 5449-5463.	3.6	143
7	Neuropeptidomic analysis of the brain and thoracic ganglion from the Jonah crab, <i>Cancer borealis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 535-544.	2.1	131
8	Intercircuit Control of Motor Pattern Modulation by Presynaptic Inhibition. <i>Journal of Neuroscience</i> , 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, <i>Cancer Borealis</i> . <i>Journal of Experimental Biology</i> , 1988, 135, 165-181.	1.7	101
10	Distribution of modulatory inputs to the stomatogastric ganglion of the crab, <i>Cancer borealis</i> . <i>Journal of Comparative Neurology</i> , 1992, 325, 581-594.	1.6	97
11	Distinct Functions for Cotransmitters Mediating Motor Pattern Selection. <i>Journal of Neuroscience</i> , 1999, 19, 6774-6783.	3.6	91
12	Frequency Regulation of a Slow Rhythm by a Fast Periodic Input. <i>Journal of Neuroscience</i> , 1998, 18, 5053-5067.	3.6	83
13	General Principles of Neuronal Co-transmission: Insights From Multiple Model Systems. <i>Frontiers in Neural Circuits</i> , 2018, 12, 117.	2.8	80
14	Different Sensory Systems Share Projection Neurons But Elicit Distinct Motor Patterns. <i>Journal of Neuroscience</i> , 2004, 24, 11381-11390.	3.6	78
15	Neuropeptide modulation of microcircuits. <i>Current Opinion in Neurobiology</i> , 2012, 22, 592-601.	4.2	78
16	Distribution and effects of tachykinin-like peptides in the stomatogastric nervous system of the crab, <i>Cancer borealis</i> . <i>Journal of Comparative Neurology</i> , 1995, 354, 282-294.	1.6	76
17	Projection Neurons with Shared Cotransmitters Elicit Different Motor Patterns from the Same Neural Circuit. <i>Journal of Neuroscience</i> , 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. <i>Journal of Neurophysiology</i> , 2004, 91, 78-91.	1.8	74

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

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37	Presynaptic Inhibition Selectively Weakens Peptidergic Cotransmission in a Small Motor System. <i>Journal of Neurophysiology</i> , 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. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987, 161, 355-366.	1.6	34
39	Extracellular Peptidase Activity Tunes Motor Pattern Modulation. <i>Journal of Neuroscience</i> , 2002, 22, 4185-4195.	3.6	33
40	Species-specific modulation of pattern-generating circuits. <i>European Journal of Neuroscience</i> , 2000, 12, 2585-2596.	2.6	32
41	State-Dependent Presynaptic Inhibition Regulates Central Pattern Generator Feedback to Descending Inputs. <i>Journal of Neuroscience</i> , 2008, 28, 9564-9574.	3.6	32
42	Peptide Hormone Modulation of a Neuronally Modulated Motor Circuit. <i>Journal of Neurophysiology</i> , 2007, 98, 3206-3220.	1.8	30
43	Similarities and differences in circuit responses to applied Gly ¹ -SIFamide and peptidergic (Gly ¹ -SIFamide) neuron stimulation. <i>Journal of Neurophysiology</i> , 2019, 121, 950-972.	1.8	25
44	Discovery and Functional Study of a Novel Crustacean Tachykinin Neuropeptide. <i>ACS Chemical Neuroscience</i> , 2011, 2, 711-722.	3.5	23
45	Presynaptic control of neurones in pattern-generating networks. <i>Current Opinion in Neurobiology</i> , 1994, 4, 909-914.	4.2	19
46	Mass Spectrometry Quantification, Localization, and Discovery of Feeding-Related Neuropeptides in <i>Cancer borealis</i> . <i>ACS Chemical Neuroscience</i> , 2021, 12, 782-798.	3.5	19
47	Editorial overview: Neuromodulation: Tuning the properties of neurons, networks and behavior. <i>Current Opinion in Neurobiology</i> , 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 System. <i>Annals of the New York Academy of Sciences</i> , 1998, 860, 226-238.	3.8	17
49	Central nervous system projections to and from the commissural ganglion of the crab <i>Cancer borealis</i> . <i>Cell and Tissue Research</i> , 2007, 328, 625-637.	2.9	17
50	Perturbation-specific responses by two neural circuits generating similar activity patterns. <i>Current Biology</i> , 2021, 31, 4831-4838.e4.	3.9	15
51	Hormonal Modulation of Sensorimotor Integration. <i>Journal of Neuroscience</i> , 2010, 30, 2418-2427.	3.6	14
52	Actions of kinin peptides in the stomatogastric ganglion of the crab <i>Cancer borealis</i> . <i>Journal of Experimental Biology</i> , 2006, 209, 3664-3676.	1.7	13
53	State-dependent sensorimotor gating in a rhythmic motor system. <i>Journal of Neurophysiology</i> , 2017, 118, 2806-2818.	1.8	13
54	Convergent neuromodulation onto a network neuron can have divergent effects at the network level. <i>Journal of Computational Neuroscience</i> , 2016, 40, 113-135.	1.0	12

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55	Sensorimotor Gating: Startle Submits to Presynaptic Inhibition. <i>Current Biology</i> , 2004, 14, R247-R249.	3.9	11
56	A modeling comparison of projection neuron- and neuromodulator-elicited oscillations in a central pattern generating network. <i>Journal of Computational Neuroscience</i> , 2008, 24, 374-397.	1.0	10
57	Editorial: Neuronal Co-transmission. <i>Frontiers in Neural Circuits</i> , 2019, 13, 19.	2.8	8
58	Different microcircuit responses to comparable input from a one vs. both copies of an identified projection neuron. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
59	Mass spectrometry profiling and quantitation of changes in circulating hormones secreted over time in <i>Cancer borealis</i> hemolymph due to feeding behavior. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 533-543.	3.7	6
60	Feeding state-dependent modulation of feeding-related motor patterns. <i>Journal of Neurophysiology</i> , 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. <i>Current Opinion in Neurobiology</i> , 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