

Jeremy E Niven

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,106
citations

218677

26
h-index

128289

60
g-index

76
all docs

76
docs citations

76
times ranked

4710
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex differences in morphology across an expanding range edge in the flightless ground beetle, <i>Carabus hortensis</i> . <i>Ecology and Evolution</i> , 2021, 11, 9949-9957.	1.9	5
2	Understanding suicidality and reasons for living amongst Doctoral Researchers: A thematic analysis of qualitative Uâ€DOC survey data. <i>Counselling and Psychotherapy Research</i> , 2021, 21, 757.	3.2	6
3	Larval nutrition impacts survival to adulthood, body size and the allometric scaling of metabolic rate in adult honeybees. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	13
4	A unified mechanism for innate and learned visual landmark guidance in the insect central complex. <i>PLoS Computational Biology</i> , 2021, 17, e1009383.	3.2	28
5	Personal, social and relational predictors of UK postgraduate researcher mental health problems. <i>BJPsych Open</i> , 2021, 7, .	0.7	9
6	Sex-specific covariance between metabolic rate, behaviour and morphology in the ground beetle <i>Carabus hortensis</i> . <i>PeerJ</i> , 2021, 9, e12455.	2.0	5
7	Nationwide assessment of the mental health of UK Doctoral Researchers. <i>Humanities and Social Sciences Communications</i> , 2021, 8, .	2.9	16
8	Artificial lighting impairs mate attraction in a nocturnal capital breeder. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	10
9	Mushroom Bodies Are Required for Learned Visual Navigation, but Not for Innate Visual Behavior, in Ants. <i>Current Biology</i> , 2020, 30, 3438-3443.e2.	3.9	81
10	Malpighamoeba infection compromises fluid secretion and P-glycoprotein detoxification in Malpighian tubules. <i>Scientific Reports</i> , 2020, 10, 15953.	3.3	4
11	Understanding the mental health of doctoral researchers: a mixed methods systematic review with meta-analysis and meta-synthesis. <i>Systematic Reviews</i> , 2020, 9, 197.	5.3	61
12	Lateralization of short- and long-term visual memories in an insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200677.	2.6	12
13	Prey speed influences the speed and structure of the raptorial strike of a "sit-and-wait" predator. <i>Biology Letters</i> , 2020, 16, 20200098.	2.3	11
14	A motion compensation treadmill for untethered wood ants (<i>Formica rufa</i>): evidence for transfer of orientation memories from free-walking training. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	8
15	Evolution of the Nervous System in Relation to Behavior. , 2019, , 33-40.		0
16	Visual associative learning in wood ants. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	11
17	Lessons in Lateralisation from the Insects. <i>Trends in Ecology and Evolution</i> , 2018, 33, 486-488.	8.7	13
18	Modulation of voltage-dependent K ⁺ conductances in photoreceptors trades off investment in contrast gain for bandwidth. <i>PLoS Computational Biology</i> , 2018, 14, e1006566.	3.2	4

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19	Matched Short-Term Depression and Recovery Encodes Interspike Interval at a Central Synapse. <i>Scientific Reports</i> , 2018, 8, 13629.	3.3	1
20	Insights into the evolution of lateralization from the insects. <i>Progress in Brain Research</i> , 2018, 238, 3-31.	1.4	36
21	Metabolic rate scaling, ventilation patterns and respiratory water loss in red wood ants: activity drives ventilation changes, metabolic rate drives water loss. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	4
22	Voltage-dependent K ⁺ channels improve the energy efficiency of signalling in blowfly photoreceptors. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160938.	3.4	7
23	Conservative whole-organ scaling contrasts with highly labile suborgan scaling differences among compound eyes of closely related <i>Formica</i> ants. <i>Ecology and Evolution</i> , 2017, 7, 1663-1673.	1.9	6
24	Larval exposure to field-realistic concentrations of clothianidin has no effect on development rate, over-winter survival or adult metabolic rate in a solitary bee, <i>Osmia bicornis</i> . <i>PeerJ</i> , 2017, 5, e3417.	2.0	37
25	Environmental Adaptation, Phenotypic Plasticity, and Associative Learning in Insects: The Desert Locust as a Case Study. <i>Integrative and Comparative Biology</i> , 2016, 56, 914-924.	2.0	21
26	Differential scaling within an insect compound eye. <i>Biology Letters</i> , 2016, 12, 20160042.	2.3	26
27	Neuronal energy consumption: biophysics, efficiency and evolution. <i>Current Opinion in Neurobiology</i> , 2016, 41, 129-135.	4.2	96
28	Strength of forelimb lateralization predicts motor errors in an insect. <i>Biology Letters</i> , 2016, 12, 20160547.	2.3	48
29	Shunt peaking in neural membranes. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160719.	3.4	10
30	Evolving understanding of nervous system evolution. <i>Current Biology</i> , 2016, 26, R937-R941.	3.9	20
31	Colony-Level Differences in the Scaling Rules Governing Wood Ant Compound Eye Structure. <i>Scientific Reports</i> , 2016, 6, 24204.	3.3	17
32	Neural Evolution: Marginal Gains through Soma Location. <i>Current Biology</i> , 2015, 25, R330-R332.	3.9	2
33	The acquisition and expression of memories of distance and direction in navigating wood ants. <i>Journal of Experimental Biology</i> , 2015, 218, 3580-8.	1.7	11
34	Neural Evolution: Costing the Benefits of Eye Loss. <i>Current Biology</i> , 2015, 25, R840-R841.	3.9	8
35	Consequences of Converting Graded to Action Potentials upon Neural Information Coding and Energy Efficiency. <i>PLoS Computational Biology</i> , 2014, 10, e1003439.	3.2	41
36	Individual-level, context-dependent handedness in the desert locust. <i>Current Biology</i> , 2014, 24, R382-R383.	3.9	24

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37	Neural Energetics: Hungry Flies Turn Down the Visual Gain. <i>Current Biology</i> , 2014, 24, R313-R315.	3.9	2
38	Invertebrate Neurobiology: Short-Term Memories for Limb Targeting. <i>Current Biology</i> , 2013, 23, R324-R326.	3.9	0
39	Conserved Regulation of Cardiac Calcium Uptake by Peptides Encoded in Small Open Reading Frames. <i>Science</i> , 2013, 341, 1116-1120.	12.6	311
40	Phenotypic Transformation Affects Associative Learning in the Desert Locust. <i>Current Biology</i> , 2013, 23, 2407-2412.	3.9	18
41	Balanced Excitatory and Inhibitory Synaptic Currents Promote Efficient Coding and Metabolic Efficiency. <i>PLoS Computational Biology</i> , 2013, 9, e1003263.	3.2	77
42	The Effect of Cell Size and Channel Density on Neuronal Information Encoding and Energy Efficiency. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1465-1473.	4.3	80
43	Visually targeted reaching in horse-head grasshoppers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3697-3705.	2.6	14
44	A ROLE FOR SENSORY INPUTS IN THE GENERATION OF THE FLIGHT MOTOR PATTERN. <i>Journal of Experimental Biology</i> , 2012, 215, 197-199.	1.7	0
45	A long-latency aversive learning mechanism enables locusts to avoid odours associated with the consequences of ingesting toxic food. <i>Journal of Experimental Biology</i> , 2012, 215, 1711-1719.	1.7	27
46	Why Do Axons Differ in Caliber?. <i>Journal of Neuroscience</i> , 2012, 32, 626-638.	3.6	328
47	How Honeybees Break a Decision-Making Deadlock. <i>Science</i> , 2012, 335, 43-44.	12.6	14
48	Miniaturization of Nervous Systems and Neurons. <i>Current Biology</i> , 2012, 22, R323-R329.	3.9	88
49	Invertebrate Neurobiology: Visual Direction of Arm Movements in an Octopus. <i>Current Biology</i> , 2011, 21, R217-R218.	3.9	3
50	The allometry of CNS size and consequences of miniaturization in orb-weaving and cleptoparasitic spiders. <i>Arthropod Structure and Development</i> , 2011, 40, 521-529.	1.4	51
51	Associative olfactory learning in the desert locust, <i>Schistocerca gregaria</i> . <i>Journal of Experimental Biology</i> , 2011, 214, 2495-2503.	1.7	47
52	Reuse of identified neurons in multiple neural circuits. <i>Behavioral and Brain Sciences</i> , 2010, 33, 285-285.	0.7	15
53	Visual Targeting of Forelimbs in Ladder-Walking Locusts. <i>Current Biology</i> , 2010, 20, 86-91.	3.9	43
54	Visuomotor Control: <i>Drosophila</i> Bridges the Gap. <i>Current Biology</i> , 2010, 20, R309-R311.	3.9	4

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55	Action Potential Energy Efficiency Varies Among Neuron Types in Vertebrates and Invertebrates. PLoS Computational Biology, 2010, 6, e1000840.	3.2	216
56	Are Bigger Brains Better?. Current Biology, 2009, 19, R995-R1008.	3.9	542
57	Evolution: Convergent Eye Losses in Fishy Circumstances. Current Biology, 2008, 18, R27-R29.	3.9	20
58	The rapid mandible strike of a termite soldier. Current Biology, 2008, 18, R1049-R1050.	3.9	50
59	Energy limitation as a selective pressure on the evolution of sensory systems. Journal of Experimental Biology, 2008, 211, 1792-1804.	1.7	841
60	Fly Photoreceptors Demonstrate Energy-Information Trade-Offs in Neural Coding. PLoS Biology, 2007, 5, e116.	5.6	218
61	Brains, islands and evolution: breaking all the rules. Trends in Ecology and Evolution, 2007, 22, 57-59.	8.7	47
62	Invertebrate Memory: Wide-Eyed Ants Retrieve Visual Snapshots. Current Biology, 2007, 17, R85-R87.	3.9	6
63	Visual Motion: Homing in on Small Target Detectors. Current Biology, 2006, 16, R292-R294.	3.9	6
64	Robustness of Neural Coding in Drosophila Photoreceptors in the Absence of Slow Delayed Rectifier K ⁺ Channels. Journal of Neuroscience, 2006, 26, 2652-2660.	3.6	61
65	Brain Evolution: Getting Better All the Time?. Current Biology, 2005, 15, R624-R626.	3.9	27
66	Do insect metabolic rates at rest and during flight scale with body mass?. Biology Letters, 2005, 1, 346-349.	2.3	110
67	Interactions Between Light-Induced Currents, Voltage-Gated Currents, and Input Signal Properties in Drosophila Photoreceptors. Journal of Neurophysiology, 2004, 91, 2696-2706.	1.8	16
68	The contribution of Shaker K ⁺ channels to the information capacity of Drosophila photoreceptors. Nature, 2003, 421, 630-634.	27.8	84
69	Shaker K ⁺ Channels Contribute Early Nonlinear Amplification to the Light Response in Drosophila Photoreceptors. Journal of Neurophysiology, 2003, 90, 2014-2021.	1.8	23