Jeffrey A Riffell

List of Publications by Year
in descending order

45 papers	1,861 citations	331670 21 h-index	289244 40 g-index
51 all docs	51 docs citations	51 times ranked	1726 citing authors

#	Article	IF	Citations
1	Characterization and Coding of Behaviorally Significant Odor Mixtures. Current Biology, 2009, 19, 335-340.	3.9	205
2	Flower discrimination by pollinators in a dynamic chemical environment. Science, 2014, 344, 1515-1518.	12.6	184
3	Behavioral consequences of innate preferences and olfactory learning in hawkmothâ€“flower interactions. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3404-3409.	7.1	164
4	Neural Basis of a Pollinatorâ€™s Buffet: Olfactory Specialization and Learning in Manduca sexta. Science, 2013, 339, 200-204.	12.6	120
5	The olfactory basis of orchid pollination by mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 708-716.	7.1	94
6	Circadian clock gene LATE ELONGATED HYPOCOTYL directly regulates the timing of floral scent emission in Petunia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9775-9780.	7.1	93
7	Modulation of Host Learning in Aedes aegypti Mosquitoes. Current Biology, 2018, 28, 333-344.e8.	3.9	82
8	Geosmin Attracts Aedes aegypti Mosquitoes to Oviposition Sites. Current Biology, 2020, 30, 127-134.e5.	3.9	65
9	Visual-Olfactory Integration in the Human Disease Vector Mosquito Aedes aegypti. Current Biology, 2019, 29, 2509-2516.e5.	3.9	64
10	Olfactory learning and memory in the disease vector mosquito,Aedes aegypti. Journal of Experimental Biology, 2014, 217, 2321-30.	1.7	54
11	Olfaction, experience and neural mechanisms underlying mosquito host preference. Journal of Experimental Biology, 2018, 221, .	1.7	53
12	Olfactory learning and chemical ecology of olfaction in disease vector mosquitoes: a life history perspective. Current Opinion in Insect Science, 2017, 20, 75-83.	4.4	52
13	History dependence in insect flight decisions during odor tracking. PLoS Computational Biology, 2018, 14, e1005969.	3.2	47
14	Circadian clocks of both plants and pollinators influence flower seeking behavior of the pollinator hawkmoth Manduca sexta. Scientific Reports, 2018, 8, 2842.	3.3	44
15	Sperm chemotaxis promotes individual fertilization success in sea urchins. Journal of Experimental Biology, 2016, 219, 1458-66.	1.7	37
16	Olfactory modulation by dopamine in the context of aversive learning. Journal of Neurophysiology, 2012, 108, 539-550.	1.8	36
17	Learning and Memory in Disease Vector Insects. Trends in Parasitology, 2016, 32, 761-771.	3.3	34
18	The Neuroecology of a Pollinator's Buffet: Olfactory Preferences and Learning in Insect Pollinators. Integrative and Comparative Biology, 2011, 51, 781-793.	2.0	31

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19	Polycyclic aromatic hydrocarbons in caribou, moose, and wolf scat samples from three areas of the Alberta oil sands. Environmental Pollution, 2015, 206, 527-534.	7.5	31
20	Olfactory ecology and the processing of complex mixtures. Current Opinion in Neurobiology, 2012, 22, 236-242.	4.2	29
21	Human attractive cues and mosquito host-seeking behavior. Trends in Parasitology, 2022, 38, 246-264.	3.3	29
22	The olfactory gating of visual preferences to human skin and visible spectra in mosquitoes. Nature Communications, 2022, 13, 555.	12.8	29
23	Scent matters: differential contribution of scent to insect response in flowers with insect vs. wind pollination traits. Annals of Botany, 2019, 123, 289-301.	2.9	28
24	Live calcium imaging of Aedes aegypti neuronal tissues reveals differential importance of chemosensory systems for life-history-specific foraging strategies. BMC Neuroscience, 2019, 20, 27.	1.9	21
25	Multimodal Floral Signals and Moth Foraging Decisions. PLoS ONE, 2013, 8, e72809.	2.5	20
26	Olfaction in context â€" sources of nuance in plantâ€“pollinator communication. Current Opinion in Insect Science, 2016, 15, 53-60.	4.4	18
27	Data-driven inference of network connectivity for modeling the dynamics of neural codes in the insect antennal lobe. Frontiers in Computational Neuroscience, 2014, 8, 70.	2.1	17
28	Honeybees in a virtual reality environment learn unique combinations of colour and shape. Journal of Experimental Biology, 2017, 220, 3478-3487.	1.7	17
29	Biological Mechanisms for Learning: A Computational Model of Olfactory Learning in the Manduca sexta Moth, With Applications to Neural Nets. Frontiers in Computational Neuroscience, 2018, 12, 102.	2.1	17
30	The neural bases of host plant selection in a Neuroecology framework. Frontiers in Physiology, 2015, 6, 229.	2.8	15
31	Elimination of vision-guided target attraction in Aedes aegypti using CRISPR. Current Biology, 2021, 31, 4180-4187.e6.	3.9	15
32	Editorial: The Mechanisms of Insect Cognition. Frontiers in Psychology, 2019, 10, 2751.	2.1	14
33	Individual female differences in chemoattractant production change the scale of sea urchin gamete interactions. Developmental Biology, 2017, 422, 186-197.	2.0	12
34	Fruit odorants mediate co-specialization in a multispecies plantâ€“animal mutualism. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210312.	2.6	11
35	The neuroecology of insect-plant interactions: the importance of physiological state and sensory integration. Current Opinion in Insect Science, 2020, 42, 118-124.	4.4	10
36	Histamine Ingestion by Anopheles stephensi Alters Important Vector Transmission Behaviors and Infection Success with Diverse Plasmodium Species. Biomolecules, 2021, 11, 719.	4.0	10

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37	Distinct navigation behaviors in Aedes, Anopheles, and Culex mosquito larvae. Journal of Experimental Biology, 2020, 223, .	1.7	9
38	Visuo-Motor Feedback Modulates Neural Activities in the Medulla of the Honeybee,Apis mellifera. Journal of Neuroscience, 2021, 41, 3192-3203.	3.6	9
39	Computational and experimental insights into the chemosensory navigation of Aedes aegyptimosquito larvae. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191495.	2.6	7
40	Neuroecology: Neural Mechanisms of Sensory and Motor Processes that Mediate Ecologically Relevant Behaviors: An Introduction to the Symposium. Integrative and Comparative Biology, 2016, 56, 853-855.	2.0	4
41	Anopheles stephensi Feeding, Flight Behavior, and Infection With Malaria Parasites are Altered by Ingestion of Serotonin. Frontiers in Physiology, 0, 13, .	2.8	4
42	Neuroethology: Lemon-Fresh Scent Makes Flies Lay Eggs. Current Biology, 2013, 23, R1108-R1110.	3.9	3
43	The Olfactory Neuroecology of Herbivory, Hostplant Selection and Plantâ€“Pollinator Interactions. Integrative and Comparative Biology, 2016, 56, 856-864.	2.0	1
44	Plant Defense: Timing Is Everything. Current Biology, 2017, 27, R344-R346.	3.9	1
45	Olfaction: Repellents that Congest the Mosquito Nose. Current Biology, 2019, 29, R1124-R1126.	3.9	1