

Navigational Strategies Used by Insects to Find Distant,

Journal of Chemical Ecology

34, 854-866

DOI: [10.1007/s10886-008-9484-5](https://doi.org/10.1007/s10886-008-9484-5)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Physical Processes and Real-Time Chemical Measurement of the Insect Olfactory Environment. Journal of Chemical Ecology, 2008, 34, 837-853.	0.9	144
2	The use of Odors at Different Spatial Scales: Comparing Birds with Fish. Journal of Chemical Ecology, 2008, 34, 867-881.	0.9	81
3	Preferred viewing directions of bumblebees (<i>Bombus terrestris</i> L.) when learning and approaching their nest site. Journal of Experimental Biology, 2009, 212, 3193-3204.	0.8	55
4	The neuro-ecology of resource localization in <i>Drosophila</i> : Behavioral components of perception and search. Fly, 2009, 3, 50-61.	0.9	26
5	Edge Effects in the Directionally Biased Distribution of <i>Choristoneura rosaceana</i> (Lepidoptera: Tortricidae). Journal of Chemical Ecology, 2009, 35, 50-58.	0.7	2
6	Pulsed Odors from Maize or Spinach Elicit Orientation in European Corn Borer Neonate Larvae. Journal of Chemical Ecology, 2009, 35, 1032-1042.	0.9	28
7	Identifying an odour source in fluid-advected environments, algorithms abstracted from moth-inspired plume tracing strategies. Applied Bionics and Biomechanics, 2010, 7, 3-17.	0.5	7
8	Sex Pheromones and Their Impact on Pest Management. Journal of Chemical Ecology, 2010, 36, 80-100.	0.9	758
9	Interaction Between Visual and Olfactory Cues During Host Finding in the Tomato Fruit Fly <i>Neoceratitis cyanescens</i> . Journal of Chemical Ecology, 2010, 36, 249-259.	0.9	30
10	Modelling pheromone anemotaxis for biosecurity surveillance: Moth movement patterns reveal a downwind component of anemotaxis. Ecological Modelling, 2010, 221, 2801-2807.	1.2	3
11	Vegetation complexityâ€”The influence of plant species diversity and plant structures on plant chemical complexity and arthropods. Basic and Applied Ecology, 2010, 11, 383-395.	1.2	141
12	Evidence of active or passive downwind dispersal in markâ€”releaseâ€”recapture of moths. Entomologia Experimentalis Et Applicata, 2010, 134, 160-169.	0.7	10
13	Ionotropic and metabotropic mechanisms in chemoreception: 'chance or design'?. EMBO Reports, 2010, 11, 173-179.	2.0	88
14	Identifying an Odour Source in Fluid-Advected Environments, Algorithms Abstracted from Moth-Inspired Plume Tracing Strategies. Applied Bionics and Biomechanics, 2010, 7, 3-17.	0.5	13
15	Mobile robot gas source localization via top-down visual attention mechanism and shape analysis. , 2010, , .		7
16	Behavioral and neurophysiological responses of an insect to changing ratios of constituents in host plant-derived volatile mixtures. Journal of Experimental Biology, 2010, 213, 3388-3397.	0.8	102
17	Pheromones of Terrestrial Invertebrates. , 2010, , 153-223.		30
18	Sugar-fermenting yeast as an organic source of carbon dioxide to attract the malaria mosquito <i>Anopheles gambiae</i> . Malaria Journal, 2010, 9, 292.	0.8	133

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19	Recent Insights from Radar Studies of Insect Flight. Annual Review of Entomology, 2011, 56, 337-356.	5.7	252
20	The neurobiology of insect olfaction: Sensory processing in a comparative context. Progress in Neurobiology, 2011, 95, 427-447.	2.8	189
21	Negotiating a noisy, information-rich environment in search of cryptic prey: olfactory predators need patchiness in prey cues. Journal of Animal Ecology, 2011, 80, 742-752.	1.3	28
22	Activation, orientation and landing of female <i>Culex quinquefasciatus</i> in response to carbon dioxide and odour from human feet: 3-D flight analysis in a wind tunnel. Medical and Veterinary Entomology, 2011, 25, 94-103.	0.7	43
23	Sex differences in olfaction-mediated visual acuity in blowflies and its consequences for gender-specific trapping. Entomologia Experimentalis Et Applicata, 2011, 139, 25-34.	0.7	27
24	Studying sensorimotor integration in insects. Current Opinion in Neurobiology, 2011, 21, 527-534.	2.0	49
25	Animal Orientation Strategies for Movement in Flows. Current Biology, 2011, 21, R861-R870.	1.8	227
26	Potential insight for drug discovery from high-fidelity receptor-mediated transduction mechanisms in insects. Expert Opinion on Drug Discovery, 2011, 6, 1091-1101.	2.5	0
27	Attraction Modulated by Spacing of Pheromone Components and Anti-attractants in a Bark Beetle and a Moth. Journal of Chemical Ecology, 2011, 37, 899-911.	0.9	40
28	Odometry and insect navigation. Journal of Experimental Biology, 2011, 214, 1629-1641.	0.8	79
29	Moment-to-moment flight manoeuvres of the female yellow fever mosquito (<i>Aedes aegypti</i> L.) in response to plumes of carbon dioxide and human skin odour. Journal of Experimental Biology, 2011, 214, 3480-3494.	0.8	94
30	The spatial and temporal patterns of odors sampled by lobsters and crabs in a turbulent plume. Journal of Experimental Biology, 2011, 214, 3138-3153.	0.8	49
31	A Flux Capacitor for Moth Pheromones. Chemical Senses, 2012, 37, 295-298.	1.1	4
32	Floral to green: mating switches moth olfactory coding and preference. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2314-2322.	1.2	137
33	Blowfly flight characteristics are shaped by environmental features and controlled by optic flow information. Journal of Experimental Biology, 2012, 215, 2501-2514.	0.8	62
34	Searching for plausible gas sources using SIFT features. , 2012, , .		0
35	Experience-dependent modulation of antennal sensitivity and input to antennal lobes in male moths (<i>Spodoptera littoralis</i>) pre-exposed to sex pheromone. Journal of Experimental Biology, 2012, 215, 2334-2341.	0.8	37
36	Moth-inspired plume tracing via multiple autonomous vehicles under formation control. Adaptive Behavior, 2012, 20, 131-142.	1.1	22

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37	Mechanisms of Odor Coding in Coniferous Bark Beetles: From Neuron to Behavior and Application. <i>Psyche: Journal of Entomology</i> , 2012, 2012, 1-14.	0.4	27
38	Notes on pupal behaviour, eclosion, mate attraction, copulation and predation of the New Zealand glowworm <i>Arachnocampa luminosa</i> (Skuse) (Diptera: Keroplatidae), at Waitomo. <i>New Zealand Entomologist</i> , 2012, 35, 1-9.	0.3	6
39	Evaluation of low density polyethylene and nylon for delivery of synthetic mosquito attractants. <i>Parasites and Vectors</i> , 2012, 5, 202.	1.0	24
40	Visual cues collimate the trajectories of almond moth <i>Cadra cautella</i> males flying in wind and still air within a wind-formed plume of pheromone. <i>Physiological Entomology</i> , 2012, 37, 42-52.	0.6	4
41	Characterization of olfactory sensory neurons in the white clover seed weevil, <i>Apion fulvipes</i> (Coleoptera: Apionidae). <i>Journal of Insect Physiology</i> , 2012, 58, 1325-1333.	0.9	22
42	Plant odorants interfere with detection of sex pheromone signals by male <i>Heliothis virescens</i> . <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 42.	1.8	47
43	Mobile Robots for Localizing Gas Emission Sources on Landfill Sites: Is Bio-Inspiration the Way to Go?. <i>Frontiers in Neuroengineering</i> , 2011, 4, 20.	4.8	67
44	Deciding Which Way to Go: How Do Insects Alter Movements to Negotiate Barriers?. <i>Frontiers in Neuroscience</i> , 2012, 6, 97.	1.4	50
45	COMPUTATIONAL FLUID DYNAMICS SIMULATION OF HERBIVORE-INDUCED PLANT VOLATILES AROUND GREENHOUSES. <i>Acta Horticulturae</i> , 2012, , 147-154.	0.1	5
46	Pheromone production, male abundance, body size, and the evolution of elaborate antennae in moths. <i>Ecology and Evolution</i> , 2012, 2, 227-246.	0.8	59
47	Use of bilateral information to determine the walking direction during orientation to a pheromone source in the silkworm <i>Bombyx mori</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2012, 198, 295-307.	0.7	50
48	Observations on the flight paths of the day-flying moth <i>Virbia lamae</i> during periods of mate location: do males have a strategy for contacting the pheromone plume?. <i>Journal of Animal Ecology</i> , 2012, 81, 268-276.	1.3	17
49	Individual-based modelling of moth dispersal to improve biosecurity incursion response. <i>Journal of Applied Ecology</i> , 2012, 49, 287-296.	1.9	13
50	Olfactory cue use by three-spined sticklebacks foraging in turbid water: prey detection or prey location?. <i>Animal Behaviour</i> , 2012, 84, 151-158.	0.8	41
51	Active sensation during orientation behavior in the <i>Drosophila</i> larva: more sense than luck. <i>Current Opinion in Neurobiology</i> , 2012, 22, 208-215.	2.0	86
52	Smelling on the fly: sensory cues and strategies for olfactory navigation in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2012, 22, 216-222.	2.0	57
53	Olfactory ecology and the processing of complex mixtures. <i>Current Opinion in Neurobiology</i> , 2012, 22, 236-242.	2.0	29
54	Path Integration Controls Nest-Plume Following in Desert Ants. <i>Current Biology</i> , 2012, 22, 645-649.	1.8	72

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55	Egg developmental status and the complexity of synthetic kairomones combine to influence attraction behaviour in the blowfly <i>Calliphora vicina</i>. <i>Physiological Entomology</i> , 2012, 37, 127-135.	0.6	6
56	Location of and landing on a source of human body odour by female <i>Culex quinquefasciatus</i> in still and moving air. <i>Physiological Entomology</i> , 2012, 37, 153-159.	0.6	11
57	Modification of spontaneous activity patterns in the malaria vector <i>Anopheles gambiae sensu stricto</i> when presented with host-associated stimuli. <i>Physiological Entomology</i> , 2012, 37, 233-240.	0.6	9
58	Olfactory conditioning with single chemicals in the German Cockroach, <i>Blattella germanica</i> (Dictyoptera: Blattellidae). <i>Applied Entomology and Zoology</i> , 2013, 48, 387-396.	0.6	10
59	Insect density-plant density relationships: a modified view of insect responses to resource concentrations. <i>Oecologia</i> , 2013, 173, 1333-1344.	0.9	39
60	Insect-machine hybrid system for understanding and evaluating sensory-motor control by sex pheromone in <i>Bombyx mori</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 1037-1052.	0.7	13
61	Group recruitment in a thermophilic desert ant, <i>Ocymyrmex robustior</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 711-722.	0.7	6
62	Phase-Dependent Visual Control of the Zigzag Paths of Navigating Wood Ants. <i>Current Biology</i> , 2013, 23, 2393-2399.	1.8	28
63	Ants use a predictive mechanism to compensate for passive displacements by wind. <i>Current Biology</i> , 2013, 23, R1083-R1085.	1.8	35
64	Odor tracking flight of male <i>Manduca sexta</i> moths along plumes of different cross-sectional area. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 1015-1036.	0.7	25
65	Aim-then-shoot anemotaxis involved in the hopping approach of potato tuberworm moth <i>Phthorimaea operculella</i> toward a sex pheromone source. <i>Physiological Entomology</i> , 2013, 38, 292-301.	0.6	6
66	Parental misperception of youngest child size. <i>Current Biology</i> , 2013, 23, R1085-R1086.	1.8	4
67	Intensity Invariant Dynamics and Odor-Specific Latencies in Olfactory Receptor Neuron Response. <i>Journal of Neuroscience</i> , 2013, 33, 6285-6297.	1.7	122
68	Gas source localization with a micro-drone using bio-inspired and particle filter-based algorithms. <i>Advanced Robotics</i> , 2013, 27, 725-738.	1.1	183
69	How insects sense olfactory patches - the spatial scaling of olfactory information. <i>Oikos</i> , 2013, 122, 1009-1016.	1.2	39
70	Floral volatile organic compounds: Between attraction and deterrence of visitors under global change. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 56-67.	1.1	113
71	Adaptive control system of an insect brain during odor source localization. , 2013, , .		0
72	The Plume Also Rises: Trajectories of Pheromone Plumes Issuing from Point Sources in an Orchard Canopy at Night. <i>Journal of Chemical Ecology</i> , 2013, 39, 1150-1160.	0.9	22

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73	Trace conditioning in insectsâ€”keep the trace!. <i>Frontiers in Physiology</i> , 2013, 4, 67.	1.3	24
74	Long-Distance Animal Migrations in the Oceanic Environment: Orientation and Navigation Correlates. <i>ISRN Zoology</i> , 2013, 2013, 1-23.	0.5	32
75	Identifying Rhodamine Dye Plume Sources in Near-Shore Oceanic Environments by Integration of Chemical and Visual Sensors. <i>Sensors</i> , 2013, 13, 3776-3798.	2.1	10
76	A Tethered system to investigate the behavioral changes of the silk moth for chemical plume tracing. , 2013, , .		2
77	Too Fresh Is Unattractive! The Attraction of Newly Emerged <i>Nicrophorus vespilloides</i> Females to Odour Bouquets of Large Cadavers at Various Stages of Decomposition. <i>PLoS ONE</i> , 2013, 8, e58524.	1.1	30
78	Expression of a GABAB - Receptor in Olfactory Sensory Neurons of Sensilla trichodea on the Male Antenna of the Moth <i>Heliothis virescens</i> . <i>International Journal of Biological Sciences</i> , 2013, 9, 707-715.	2.6	11
79	Insect Odorant Response Sensitivity Is Tuned by Metabotropically Autoregulated Olfactory Receptors. <i>PLoS ONE</i> , 2013, 8, e58889.	1.1	71
80	Temporal Features of Spike Trains in the Moth Antennal Lobe Revealed by a Comparative Time-Frequency Analysis. <i>PLoS ONE</i> , 2014, 9, e84037.	1.1	4
81	Is there an efficient trap or collection method for sampling <i>Anopheles darlingi</i> and other malaria vectors that can describe the essential parameters affecting transmission dynamics as effectively as human landing catches? - A Review. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2014, 109, 685-705.	0.8	73
83	Changes in floral bouquets from compoundâ€™specific responses to increasing temperatures. <i>Global Change Biology</i> , 2014, 20, 3660-3669.	4.2	93
84	Mixture Processing and Odor-Object Segregation in Insects. <i>Progress in Brain Research</i> , 2014, 208, 63-85.	0.9	13
85	Precise Detection of Direct Glomerular Input Duration by the Olfactory Bulb. <i>Journal of Neuroscience</i> , 2014, 34, 16058-16064.	1.7	71
86	Reactive Searching and Infotaxis in Odor Source Localization. <i>PLoS Computational Biology</i> , 2014, 10, e1003861.	1.5	63
87	Trapping and the Detection, Control, and Regulation of Tephritid Fruit Flies. , 2014, , .		45
88	Odor Landscapes in Turbulent Environments. <i>Physical Review X</i> , 2014, 4, .	2.8	93
89	Questing activity in bed bug populations: male and female responses to host signals. <i>Physiological Entomology</i> , 2014, 39, 199-207.	0.6	28
90	Information flow through neural circuits for pheromone orientation. <i>Nature Communications</i> , 2014, 5, 5919.	5.8	65
91	Scene perception and the visual control of travel direction in navigating wood ants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130035.	1.8	29

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92	Responses to Pheromones in a Complex Odor World: Sensory Processing and Behavior. <i>Insects</i> , 2014, 5, 399-422.	1.0	40
93	Plume-Tracking Behavior of Flying <i>Drosophila</i> Emerges from a Set of Distinct Sensory-Motor Reflexes. <i>Current Biology</i> , 2014, 24, 274-286.	1.8	186
94	Plant odour plumes as mediators of plant–insect interactions. <i>Biological Reviews</i> , 2014, 89, 68-81.	4.7	115
96	Desert Ants Locate Food by Combining High Sensitivity to Food Odors with Extensive Crosswind Runs. <i>Current Biology</i> , 2014, 24, 960-964.	1.8	84
97	Death Valley, <i>Drosophila</i> , and the Devonian Toolkit. <i>Annual Review of Entomology</i> , 2014, 59, 51-72.	5.7	75
98	Behavioral Assays for Studies of Host Plant Choice and Adaptation in Herbivorous Insects. <i>Annual Review of Entomology</i> , 2014, 59, 263-278.	5.7	139
99	One rhinophore likely provides sufficient sensory input for odour-based navigation by the nudibranch mollusc, <i>Tritonia diomedea</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 4149-58.	0.8	8
100	Visual ground pattern modulates flight speed of male Oriental fruit moth <i>Grapholita molesta</i> . <i>Physiological Entomology</i> , 2014, 39, 271-279.	0.6	6
101	Blow fly responses to semiochemicals produced by decaying carcasses. <i>Medical and Veterinary Entomology</i> , 2014, 28, 26-34.	0.7	19
103	Frequency-dependent flight activity in the colour polymorphic wood tiger moth. <i>Environmental Epigenetics</i> , 2015, 61, 765-772.	0.9	18
105	Attractiveness of host volatiles combined with background visual cues to the tea leafhopper, <i>Empoasca vitis</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 291-299.	0.7	13
106	Extracting Social Information from Chemosensory Cues: Consideration of Several Scenarios and Their Functional Implications. <i>Frontiers in Neuroscience</i> , 2015, 9, 439.	1.4	6
107	Unexpected plant odor responses in a moth pheromone system. <i>Frontiers in Physiology</i> , 2015, 6, 148.	1.3	30
108	Dynamical feature extraction at the sensory periphery guides chemotaxis. <i>ELife</i> , 2015, 4, .	2.8	107
109	Identification of Caraganaplant volatiles, overlapping profiles, and olfactory attraction to <i>Chlorophorus caraganai</i> in the laboratory. <i>Journal of Plant Interactions</i> , 2015, 10, 41-50.	1.0	12
110	Modeling Optimal Strategies for Finding a Resource-Linked, Windborne Odor Plume: Theories, Robotics, and Biomimetic Lessons from Flying Insects. <i>Integrative and Comparative Biology</i> , 2015, 55, 461-477.	0.9	33
111	Spatial memory-based behaviors for locating sources of odor plumes. <i>Movement Ecology</i> , 2015, 3, 11.	1.3	23
112	The Mathematics of Female Pheromone Signaling: Strategies for Aging Virgins. <i>American Naturalist</i> , 2015, 185, 417-432.	1.0	61

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113	The Role of Olfactory Cues for the Search Behavior of a Specialist and Generalist Butterfly. <i>Journal of Insect Behavior</i> , 2015, 28, 77-87.	0.4	24
114	Desert ants use olfactory scenes for navigation. <i>Animal Behaviour</i> , 2015, 106, 99-105.	0.8	51
115	Olfactory signal coding in an odor background. <i>BioSystems</i> , 2015, 136, 35-45.	0.9	16
116	Learning to Rapidly Re-Contact the Lost Plume in Chemical Plume Tracing. <i>Sensors</i> , 2015, 15, 7512-7536.	2.1	5
117	Coarse topographic organization of pheromone-sensitive afferents from different antennal surfaces in the American cockroach. <i>Neuroscience Letters</i> , 2015, 595, 35-40.	1.0	7
118	Interplay between insects and plants: dynamic and complex interactions that have coevolved over millions of years but act in milliseconds. <i>Journal of Experimental Botany</i> , 2015, 66, 455-465.	2.4	117
119	Chemical Ecology in Insects. , 2016, , 29-45.		5
120	The Rate of Concentration Change and How It Determines the Resolving Power of Olfactory Receptor Neurons. <i>Frontiers in Physiology</i> , 2016, 7, 645.	1.3	7
121	Mice Develop Efficient Strategies for Foraging and Navigation Using Complex Natural Stimuli. <i>Current Biology</i> , 2016, 26, 1261-1273.	1.8	98
122	Ozone degrades floral scent and reduces pollinator attraction to flowers. <i>New Phytologist</i> , 2016, 209, 152-160.	3.5	106
123	Intracellular regulation of the insect chemoreceptor complex impacts odor localization in flying insects. <i>Journal of Experimental Biology</i> , 2016, 219, 3428-3438.	0.8	37
124	Genetic mapping of male pheromone response in the European corn borer identifies candidate genes regulating neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6401-E6408.	3.3	20
125	On the Air: Broadcasting and Reception of Volatile Messages in Brood-Site Pollination Mutualisms. <i>Signaling and Communication in Plants</i> , 2016, , 227-255.	0.5	9
126	Deciphering Chemical Language of Plant Communication. <i>Signaling and Communication in Plants</i> , 2016, , .	0.5	18
127	Innate olfactory preferences for flowers matching proboscis length ensure optimal energy gain in a hawkmoth. <i>Nature Communications</i> , 2016, 7, 11644.	5.8	48
128	Insect-controlled Robot: A Mobile Robot Platform to Evaluate the Odor-tracking Capability of an Insect. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	10
129	Visualization of house-entry behaviour of malaria mosquitoes. <i>Malaria Journal</i> , 2016, 15, 233.	0.8	24
130	Host Habitat Volatiles Enhance the Olfactory Response of the Larval Parasitoid <i>Holepyris sylvanidis</i> to Specifically Host-Associated Cues. <i>Chemical Senses</i> , 2016, 41, bjw065.	1.1	15

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131	Movement and egg laying in Monarchs: To move or not to move, that is the equation. <i>Austral Ecology</i> , 2016, 41, 154-167.	0.7	64
132	Conspecific females promote calling behavior in the noctuid moth, <i>Pseudaletia adultera</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2016, 159, 362-369.	0.7	15
133	Multi-agent search for source localization in a turbulent medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1698-1705.	0.9	50
134	The neurobiological basis of orientation in insects: insights from the silkmoth mating dance. <i>Current Opinion in Insect Science</i> , 2016, 15, 16-26.	2.2	46
135	Adaptive Processing in the Insect Olfactory System. , 2016, , 3-24.		11
136	Use of habitat odour by host-seeking insects. <i>Biological Reviews</i> , 2017, 92, 1241-1249.	4.7	98
137	Effects of wind, ambient temperature and sun position on damselfly flight activity and perch orientation. <i>Animal Behaviour</i> , 2017, 124, 175-181.	0.8	10
138	Synthetic blend of larval frass volatiles repel oviposition in the invasive box tree moth, <i>Cydalima perspectalis</i> . <i>Journal of Pest Science</i> , 2017, 90, 873-885.	1.9	24
139	Flight behavior and oviposition of <i>Tuta absoluta</i> on susceptible and resistant genotypes of <i>Solanum lycopersicum</i> . <i>Arthropod-Plant Interactions</i> , 2017, 11, 567-575.	0.5	11
140	Herbivore-induced plant volatiles and tritrophic interactions across spatial scales. <i>New Phytologist</i> , 2017, 216, 1054-1063.	3.5	147
141	Windscaapes and olfactory foraging in a large carnivore. <i>Scientific Reports</i> , 2017, 7, 46332.	1.6	48
142	Maximizing Information Yield From Pheromone-Baited Monitoring Traps: Estimating Plume Reach, Trapping Radius, and Absolute Density of <i>Cydia pomonella</i> (Lepidoptera: Tortricidae) in Michigan Apple. <i>Journal of Economic Entomology</i> , 2017, 110, tow258.	0.8	34
143	Multisensory neural integration of chemical and mechanical signals. <i>BioEssays</i> , 2017, 39, 1700060.	1.2	8
144	The Effect of Wind Exposure on the Web Characteristics of a Tetragnathid Orb Spider. <i>Journal of Insect Behavior</i> , 2017, 30, 273-286.	0.4	13
145	Antennal mechanosensors mediate sex pheromone-induced upwind orientation in the potato tuberworm moth. <i>Physiological Entomology</i> , 2017, 42, 113-124.	0.6	4
146	Colour as a backup for scent in the presence of olfactory noise: testing the efficacy backup hypothesis using bumblebees (<i>Bombus terrestris</i>). <i>Royal Society Open Science</i> , 2017, 4, 170996.	1.1	46
147	A Background of a Volatile Plant Compound Alters Neural and Behavioral Responses to the Sex Pheromone Blend in a Moth. <i>Frontiers in Physiology</i> , 2017, 8, 79.	1.3	17
148	Chemical Signatures in Plant-Insect Interactions. <i>Advances in Botanical Research</i> , 2017, , 139-177.	0.5	12

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149	An olfactory virtual reality system for mice. <i>Nature Communications</i> , 2018, 9, 839.	5.8	75
150	Olfaction, experience and neural mechanisms underlying mosquito host preference. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	53
151	Comparison of Attraction and Trapping Capabilities of Bucket- and Delta-Style Traps With Different Pheromone Emission Rates for Gypsy Moths (Lepidoptera: Erebidæ): Implications for Understanding Range of Attraction and Utility in Surveillance. <i>Environmental Entomology</i> , 2018, 47, 107-113.	0.7	17
152	Eco-friendly pheromone dispensers“a green route to manage the European grapevine moth?. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9426-9442.	2.7	36
153	Entotaxis as a strategy for autonomous search and source reconstruction in turbulent conditions. <i>Information Fusion</i> , 2018, 42, 179-189.	11.7	65
154	Predicting monarch butterfly (<i>Danaus plexippus</i>) movement and egg-laying with a spatially-explicit agent-based model: The role of monarch perceptual range and spatial memory. <i>Ecological Modelling</i> , 2018, 374, 37-50.	1.2	89
155	The optimal movement patterns for mating encounters with sexually asymmetric detection ranges. <i>Scientific Reports</i> , 2018, 8, 3356.	1.6	11
156	Molecular elements of pheromone detection in the female moth, <i>Heliiothis virescens</i> . <i>Insect Science</i> , 2018, 25, 389-400.	1.5	9
157	Access to the odor world: olfactory receptors and their role for signal transduction in insects. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 485-508.	2.4	233
158	Plant Volatiles as Mate-Finding Cues for Insects. <i>Trends in Plant Science</i> , 2018, 23, 100-111.	4.3	124
159	Behavioral responses of <i>Frankliniella occidentalis</i> to floral volatiles combined with different background visual cues. <i>Arthropod-Plant Interactions</i> , 2018, 12, 31-39.	0.5	15
161	How house design affects malaria mosquito density, temperature, and relative humidity: an experimental study in rural Gambia. <i>Lancet Planetary Health</i> , The, 2018, 2, e498-e508.	5.1	58
162	Prevention of malaria transmission around reservoirs: an observational and modelling study on the effect of wind direction and village location. <i>Lancet Planetary Health</i> , The, 2018, 2, e406-e413.	5.1	12
163	A Wind Tunnel for Odor Mediated Insect Behavioural Assays. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	5
164	What Can Computational Modeling Tell Us about the Diversity of Odor-Capture Structures in the Pancrustacea?. <i>Journal of Chemical Ecology</i> , 2018, 44, 1084-1100.	0.9	19
165	Algorithms for Olfactory Search across Species. <i>Journal of Neuroscience</i> , 2018, 38, 9383-9389.	1.7	117
166	Flight behaviour of malaria mosquitoes around odour-baited traps: capture and escape dynamics. <i>Royal Society Open Science</i> , 2018, 5, 180246.	1.1	27
167	A balance between aerodynamic and olfactory performance during flight in <i>Drosophila</i> . <i>Nature Communications</i> , 2018, 9, 3215.	5.8	29

#	ARTICLE	IF	CITATIONS
168	How do animals find their way back home? A brief overview of homing behavior with special reference to social Hymenoptera. <i>Insectes Sociaux</i> , 2018, 65, 521-536.	0.7	17
169	Information-theoretic analysis of realistic odor plumes: What cues are useful for determining location?. <i>PLoS Computational Biology</i> , 2018, 14, e1006275.	1.5	43
170	Concerted pulsatile and graded neural dynamics enables efficient chemotaxis in <i>C. elegans</i> . <i>Nature Communications</i> , 2018, 9, 2866.	5.8	32
171	Modelling and observing the role of wind in <i>Anopheles</i> population dynamics around a reservoir. <i>Malaria Journal</i> , 2018, 17, 48.	0.8	15
172	Keeping track of mosquitoes: a review of tools to track, record and analyse mosquito flight. <i>Parasites and Vectors</i> , 2018, 11, 123.	1.0	34
173	Moth-inspired navigation algorithm in a turbulent odor plume from a pulsating source. <i>PLoS ONE</i> , 2018, 13, e0198422.	1.1	17
174	History dependence in insect flight decisions during odor tracking. <i>PLoS Computational Biology</i> , 2018, 14, e1005969.	1.5	47
175	Orientation, Navigation, and Search. , 2019, , 290-300.		0
176	Intraspecific variation in herbivore-induced plant volatiles influences the spatial range of plant-parasitoid interactions. <i>Oikos</i> , 2019, 128, 77-86.	1.2	31
177	Tools in the Investigation of Volatile Semiochemicals on Insects: From Sampling to Statistical Analysis. <i>Insects</i> , 2019, 10, 241.	1.0	19
178	Insect Odorscapes: From Plant Volatiles to Natural Olfactory Scenes. <i>Frontiers in Physiology</i> , 2019, 10, 972.	1.3	132
179	Perceptual Range, Targeting Ability, and Visual Habitat Detection by Greater Fritillary Butterflies <i>Speyeria cybele</i> (Lepidoptera: Nymphalidae) and <i>Speyeria atlantis</i> . <i>Journal of Insect Science</i> , 2019, 19, .	0.6	11
180	Ectoparasite Behavior. , 2019, , 653-657.		0
181	Mutagenesis of odorant coreceptor <i>Orco</i> fully disrupts foraging but not oviposition behaviors in the hawkmoth <i>Manduca sexta</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15677-15685.	3.3	80
182	Factors Affecting Short-Range Host-Seeking for the Yellow Fever Mosquito (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2019, 56, 609-616.	0.9	5
183	Food-derived volatiles enhance consumption in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	9
184	Molecular Mechanism of Insect Olfaction: Olfactory Receptors. , 2019, , 93-114.		10
185	Floral volatiles and visitors: A meta-network of associations in a natural community. <i>Journal of Ecology</i> , 2019, 107, 2574-2586.	1.9	37

#	ARTICLE	IF	CITATIONS
186	Olfactory Navigation and the Receptor Nonlinearity. <i>Journal of Neuroscience</i> , 2019, 39, 3713-3727.	1.7	19
187	Cold treatment enhances low-temperature flight performance in false codling moth, <i>Thaumatotibia leucotreta</i> (Lepidoptera: Tortricidae). <i>Agricultural and Forest Entomology</i> , 2019, 21, 243-251.	0.7	7
188	Encoding of Wind Direction by Central Neurons in <i>Drosophila</i> . <i>Neuron</i> , 2019, 102, 828-842.e7.	3.8	77
189	Invertebrate Pheromones: Models for Neuroethology. , 2019, , 31-39.		1
190	Nocturnal navigation by whip spiders: antenniform legs mediate near-distance olfactory localization of a shelter. <i>Animal Behaviour</i> , 2019, 149, 45-54.	0.8	16
191	Chemical Plume Tracing using an AUV based on POMDP Source Mapping and A-star Path Planning. , 2019, , .		6
192	Odor Stimuli: Not Just Chemical Identity. <i>Frontiers in Physiology</i> , 2019, 10, 1428.	1.3	40
193	Effects of wind speed on background herbivory of an insect herbivore. <i>Ecoscience</i> , 2020, 27, 71-76.	0.6	4
194	Cooperative information-driven source search and estimation for multiple agents. <i>Information Fusion</i> , 2020, 54, 72-84.	11.7	36
195	Mini-brain computations converting dynamic olfactory inputs into orientation behavior. <i>Current Opinion in Neurobiology</i> , 2020, 64, 1-9.	2.0	9
196	Moth Mating: Modeling Female Pheromone Calling and Male Navigational Strategies to Optimize Reproductive Success. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6543.	1.3	13
197	Using virtual worlds to understand insect navigation for bio-inspired systems. <i>Current Opinion in Insect Science</i> , 2020, 42, 97-104.	2.2	4
198	Floral Scent Composition and Fine-Scale Timing in Two Moth-Pollinated Hawaiian <i>Schiedea</i> (Caryophyllaceae). <i>Frontiers in Plant Science</i> , 2020, 11, 1116.	1.7	13
199	Olfactory-Based Navigation via Model-Based Reinforcement Learning and Fuzzy Inference Methods. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 3014-3027.	6.5	11
200	Can Mating Disruption Be a Possible Route to Control Plum Fruit Moth in Mediterranean Environments?. <i>Insects</i> , 2020, 11, 589.	1.0	8
201	Understanding biological plume tracking behavior using deep reinforcement-learning. , 2020, , .		1
202	Use of semiochemicals for surveillance and control of hematophagous insects. <i>Chemoecology</i> , 2020, 30, 277-286.	0.6	21
203	Lure, retain, and catch malaria mosquitoes. How heat and humidity improve odour-baited trap performance. <i>Malaria Journal</i> , 2020, 19, 357.	0.8	16

#	ARTICLE	IF	CITATIONS
204	Effect of Collection Month, Visible Light, and Air Movement on the Attraction of Male <i>Agriotes obscurus</i> L. (Coleoptera: Elateridae) Click Beetles to Female Sex Pheromone. <i>Insects</i> , 2020, 11, 729.	1.0	3
205	Characterizing long-range search behavior in Diptera using complex 3D virtual environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12201-12207.	3.3	33
206	Odor tracking in aquatic organisms: the importance of temporal and spatial intermittency of the turbulent plume. <i>Scientific Reports</i> , 2020, 10, 7961.	1.6	20
207	Automatic tracking of free-flying insects using a cable-driven robot. <i>Science Robotics</i> , 2020, 5, .	9.9	17
209	Odors: from chemical structures to gaseous plumes. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 111, 19-29.	2.9	7
210	Evaluation of d-Limonene and β -Ocimene as Attractants of <i>Aphytis melinus</i> (Hymenoptera: Aphelinidae), a Parasitoid of <i>Aonidiella aurantii</i> (Hemiptera: Diaspididae) on <i>Citrus</i> spp.. <i>Insects</i> , 2020, 11, 44.	1.0	21
211	Identification and evaluation of four cucurbitaceous host plant volatiles attractive to <i>Diaphania indica</i> (Saunders) (Lep.: Pyralidae). <i>Chemoecology</i> , 2020, 30, 173-182.	0.6	10
212	Multimodal interactions in insect navigation. <i>Animal Cognition</i> , 2020, 23, 1129-1141.	0.9	68
213	Mouse Navigation Strategies for Odor Source Localization. <i>Frontiers in Neuroscience</i> , 2020, 14, 218.	1.4	30
214	Dynamics of sensory integration of olfactory and mechanical stimuli within the response patterns of moth antennal lobe neurons. <i>Journal of Theoretical Biology</i> , 2021, 509, 110510.	0.8	11
215	Diel activity patterns and arrestment behaviour in host associations of green mirids (Creontiades) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	1
216	Navigation Along Windborne Plumes of Pheromone and Resource-Linked Odors. <i>Annual Review of Entomology</i> , 2021, 66, 317-336.	5.7	26
217	Plant Volatiles and Their Role in Insect Olfaction. , 2021, , 127-156.		5
218	Spatial information from the odour environment in mammalian olfaction. <i>Cell and Tissue Research</i> , 2021, 383, 473-483.	1.5	27
220	Role of fruit volatiles of different guava varieties in attraction and oviposition behaviors of peach fruit fly, <i>Bactrocera zonata</i> Saunders. <i>Arthropod-Plant Interactions</i> , 2021, 15, 95-106.	0.5	4
221	Olfactory tracking strategies in a neotropical fruit bat. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	6
223	Prolonged activation of carbon dioxide-sensitive neurons in mosquitoes. <i>Interface Focus</i> , 2021, 11, 20200043.	1.5	3
224	<i>Orius similis</i> (Hemiptera: Anthocoridae): A Promising Candidate Predator of <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 2021, 114, 582-589.	0.8	12

#	ARTICLE	IF	CITATIONS
225	Calmodulin regulates the olfactory performance in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2021, 11, 3747.	1.6	17
226	Flow-mediated olfactory communication in honeybee swarms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
227	Mosquito Host Seeking in 3D Using a Versatile Climate-Controlled Wind Tunnel System. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 643693.	1.0	8
228	Spatial odor discrimination in the hawkmoth, <i>Manduca sexta</i> (L.). <i>Biology Open</i> , 2021, 10, .	0.6	3
229	The seasonal dynamic of <i>Tuta absoluta</i> in <i>Solanum lycopersicon</i> cultivation: Contributions of climate, plant phenology, and insecticide spraying. <i>Pest Management Science</i> , 2021, 77, 3187-3197.	1.7	3
230	Use of odor by host-finding insects: the role of real-time odor environment and odor mixing degree. <i>Chemoecology</i> , 2021, 31, 149-158.	0.6	10
231	Spatial, but not temporal, aspects of orientation are controlled by the fine-scale distribution of chemical cues in turbulent odor plumes. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	6
232	Plant Volatiles and Oviposition Behavior in the Selection of Barley Cultivars by Wheat Stem Sawfly (Hymenoptera: Cephidae). <i>Environmental Entomology</i> , 2021, 50, 940-947.	0.7	5
233	Mating Disruption for Managing the Honeydew Moth, <i>Cryptoblabes gnidiella</i> (Millière), in Mediterranean Vineyards. <i>Insects</i> , 2021, 12, 390.	1.0	2
235	Distinct protocerebral neuropils associated with attractive and aversive female-produced odorants in the male moth brain. <i>ELife</i> , 2021, 10, .	2.8	8
236	Latest Developments in Insect Sex Pheromone Research and Its Application in Agricultural Pest Management. <i>Insects</i> , 2021, 12, 484.	1.0	60
237	Host preference of <i>Thrips hawaiiensis</i> for different ornamental plants. <i>Journal of Pest Science</i> , 2022, 95, 761-770.	1.9	2
238	Estimating Perceptual Range of Female Monarch Butterflies (<i>Danaus plexippus</i>) to Potted Vegetative Common Milkweed (<i>Asclepias syriaca</i>) and Blooming Nectar Resources. <i>Environmental Entomology</i> , 2021, 50, 1028-1036.	0.7	7
239	The influence of stimulus duration on olfactory perception. <i>PLoS ONE</i> , 2021, 16, e0252931.	1.1	1
241	Consensus driven by a minority in heterogeneous groups of the cockroach <i>Periplaneta americana</i> . <i>IScience</i> , 2021, 24, 102723.	1.9	7
242	Principles of odor coding in vertebrates and artificial chemosensory systems. <i>Physiological Reviews</i> , 2022, 102, 61-154.	13.1	34
244	Circadian rhythms of insect pheromone titer, calling, emission, and response: a review. <i>Die Naturwissenschaften</i> , 2021, 108, 35.	0.6	20
245	The routes of one-eyed ants suggest a revised model of normal route following. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	6

#	ARTICLE	IF	CITATIONS
246	Predator cue-induced plasticity of morphology and behavior in planthoppers facilitate the survival from predation. <i>Scientific Reports</i> , 2021, 11, 16760.	1.6	11
247	A unified mechanism for innate and learned visual landmark guidance in the insect central complex. <i>PLoS Computational Biology</i> , 2021, 17, e1009383.	1.5	28
248	Open-source computational simulation of moth-inspired navigation algorithm: A benchmark framework. <i>MethodsX</i> , 2021, 8, 101529.	0.7	4
250	Multiscale timing of pheromone transduction in hawkmoth olfactory receptor neurons. , 2021, , 435-468.		1
251	The Critical Role of Head Movements for Spatial Representation During Bumblebees Learning Flight. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 606590.	1.0	9
252	Adaptive temporal processing of odor stimuli. <i>Cell and Tissue Research</i> , 2021, 383, 125-141.	1.5	9
253	Enhancement of Natural Control Function for Aphids by Intercropping and Infochemical Releasers in Wheat Ecosystem. <i>Progress in Biological Control</i> , 2020, , 85-116.	0.5	4
254	From Insects to Micro Air Vehicles—A Comparison of Reactive Plume Tracking Strategies. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 1533-1548.	0.5	15
255	Spatial and Temporal Dynamics of Arthropods in Arable Fields. , 2010, , 51-64.		8
256	Ectoparasite Behavior. , 2010, , 596-600.		1
267	Pheromones and General Odor Perception in Insects. <i>Frontiers in Neuroscience</i> , 2014, , 23-56.	0.0	32
269	Olfactory coding in the turbulent realm. <i>PLoS Computational Biology</i> , 2017, 13, e1005870.	1.5	22
270	Synthetic sex-aggregation pheromone of <i>Lutzomyia longipalpis</i> , the South American sand fly vector of <i>Leishmania infantum</i> , attracts males and females over long-distance. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008798.	1.3	9
271	A General Odorant Background Affects the Coding of Pheromone Stimulus Intermittency in Specialist Olfactory Receptor Neurons. <i>PLoS ONE</i> , 2011, 6, e26443.	1.1	31
272	The Speed of Smell: Odor-Object Segregation within Milliseconds. <i>PLoS ONE</i> , 2012, 7, e36096.	1.1	76
273	Automated Tracking of Animal Posture and Movement during Exploration and Sensory Orientation Behaviors. <i>PLoS ONE</i> , 2012, 7, e41642.	1.1	76
274	A 3D Analysis of Flight Behavior of <i>Anopheles gambiae sensu stricto</i> Malaria Mosquitoes in Response to Human Odor and Heat. <i>PLoS ONE</i> , 2013, 8, e62995.	1.1	79
275	Olfaction Contributes to Pelagic Navigation in a Coastal Shark. <i>PLoS ONE</i> , 2016, 11, e0143758.	1.1	25

#	ARTICLE	IF	CITATIONS
276	Electrophysiological and behavioural responses of female <i>Isoceras sibirica</i> (Lepidoptera: Cossidae) to volatiles produced by the plant, <i>Asparagus officinalis</i> . <i>European Journal of Entomology</i> , 0, 114, 101-105.	1.2	3
277	Oviposition preference and olfactory response of <i>Diaphania indica</i> (Lepidoptera: Pyralidae) to volatiles of uninfested and infested cucurbitaceous host plants. <i>European Journal of Entomology</i> , 0, 116, 392-401.	1.2	6
278	Robust and Rapid Air-Borne Odor Tracking without Casting. <i>ENeuro</i> , 2015, 2, ENEURO.0102-15.2015.	0.9	35
279	A Comparison between Mouse, <i>In Silico</i> , and Robot Odor Plume Navigation Reveals Advantages of Mouse Odor Tracking. <i>ENeuro</i> , 2020, 7, ENEURO.0212-19.2019.	0.9	17
280	Odor-identity dependent motor programs underlie behavioral responses to odors. <i>ELife</i> , 2015, 4, .	2.8	39
281	Continuous lateral oscillations as a core mechanism for taxis in <i>Drosophila</i> larvae. <i>ELife</i> , 2016, 5, .	2.8	51
282	Olfactory receptor neurons use gain control and complementary kinetics to encode intermittent odorant stimuli. <i>ELife</i> , 2017, 6, .	2.8	80
283	Antagonism in olfactory receptor neurons and its implications for the perception of odor mixtures. <i>ELife</i> , 2018, 7, .	2.8	72
284	Elementary sensory-motor transformations underlying olfactory navigation in walking fruit-flies. <i>ELife</i> , 2018, 7, .	2.8	103
285	Front-end Weber-Fechner gain control enhances the fidelity of combinatorial odor coding. <i>ELife</i> , 2019, 8, .	2.8	15
286	Walking <i>Drosophila</i> navigate complex plumes using stochastic decisions biased by the timing of odor encounters. <i>ELife</i> , 2020, 9, .	2.8	59
287	Encoding and control of orientation to airflow by a set of <i>Drosophila</i> fan-shaped body neurons. <i>ELife</i> , 2020, 9, .	2.8	43
288	Flying bats use serial sampling to locate odour sources. <i>Biology Letters</i> , 2021, 17, 20210430.	1.0	10
289	Decreased reproductive fitness of <i>Dysdercus koenigii</i> Fabricius (Heteroptera: Pyrrhocoreidae) in response to hexane leaf extract of <i>Ocimum sanctum</i> Linn. (Lamiaceae). <i>International Journal of Tropical Insect Science</i> , 0, , 1.	0.4	1
290	Changes in gaseous concentration of alkylpyrazine analogs affect mouse avoidance behavior. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 2343-2351.	0.6	0
291	Visual and olfactory preferences of <i>Frankliniella occidentalis</i> (Thysanoptera: Thripidae) for color and volatiles of different <i>Rosa chinensis</i> (Rosales: Rosaceae) cultivars. <i>Oriental Insects</i> , 0, , 1-17.	0.1	1
292	A connectome of the <i>Drosophila</i> central complex reveals network motifs suitable for flexible navigation and context-dependent action selection. <i>ELife</i> , 2021, 10, .	2.8	168
293	Influence of habitat quality and resource density on breeding-season female monarch butterfly <i>Danaus plexippus</i> movement and space use in north-central USA agroecosystem landscapes. <i>Journal of Applied Ecology</i> , 2022, 59, 431-443.	1.9	8

#	ARTICLE	IF	CITATIONS
294	Effects of Mechanosensory Input on the Tracking of Pulsatile Odor Stimuli by Moth Antennal Lobe Neurons. <i>Frontiers in Neuroscience</i> , 2021, 15, 739730.	1.4	7
296	Modeling Trapping of Fruit Flies for Detection, Suppression, or Eradication. , 2014, , 379-420.		1
305	Effects of indoor air movement and ambient temperature on mosquito (<i>Anopheles gambiae</i>) behaviour around bed nets: implications for malaria prevention initiatives. <i>Malaria Journal</i> , 2021, 20, 427.	0.8	6
306	Variability in human attractiveness to mosquitoes. <i>Current Research in Parasitology and Vector-borne Diseases</i> , 2021, 1, 100058.	0.7	10
307	Brain Premotor Centers for Pheromone Orientation Behavior. <i>Entomology Monographs</i> , 2020, , 243-264.	0.6	1
309	Showier plants host more larvae: distribution and movement of generalist caterpillars among plants in the field. <i>Ecological Entomology</i> , 2021, 46, 514-524.	1.1	0
310	Olfactory lures in predator control do not increase predation risk to birds in areas of conservation concern. <i>Wildlife Research</i> , 2022, 49, 183-192.	0.7	1
312	Olfactory Sensing and Navigation in Turbulent Environments. <i>Annual Review of Condensed Matter Physics</i> , 2022, 13, 191-213.	5.2	35
313	Location of and landing on a source of human body odour by female <i>Culex quinquefasciatus</i> in still and moving air. <i>Physiological Entomology</i> , 2012, 37, 153-159.	0.6	2
315	Host plant acceptance in a generalist insect: threshold, feedback or choice?. <i>Behaviour</i> , 2020, 157, 1059-1089.	0.4	2
316	Learning a Generic Olfactory Search Strategy From Silk Moths by Deep Inverse Reinforcement Learning. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 241-253.	2.1	0
317	3-Dimensional Hydrothermal Vent Localization Based on Chemical Plume Tracing. , 2020, , .		0
318	Sensing complementary temporal features of odor signals enhances navigation of diverse turbulent plumes. <i>ELife</i> , 2022, 11, .	2.8	14
319	The role of food odor in invertebrate foraging. <i>Genes, Brain and Behavior</i> , 2022, 21, e12793.	1.1	9
320	Predicting and Manipulating Cone Responses to Naturalistic Inputs. <i>Journal of Neuroscience</i> , 2022, 42, 1254-1274.	1.7	10
323	Multimodal Information Processing and Associative Learning in the Insect Brain. <i>Insects</i> , 2022, 13, 332.	1.0	9
324	Time-Dependent Odorant Sensitivity Modulation in Insects. <i>Insects</i> , 2022, 13, 354.	1.0	5
325	Acute ozone exposure impairs detection of floral odor, learning, and memory of honey bees, through olfactory generalization. <i>Science of the Total Environment</i> , 2022, 827, 154342.	3.9	20

#	ARTICLE	IF	CITATIONS
326	Morphology of the Olfactory Organ in the Climbing Perch (<i>Anabas testudineus</i> , Anabantidae.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742</i>	0.1	7
327	Effects of floor pattern on flight behaviour of the smaller tea tortrix, <i>Adoxophyes honmai</i> , during orientation flight in a sex pheromone plume. <i>Physiological Entomology</i> , 2022, 47, 96-109.	0.6	0
328	A Nonlinear Observability Analysis of Ambient Wind Estimation with Uncalibrated Sensors, Inspired by Insect Neural Encoding. , 2021, , .		6
329	Variation in the ratio of compounds in a plant volatile blend during transmission by wind. <i>Scientific Reports</i> , 2022, 12, 6176.	1.6	5
337	Aeroscapes and the Sensory Ecology of Olfaction in a Tropical Dry Forest. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	3
338	Understanding costs and benefits of thermal plasticity for pest management: insights from the integration of laboratory, semi-field and field assessments of <i>Ceratitis capitata</i> (Diptera:) <i>Tj ETQq1 1 0.784304rgBT /Overlock 10</i>		10
339	Primacy of Human Odors Over Visual and Heat Cues in Inducing Landing in Female <i>Aedes aegypti</i> Mosquitoes. <i>Journal of Insect Behavior</i> , 2022, 35, 31-43.	0.4	6
340	Odor-Pollution From Fungicides Disrupts Learning and Recognition of a Common Floral Scent in Bumblebees (<i>Bombus impatiens</i>). <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	7
341	Deconstructing and contextualizing foraging behavior in bumble bees and other central place foragers. <i>Apidologie</i> , 2022, 53, .	0.9	5
342	Information about space from time: how mammals navigate the odour landscape. <i>Neuroforum</i> , 2022, .	0.2	1
343	Insect-inspired AI for autonomous robots. <i>Science Robotics</i> , 2022, 7, .	9.9	42
344	Modelling ectotherms' populations considering physiological age structure and spatial motion: A novel approach. <i>Ecological Informatics</i> , 2022, 70, 101703.	2.3	8
345	Floral and Bird Excreta Semiochemicals Attract Western Carpenter Ants. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	2
346	The Ability of Bumblebees <i>Bombus terrestris</i> (Hymenoptera: Apidae) to Detect Floral Humidity is Dependent Upon Environmental Humidity. <i>Environmental Entomology</i> , 2022, 51, 1010-1019.	0.7	3
348	The combined role of visual and olfactory cues in foraging by <i>Cataglyphis</i> ants in laboratory mazes. <i>Environmental Epigenetics</i> , 0, , .	0.9	0
349	A neural circuit for wind-guided olfactory navigation. <i>Nature Communications</i> , 2022, 13, .	5.8	43
350	A central place foraging seabird flies at right angles to the wind to jointly optimize locomotor and olfactory search efficiency. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, .	1.2	9
352	A Neural Model for Insect Steering Applied to Olfaction and Path Integration. <i>Neural Computation</i> , 2022, 34, 2205-2231.	1.3	7

#	ARTICLE	IF	CITATIONS
353	<i>Rosa chinensis</i> Cultivars Affect Fitness-Related Characteristics and Digestive Physiology of the Western Flower Thrips, <i>Frankliniella occidentalis</i> Pergande (Thysanoptera: Thripidae). Journal of Economic Entomology, 0, , .	0.8	2
354	Gas Source Localization Using Bio-inspired Algorithm for Mini Flying Sniffer Robot: Development and Experimental Investigation. Computer Engineering and Applications Journal, 2020, 9, 207-214.	0.2	1
355	Experimental and theoretical probe on mechano- and chemosensory integration in the insect antennal lobe. Frontiers in Physiology, 0, 13, .	1.3	0
356	Aversive Bimodal Associations Differently Impact Visual and Olfactory Memory Performance in <i>Drosophila</i> . IScience, 2022, 25, 105485.	1.9	4
357	Sensorimotor ecology of the insect antenna: Active sampling by a multimodal sensory organ. Advances in Insect Physiology, 2022, , 1-105.	1.1	2
358	Monarch Butterfly Ecology, Behavior, and Vulnerabilities in North Central United States Agricultural Landscapes. BioScience, 2022, 72, 1176-1203.	2.2	6
359	Gravid <i>Periplaneta americana</i> (Blattodea: Blattidae) Fails to Detect or Respond to the Presence of the Oothecal Parasitoid <i>Aprostocetus hagenowii</i> (Hymenoptera: Eulophidae). Environmental Entomology, 2022, 51, 1086-1093.	0.7	1
360	Linalool: A ubiquitous floral volatile mediating the communication between plants and insects. Journal of Systematics and Evolution, 2023, 61, 538-549.	1.6	6
362	Chapter 19: Vision in mosquitoes. , 2022, , 511-533.		7
363	Behavioral algorithms and neural mechanisms underlying odor-modulated locomotion in insects. Journal of Experimental Biology, 2023, 226, .	0.8	3
365	Emergent behaviour and neural dynamics in artificial agents tracking odour plumes. Nature Machine Intelligence, 2023, 5, 58-70.	8.3	10
366	Autonomous Underwater Vehicle Based Chemical Plume Tracing via Deep Reinforcement Learning Methods. Journal of Marine Science and Engineering, 2023, 11, 366.	1.2	0
367	Optimal active particle navigation meets machine learning ^(a). Europhysics Letters, 2023, 142, 17001.	0.7	8
369	Active Sensing in Bees Through Antennal Movements Is Independent of Odor Molecule. Integrative and Comparative Biology, 2023, 63, 315-331.	0.9	3
378	Disrupting pest reproduction techniques can replace pesticides in vineyards. A review. Agronomy for Sustainable Development, 2023, 43, .	2.2	2