

# Rickard Ignell

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

3,678  
citations

32  
h-index

58  
g-index

110  
ext. papers

4,502  
ext. citations

5  
avg, IF

5.4  
L-index

#	Paper	IF	Citations
102	De novo transcriptome sequencing of the northern fowl mite, <i>Ornithonyssus sylviarum</i> , shed light on parasitiform poultry mites evolution and its chemoreceptor repertoires.. <i>Parasitology Research</i> , <b>2022</b> , 121, 521	2.4	1
101	Cattle-Derived Unsaturated Aldehydes Repel Biting Midges and Mosquitoes.. <i>Journal of Chemical Ecology</i> , <b>2022</b> , 1	2.7	2
100	3D-Printed Fluorescence Hyperspectral Lidar for Monitoring Tagged Insects. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2022</b> , 1-1	3.8	1
99	Mosquito brains encode unique features of human odour to drive host seeking.. <i>Nature</i> , <b>2022</b> ,	50.4	5
98	Mosquito Host Seeking in 3D Using a Versatile Climate-Controlled Wind Tunnel System. <i>Frontiers in Behavioral Neuroscience</i> , <b>2021</b> , 15, 643693	3.5	3
97	Comparative dissection of the peripheral olfactory system of the Chagas disease vectors <i>Rhodnius prolixus</i> and <i>Rhodnius brethesi</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009098	4.8	2
96	Development of a chimeric odour blend for attracting gravid malaria vectors. <i>Malaria Journal</i> , <b>2021</b> , 20, 262	3.6	2
95	Regulation of the antennal transcriptome of the dengue vector, <i>Aedes aegypti</i> , during the first gonotrophic cycle. <i>BMC Genomics</i> , <b>2021</b> , 22, 71	4.5	7
94	Modulation of odour-guided behaviour in mosquitoes. <i>Cell and Tissue Research</i> , <b>2021</b> , 383, 195-206	4.2	5
93	Real-time dispersal of malaria vectors in rural Africa monitored with lidar. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247803	3.7	6
92	Contrasting effects of the alkaloid ricinine on the capacity of <i>Anopheles gambiae</i> and <i>Anopheles coluzzii</i> to transmit <i>Plasmodium falciparum</i> . <i>Parasites and Vectors</i> , <b>2021</b> , 14, 479	4	1
91	Malaria mosquito chemical ecology. <i>Current Opinion in Insect Science</i> , <b>2020</b> , 40, 6-10	5.1	7
90	Behavioural response of the house mosquitoes <i>Culex quinquefasciatus</i> and <i>Culex pipiens molestus</i> to avian odours and its reliance on carbon dioxide. <i>Medical and Veterinary Entomology</i> , <b>2020</b> , 34, 129-137	2.4	9
89	Influence of light and kairomone baiting systems on trap collections of biting midges in southern Sweden. <i>Journal of Vector Ecology</i> , <b>2020</b> , 45, 45-56	1.5	1
88	Comparative morphological and transcriptomic analyses reveal chemosensory genes in the poultry red mite, <i>Dermanyssus gallinae</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 17923	4.9	4
87	<i>Plasmodium falciparum</i> gametocyte-induced volatiles enhance attraction of <i>Anopheles</i> mosquitoes in the field. <i>Malaria Journal</i> , <b>2020</b> , 19, 327	3.6	3
86	Dengue infection modulates locomotion and host seeking in <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008531	4.8	11

85	Malaria hotspots explained from the perspective of ecological theory underlying insect foraging. <i>Scientific Reports</i> , <b>2020</b> , 10, 21449	4.9	3
84	Blood Meal Induced Regulation of Gene Expression in the Maxillary Palps, a Chemosensory Organ of the Mosquito <i>Aedes aegypti</i> . <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,	3.7	8
83	Sex and age modulate antennal chemosensory-related genes linked to the onset of host seeking in the yellow-fever mosquito, <i>Aedes aegypti</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 43	4.9	29
82	Mosquitoes on a Diet Reduce Those Pesky Bites. <i>Trends in Parasitology</i> , <b>2019</b> , 35, 335-336	6.4	1
81	First Polarimetric Investigation of Malaria Mosquitoes as Lidar Targets. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-8	3.8	6
80	Age-dependent regulation of host seeking in <i>Anopheles coluzzii</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 9699	4.9	24
79	Hold your breath - Differential behavioral and sensory acuity of mosquitoes to acetone and carbon dioxide. <i>PLoS ONE</i> , <b>2019</b> , 14, e0226815	3.7	7
78	Sweet attraction: sugarcane pollen-associated volatiles attract gravid <i>Anopheles arabiensis</i> . <i>Malaria Journal</i> , <b>2018</b> , 17, 90	3.6	22
77	Multiband modulation spectroscopy for the determination of sex and species of mosquitoes in flight. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201800014	3.1	28
76	Functional characterization of mosquito short neuropeptide F receptors. <i>Peptides</i> , <b>2018</b> , 103, 31-39	3.8	9
75	Functional characterization of the dual allatostatin-A receptors in mosquitoes. <i>Peptides</i> , <b>2018</b> , 99, 44-55	3.8	4
74	Functional Characterization of the Gustatory Sensilla of Tarsi of the Female Polyphagous Moth. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1606	4.6	4
73	Shady business: understanding the spatial ecology of exophilic <i>Anopheles</i> mosquitoes. <i>Malaria Journal</i> , <b>2018</b> , 17, 351	3.6	8
72	A key malaria metabolite modulates vector blood seeking, feeding, and susceptibility to infection. <i>Science</i> , <b>2017</b> , 355, 1076-1080	33.3	59
71	The role of grass volatiles on oviposition site selection by <i>Anopheles arabiensis</i> and <i>Anopheles coluzzii</i> . <i>Malaria Journal</i> , <b>2017</b> , 16, 65	3.6	21
70	Detection and perception of generic host volatiles by mosquitoes: responses to CO constrains host-seeking behaviour. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 170189	3.3	17
69	The role of visual and olfactory plant cues in aphid behaviour and the development of non-persistent virus management strategies. <i>Arthropod-Plant Interactions</i> , <b>2017</b> , 11, 1-13	2.2	15
68	A(maize)ing attraction: gravid <i>Anopheles arabiensis</i> are attracted and oviposit in response to maize pollen odours. <i>Malaria Journal</i> , <b>2017</b> , 16, 39	3.6	29

67	Evaluation of Host-Derived Volatiles for Trapping Culicoides Biting Midges (Diptera: Ceratopogonidae). <i>Journal of Chemical Ecology</i> , <b>2017</b> , 43, 662-669	2.7	10
66	Blood meal induced regulation of the chemosensory gene repertoire in the southern house mosquito. <i>BMC Genomics</i> , <b>2017</b> , 18, 393	4.5	23
65	Grass Pollen Affects Survival and Development of Larval Anopheles arabiensis (Diptera: Culicidae). <i>Journal of Insect Science</i> , <b>2017</b> , 17,	2	9
64	Feeding-induced changes in allatostatin-A and short neuropeptide F in the antennal lobes affect odor-mediated host seeking in the yellow fever mosquito, <i>Aedes aegypti</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0188243	3.7	22
63	Host-Related Olfactory Behavior in a Fruit-Piercing Moth (Lepidoptera: Erebidiae) in Far Eastern Russia. <i>Journal of Insect Science</i> , <b>2016</b> , 16,	2	1
62	Chicken volatiles repel host-seeking malaria mosquitoes. <i>Malaria Journal</i> , <b>2016</b> , 15, 354	3.6	29
61	The importance of accounting for larval detectability in mosquito habitat-association studies. <i>Malaria Journal</i> , <b>2016</b> , 15, 253	3.6	5
60	Morphology and distribution of ovipositor sensilla of female cotton leaf worm <i>Spodoptera littoralis</i> (Lepidoptera: Noctuidae), and evidence for gustatory function. <i>Entomological Science</i> , <b>2016</b> , 19, 9-19	1.1	11
59	Identification of Cattle-Derived Volatiles that Modulate the Behavioral Response of the Biting Midge <i>Culicoides nubeculosus</i> . <i>Journal of Chemical Ecology</i> , <b>2016</b> , 42, 24-32	2.7	15
58	Combining Attractants and Larvicides in Biodegradable Matrices for Sustainable Mosquito Vector Control. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0005043	4.8	19
57	Plant-Mediated Effects on Mosquito Capacity to Transmit Human Malaria. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005773	7.6	32
56	Ionotropic Chemosensory Receptors Mediate the Taste and Smell of Polyamines. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002454	9.7	131
55	Detection and perception of generic host volatiles by mosquitoes modulate host preference: context dependence of (-)-1-octen-3-ol. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160467	3.3	28
54	Rice volatiles lure gravid malaria mosquitoes, <i>Anopheles arabiensis</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 37930	4.9	42
53	Landing Preference and Reproduction of <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae) in the Laboratory on Three Maize, Potato, and Wheat Cultivars. <i>Journal of Insect Science</i> , <b>2015</b> , 15,	2	4
52	Molecular basis for odorant receptor tuning: a short C-terminal sequence is necessary and sufficient for selectivity of mosquito Or8. <i>Insect Molecular Biology</i> , <b>2015</b> , 24, 491-501	3.4	18
51	Trapping biases of <i>Culex torrentium</i> and <i>Culex pipiens</i> revealed by comparison of captures in CDC traps, ovitraps, and gravid traps. <i>Journal of Vector Ecology</i> , <b>2015</b> , 40, 158-63	1.5	8
50	A herbivore-induced plant volatile interferes with host plant and mate location in moths through suppression of olfactory signalling pathways. <i>BMC Biology</i> , <b>2015</b> , 13, 75	7.3	47

49	Olfactory responses of Rhopalosiphum padi to three maize, potato, and wheat cultivars and the selection of prospective crop border plants. <i>Entomologia Experimentalis Et Applicata</i> , <b>2015</b> , 157, 241-253 <sup>2.1</sup>	15
48	Evaluation of reference genes for insect olfaction studies. <i>Parasites and Vectors</i> , <b>2015</b> , 8, 243	4 20
47	Functional development of carbon dioxide detection in the maxillary palp of Anopheles gambiae. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 2482-8	3 30
46	Concurrent modulation of neuronal and behavioural olfactory responses to sex and host plant cues in a male moth. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282, 20141884	4.4 28
45	Evolution of mosquito preference for humans linked to an odorant receptor. <i>Nature</i> , <b>2014</b> , 515, 222-7	50.4 260
44	Visual Cues and Host-Plant Preference of the Bird Cherry-Oat Aphid, Rhopalosiphum padi (Hemiptera: Aphididae). <i>African Entomology</i> , <b>2014</b> , 22, 428-436	0.5 7
43	Love makes smell blind: mating suppresses pheromone attraction in Drosophila females via Or65a olfactory neurons. <i>Scientific Reports</i> , <b>2014</b> , 4, 7119	4.9 47
42	Identification of plant semiochemicals and characterization of new olfactory sensory neuron types in a polyphagous pest moth, Spodoptera littoralis. <i>Chemical Senses</i> , <b>2014</b> , 39, 719-33	4.8 15
41	Geographic distribution, phylogeny, and genetic diversity of the fruit- and blood-feeding moth Calyptra thalictri Borkhausen (Insecta: Lepidoptera: Erebididae). <i>Journal of Parasitology</i> , <b>2014</b> , 100, 583-91 <sup>0.9</sup>	2
40	Neuropeptides in the antennal lobe of the yellow fever mosquito, Aedes aegypti. <i>Journal of Comparative Neurology</i> , <b>2014</b> , 522, 592-608	3.4 37
39	Impact of elevated CO2 background levels on the host-seeking behaviour of Aedes aegypti. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 598-604	3 25
38	Comparative study of antennal and maxillary palp olfactory sensilla of female biting midges (Diptera: Ceratopogonidae: Culicoides) in the context of host preference and phylogeny. <i>Journal of Medical Entomology</i> , <b>2013</b> , 50, 485-92	2.2 17
37	Distribution of neuropeptides in the antennal lobes of male Spodoptera littoralis. <i>Cell and Tissue Research</i> , <b>2013</b> , 354, 431-40	4.2 3
36	Molecular identification of bloodmeals and species composition in Culicoides biting midges. <i>Medical and Veterinary Entomology</i> , <b>2013</b> , 27, 104-12	2.4 42
35	Neural coding merges sex and habitat chemosensory signals in an insect herbivore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20130267	4.4 48
34	Floral to green: mating switches moth olfactory coding and preference. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 2314-22	4.4 111
33	Spatial organization of antennal olfactory sensory neurons in the female Spodoptera littoralis moth: differences in sensitivity and temporal characteristics. <i>Chemical Senses</i> , <b>2012</b> , 37, 613-29	4.8 50
32	Smelling your way to food: can bed bugs use our odour?. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 623-9	46

31	Putative chemosensory receptors of the codling moth, <i>Cydia pomonella</i> , identified by antennal transcriptome analysis. <i>PLoS ONE</i> , <b>2012</b> , 7, e31620	3.7	130
30	Structure and morphology of wheat gluten films: from polymeric protein aggregates toward superstructure arrangements. <i>Biomacromolecules</i> , <b>2011</b> , 12, 1438-48	6.9	58
29	Mosquito feeding affects larval behaviour and development in a moth. <i>PLoS ONE</i> , <b>2011</b> , 6, e25658	3.7	11
28	Fresh, dried or smoked? Repellent properties of volatiles emitted from ethnomedicinal plant leaves against malaria and yellow fever vectors in Ethiopia. <i>Malaria Journal</i> , <b>2011</b> , 10, 375	3.6	20
27	Enantiomeric selectivity in behavioural and electrophysiological responses of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquitoes. <i>Bulletin of Entomological Research</i> , <b>2011</b> , 101, 541-50	1.7	29
26	Extruded High Quality Materials from Wheat Gluten. <i>Polymers From Renewable Resources</i> , <b>2010</b> , 1, 173-186	6.4	8
25	Behavioral insensitivity to DEET in <i>Aedes aegypti</i> is a genetically determined trait residing in changes in sensillum function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 8575-80	11.5	92
24	Local peptidergic signaling in the antennal lobe shapes olfactory behavior. <i>Fly</i> , <b>2010</b> , 4, 167-71	1.3	15
23	Characterization of the antennal olfactory system of the bed bug ( <i>Cimex lectularius</i> ). <i>Chemical Senses</i> , <b>2010</b> , 35, 195-204	4.8	43
22	Assessment of diet choice by the yellow fever mosquito <i>Aedes aegypti</i> . <i>Physiological Entomology</i> , <b>2010</b> , 35, 274-286	1.9	30
21	Coding and interaction of sex pheromone and plant volatile signals in the antennal lobe of the codling moth <i>Cydia pomonella</i> . <i>Journal of Experimental Biology</i> , <b>2010</b> , 213, 4291-303	3	56
20	Sequencing of <i>Culex quinquefasciatus</i> establishes a platform for mosquito comparative genomics. <i>Science</i> , <b>2010</b> , 330, 86-8	33.3	352
19	Influence of blood meal on the responsiveness of olfactory receptor neurons in antennal sensilla trichodea of the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Journal of Insect Physiology</i> , <b>2010</b> , 56, 659-65	2.4	40
18	Presynaptic peptidergic modulation of olfactory receptor neurons in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 13070-5	11.5	136
17	Characterization of antennal trichoid sensilla from female southern house mosquito, <i>Culex quinquefasciatus</i> Say. <i>Chemical Senses</i> , <b>2009</b> , 34, 231-52	4.8	68
16	Immunocytochemical localization of serotonin in the central and peripheral chemosensory system of mosquitoes. <i>Arthropod Structure and Development</i> , <b>2008</b> , 37, 248-59	1.8	37
15	Natural odor ligands for olfactory receptor neurons of the female mosquito <i>Aedes aegypti</i> : use of gas chromatography-linked single sensillum recordings. <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 3020-37	3.7	58
14	Functional classification and central nervous projections of olfactory receptor neurons housed in antennal trichoid sensilla of female yellow fever mosquitoes, <i>Aedes aegypti</i> . <i>European Journal of Neuroscience</i> , <b>2007</b> , 26, 1611-23	3.5	74

13	Responses to sex pheromone and plant odours by olfactory receptor neurons housed in sensilla auricillica of the codling moth, <i>Cydia pomonella</i> (Lepidoptera: Tortricidae). <i>Journal of Insect Physiology</i> , <b>2005</b> , 51, 1066-74	2.4	81
12	Projection patterns of gustatory neurons in the suboesophageal ganglion and tritocerebrum of mosquitoes. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 492, 214-33	3.4	29
11	Organization of Kenyon cells in subdivisions of the mushroom bodies of a lepidopteran insect. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 491, 290-304	3.4	35
10	Neuronal architecture of the mosquito deutocerebrum. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 493, 207-40	3.4	114
9	Chemosensory coding by neurons in the coeloconic sensilla of the <i>Drosophila</i> antenna. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 8359-67	6.6	220
8	Targeted mutation of a <i>Drosophila</i> odor receptor defines receptor requirement in a novel class of sensillum. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 9906-12	6.6	113
7	Developmental changes in the structure and function of the central olfactory system in gregarious and solitary desert locusts. <i>Microscopy Research and Technique</i> , <b>2002</b> , 56, 281-91	2.8	31
6	Monoamines and neuropeptides in antennal lobe interneurons of the desert locust, <i>Schistocerca gregana</i> : an immunocytochemical study. <i>Cell and Tissue Research</i> , <b>2001</b> , 306, 143-56	4.2	35
5	The antennal lobe of orthoptera - anatomy and evolution. <i>Brain, Behavior and Evolution</i> , <b>2001</b> , 57, 1-17	1.5	69
4	Juvenile-hormone-mediated plasticity of aggregation behaviour and olfactory processing in adult desert locusts. <i>Journal of Experimental Biology</i> , <b>2001</b> , 204, 249-59	3	23
3	Integration of behaviourally relevant odours at the central nervous level in solitary and gregarious third instar locusts, <i>Schistocerca gregaria</i> . <i>Journal of Insect Physiology</i> , <b>1999</b> , 45, 993-1000	2.4	14
2	Central nervous processing of behaviourally relevant odours in solitary and gregarious fifth instar locusts, <i>Schistocerca gregaria</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>1998</b> , 183, 453-465	2.3	10
1	Non-canonical odor coding ensures unbreakable mosquito attraction to humans		24