

Teun Dekker

List of Publications by Year in descending order

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56
papers

2,867
citations

186265

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182427

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57
all docs

57
docs citations

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times ranked

2556
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Olfactory Shifts Parallel Superspecialism for Toxic Fruit in <i>Drosophila melanogaster</i> Sibling, <i>D. sechellia</i> . <i>Current Biology</i> , 2006, 16, 101-109. | 3.9 | 236 |
| 2 | Carbon dioxide instantly sensitizes female yellow fever mosquitoes to human skin odours. <i>Journal of Experimental Biology</i> , 2005, 208, 2963-2972. | 1.7 | 208 |
| 3 | Linking Genomics and Ecology to Investigate the Complex Evolution of an Invasive <i>Drosophila</i> Pest. <i>Genome Biology and Evolution</i> , 2013, 5, 745-757. | 2.5 | 138 |
| 4 | Neuronal architecture of the mosquito deutocerebrum. <i>Journal of Comparative Neurology</i> , 2005, 493, 207-240. | 1.6 | 136 |
| 5 | Identification of Olfactory Stimulants for <i>Anopheles gambiae</i> from Human Sweat Samples. <i>Journal of Chemical Ecology</i> , 2000, 26, 1367-1382. | 1.8 | 133 |
| 6 | L-lactic acid: a human-signifying host cue for the anthropophilic mosquito <i>Anopheles gambiae</i> . <i>Medical and Veterinary Entomology</i> , 2002, 16, 91-98. | 1.5 | 133 |
| 7 | Evolution of the olfactory code in the <i>Drosophila melanogaster</i> subgroup. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2333-2340. | 2.6 | 109 |
| 8 | 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. <i>Journal of Experimental Biology</i> , 2011, 214, 3480-3494. | 1.7 | 94 |
| 9 | The Genetic Basis of Pheromone Evolution in Moths. <i>Annual Review of Entomology</i> , 2016, 61, 99-117. | 11.8 | 90 |
| 10 | Olfactory responses of <i>Drosophila suzukii</i> females to host plant volatiles. <i>Physiological Entomology</i> , 2015, 40, 54-64. | 1.5 | 87 |
| 11 | A carboxylesterase, Esterase-6, modulates sensory physiological and behavioral response dynamics to pheromone in <i>Drosophila</i> . <i>BMC Biology</i> , 2012, 10, 56. | 3.8 | 86 |
| 12 | Odor-mediated flight behavior of <i>Anopheles gambiae</i> <i>sensu stricto</i> and <i>An. stephensi</i> liston in response to CO ₂ , acetone, and 1-octen-3-ol (Diptera: Culicidae). <i>Journal of Insect Behavior</i> , 1997, 10, 395-407. | 0.7 | 83 |
| 13 | Differential responses of mosquito sibling species <i>Anopheles arabiensis</i> and <i>An. quadriannulatus</i> to carbon dioxide, a man or a calf. <i>Medical and Veterinary Entomology</i> , 1998, 12, 136-140. | 1.5 | 82 |
| 14 | Sexual Behavior of <i>Drosophila suzukii</i> . <i>Insects</i> , 2015, 6, 183-196. | 2.2 | 76 |
| 15 | The Evolution of Olfactory Gene Families in <i>Drosophila</i> and the Genomic Basis of chemical-Ecological Adaptation in <i>Drosophila suzukii</i> . <i>Genome Biology and Evolution</i> , 2016, 8, 2297-2311. | 2.5 | 76 |
| 16 | Loss of <i>Drosophila</i> pheromone reverses its role in sexual communication in <i>Drosophila suzukii</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20143018. | 2.6 | 70 |
| 17 | A herbivore-induced plant volatile interferes with host plant and mate location in moths through suppression of olfactory signalling pathways. <i>BMC Biology</i> , 2015, 13, 75. | 3.8 | 65 |
| 18 | Structure of host-odour plumes influences catch of <i>Anopheles gambiae s.s.</i> and <i>Aedes aegypti</i> in a dual-choice olfactometer. <i>Physiological Entomology</i> , 2001, 26, 124-134. | 1.5 | 62 |

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|----|---|------|-----------|
| 19 | What Reaches the Antenna? How to Calibrate Odor Flux and Ligand-Receptor Affinities. <i>Chemical Senses</i> , 2012, 37, 403-420. | 2.0 | 60 |
| 20 | Selection of biting sites on a human host by <i>Anopheles gambiae</i> s.s., <i>An. arabiensis</i> and <i>An. quadriannulatus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1998, 87, 295-300. | 1.4 | 58 |
| 21 | Identification of mosquito repellent odours from <i>Ocimum forskolei</i> . <i>Parasites and Vectors</i> , 2011, 4, 183. | 2.5 | 58 |
| 22 | Reversed functional topology in the antennal lobe of the male European corn borer. <i>Journal of Experimental Biology</i> , 2008, 211, 2841-2848. | 1.7 | 55 |
| 23 | Macroglomeruli for fruit odors change blend preference in <i>Drosophila</i> . <i>Die Naturwissenschaften</i> , 2010, 97, 1059-1066. | 1.6 | 55 |
| 24 | Innate Preference for Host-Odor Blends Modulates Degree of Anthropophagy of <i>Anopheles gambiae</i> sensu lato (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2001, 38, 868-871. | 1.8 | 49 |
| 25 | Do Fruit Ripening Volatiles Enable Resource Specialism in Polyphagous Fruit Flies?. <i>Journal of Chemical Ecology</i> , 2016, 42, 931-940. | 1.8 | 44 |
| 26 | Identification of Host Blends that Attract the African Invasive Fruit Fly, <i>Bactrocera invadens</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 966-976. | 1.8 | 39 |
| 27 | Electrophysiologically-Active Maize Volatiles Attract Gravid Female European Corn Borer, <i>Ostrinia nubilalis</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 997-1005. | 1.8 | 39 |
| 28 | Early quality assessment lessens pheromone specificity in a moth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7377-7382. | 7.1 | 31 |
| 29 | Detection and perception of generic host volatiles by mosquitoes: responses to CO ₂ constrains host-seeking behaviour. <i>Royal Society Open Science</i> , 2017, 4, 170189. | 2.4 | 31 |
| 30 | Susceptibility of <i>Anopheles quadriannulatus theobald</i> (Diptera: Culicidae) to <i>Plasmodium falciparum</i> . <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 1999, 93, 578-580. | 1.8 | 29 |
| 31 | Inheritance of central neuroanatomy and physiology related to pheromone preference in the male European corn borer. <i>BMC Evolutionary Biology</i> , 2010, 10, 286. | 3.2 | 28 |
| 32 | Detection of Volatile Constituents from Food Lures by Tephritid Fruit Flies. <i>Insects</i> , 2018, 9, 119. | 2.2 | 24 |
| 33 | <i>Ostrinia</i> revisited: Evidence for sex linkage in European Corn Borer <i>Ostrinia nubilalis</i> (Hubner) pheromone reception. <i>BMC Evolutionary Biology</i> , 2010, 10, 285. | 3.2 | 23 |
| 34 | Olfaction in the female sheep botfly. <i>Die Naturwissenschaften</i> , 2010, 97, 827-835. | 1.6 | 22 |
| 35 | Combining Attractants and Larvicides in Biodegradable Matrices for Sustainable Mosquito Vector Control. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005043. | 3.0 | 22 |
| 36 | bric-Å brac controls sex pheromone choice by male European corn borer moths. <i>Nature Communications</i> , 2021, 12, 2818. | 12.8 | 21 |

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|----|---|-----|-----------|
| 37 | Long-term maize-Desmodium intercropping shifts structure and composition of soil microbiome with stronger impact on fungal communities. <i>Plant and Soil</i> , 2021, 467, 437-450. | 3.7 | 21 |
| 38 | 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. | 7.1 | 20 |
| 39 | Hold your breath “ Differential behavioral and sensory acuity of mosquitoes to acetone and carbon dioxide. <i>PLoS ONE</i> , 2019, 14, e0226815. | 2.5 | 20 |
| 40 | Translating olfactomes into attractants: shared volatiles provide attractive bridges for polyphagy in fruit flies. <i>Ecology Letters</i> , 2019, 22, 108-118. | 6.4 | 20 |
| 41 | Microbial growth enhances the attractiveness of human sweat for the malaria mosquito, <i>Anopheles gambiae sensu stricto</i> (Diptera: Culicidae). <i>Chemoecology</i> , 2000, 10, 129-134. | 1.1 | 18 |
| 42 | The Adipokinetic Hormone Receptor Modulates Sexual Behavior, Pheromone Perception and Pheromone Production in a Sex-Specific and Starvation-Dependent Manner in <i>Drosophila melanogaster</i> . <i>Frontiers in Ecology and Evolution</i> , 2016, 3, . | 2.2 | 16 |
| 43 | Species-Specific Induction of Plant Volatiles by Two Aphid Species in Apple: Real Time Measurement of Plant Emission and Attraction of Lacewings in the Wind Tunnel. <i>Journal of Chemical Ecology</i> , 2021, 47, 653-663. | 1.8 | 13 |
| 44 | Internalization of <i>Escherichia coli</i> O157:H7 <i>gfp</i> + in rocket and Swiss chard baby leaves as affected by abiotic and biotic damage. <i>Letters in Applied Microbiology</i> , 2017, 65, 35-41. | 2.2 | 12 |
| 45 | Novel odor-based strategies for integrated management of vectors of disease. <i>Current Opinion in Insect Science</i> , 2019, 34, 105-111. | 4.4 | 12 |
| 46 | False positives from impurities result in incorrect functional characterization of receptors in chemosensory studies. <i>Progress in Neurobiology</i> , 2019, 181, 101661. | 5.7 | 8 |
| 47 | Recruiting on the Spot: A Biodegradable Formulation for Lacewings to Trigger Biological Control of Aphids. <i>Insects</i> , 2019, 10, 6. | 2.2 | 8 |
| 48 | Designing a species-selective lure based on microbial volatiles to target <i>Lobesia botrana</i> . <i>Scientific Reports</i> , 2020, 10, 6512. | 3.3 | 8 |
| 49 | Attract, reward and disrupt: responses of pests and natural enemies to combinations of habitat manipulation and semiochemicals in organic apple. <i>Journal of Pest Science</i> , 2022, 95, 619-631. | 3.7 | 7 |
| 50 | Potential of locally sustainable food baits and traps against the Mediterranean fruit fly <i>Ceratitis capitata</i> in Bolivia. <i>Pest Management Science</i> , 2019, 75, 1671-1680. | 3.4 | 6 |
| 51 | A zooprophylaxis strategy using l-lactic acid (Abate) to divert host-seeking malaria vectors from human host to treated non-host animals. <i>Malaria Journal</i> , 2020, 19, 52. | 2.3 | 5 |
| 52 | Temporal Features of Spike Trains in the Moth Antennal Lobe Revealed by a Comparative Time-Frequency Analysis. <i>PLoS ONE</i> , 2014, 9, e84037. | 2.5 | 4 |
| 53 | Getting Them Where They Live “Semiochemical-Based Strategies To Address Major Gaps in Vector Control Programs: Vectrax, SPLAT BAC, Trojan Cow, and SPLAT TK. <i>ACS Symposium Series</i> , 2018, , 101-152. | 0.5 | 4 |
| 54 | Is <i>Anopheles gambiae</i> attraction to floral and human skin-based odours and their combination modulated by previous blood meal experience?. <i>Malaria Journal</i> , 2020, 19, 318. | 2.3 | 3 |

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|----|--|-----|-----------|
| 55 | Dispersal and competitive release affect the management of native and invasive tephritid fruit flies in large and smallholder farms in Ethiopia. <i>Scientific Reports</i> , 2021, 11, 2690. | 3.3 | 3 |
| 56 | Coding and Evolution of Pheromone Preference in Moths. <i>Entomology Monographs</i> , 2020, , 265-286. | 0.5 | 2 |