# Peter Witzgall

## List of Publications by Year in Descending Order



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| 96 papers | 4,279 citations | 38 h-index | 63 g-index |
| 103 ext. papers | 5,015 ext. citations | 3.2 avg, IF | 5.26 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 96 | The female sex pheromone (Z)-4-undecenal mediates flight attraction and courtship in Drosophila melanogaster.. *Journal of Insect Physiology*, **2022**, 137, 104355 | 2.4 | 0 |
| 95 | Odorant receptor phylogeny confirms conserved channels for sex pheromone and host plant signals in tortricid moths. *Ecology and Evolution*, **2020**, 10, 7334-7348 | 2.8 | 1 |
| 94 | Yeast Volatomes Differentially Affect Larval Feeding in an Insect Herbivore. *Applied and Environmental Microbiology*, **2019**, 85, | 4.8 | 13 |
| 93 | The Scent of the Fly. *Journal of Chemical Ecology*, **2018**, 44, 431-435 | 2.7 | 6 |
| 92 | Chemical signaling and insect attraction is a conserved trait in yeasts. *Ecology and Evolution*, **2018**, 8, 2962-2974 | 2.8 | 33 |
| 91 | Plant odor and sex pheromone are integral elements of specific mate recognition in an insect herbivore. *Evolution; International Journal of Organic Evolution*, **2018**, 72, 2225-2233 | 3.8 | 13 |
| 90 | Pear Ester From Discovery to Delivery for Improved Codling Moth Management. *ACS Symposium Series*, **2018**, 83-113 | 0.4 | 6 |
| 89 | Enhanced yeast feeding following mating facilitates control of the invasive fruit pest Drosophila suzukii. *Journal of Applied Ecology*, **2017**, 54, 170-177 | 5.8 | 46 |
| 88 | Candidate pheromone receptors of codling moth Cydia pomonella respond to pheromones and kairomones. *Scientific Reports*, **2017**, 7, 41105 | 4.9 | 25 |
| 87 | Antennal transcriptomes of three tortricid moths reveal putative conserved chemosensory receptors for social and habitat olfactory cues. *Scientific Reports*, **2017**, 7, 41829 | 4.9 | 9 |
| 86 | A Drosophila female pheromone elicits species-specific long-range attraction via an olfactory channel with dual specificity for sex and food. *BMC Biology*, **2017**, 15, 88 | 7.3 | 49 |
| 85 | Insulin Signaling in the Peripheral and Central Nervous System Regulates Female Sexual Receptivity during Starvation in. *Frontiers in Physiology*, **2017**, 8, 685 | 4.6 | 7 |
| 84 | Herbivore-Induced Changes in Cotton Modulates Reproductive Behavior in the Moth Spodoptera littoralis. *Frontiers in Ecology and Evolution*, **2017**, 5, | 3.7 | 4 |
| 83 | Protocol for Heterologous Expression of Insect Odourant Receptors in Drosophila. *Frontiers in Ecology and Evolution*, **2016**, 4, | 3.7 | 20 |
| 82 | The chemosensory receptors of codling moth Cydia pomonella-expression in larvae and adults. *Scientific Reports*, **2016**, 6, 23518 | 4.9 | 35 |
| 81 | TRPA5, an Ankyrin Subfamily Insect TRP Channel, is Expressed in Antennae of Cydia pomonella (Lepidoptera: Tortricidae) in Multiple Splice Variants. *Journal of Insect Science*, **2016**, 16, | 2 | 6 |
| 80 | Sexual Behavior of Drosophila suzukii. *Insects*, **2015**, 6, 183-96 | 2.8 | 54 |

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| 79 | Improving the Performance of the Granulosis Virus of Codling Moth (Lepidoptera: Tortricidae) by Adding the Yeast Saccharomyces cerevisiae with Sugar. *Environmental Entomology*, **2015**, 44, 252-9 | 2.1 | 8 |
| 78 | Feeding regulates sex pheromone attraction and courtship in Drosophila females. *Scientific Reports*, **2015**, 5, 13132 | 4.9 | 43 |
| 77 | A herbivore-induced plant volatile interferes with host plant and mate location in moths through suppression of olfactory signalling pathways. *BMC Biology*, **2015**, 13, 75 | 7.3 | 47 |
| 76 | Flight attraction of Spodoptera littoralis (Lepidoptera, Noctuidae) to cotton headspace and synthetic volatile blends. *Frontiers in Ecology and Evolution*, **2015**, 3, | 3.7 | 18 |
| 75 | Survey of arthropod assemblages responding to live yeasts in an organic apple orchard. *Frontiers in Ecology and Evolution*, **2015**, 3, | 3.7 | 11 |
| 74 | A Conserved Odorant Receptor Detects the Same 1-Indanone Analogs in a Tortricid and a Noctuid Moth. *Frontiers in Ecology and Evolution*, **2015**, 3, | 3.7 | 17 |
| 73 | Concurrent modulation of neuronal and behavioural olfactory responses to sex and host plant cues in a male moth. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20141884 | 4.4 | 28 |
| 72 | A predicted sex pheromone receptor of codling moth Cydia pomonella detects the plant volatile pear ester. *Frontiers in Ecology and Evolution*, **2014**, 2, | 3.7 | 30 |
| 71 | Love makes smell blind: mating suppresses pheromone attraction in Drosophila females via Or65a olfactory neurons. *Scientific Reports*, **2014**, 4, 7119 | 4.9 | 47 |
| 70 | Mate recognition and reproductive isolation in the sibling species Spodoptera littoralis and Spodoptera litura. *Frontiers in Ecology and Evolution*, **2014**, 2, | 3.7 | 18 |
| 69 | Pheromone races of Cydia splendana (Lepidoptera, Tortricidae) overlap in host plant association and geographic distribution. *Frontiers in Ecology and Evolution*, **2014**, 2, | 3.7 | 9 |
| 68 | Dietary glucose regulates yeast consumption in adult Drosophila males. *Frontiers in Physiology*, **2014**, 5, 504 | 4.6 | 16 |
| 67 | Disruption of Phthorimaea operculella (Lepidoptera: Gelechiidae) oviposition by the application of host plant volatiles. *Pest Management Science*, **2014**, 70, 628-35 | 4.6 | 23 |
| 66 | Combining mutualistic yeast and pathogenic virus--a novel method for codling moth control. *Journal of Chemical Ecology*, **2013**, 39, 1019-26 | 2.7 | 19 |
| 65 | Herbivore-induced plant volatiles provide associational resistance against an ovipositing herbivore. *Journal of Ecology*, **2013**, 101, 410-417 | 6 | 59 |
| 64 | Specific response to herbivore-induced de novo synthesized plant volatiles provides reliable information for host plant selection in a moth. *Journal of Experimental Biology*, **2013**, 216, 3257-63 | 3 | 39 |
| 63 | Guatemalan potato moth Tecia solanivora distinguish odour profiles from qualitatively different potatoes Solanum tuberosum L. *Phytochemistry*, **2013**, 85, 72-81 | 4 | 8 |
| 62 | Neural coding merges sex and habitat chemosensory signals in an insect herbivore. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130267 | 4.4 | 48 |

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| 61 | Yeast, not fruit volatiles mediate Drosophila melanogaster attraction, oviposition and development. *Functional Ecology*, **2012**, 26, 822-828 | 5.6 | 234 |
| 60 | Attraction of Drosophila melanogaster males to food-related and fly odours. *Journal of Insect Physiology*, **2012**, 58, 125-9 | 2.4 | 47 |
| 59 | Mating disruption of Guatemalan potato moth Tecia solanivora by attractive and non-attractive pheromone blends. *Journal of Chemical Ecology*, **2012**, 38, 63-70 | 2.7 | 11 |
| 58 | "This is not an apple"-yeast mutualism in codling moth. *Journal of Chemical Ecology*, **2012**, 38, 949-57 | 2.7 | 69 |
| 57 | Novel bioassay demonstrates attraction of the white potato cyst nematode Globodera pallida (Stone) to non-volatile and volatile host plant cues. *Journal of Chemical Ecology*, **2012**, 38, 795-801 | 2.7 | 29 |
| 56 | Floral to green: mating switches moth olfactory coding and preference. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 2314-22 | 4.4 | 111 |
| 55 | Putative chemosensory receptors of the codling moth, Cydia pomonella, identified by antennal transcriptome analysis. *PLoS ONE*, **2012**, 7, e31620 | 3.7 | 130 |
| 54 | Attraction and oviposition of Tuta absoluta females in response to tomato leaf volatiles. *Journal of Chemical Ecology*, **2011**, 37, 565-74 | 2.7 | 78 |
| 53 | Attraction of female grapevine moth to common and specific olfactory cues from 2 host plants. *Chemical Senses*, **2010**, 35, 57-64 | 4.8 | 57 |
| 52 | Coding and interaction of sex pheromone and plant volatile signals in the antennal lobe of the codling moth Cydia pomonella. *Journal of Experimental Biology*, **2010**, 213, 4291-303 | 3 | 56 |
| 51 | Flight tunnel response of codling moth Cydia pomonella to blends of codlemone, codlemone antagonists and pear ester. *Physiological Entomology*, **2010**, 35, 249-254 | 1.9 | 12 |
| 50 | Sex pheromones and their impact on pest management. *Journal of Chemical Ecology*, **2010**, 36, 80-100 | 2.7 | 599 |
| 49 | Flying the fly: long-range flight behavior of Drosophila melanogaster to attractive odors. *Journal of Chemical Ecology*, **2010**, 36, 599-607 | 2.7 | 118 |
| 48 | Plant odor analysis of potato: response of guatemalan moth to above- and belowground potato volatiles. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 5903-9 | 5.7 | 34 |
| 47 | Codling moth management and chemical ecology. *Annual Review of Entomology*, **2008**, 53, 503-22 | 21.8 | 282 |
| 46 | Discrepancy in laboratory and field attraction of apple fruit moth Argyresthia conjugella to host plant volatiles. *Physiological Entomology*, **2008**, 33, 1-6 | 1.9 | 42 |
| 45 | Synergism and redundancy in a plant volatile blend attracting grapevine moth females. *Phytochemistry*, **2007**, 68, 203-9 | 4 | 94 |
| 44 | Effects of photoperiod and temperature on the development of Bonagota cranaodes. *Physiological Entomology*, **2007**, 32, 394-398 | 1.9 | 3 |

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| 43 | Wind tunnel attraction of grapevine moth females, Lobesia Botrana, to natural and artificial grape odour. *Chemoecology*, **2006**, 16, 87-92 | 2 | 43 |
| 42 | Essential host plant cues in the grapevine moth. *Die Naturwissenschaften*, **2006**, 93, 141-4 | 2 | 91 |
| 41 | Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. *Environmental Entomology*, **2006**, 35, 1238-1243 | 2.1 | 13 |
| 40 | Plant volatiles mediate attraction to host and non-host plant in apple fruit moth, Argyresthia conjugella. *Entomologia Experimentalis Et Applicata*, **2006**, 118, 77-85 | 2.1 | 74 |
| 39 | Pheromone pre-exposure and mating modulate codling moth (Lepidoptera: Tortricidae) response to host plant volatiles. *Agricultural and Forest Entomology*, **2005**, 7, 231-236 | 1.9 | 19 |
| 38 | Pheromone-mediated communication disruption in Guatemalan potato moth, Tecia solanivora. *Entomologia Experimentalis Et Applicata*, **2005**, 114, 137-142 | 2.1 | 17 |
| 37 | When does the apple fruit moth (Argyresthia conjugella) fly and oviposit?. *Entomologia Experimentalis Et Applicata*, **2005**, 115, 351-353 | 2.1 | 3 |
| 36 | Attractiveness of year-old polyethylene Isonet sex pheromone dispensers for Lobesia botrana. *Entomologia Experimentalis Et Applicata*, **2005**, 117, 201-207 | 2.1 | 11 |
| 35 | Plant volatiles affect oviposition by codling moths. *Chemoecology*, **2005**, 15, 77-83 | 2 | 46 |
| 34 | Antennal and behavioral responses of grapevine moth Lobesia botrana females to volatiles from grapevine. *Journal of Chemical Ecology*, **2005**, 31, 77-87 | 2.7 | 99 |
| 33 | New pheromone components of the grapevine moth Lobesia botrana. *Journal of Chemical Ecology*, **2005**, 31, 2923-32 | 2.7 | 23 |
| 32 | Synthesis and field tests of sex pheromone components of the leafroller Argyrotaenia sphaleropa. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2004**, 59, 708-12 | 1.7 | 10 |
| 31 | Attraction of codling moth males to apple volatiles. *Entomologia Experimentalis Et Applicata*, **2004**, 110, 1-10 | 2.1 | 79 |
| 30 | Host plant volatiles synergize response to sex pheromone in codling moth, Cydia pomonella. *Journal of Chemical Ecology*, **2004**, 30, 619-29 | 2.7 | 108 |
| 29 | Codling moth males do not discriminate between pheromone and a pheromone/antagonist blend during upwind flight. *Die Naturwissenschaften*, **2003**, 90, 419-23 | 2 | 10 |
| 28 | Masting of rowan Sorbus aucuparia L. and consequences for the apple fruit moth Argyresthia conjugella Zeller. *Population Ecology*, **2003**, 45, 25-30 | 2.1 | 41 |
| 27 | Sex pheromone of apple fruit moth Argyresthia conjugella (Lepidoptera: Argyresthiidae). *Agricultural and Forest Entomology*, **2002**, 4, 233-236 | 1.9 | 5 |
| 26 | Identification, syntheses, and characterization of the geometric isomers of 9,11-hexadecadienal from female pheromone glands of the sugar cane borer Diatraea saccharalis. *Journal of Natural Products*, **2002**, 65, 909-15 | 4.9 | 18 |

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| 25 | Synthetic attractants for the bark beetle parasitoid Coeloides bostrichorum Giraud (Hymenoptera: Braconidae). *Die Naturwissenschaften*, **2001**, 88, 88-91 | 2 | 20 |
| 24 | Identification of further sex pheromone synergists in the codling moth, Cydia pomonella. *Entomologia Experimentalis Et Applicata*, **2001**, 101, 131-141 | 2.1 | 52 |
| 23 | Plant odor analysis of apple: antennal response of codling moth females to apple volatiles during phenological development. *Journal of Agricultural and Food Chemistry*, **2001**, 49, 3736-41 | 5.7 | 135 |
| 22 | Volatiles from apple (Malus domestica) eliciting antennal responses in female codling moth Cydia pomonella (L.) (Lepidoptera: Tortricidae): effect of plant injury and sampling technique. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2001**, 56, 262-8 | 1.7 | 29 |
| 21 | Multicomponent Sex Pheromone in Codling Moth (Lepidoptera: Tortricidae). *Environmental Entomology*, **1999**, 28, 775-779 | 2.1 | 29 |
| 20 | Behavioral observations of codling moth, Cydia pomonella, in orchards permeated with synthetic pheromone. *BioControl*, **1999**, 44, 211-237 | 2.3 | 54 |
| 19 | Characterization of Pheromone Blend for Grapevine Moth, Lobesia botrana by Using Flight Track Recording. *Journal of Chemical Ecology*, **1999**, 25, 389-400 | 2.7 | 40 |
| 18 | Behavioral Response of Female Codling Moths, Cydia pomonella, to Apple Volatiles. *Journal of Chemical Ecology*, **1999**, 25, 1343-1351 | 2.7 | 41 |
| 17 | Sex Pheromone of the Brazilian Apple Leafroller, Bonagota cranaodes Meyrick (Lepidoptera, Tortricidae). *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **1999**, 54, 595-601 | 1.7 | 4 |
| 16 | Sex pheromone of pear moth, Cydia pyrivora. *BioControl*, **1998**, 43, 339-344 | 2.3 | 1 |
| 15 | Effect of Codlemone Isomers on Codling Moth (Lepidoptera: Tortricidae) Male Attraction. *Environmental Entomology*, **1998**, 27, 1250-1254 | 2.1 | 24 |
| 14 | Pheromone Release by Individual Females of Codling Moth, Cydia pomonella. *Journal of Chemical Ecology*, **1997**, 23, 807-815 | 2.7 | 28 |
| 13 | Modulation of Pheromone-Mediated Flight in Male Moths **1997**, 265-274 | | 4 |
| 12 | Behavioral observations and measurements of aerial pheromone in a mating disruption trial against pea mothCydia nigricana F. (Lepidoptera, Tortricidae). *Journal of Chemical Ecology*, **1996**, 22, 191-206 | 2.7 | 21 |
| 11 | Sex pheromones and attractants in the Eucosmini and Grapholitini (Lepidoptera, Tortricidae). *Chemoecology*, **1996**, 7, 13-23 | 2 | 27 |
| 10 | Identification and synthesis of the sex pheromone of Phtheochroa cranaodes (Lepidoptera: Tortricidae). *Tetrahedron Letters*, **1996**, 37, 1505-1508 | 2 | 14 |
| 9 | Mating disruption of pea mothCydia nigricana F. (lepidoptera: Tortricidae) by a repellent blend of sex pheromone and attraction inhibitors. *Journal of Chemical Ecology*, **1994**, 20, 871-87 | 2.7 | 66 |
| 8 | Attraction of pea mothCydia nigricana F. (Lepidoptera: Tortricidae) to female sex pheromone (E,E)-8,10-dodecadien-1-YL acetate, is inhibited by geometric isomersE,Z, Z,E, andZ,Z. *Journal of Chemical Ecology*, **1993**, 19, 1917-28 | 2.7 | 30 |

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| 7 | Sex pheromones of Spilonota ocellana and Spilonota laricana. *Entomologia Experimentalis Et Applicata*, **1991**, 60, 219-223 | 2.1 | 8 |
| 6 | Wind-tunnel study on attraction inhibitor in maleColeophora laricella Hbn. (Lepidoptera: Coleophoridae). *Journal of Chemical Ecology*, **1991**, 17, 1355-62 | 2.7 | 44 |
| 5 | Attraction ofCacoecimorpha pronubana male moths to synthetic sex pheromone blends in the wind tunnel. *Journal of Chemical Ecology*, **1990**, 16, 1507-15 | 2.7 | 13 |
| 4 | Direct Measurement of the Flight Behavior of Male Moths to Calling Females and Synthetic Sex Pheromones. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **1990**, 45, 1067-1069 | 1.7 | 18 |
| 3 | Pheromone emission by individual females of carnation tortrix,Cacoecimorpha pronubana. *Journal of Chemical Ecology*, **1989**, 15, 707-17 | 2.7 | 43 |
| 2 | The human odorant receptor OR10A6 is tuned to the pheromone of the commensal fruit fly Drosophila melanogaster | | 1 |
| 1 | The Drosophila melanogaster pheromone Z4-11Al is encoded together with habitat olfactory cues and mediates species-specific communication | | 1 |