

# Peter Witzgall

## List of Publications by Citations

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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.

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	Sex pheromones and their impact on pest management. <i>Journal of Chemical Ecology</i> , <b>2010</b> , 36, 80-100	2.7	599
95	Codling moth management and chemical ecology. <i>Annual Review of Entomology</i> , <b>2008</b> , 53, 503-22	21.8	282
94	Yeast, not fruit volatiles mediate <i>Drosophila melanogaster</i> attraction, oviposition and development. <i>Functional Ecology</i> , <b>2012</b> , 26, 822-828	5.6	234
93	Plant odor analysis of apple: antennal response of codling moth females to apple volatiles during phenological development. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 3736-41	5.7	135
92	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
91	Flying the fly: long-range flight behavior of <i>Drosophila melanogaster</i> to attractive odors. <i>Journal of Chemical Ecology</i> , <b>2010</b> , 36, 599-607	2.7	118
90	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
89	Host plant volatiles synergize response to sex pheromone in codling moth, <i>Cydia pomonella</i> . <i>Journal of Chemical Ecology</i> , <b>2004</b> , 30, 619-29	2.7	108
88	Antennal and behavioral responses of grapevine moth <i>Lobesia botrana</i> females to volatiles from grapevine. <i>Journal of Chemical Ecology</i> , <b>2005</b> , 31, 77-87	2.7	99
87	Synergism and redundancy in a plant volatile blend attracting grapevine moth females. <i>Phytochemistry</i> , <b>2007</b> , 68, 203-9	4	94
86	Essential host plant cues in the grapevine moth. <i>Die Naturwissenschaften</i> , <b>2006</b> , 93, 141-4	2	91
85	Attraction of codling moth males to apple volatiles. <i>Entomologia Experimentalis Et Applicata</i> , <b>2004</b> , 110, 1-10	2.1	79
84	Attraction and oviposition of <i>Tuta absoluta</i> females in response to tomato leaf volatiles. <i>Journal of Chemical Ecology</i> , <b>2011</b> , 37, 565-74	2.7	78
83	Plant volatiles mediate attraction to host and non-host plant in apple fruit moth, <i>Argyresthia conjugella</i> . <i>Entomologia Experimentalis Et Applicata</i> , <b>2006</b> , 118, 77-85	2.1	74
82	"This is not an apple"-yeast mutualism in codling moth. <i>Journal of Chemical Ecology</i> , <b>2012</b> , 38, 949-57	2.7	69
81	Mating disruption of pea moth <i>Cydia nigricana</i> F. (Lepidoptera: Tortricidae) by a repellent blend of sex pheromone and attraction inhibitors. <i>Journal of Chemical Ecology</i> , <b>1994</b> , 20, 871-87	2.7	66
80	Herbivore-induced plant volatiles provide associational resistance against an ovipositing herbivore. <i>Journal of Ecology</i> , <b>2013</b> , 101, 410-417	6	59

79	Attraction of female grapevine moth to common and specific olfactory cues from 2 host plants. <i>Chemical Senses</i> , <b>2010</b> , 35, 57-64	4.8	57
78	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
77	Sexual Behavior of <i>Drosophila suzukii</i> . <i>Insects</i> , <b>2015</b> , 6, 183-96	2.8	54
76	Behavioral observations of codling moth, <i>Cydia pomonella</i> , in orchards permeated with synthetic pheromone. <i>BioControl</i> , <b>1999</b> , 44, 211-237	2.3	54
75	Identification of further sex pheromone synergists in the codling moth, <i>Cydia pomonella</i> . <i>Entomologia Experimentalis Et Applicata</i> , <b>2001</b> , 101, 131-141	2.1	52
74	A <i>Drosophila</i> female pheromone elicits species-specific long-range attraction via an olfactory channel with dual specificity for sex and food. <i>BMC Biology</i> , <b>2017</b> , 15, 88	7.3	49
73	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
72	Attraction of <i>Drosophila melanogaster</i> males to food-related and fly odours. <i>Journal of Insect Physiology</i> , <b>2012</b> , 58, 125-9	2.4	47
71	Love makes smell blind: mating suppresses pheromone attraction in <i>Drosophila</i> females via Or65a olfactory neurons. <i>Scientific Reports</i> , <b>2014</b> , 4, 7119	4.9	47
70	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
69	Enhanced yeast feeding following mating facilitates control of the invasive fruit pest <i>Drosophila suzukii</i> . <i>Journal of Applied Ecology</i> , <b>2017</b> , 54, 170-177	5.8	46
68	Plant volatiles affect oviposition by codling moths. <i>Chemoecology</i> , <b>2005</b> , 15, 77-83	2	46
67	Wind-tunnel study on attraction inhibitor in male <i>Coleophora laricella</i> Hbn. (Lepidoptera: Coleophoridae). <i>Journal of Chemical Ecology</i> , <b>1991</b> , 17, 1355-62	2.7	44
66	Feeding regulates sex pheromone attraction and courtship in <i>Drosophila</i> females. <i>Scientific Reports</i> , <b>2015</b> , 5, 13132	4.9	43
65	Wind tunnel attraction of grapevine moth females, <i>Lobesia Botrana</i> , to natural and artificial grape odour. <i>Chemoecology</i> , <b>2006</b> , 16, 87-92	2	43
64	Pheromone emission by individual females of carnation tortrix, <i>Cacoecimorpha pronubana</i> . <i>Journal of Chemical Ecology</i> , <b>1989</b> , 15, 707-17	2.7	43
63	Discrepancy in laboratory and field attraction of apple fruit moth <i>Argyresthia conjugella</i> to host plant volatiles. <i>Physiological Entomology</i> , <b>2008</b> , 33, 1-6	1.9	42
62	Masting of rowan <i>Sorbus aucuparia</i> L. and consequences for the apple fruit moth <i>Argyresthia conjugella</i> Zeller. <i>Population Ecology</i> , <b>2003</b> , 45, 25-30	2.1	41

61	Behavioral Response of Female Codling Moths, <i>Cydia pomonella</i> , to Apple Volatiles. <i>Journal of Chemical Ecology</i> , <b>1999</b> , 25, 1343-1351	2.7	41
60	Characterization of Pheromone Blend for Grapevine Moth, <i>Lobesia botrana</i> by Using Flight Track Recording. <i>Journal of Chemical Ecology</i> , <b>1999</b> , 25, 389-400	2.7	40
59	Specific response to herbivore-induced de novo synthesized plant volatiles provides reliable information for host plant selection in a moth. <i>Journal of Experimental Biology</i> , <b>2013</b> , 216, 3257-63	3	39
58	The chemosensory receptors of codling moth <i>Cydia pomonella</i> -expression in larvae and adults. <i>Scientific Reports</i> , <b>2016</b> , 6, 23518	4.9	35
57	Plant odor analysis of potato: response of guatemalan moth to above- and belowground potato volatiles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 5903-9	5.7	34
56	Chemical signaling and insect attraction is a conserved trait in yeasts. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 2962-2974	2.8	33
55	A predicted sex pheromone receptor of codling moth <i>Cydia pomonella</i> detects the plant volatile pear ester. <i>Frontiers in Ecology and Evolution</i> , <b>2014</b> , 2,	3.7	30
54	Attraction of pea moth <i>Cydia nigricana</i> F. (Lepidoptera: Tortricidae) to female sex pheromone (E,E)-8,10-dodecadien-1-yl acetate, is inhibited by geometric isomers E,Z, Z,E, and Z,Z. <i>Journal of Chemical Ecology</i> , <b>1993</b> , 19, 1917-28	2.7	30
53	Novel bioassay demonstrates attraction of the white potato cyst nematode <i>Globodera pallida</i> (Stone) to non-volatile and volatile host plant cues. <i>Journal of Chemical Ecology</i> , <b>2012</b> , 38, 795-801	2.7	29
52	Volatiles from apple ( <i>Malus domestica</i> ) eliciting antennal responses in female codling moth <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae): effect of plant injury and sampling technique. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2001</b> , 56, 262-8	1.7	29
51	Multicomponent Sex Pheromone in Codling Moth (Lepidoptera: Tortricidae). <i>Environmental Entomology</i> , <b>1999</b> , 28, 775-779	2.1	29
50	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
49	Pheromone Release by Individual Females of Codling Moth, <i>Cydia pomonella</i> . <i>Journal of Chemical Ecology</i> , <b>1997</b> , 23, 807-815	2.7	28
48	Sex pheromones and attractants in the Eucosmini and Grapholitini (Lepidoptera, Tortricidae). <i>Chemoecology</i> , <b>1996</b> , 7, 13-23	2	27
47	Candidate pheromone receptors of codling moth <i>Cydia pomonella</i> respond to pheromones and kairomones. <i>Scientific Reports</i> , <b>2017</b> , 7, 41105	4.9	25
46	Effect of Codlemone Isomers on Codling Moth (Lepidoptera: Tortricidae) Male Attraction. <i>Environmental Entomology</i> , <b>1998</b> , 27, 1250-1254	2.1	24
45	Disruption of <i>Phthorimaea operculella</i> (Lepidoptera: Gelechiidae) oviposition by the application of host plant volatiles. <i>Pest Management Science</i> , <b>2014</b> , 70, 628-35	4.6	23
44	New pheromone components of the grapevine moth <i>Lobesia botrana</i> . <i>Journal of Chemical Ecology</i> , <b>2005</b> , 31, 2923-32	2.7	23

43	Behavioral observations and measurements of aerial pheromone in a mating disruption trial against pea moth <i>Cydia nigricana</i> F. (Lepidoptera, Tortricidae). <i>Journal of Chemical Ecology</i> , <b>1996</b> , 22, 191-206	2.7	21
42	Synthetic attractants for the bark beetle parasitoid <i>Coeloides bostrichorum</i> Giraud (Hymenoptera: Braconidae). <i>Die Naturwissenschaften</i> , <b>2001</b> , 88, 88-91	2	20
41	Protocol for Heterologous Expression of Insect Odourant Receptors in <i>Drosophila</i> . <i>Frontiers in Ecology and Evolution</i> , <b>2016</b> , 4,	3.7	20
40	Combining mutualistic yeast and pathogenic virus--a novel method for codling moth control. <i>Journal of Chemical Ecology</i> , <b>2013</b> , 39, 1019-26	2.7	19
39	Pheromone pre-exposure and mating modulate codling moth (Lepidoptera: Tortricidae) response to host plant volatiles. <i>Agricultural and Forest Entomology</i> , <b>2005</b> , 7, 231-236	1.9	19
38	Flight attraction of <i>Spodoptera littoralis</i> (Lepidoptera, Noctuidae) to cotton headspace and synthetic volatile blends. <i>Frontiers in Ecology and Evolution</i> , <b>2015</b> , 3,	3.7	18
37	Mate recognition and reproductive isolation in the sibling species <i>Spodoptera littoralis</i> and <i>Spodoptera litura</i> . <i>Frontiers in Ecology and Evolution</i> , <b>2014</b> , 2,	3.7	18
36	Identification, syntheses, and characterization of the geometric isomers of 9,11-hexadecadienal from female pheromone glands of the sugar cane borer <i>Diatraea saccharalis</i> . <i>Journal of Natural Products</i> , <b>2002</b> , 65, 909-15	4.9	18
35	Direct Measurement of the Flight Behavior of Male Moths to Calling Females and Synthetic Sex Pheromones. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1990</b> , 45, 1067-1069	1.7	18
34	A Conserved Odorant Receptor Detects the Same 1-Indanone Analogs in a Tortricid and a Noctuid Moth. <i>Frontiers in Ecology and Evolution</i> , <b>2015</b> , 3,	3.7	17
33	Pheromone-mediated communication disruption in Guatemalan potato moth, <i>Tecia solanivora</i> . <i>Entomologia Experimentalis Et Applicata</i> , <b>2005</b> , 114, 137-142	2.1	17
32	Dietary glucose regulates yeast consumption in adult <i>Drosophila</i> males. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 504	4.6	16
31	Identification and synthesis of the sex pheromone of <i>Phtheochroa cranaodes</i> (Lepidoptera: Tortricidae). <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 1505-1508	2	14
30	Yeast Volatomes Differentially Affect Larval Feeding in an Insect Herbivore. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	13
29	Plant odor and sex pheromone are integral elements of specific mate recognition in an insect herbivore. <i>Evolution; International Journal of Organic Evolution</i> , <b>2018</b> , 72, 2225-2233	3.8	13
28	Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. <i>Environmental Entomology</i> , <b>2006</b> , 35, 1238-1243	2.1	13
27	Attraction of <i>Cacoecimorpha pronubana</i> male moths to synthetic sex pheromone blends in the wind tunnel. <i>Journal of Chemical Ecology</i> , <b>1990</b> , 16, 1507-15	2.7	13
26	Flight tunnel response of codling moth <i>Cydia pomonella</i> to blends of codlemone, codlemone antagonists and pear ester. <i>Physiological Entomology</i> , <b>2010</b> , 35, 249-254	1.9	12

25	Mating disruption of Guatemalan potato moth <i>Tecia solanivora</i> by attractive and non-attractive pheromone blends. <i>Journal of Chemical Ecology</i> , <b>2012</b> , 38, 63-70	2.7	11
24	Survey of arthropod assemblages responding to live yeasts in an organic apple orchard. <i>Frontiers in Ecology and Evolution</i> , <b>2015</b> , 3,	3.7	11
23	Attractiveness of year-old polyethylene Isonet sex pheromone dispensers for <i>Lobesia botrana</i> . <i>Entomologia Experimentalis Et Applicata</i> , <b>2005</b> , 117, 201-207	2.1	11
22	Synthesis and field tests of sex pheromone components of the leafroller <i>Argyrotaenia sphaleropa</i> . <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2004</b> , 59, 708-12	1.7	10
21	Codling moth males do not discriminate between pheromone and a pheromone/antagonist blend during upwind flight. <i>Die Naturwissenschaften</i> , <b>2003</b> , 90, 419-23	2	10
20	Antennal transcriptomes of three tortricid moths reveal putative conserved chemosensory receptors for social and habitat olfactory cues. <i>Scientific Reports</i> , <b>2017</b> , 7, 41829	4.9	9
19	Pheromone races of <i>Cydia splendana</i> (Lepidoptera, Tortricidae) overlap in host plant association and geographic distribution. <i>Frontiers in Ecology and Evolution</i> , <b>2014</b> , 2,	3.7	9
18	Improving the Performance of the Granulosis Virus of Codling Moth (Lepidoptera: Tortricidae) by Adding the Yeast <i>Saccharomyces cerevisiae</i> with Sugar. <i>Environmental Entomology</i> , <b>2015</b> , 44, 252-9	2.1	8
17	Guatemalan potato moth <i>Tecia solanivora</i> distinguish odour profiles from qualitatively different potatoes <i>Solanum tuberosum</i> L. <i>Phytochemistry</i> , <b>2013</b> , 85, 72-81	4	8
16	Sex pheromones of <i>Spilonota ocellana</i> and <i>Spilonota laricana</i> . <i>Entomologia Experimentalis Et Applicata</i> , <b>1991</b> , 60, 219-223	2.1	8
15	Insulin Signaling in the Peripheral and Central Nervous System Regulates Female Sexual Receptivity during Starvation in. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 685	4.6	7
14	The Scent of the Fly. <i>Journal of Chemical Ecology</i> , <b>2018</b> , 44, 431-435	2.7	6
13	TRPA5, an Ankyrin Subfamily Insect TRP Channel, is Expressed in Antennae of <i>Cydia pomonella</i> (Lepidoptera: Tortricidae) in Multiple Splice Variants. <i>Journal of Insect Science</i> , <b>2016</b> , 16,	2	6
12	Pear Ester I From Discovery to Delivery for Improved Codling Moth Management. <i>ACS Symposium Series</i> , <b>2018</b> , 83-113	0.4	6
11	Sex pheromone of apple fruit moth <i>Argyresthia conjugella</i> (Lepidoptera: Argyresthiidae). <i>Agricultural and Forest Entomology</i> , <b>2002</b> , 4, 233-236	1.9	5
10	Herbivore-Induced Changes in Cotton Modulates Reproductive Behavior in the Moth <i>Spodoptera littoralis</i> . <i>Frontiers in Ecology and Evolution</i> , <b>2017</b> , 5,	3.7	4
9	Sex Pheromone of the Brazilian Apple Leafroller, <i>Bonagota cranaodes</i> Meyrick (Lepidoptera, Tortricidae). <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1999</b> , 54, 595-601	1.7	4
8	Modulation of Pheromone-Mediated Flight in Male Moths <b>1997</b> , 265-274		4

7	Effects of photoperiod and temperature on the development of <i>Bonagota cranaodes</i> . <i>Physiological Entomology</i> , <b>2007</b> , 32, 394-398	1.9	3
6	When does the apple fruit moth ( <i>Argyresthia conjugella</i> ) fly and oviposit?. <i>Entomologia Experimentalis Et Applicata</i> , <b>2005</b> , 115, 351-353	2.1	3
5	Odorant receptor phylogeny confirms conserved channels for sex pheromone and host plant signals in tortricid moths. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 7334-7348	2.8	1
4	Sex pheromone of pear moth, <i>Cydia pyrivora</i> . <i>BioControl</i> , <b>1998</b> , 43, 339-344	2.3	1
3	The human odorant receptor OR10A6 is tuned to the pheromone of the commensal fruit fly <i>Drosophila melanogaster</i>		1
2	The <i>Drosophila melanogaster</i> pheromone Z4-11Al is encoded together with habitat olfactory cues and mediates species-specific communication		1
1	The female sex pheromone (Z)-4-undecenal mediates flight attraction and courtship in <i>Drosophila melanogaster</i> .. <i>Journal of Insect Physiology</i> , <b>2022</b> , 137, 104355	2.4	0