Peter Witzgall

List of Publications by Year
in descending order

97 papers	5,545 citations	61984 43 h-index	85541 71 g-index
104 all docs	104 docs citations	104 times ranked	3504 citing authors

#	Article	IF	Citations
1	The female sex pheromone (Z)-4-undecenal mediates flight attraction and courtship in Drosophila melanogaster. Journal of Insect Physiology, 2022, 137, 104355.	2.0	1
2	Hanseniaspora uvarum Attracts Drosophila suzukii (Diptera: Drosophilidae) With High Specificity. Journal of Economic Entomology, 2022, 115, 999-1007.	1.8	5
3	Yeast and fruit fly mutual niche construction and antagonism against mould. Functional Ecology, 2022, 36, 1639-1654.	3.6	5
4	Odorant receptor phylogeny confirms conserved channels for sex pheromone and host plant signals in tortricid moths. Ecology and Evolution, 2020, 10, 7334-7348.	1.9	6
5	Yeast Volatomes Differentially Affect Larval Feeding in an Insect Herbivore. Applied and Environmental Microbiology, 2019, 85, .	3.1	31
6	The Scent of the Fly. Journal of Chemical Ecology, 2018, 44, 431-435.	1.8	10
7	Chemical signaling and insect attraction is a conserved trait in yeasts. Ecology and Evolution, 2018, 8, 2962-2974.	1.9	62
8	Pear Ester â€“ From Discovery to Delivery for Improved Codling Moth Management. ACS Symposium Series, 2018, , 83-113.	0.5	8
9	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.	2.3	23
10	Enhanced yeast feeding following mating facilitates control of the invasive fruit pest Drosophila suzukii. Journal of Applied Ecology, 2017, 54, 170-177.	4.0	73
11	Candidate pheromone receptors of codling moth Cydia pomonella respond to pheromones and kairomones. Scientific Reports, 2017, 7, 41105.	3.3	54
12	Antennal transcriptomes of three tortricid moths reveal putative conserved chemosensory receptors for social and habitat olfactory cues. Scientific Reports, 2017, 7, 41829.	3.3	17
13	Insulin Signaling in the Peripheral and Central Nervous System Regulates Female Sexual Receptivity during Starvation in Drosophila. Frontiers in Physiology, 2017, 8, 685.	2.8	17
14	Herbivore-Induced Changes in Cotton Modulates Reproductive Behavior in the Moth Spodoptera littoralis. Frontiers in Ecology and Evolution, 2017, 5, .	2.2	10
15	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.	3.8	74
16	Protocol for Heterologous Expression of Insect Odourant Receptors in Drosophila. Frontiers in Ecology and Evolution, 2016, 4, .	2.2	44
17	The chemosensory receptors of codling moth Cydia pomonellaâ€“expression in larvae and adults. Scientific Reports, 2016, 6, 23518.	3.3	57
18	TRPA5, an Ankyrin Subfamily Insect TRP Channel, is Expressed in Antennae ofCydia pomonella(Lepidoptera: Tortricidae) in Multiple Splice Variants. Journal of Insect Science, 2016, 16, 83.	1.5	13

#	Article	IF	Citations
19	Feeding regulates sex pheromone attraction and courtship in Drosophila females. Scientific Reports, 2015, 5, 13132.	3.3	66
20	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.	3.8	65
21	Flight attraction of Spodoptera littoralis (Lepidoptera, Noctuidae) to cotton headspace and synthetic volatile blends. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	28
22	Survey of arthropod assemblages responding to live yeasts in an organic apple orchard. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	16
23	A Conserved Odorant Receptor Detects the Same 1-Indanone Analogs in a Tortricid and a Noctuid Moth. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	24
24	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.	2.6	35
25	Sexual Behavior of Drosophila suzukii. Insects, 2015, 6, 183-196.	2.2	76
26	Improving the Performance of the Granulosis Virus of Codling Moth (Lepidoptera: Tortricidae) by Adding the Yeast Saccharomyces cerevisiae with Sugar. Environmental Entomology, 2015, 44, 252-259.	1.4	12
27	Mate recognition and reproductive isolation in the sibling species Spodoptera littoralis and Spodoptera litura. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	27
28	Dietary glucose regulates yeast consumption in adult Drosophila males. Frontiers in Physiology, 2014, 5, 504.	2.8	18
29	Disruption of Phthorimaea operculella (Lepidoptera: Gelechiidae) oviposition by the application of host plant volatiles. Pest Management Science, 2014, 70, 628-635.	3.4	27
30	A predicted sex pheromone receptor of codling moth Cydia pomonella detects the plant volatile pear ester. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	50
31	Love makes smell blind: mating suppresses pheromone attraction in Drosophila females via Or65a olfactory neurons. Scientific Reports, 2014, 4, 7119.	3.3	61
32	Combining Mutualistic Yeast and Pathogenic Virus â€" A Novel Method for Codling Moth Control. Journal of Chemical Ecology, 2013, 39, 1019-1026.	1.8	25
33	Herbivoreâ€induced plant volatiles provide associational resistance against an ovipositing herbivore. Journal of Ecology, 2013, 101, 410-417.	4.0	69
34	Specific response to herbivore-induced de novo synthesized plant volatiles provide reliable information for host plant selection in a moth. Journal of Experimental Biology, 2013, 216, 3257-63.	1.7	48
35	Guatemalan potato moth Tecia solanivora distinguish odour profiles from qualitatively different potatoes Solanum tuberosum L.. Phytochemistry, 2013, 85, 72-81.	2.9	12
36	Neural coding merges sex and habitat chemosensory signals in an insect herbivore. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130267.	2.6	56

#	Article	IF	Citations
37	Floral to green: mating switches moth olfactory coding and preference. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2314-2322.	2.6	137
38	â€œThis is not an Appleâ€â€“Yeast Mutualism in Codling Moth. Journal of Chemical Ecology, 2012, 38, 949-957.	1.8	91
39	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.	1.8	37
40	Yeast, not fruit volatiles mediate <scp>D</scp>rosophila melanogaster attraction, oviposition and development. Functional Ecology, 2012, 26, 822-828.	3.6	355
41	Attraction of Drosophila melanogaster males to food-related and fly odours. Journal of Insect Physiology, 2012, 58, 125-129.	2.0	61
42	Mating Disruption of Guatemalan Potato Moth Tecia Solanivora by Attractive and Non-Attractive Pheromone Blends. Journal of Chemical Ecology, 2012, 38, 63-70.	1.8	11
43	Putative Chemosensory Receptors of the Codling Moth, Cydia pomonella, Identified by Antennal Transcriptome Analysis. PLoS ONE, 2012, 7, e31620.	2.5	166
44	Attraction and Oviposition of Tuta absoluta Females in Response to Tomato Leaf Volatiles. Journal of Chemical Ecology, 2011, 37, 565-574.	1.8	110
45	Sex Pheromones and Their Impact on Pest Management. Journal of Chemical Ecology, 2010, 36, 80-100.	1.8	758
46	Flying the Fly: Long-range Flight Behavior of Drosophila melanogaster to Attractive Odors. Journal of Chemical Ecology, 2010, 36, 599-607.	1.8	151
47	Attraction of Female Grapevine Moth to Common and Specific Olfactory Cues from 2 Host Plants. Chemical Senses, 2010, 35, 57-64.	2.0	63
48	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, 4291-4303.	1.7	64
49	Flight tunnel response of codling moth Cydia pomonella to blends of codlemone, codlemone antagonists and pear ester. Physiological Entomology, 2010, 35, 249-254.	1.5	14
50	Plant Odor Analysis of Potato: Response of Guatemalan Moth to Above- and Belowground Potato Volatiles. Journal of Agricultural and Food Chemistry, 2009, 57, 5903-5909.	5.2	47
51	Codling Moth Management and Chemical Ecology. Annual Review of Entomology, 2008, 53, 503-522.	11.8	335
52	Discrepancy in laboratory and field attraction of apple fruit moth Argyresthia conjugella to host plant volatiles. Physiological Entomology, 2008, 33, 1-6.	1.5	49
53	Effects of photoperiod and temperature on the development of Bonagota cranaodes. Physiological Entomology, 2007, 32, 394-398.	1.5	3
54	Synergism and redundancy in a plant volatile blend attracting grapevine moth females. Phytochemistry, 2007, 68, 203-209.	2.9	118

#	Article	IF	Citations
55	Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. Environmental Entomology, 2006, 35, 1238-1243.	1.4	14
56	Plant volatiles mediate attraction to host and non-host plant in apple fruit moth, Argyresthia conjugella. Entomologia Experimentalis Et Applicata, 2006, 118, 77-85.	1.4	86
57	Wind tunnel attraction of grapevine moth females, Lobesia Botrana, to natural and artificial grape odour. Chemoecology, 2006, 16, 87-92.	1.1	49
58	Essential host plant cues in the grapevine moth. Die Naturwissenschaften, 2006, 93, 141-144.	1.6	102
59	Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. Environmental Entomology, 2006, 35, 1238-1243.	1.4	8
60	Pheromone pre-exposure and mating modulate codling moth (Lepidoptera: Tortricidae) response to host plant volatiles. Agricultural and Forest Entomology, 2005, 7, 231-236.	1.3	20
61	Pheromone-mediated communication disruption in Guatemalan potato moth, Tecia solanivora. Entomologia Experimentalis Et Applicata, 2005, 114, 137-142.	1.4	23
62	When does the apple fruit moth (Argyresthia conjugella) fly and oviposit?. Entomologia Experimentalis Et Applicata, 2005, 115, 351-353.	1.4	3
63	Attractiveness of year-old polyethylene Isonet sex pheromone dispensers for Lobesia botrana. Entomologia Experimentalis Et Applicata, 2005, 117, 201-207.	1.4	13
64	Plant volatiles affect oviposition by codling moths. Chemoecology, 2005, 15, 77-83.	1.1	54
65	ANTENNAL AND BEHAVIORAL RESPONSES OF GRAPEVINE MOTH Lobesia botrana FEMALES TO VOLATILES FROM GRAPEVINE. Journal of Chemical Ecology, 2005, 31, 77-87.	1.8	120
66	New Pheromone Components of the Grapevine Moth Lobesia botrana. Journal of Chemical Ecology, 2005, 31, 2923-2932.	1.8	25
67	Synthesis and Field Tests of Sex Pheromone Components of the Leafroller Argyrotaenia sphaleropa. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 708-712.	1.4	11
68	Attraction of codling moth males to apple volatiles. Entomologia Experimentalis Et Applicata, 2004, 110, 1-10.	1.4	87
69	Host Plant Volatiles Synergize Response to Sex Pheromone in Codling Moth, Cydia pomonella. Journal of Chemical Ecology, 2004, 30, 619-629.	1.8	136
70	Codling moth males do not discriminate between pheromone and a pheromone/antagonist blend during upwind flight. Die Naturwissenschaften, 2003, 90, 419-423.	1.6	10
71	Masting of rowan Sorbus aucuparia L. and consequences for the apple fruit moth Argyresthia conjugella Zeller. Population Ecology, 2003, 45, 25-30.	1.2	51
72	Identification, Syntheses, and Characterization of the Geometric Isomers of 9,11-Hexadecadienal from Female Pheromone Glands of the Sugar Cane BorerDiatraea saccharalis. Journal of Natural Products, 2002, 65, 909-915.	3.0	19

#	Article	IF	Citations
73	Sex pheromone of apple fruit moth Argyresthia conjugella (Lepidoptera: Argyresthiidae). Agricultural and Forest Entomology, 2002, 4, 233-236.	1.3	5
74	Plant Odor Analysis of Apple:Â Antennal Response of Codling Moth Females to Apple Volatiles during Phenological Development. Journal of Agricultural and Food Chemistry, 2001, 49, 3736-3741.	5.2	152
75	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, 262-268.	1.4	35
76	Synthetic attractants for the bark beetle parasitoid Coeloides bostrichorum Giraud (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	27
77	Identification of further sex pheromone synergists in the codling moth, Cydia pomonella. Entomologia Experimentalis Et Applicata, 2001, 101, 131-141.	1.4	65
78	Multicomponent Sex Pheromone in Codling Moth (Lepidoptera: Tortricidae). Environmental Entomology, 1999, 28, 775-779.	1.4	35
79	Title is missing!. BioControl, 1999, 44, 211-237.	2.0	69
80	Title is missing!. Journal of Chemical Ecology, 1999, 25, 389-400.	1.8	50
81	Behavioral Response of Female Codling Moths, Cydia pomonella, to Apple Volatiles. Journal of Chemical Ecology, 1999, 25, 1343-1351.	1.8	51
82	Sex Pheromone of the Brazilian Apple Leafroller, Bonagota cranaodes Meyrick (Lepidoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.4	7
83	Sex pheromone of pear moth, Cydia pyrivora. BioControl, 1998, 43, 339-344.	2.0	2
84	Effect of Codlemone Isomers on Codling Moth (Lepidoptera: Tortricidae) Male Attraction. Environmental Entomology, 1998, 27, 1250-1254.	1.4	25
85	Location of the pheromone producing gland in the European grapevine moth, Lobesia botrana (Lepidoptera : Tortricidae). Applied Entomology and Zoology, 1998, 33, 507-511.	1.2	2
86	Pheromone Release by Individual Females of Codling Moth, Cydia pomonella. Journal of Chemical Ecology, 1997, 23, 807-815.	1.8	35
87	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.	1.8	23
88	Sex pheromones and attractants in the Eucosmini and Grapholitini (Lepidoptera, Tortricidae). Chemoecology, 1996, 7, 13-23.	1.1	41
89	Identification and synthesis of the sex pheromone of Phtheochroa cranaodes (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.4	18
90	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, 871-887.	1.8	74

#	Article	IF	Citations
91	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, 1917-1928.	1.8	33
92	Sex pheromones of Spilonota ocellana and Spilonota laricana. Entomologia Experimentalis Et Applicata, 1991, 60, 219-223.	1.4	12
93	Wind-tunnel study on attraction inhibitor in maleColeophora laricella Hbn. (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.8	47
94	Attraction ofCacoecimorpha pronubana male moths to synthetic sex pheromone blends in the wind tunnel. Journal of Chemical Ecology, 1990, 16, 1507-1515.	1.8	16
95	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.	1.4	25
96	Pheromone emission by individual females of carnation tortrix,Cacoecimorpha pronubana. Journal of Chemical Ecology, 1989, 15, 707-717.	1.8	44
97	Pheromone races of Cydia splendana (Lepidoptera, Tortricidae) overlap in host plant association and geographic distribution. Frontiers in Ecology and Evolution, 0, 2, .	2.2	12