

Peter Witzgall

List of Publications by Year in descending order

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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	Sex Pheromones and Their Impact on Pest Management. <i>Journal of Chemical Ecology</i> , 2010, 36, 80-100.	1.8	758
2	Yeast, not fruit volatiles mediate <i>Drosophila melanogaster</i> attraction, oviposition and development. <i>Functional Ecology</i> , 2012, 26, 822-828.	3.6	355
3	Codling Moth Management and Chemical Ecology. <i>Annual Review of Entomology</i> , 2008, 53, 503-522.	11.8	335
4	Putative Chemosensory Receptors of the Codling Moth, <i>Cydia pomonella</i> , Identified by Antennal Transcriptome Analysis. <i>PLoS ONE</i> , 2012, 7, e31620.	2.5	166
5	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> , 2001, 49, 3736-3741.	5.2	152
6	Flying the Fly: Long-range Flight Behavior of <i>Drosophila melanogaster</i> to Attractive Odors. <i>Journal of Chemical Ecology</i> , 2010, 36, 599-607.	1.8	151
7	Floral to green: mating switches moth olfactory coding and preference. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 2314-2322.	2.6	137
8	Host Plant Volatiles Synergize Response to Sex Pheromone in Codling Moth, <i>Cydia pomonella</i> . <i>Journal of Chemical Ecology</i> , 2004, 30, 619-629.	1.8	136
9	ANTENNAL AND BEHAVIORAL RESPONSES OF GRAPEVINE MOTH <i>Lobesia botrana</i> FEMALES TO VOLATILES FROM GRAPEVINE. <i>Journal of Chemical Ecology</i> , 2005, 31, 77-87.	1.8	120
10	Synergism and redundancy in a plant volatile blend attracting grapevine moth females. <i>Phytochemistry</i> , 2007, 68, 203-209.	2.9	118
11	Attraction and Oviposition of <i>Tuta absoluta</i> Females in Response to Tomato Leaf Volatiles. <i>Journal of Chemical Ecology</i> , 2011, 37, 565-574.	1.8	110
12	Essential host plant cues in the grapevine moth. <i>Die Naturwissenschaften</i> , 2006, 93, 141-144.	1.6	102
13	“This is not an Apple” Yeast Mutualism in Codling Moth. <i>Journal of Chemical Ecology</i> , 2012, 38, 949-957.	1.8	91
14	Attraction of codling moth males to apple volatiles. <i>Entomologia Experimentalis Et Applicata</i> , 2004, 110, 1-10.	1.4	87
15	Plant volatiles mediate attraction to host and non-host plant in apple fruit moth, <i>Argyresthia conjugella</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2006, 118, 77-85.	1.4	86
16	Sexual Behavior of <i>Drosophila suzukii</i> . <i>Insects</i> , 2015, 6, 183-196.	2.2	76
17	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> , 1994, 20, 871-887.	1.8	74
18	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> , 2017, 15, 88.	3.8	74

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19	Enhanced yeast feeding following mating facilitates control of the invasive fruit pest <i>Drosophila suzukii</i> . <i>Journal of Applied Ecology</i> , 2017, 54, 170-177.	4.0	73
20	Title is missing!. <i>BioControl</i> , 1999, 44, 211-237.	2.0	69
21	Herbivore-induced plant volatiles provide associational resistance against an ovipositing herbivore. <i>Journal of Ecology</i> , 2013, 101, 410-417.	4.0	69
22	Feeding regulates sex pheromone attraction and courtship in <i>Drosophila</i> females. <i>Scientific Reports</i> , 2015, 5, 13132.	3.3	66
23	Identification of further sex pheromone synergists in the codling moth, <i>Cydia pomonella</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2001, 101, 131-141.	1.4	65
24	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
25	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> , 2010, 213, 4291-4303.	1.7	64
26	Attraction of Female Grapevine Moth to Common and Specific Olfactory Cues from 2 Host Plants. <i>Chemical Senses</i> , 2010, 35, 57-64.	2.0	63
27	Chemical signaling and insect attraction is a conserved trait in yeasts. <i>Ecology and Evolution</i> , 2018, 8, 2962-2974.	1.9	62
28	Attraction of <i>Drosophila melanogaster</i> males to food-related and fly odours. <i>Journal of Insect Physiology</i> , 2012, 58, 125-129.	2.0	61
29	Love makes smell blind: mating suppresses pheromone attraction in <i>Drosophila</i> females via Or65a olfactory neurons. <i>Scientific Reports</i> , 2014, 4, 7119.	3.3	61
30	The chemosensory receptors of codling moth <i>Cydia pomonella</i> expression in larvae and adults. <i>Scientific Reports</i> , 2016, 6, 23518.	3.3	57
31	Neural coding merges sex and habitat chemosensory signals in an insect herbivore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130267.	2.6	56
32	Plant volatiles affect oviposition by codling moths. <i>Chemoecology</i> , 2005, 15, 77-83.	1.1	54
33	Candidate pheromone receptors of codling moth <i>Cydia pomonella</i> respond to pheromones and kairomones. <i>Scientific Reports</i> , 2017, 7, 41105.	3.3	54
34	Behavioral Response of Female Codling Moths, <i>Cydia pomonella</i> , to Apple Volatiles. <i>Journal of Chemical Ecology</i> , 1999, 25, 1343-1351.	1.8	51
35	Masting of rowan <i>Sorbus aucuparia</i> L. and consequences for the apple fruit moth <i>Argyresthia conjugella</i> Zeller. <i>Population Ecology</i> , 2003, 45, 25-30.	1.2	51
36	Title is missing!. <i>Journal of Chemical Ecology</i> , 1999, 25, 389-400.	1.8	50

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37	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> , 2014, 2, .	2.2	50
38	Wind tunnel attraction of grapevine moth females, <i>Lobesia Botrana</i> , to natural and artificial grape odour. <i>Chemoecology</i> , 2006, 16, 87-92.	1.1	49
39	Discrepancy in laboratory and field attraction of apple fruit moth <i>Argyresthia conjugella</i> to host plant volatiles. <i>Physiological Entomology</i> , 2008, 33, 1-6.	1.5	49
40	Specific response to herbivore-induced <i>de novo</i> synthesized plant volatiles provide reliable information for host plant selection in a moth. <i>Journal of Experimental Biology</i> , 2013, 216, 3257-63.	1.7	48
41	Wind-tunnel study on attraction inhibitor in male <i>Coleophora laricella</i> Hbn. (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.8	47
42	Plant Odor Analysis of Potato: Response of Guatemalan Moth to Above- and Belowground Potato Volatiles. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 5903-5909.	5.2	47
43	Pheromone emission by individual females of carnation tortrix, <i>Cacoecimorpha pronubana</i> . <i>Journal of Chemical Ecology</i> , 1989, 15, 707-717.	1.8	44
44	Protocol for Heterologous Expression of Insect Odourant Receptors in <i>Drosophila</i> . <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	44
45	Sex pheromones and attractants in the Eucosmini and Grapholitini (Lepidoptera, Tortricidae). <i>Chemoecology</i> , 1996, 7, 13-23.	1.1	41
46	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> , 2012, 38, 795-801.	1.8	37
47	Pheromone Release by Individual Females of Codling Moth, <i>Cydia pomonella</i> . <i>Journal of Chemical Ecology</i> , 1997, 23, 807-815.	1.8	35
48	Multicomponent Sex Pheromone in Codling Moth (Lepidoptera: Tortricidae). <i>Environmental Entomology</i> , 1999, 28, 775-779.	1.4	35
49	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> , 2001, 56, 262-268.	1.4	35
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> , 2015, 282, 20141884.	2.6	35
51	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> , 1993, 19, 1917-1928.	1.8	33
52	Yeast Volatomes Differentially Affect Larval Feeding in an Insect Herbivore. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	31
53	Flight attraction of <i>Spodoptera littoralis</i> (Lepidoptera, Noctuidae) to cotton headspace and synthetic volatile blends. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	28
54	Synthetic attractants for the bark beetle parasitoid <i>Coeloides bostrichorum</i> Giraud (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	27

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55	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> , 2014, 2, .	2.2	27
56	Disruption of <i>Phthorimaea operculella</i> (Lepidoptera: Gelechiidae) oviposition by the application of host plant volatiles. <i>Pest Management Science</i> , 2014, 70, 628-635.	3.4	27
57	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> , 1990, 45, 1067-1069.	1.4	25
58	Effect of Codlemone Isomers on Codling Moth (Lepidoptera: Tortricidae) Male Attraction. <i>Environmental Entomology</i> , 1998, 27, 1250-1254.	1.4	25
59	New Pheromone Components of the Grapevine Moth <i>Lobesia botrana</i> . <i>Journal of Chemical Ecology</i> , 2005, 31, 2923-2932.	1.8	25
60	Combining Mutualistic Yeast and Pathogenic Virus " A Novel Method for Codling Moth Control. <i>Journal of Chemical Ecology</i> , 2013, 39, 1019-1026.	1.8	25
61	A Conserved Odorant Receptor Detects the Same 1-Indanone Analogs in a Tortricid and a Noctuid Moth. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	24
62	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> , 1996, 22, 191-206.	1.8	23
63	Pheromone-mediated communication disruption in Guatemalan potato moth, <i>Tecia solanivora</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005, 114, 137-142.	1.4	23
64	Plant odor and sex pheromone are integral elements of specific mate recognition in an insect herbivore. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2225-2233.	2.3	23
65	Pheromone pre-exposure and mating modulate codling moth (Lepidoptera: Tortricidae) response to host plant volatiles. <i>Agricultural and Forest Entomology</i> , 2005, 7, 231-236.	1.3	20
66	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> , 2002, 65, 909-915.	3.0	19
67	Identification and synthesis of the sex pheromone of <i>Phtheochroa cranaodes</i> (Lepidoptera: Tj ETQq1 1 0.784314 r _g BT /Overlock 10 T P.4 18	2.4	18
68	Dietary glucose regulates yeast consumption in adult <i>Drosophila</i> males. <i>Frontiers in Physiology</i> , 2014, 5, 504.	2.8	18
69	Antennal transcriptomes of three tortricid moths reveal putative conserved chemosensory receptors for social and habitat olfactory cues. <i>Scientific Reports</i> , 2017, 7, 41829.	3.3	17
70	Insulin Signaling in the Peripheral and Central Nervous System Regulates Female Sexual Receptivity during Starvation in <i>Drosophila</i> . <i>Frontiers in Physiology</i> , 2017, 8, 685.	2.8	17
71	Attraction of <i>Cacoecimorpha pronubana</i> male moths to synthetic sex pheromone blends in the wind tunnel. <i>Journal of Chemical Ecology</i> , 1990, 16, 1507-1515.	1.8	16
72	Survey of arthropod assemblages responding to live yeasts in an organic apple orchard. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	16

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73	Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. <i>Environmental Entomology</i> , 2006, 35, 1238-1243.	1.4	14
74	Flight tunnel response of codling moth <i>Cydia pomonella</i> to blends of codlemone, codlemone antagonists and pear ester. <i>Physiological Entomology</i> , 2010, 35, 249-254.	1.5	14
75	Attractiveness of year-old polyethylene Isonet sex pheromone dispensers for <i>Lobesia botrana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005, 117, 201-207.	1.4	13
76	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> , 2016, 16, 83.	1.5	13
77	Sex pheromones of <i>Spilonota ocellana</i> and <i>Spilonota laricana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1991, 60, 219-223.	1.4	12
78	Guatemalan potato moth <i>Tecia solanivora</i> distinguish odour profiles from qualitatively different potatoes <i>Solanum tuberosum</i> L.. <i>Phytochemistry</i> , 2013, 85, 72-81.	2.9	12
79	Pheromone races of <i>Cydia splendana</i> (Lepidoptera, Tortricidae) overlap in host plant association and geographic distribution. <i>Frontiers in Ecology and Evolution</i> , 0, 2, .	2.2	12
80	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> , 2015, 44, 252-259.	1.4	12
81	Synthesis and Field Tests of Sex Pheromone Components of the Leafroller <i>Argyrotaenia spheropa</i> . <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2004, 59, 708-712.	1.4	11
82	Mating Disruption of Guatemalan Potato Moth <i>Tecia Solanivora</i> by Attractive and Non-Attractive Pheromone Blends. <i>Journal of Chemical Ecology</i> , 2012, 38, 63-70.	1.8	11
83	Codling moth males do not discriminate between pheromone and a pheromone/antagonist blend during upwind flight. <i>Die Naturwissenschaften</i> , 2003, 90, 419-423.	1.6	10
84	Herbivore-Induced Changes in Cotton Modulates Reproductive Behavior in the Moth <i>Spodoptera littoralis</i> . <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	2.2	10
85	The Scent of the Fly. <i>Journal of Chemical Ecology</i> , 2018, 44, 431-435.	1.8	10
86	Pear Ester “ From Discovery to Delivery for Improved Codling Moth Management. <i>ACS Symposium Series</i> , 2018, , 83-113.	0.5	8
87	Flight Tunnel Responses of Z Strain European Corn Borer Females to Corn and Hemp Plants. <i>Environmental Entomology</i> , 2006, 35, 1238-1243.	1.4	8
88	Sex Pheromone of the Brazilian Apple Leafroller, <i>Bonagota cranaodes</i> Meyrick (Lepidoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 142 T	1.4	8
89	Odorant receptor phylogeny confirms conserved channels for sex pheromone and host plant signals in tortricid moths. <i>Ecology and Evolution</i> , 2020, 10, 7334-7348.	1.9	6
90	Sex pheromone of apple fruit moth <i>Argyresthia conjugella</i> (Lepidoptera: Argyresthiidae). <i>Agricultural and Forest Entomology</i> , 2002, 4, 233-236.	1.3	5

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91	<i>Hanseniaspora uvarum</i> Attracts <i>Drosophila suzukii</i> (Diptera: Drosophilidae) With High Specificity. <i>Journal of Economic Entomology</i> , 2022, 115, 999-1007.	1.8	5
92	Yeast and fruit fly mutual niche construction and antagonism against mould. <i>Functional Ecology</i> , 2022, 36, 1639-1654.	3.6	5
93	When does the apple fruit moth (<i>Argyresthia conjugella</i>) fly and oviposit?. <i>Entomologia Experimentalis Et Applicata</i> , 2005, 115, 351-353.	1.4	3
94	Effects of photoperiod and temperature on the development of <i>Bonagota cranaodes</i> . <i>Physiological Entomology</i> , 2007, 32, 394-398.	1.5	3
95	Sex pheromone of pear moth, <i>Cydia pyrivora</i> . <i>BioControl</i> , 1998, 43, 339-344.	2.0	2
96	Location of the pheromone producing gland in the European grapevine moth, <i>Lobesia botrana</i> (Lepidoptera : Tortricidae). <i>Applied Entomology and Zoology</i> , 1998, 33, 507-511.	1.2	2
97	The female sex pheromone (Z)-4-undecenal mediates flight attraction and courtship in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2022, 137, 104355.	2.0	1