

# Hong-Lei Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

990  
citations

430874

18  
h-index

477307

29  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1157  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of sex pheromone composition and biosynthesis in <i>Helicoverpa armigera</i> , <i>H. assulta</i> and their hybrid. <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 575-583.	2.7	71
2	Selection on male sex pheromone composition contributes to butterfly reproductive isolation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142734.	2.6	68
3	Neofunctionalization in an ancestral insect desaturase lineage led to rare $\delta^6$ pheromone signals in the Chinese tussah silkworm. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 742-751.	2.7	67
4	A plant factory for moth pheromone production. <i>Nature Communications</i> , 2014, 5, 3353.	12.8	67
5	Composition of physiologically important fatty acids in great tits differs between urban and rural populations on a seasonal basis. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	55
6	A moth pheromone brewery: production of (Z)-11-hexadecenol by heterologous co-expression of two biosynthetic genes from a noctuid moth in a yeast cell factory. <i>Microbial Cell Factories</i> , 2013, 12, 125.	4.0	42
7	Receptor for detection of a Type II sex pheromone in the winter moth <i>Operophtera brumata</i> . <i>Scientific Reports</i> , 2016, 6, 18576.	3.3	41
8	Sex pheromone biosynthetic pathways are conserved between moths and the butterfly <i>Bicyclus anynana</i> . <i>Nature Communications</i> , 2014, 5, 3957.	12.8	40
9	Species-Dependent Effects of the Urban Environment on Fatty Acid Composition and Oxidative Stress in Birds. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	2.2	39
10	Production of moth sex pheromones for pest control by yeast fermentation. <i>Metabolic Engineering</i> , 2020, 62, 312-321.	7.0	39
11	Elucidation of the sex-pheromone biosynthesis producing 5,7-dodecadienes in <i>Dendrolimus punctatus</i> (Lepidoptera: Lasiocampidae) reveals $\delta^{11}$ - and $\delta^9$ -desaturases with unusual catalytic properties. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 440-452.	2.7	37
12	Fatty acid profiles of great tit ( <i>Parus major</i> ) eggs differ between urban and rural habitats, but not between coniferous and deciduous forests. <i>Die Naturwissenschaften</i> , 2016, 103, 55.	1.6	37
13	Multi-Omics Analysis of Fatty Alcohol Production in Engineered Yeasts <i>Saccharomyces cerevisiae</i> and <i>Yarrowia lipolytica</i> . <i>Frontiers in Genetics</i> , 2019, 10, 747.	2.3	32
14	Terminal fatty-acyl-CoA desaturase involved in sex pheromone biosynthesis in the winter moth ( <i>Operophtera brumata</i> ). <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 715-722.	2.7	27
15	Multi-Functional Desaturases in Two <i>Spodoptera</i> Moths with $\delta^{11}$ and $\delta^{12}$ Desaturation Activities. <i>Journal of Chemical Ecology</i> , 2019, 45, 378-387.	1.8	27
16	Biosynthesis of Unusual Moth Pheromone Components Involves Two Different Pathways in the Navel Orangeworm, <i>Amyelois transitella</i> . <i>Journal of Chemical Ecology</i> , 2010, 36, 535-547.	1.8	24
17	Migratory refueling affects non-enzymatic antioxidant capacity, but does not increase lipid peroxidation. <i>Physiology and Behavior</i> , 2016, 158, 26-32.	2.1	22
18	Production of moth sex pheromone precursors in <i>Nicotiana</i> sp.: a worthwhile new approach to pest control. <i>Journal of Pest Science</i> , 2020, 93, 1333-1346.	3.7	22

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19	Identification, Synthesis, and Behavioral Activity of 5,11-Dimethylpentacosane, A Novel Sex Pheromone Component of the Greater Wax Moth, <i>Galleria mellonella</i> (L.). <i>Journal of Chemical Ecology</i> , 2014, 40, 387-395.	1.8	18
20	Identification and Biosynthesis of Novel Male Specific Esters in the Wings of the Tropical Butterfly, <i>Bicyclus martius sanaos</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 549-559.	1.8	17
21	Ionotropic receptors in the turnip moth <i>Agrotis segetum</i> respond to repellent medium-chain fatty acids. <i>BMC Biology</i> , 2022, 20, 34.	3.8	17
22	Challenges of pheromone-based mating disruption of <i>Cydia strobilella</i> and <i>Dioryctria abietella</i> in spruce seed orchards. <i>Journal of Pest Science</i> , 2018, 91, 639-650.	3.7	16
23	Identification of the Sex Pheromone of the Spruce Seed Moth, <i>Cydia strobilella</i> L. <i>Journal of Chemical Ecology</i> , 2010, 36, 305-313.	1.8	14
24	Assessment of genetic and pheromonal diversity of the <i>Cydia strobilella</i> species complex (Lepidoptera: Tortricidae). <i>Systematic Entomology</i> , 2013, 38, 305-315.	3.9	12
25	Green Chemistry Production of Codlemone, the Sex Pheromone of the Codling Moth ( <i>Cydia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TF <i>Chemical Ecology</i> , 2021, 47, 950-967.	1.8	12
26	Genetic basis of sex pheromone blend difference between <i>Helicoverpa armigera</i> (Hübner) and <i>Helicoverpa assulta</i> (Guenée) (Lepidoptera: Noctuidae). <i>Journal of Insect Physiology</i> , 2008, 54, 813-817.	2.0	11
27	Genetic divergence and evidence for sympatric host-races in the highly polyphagous brown tail moth, <i>Euproctis chrysorrhoea</i> (Lepidoptera: Erebidae). <i>Evolutionary Ecology</i> , 2014, 28, 829-848.	1.2	11
28	Stereoisomeric Analysis of 6,10,14-Trimethylpentadecan-2-ol and the Corresponding Ketone in Wing Extracts from African <i>Bicyclus</i> Butterfly Species. <i>Journal of Chemical Ecology</i> , 2015, 41, 44-51.	1.8	11
29	Identification of the Female-Produced Sex Pheromone of the Leafminer <i>Holocacista capensis</i> Infesting Grapevine in South Africa. <i>Journal of Chemical Ecology</i> , 2015, 41, 724-731.	1.8	10
30	Characterization of volatile components extracted from <i>Vangueria infausta</i> (African medlar) by using GC-MS. <i>Journal of Essential Oil Research</i> , 2015, 27, 76-81.	2.7	10
31	Differentiation in putative male sex pheromone components across and within populations of the African butterfly <i>Bicyclus anynana</i> as a potential driver of reproductive isolation. <i>Ecology and Evolution</i> , 2016, 6, 6064-6084.	1.9	10
32	Lubrication characteristics of wax esters from oils produced by a genetically-enhanced oilseed crop. <i>Tribology International</i> , 2020, 146, 106234.	5.9	10
33	Biosynthesis of the Sex Pheromone Component (E,Z)-7,9-Dodecadienyl Acetate in the European Grapevine Moth, <i>Lobesia botrana</i> , Involving $\Delta^{11}$ Desaturation and an Elusive $\Delta^7$ Desaturase. <i>Journal of Chemical Ecology</i> , 2021, 47, 248-264.	1.8	8
34	Release of moth pheromone compounds from <i>Nicotiana benthamiana</i> upon transient expression of heterologous biosynthetic genes. <i>BMC Biology</i> , 2022, 20, 80.	3.8	8
35	Chemical composition of anal droplets of the eusocial gall-inducing thrips <i>Kladothrips intermedius</i> . <i>Chemoecology</i> , 2014, 24, 85-94.	1.1	7
36	Biosynthesis and PBAN-Regulated Transport of Pheromone Polyenes in the Winter Moth, <i>Operophtera brumata</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 790-796.	1.8	6

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37	Identification, isolation and characterization of the antifeedant constituent of <i>Clausena anisata</i> against <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae). <i>Insect Science</i> , 2009, 16, 247-253.	3.0	5
38	Bioproduction of (Z,E)-9,12-tetradecadienyl acetate (ZETA), the major pheromone component of <i>Plodia</i> , <i>Ephestia</i> , and <i>Spodoptera</i> species in yeast. <i>Pest Management Science</i> , 2022, 78, 1048-1059.	3.4	4
39	Sex Pheromones of Two Leafminer Species, <i>Antispila oinophylla</i> and <i>Holocacista rivillei</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Ove	1.8	5
40	Can differential fatty acid composition help migrating birds to limit oxidative lipid damage?. <i>Physiology and Behavior</i> , 2022, 249, 113768.	2.1	3
41	Sex pheromone of the cloaked pug moth, <i>Eupithecia abietaria</i> (Lepidoptera: Geometridae), a pest of spruce cones. <i>Journal of Applied Entomology</i> , 2015, 139, 352-360.	1.8	2
42	Manufacturing specialized wax esters in plants. <i>Metabolic Engineering</i> , 2022, 72, 391-402.	7.0	1