Hong-Lei Wang

List of Publications by Year
in descending order

42	990	430874 18	477307 29
papers	citations	h-index	g-index

47	47	47	1157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioproduction of (Z,E)â€9,12â€tetradecadienyl acetate (<scp>ZETA</scp>), the major pheromone component of Plodia, Ephestia, and Spodoptera species in yeast. Pest Management Science, 2022, 78, 1048-1059.	3.4	4
2	Ionotropic receptors in the turnip moth Agrotis segetum respond to repellent medium-chain fatty acids. BMC Biology, 2022, 20, 34.	3.8	17
3	Release of moth pheromone compounds from Nicotiana benthamiana upon transient expression of heterologous biosynthetic genes. BMC Biology, 2022, 20, 80.	3.8	8
4	Can differential fatty acid composition help migrating birds to limit oxidative lipid damage?. Physiology and Behavior, 2022, 249, 113768.	2.1	3
5	Manufacturing specialized wax esters in plants. Metabolic Engineering, 2022, 72, 391-402.	7.0	1
6	Biosynthesis of the Sex Pheromone Component (E,Z)-7,9-Dodecadienyl Acetate in the European Grapevine Moth, Lobesia botrana, Involving â^†11 Desaturation and an Elusive â^†7 Desaturase. Journal of Chemical Ecology, 2021, 47, 248-264.	1.8	8
7	Green Chemistry Production of Codlemone, the Sex Pheromone of the Codling Moth (Cydia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Chemical Ecology, 2021, 47, 950-967.	1.8	12
8	Production of moth sex pheromones for pest control by yeast fermentation. Metabolic Engineering, 2020, 62, 312-321.	7.0	39
9	Production of moth sex pheromone precursors inÂNicotianaÂspp.: a worthwhile new approach to pest control. Journal of Pest Science, 2020, 93, 1333-1346.	3.7	22
10	Lubrication characteristics of wax esters from oils produced by a genetically-enhanced oilseed crop. Tribology International, 2020, 146, 106234.	5.9	10
11	Multi-Omics Analysis of Fatty Alcohol Production in Engineered Yeasts Saccharomyces cerevisiae and Yarrowia lipolytica. Frontiers in Genetics, 2019, 10, 747.	2.3	32
12	Multi-Functional Desaturases in Two Spodoptera Moths with â^†11 and â^†12 Desaturation Activities. Journal of Chemical Ecology, 2019, 45, 378-387.	1.8	27
13	Sex Pheromones of Two Leafminer Species, Antispila oinophylla and Holocacista rivillei (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	3
14	Challenges of pheromone-based mating disruption of Cydia strobilella and Dioryctria abietella in spruce seed orchards. Journal of Pest Science, 2018, 91, 639-650.	3.7	16
15	Species-Dependent Effects of the Urban Environment on Fatty Acid Composition and Oxidative Stress in Birds. Frontiers in Ecology and Evolution, 2017, 5, .	2.2	39
16	Migratory refueling affects non-enzymatic antioxidant capacity, but does not increase lipid peroxidation. Physiology and Behavior, 2016, 158, 26-32.	2.1	22
17	Fatty acid profiles of great tit (Parus major) eggs differ between urban and rural habitats, but not between coniferous and deciduous forests. Die Naturwissenschaften, 2016, 103, 55.	1.6	37
18	Receptor for detection of a Type II sex pheromone in the winter moth Operophtera brumata. Scientific Reports, 2016, 6, 18576.	3.3	41

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19	Differentiation in putative male sex pheromone components across and within populations of the African butterfly Bicyclus anynana as a potential driver of reproductive isolation. Ecology and Evolution, 2016, 6, 6064-6084.	1.9	10
20	Sex pheromone of the cloaked pug moth, E upithecia abietaria (L epidoptera: G eometridae), a pest of spruce cones. Journal of Applied Entomology, 2015, 139, 352-360.	1.8	2
21	Composition of physiologically important fatty acids in great tits differs between urban and rural populations on a seasonal basis. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	55
22	Stereoisomeric Analysis of 6,10,14-Trimethylpentadecan-2-ol and the Corresponding Ketone in Wing Extracts from African Bicyclus Butterfly Species. Journal of Chemical Ecology, 2015, 41, 44-51.	1.8	11
23	Selection on male sex pheromone composition contributes to butterfly reproductive isolation. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142734.	2.6	68
24	Identification of the Female-Produced Sex Pheromone of the Leafminer Holocacista capensis Infesting Grapevine in South Africa. Journal of Chemical Ecology, 2015, 41, 724-731.	1.8	10
25	Characterization of volatile components extracted fromVangueria infausta(African medlar) by using GCâ€“MS. Journal of Essential Oil Research, 2015, 27, 76-81.	2.7	10
26	Sex pheromone biosynthetic pathways are conserved between moths and the butterfly Bicyclus anynana. Nature Communications, 2014, 5, 3957.	12.8	40
27	Identification, Synthesis, and Behavioral Activity of 5,11-Dimethylpentacosane, A Novel Sex Pheromone Component of the Greater Wax Moth, Galleria Mellonella (L.). Journal of Chemical Ecology, 2014, 40, 387-395.	1.8	18
28	Chemical composition of anal droplets of the eusocial gall-inducing thrips Kladothrips intermedius. Chemoecology, 2014, 24, 85-94.	1.1	7
29	A plant factory for moth pheromone production. Nature Communications, 2014, 5, 3353.	12.8	67
30	Genetic divergence and evidence for sympatric host-races in the highly polyphagous brown tail moth, Euproctis chrysorrhoea (Lepidoptera: Erebidae). Evolutionary Ecology, 2014, 28, 829-848.	1.2	11
31	Identification and Biosynthesis of Novel Male Specific Esters in the Wings of the Tropical Butterfly, Bicyclus martius sanaos. Journal of Chemical Ecology, 2014, 40, 549-559.	1.8	17
32	Biosynthesis and PBAN-Regulated Transport of Pheromone Polyenes in the Winter Moth, Operophtera brumata. Journal of Chemical Ecology, 2013, 39, 790-796.	1.8	6
33	Assessment of genetic and pheromonal diversity of the Cydia strobilella species complex (Lepidoptera: Tortricidae). Systematic Entomology, 2013, 38, 305-315.	3.9	12
34	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. Microbial Cell Factories, 2013, 12, 125.	4.0	42
35	Terminal fatty-acyl-CoA desaturase involved in sex pheromone biosynthesis in the winter moth (Operophtera brumata). Insect Biochemistry and Molecular Biology, 2011, 41, 715-722.	2.7	27
36	Identification of the Sex Pheromone of the Spruce Seed Moth, Cydia strobilella L.. Journal of Chemical Ecology, 2010, 36, 305-313.	1.8	14

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37	Biosynthesis of Unusual Moth Pheromone Components Involves Two Different Pathways in the Navel Orangeworm, Amyelois transitella. Journal of Chemical Ecology, 2010, 36, 535-547.	1.8	24
38	Elucidation of the sex-pheromone biosynthesis producing 5,7-dodecadienes in Dendrolimus punctatus (Lepidoptera: Lasiocampidae) reveals Î”11- and Î”9-desaturases with unusual catalytic properties. Insect Biochemistry and Molecular Biology, 2010, 40, 440-452.	2.7	37
39	Neofunctionalization in an ancestral insect desaturase lineage led to rare Î”6 pheromone signals in the Chinese tussah silkworm. Insect Biochemistry and Molecular Biology, 2010, 40, 742-751.	2.7	67
40	Identification, isolation and characterization of the antifeedant constituent of Clausena anisata against Helicoverpa armigera (Lepidoptera: Noctuidae). Insect Science, 2009, 16, 247-253.	3.0	5
41	Genetic basis of sex pheromone blend difference between Helicoverpa armigera (HÃ¼bner) and Helicoverpa assulta (GuenÃ©e) (Lepidoptera: Noctuidae). Journal of Insect Physiology, 2008, 54, 813-817.	2.0	11
42	Comparative study of sex pheromone composition and biosynthesis in Helicoverpa armigera, H. assulta and their hybrid. Insect Biochemistry and Molecular Biology, 2005, 35, 575-583.	2.7	71