Chen-Zhu Wang

List of Publications by Year
in descending order

70	2,490	186265	233421
papers	citations	28 h-index	45 g-index

79	79	79	1724
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revisiting the sex pheromone of the fall armyworm Spodoptera frugiperda, a new invasive pest in South China. Insect Science, 2022, 29, 865-878.	3.0	21
2	Comparison of functions of pheromone receptor repertoires in Helicoverpa armigera and Helicoverpa assulta using a Drosophila expression system. Insect Biochemistry and Molecular Biology, 2022, 141, 103702.	2.7	9
3	Functional analysis of pheromone receptor repertoire in the fall armyworm, Spodoptera frugiperda. Pest Management Science, 2022, 78, 2052-2064.	3.4	16
4	Habituation to a Deterrent Plant Alkaloid Develops Faster in the Specialist Herbivore Helicoverpa assulta Than in Its Generalist Congener Helicoverpa armigera and Coincides with Taste Neuron Desensitisation. Insects, 2022, 13, 21.	2.2	0
5	Review of pheromone receptors in heliothine species: expression, function, and evolution. Entomologia Experimentalis Et Applicata, 2021, 169, 156-171.	1.4	19
6	Contribution of odorant binding proteins to olfactory detection of (Z)-11-hexadecenal in Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2021, 131, 103554.	2.7	16
7	Identification of a gustatory receptor tuned to sinigrin in the cabbage butterfly Pieris rapae. PLoS Genetics, 2021, 17, e1009527.	3.5	29
8	Effects of NPF on larval taste responses and feeding behaviors in Ostrinia furnacalis. Journal of Insect Physiology, 2021, 133, 104276.	2.0	5
9	The cotton bollworm endoparasitoid Campoletis chlorideae is attracted by cis-jasmone or cis-3-hexenyl acetate but not by their mixtures. Arthropod-Plant Interactions, 2020, 14, 169-179.	1.1	13
10	The olfactory reception of acetic acid and ionotropic receptors in the Oriental armyworm, Mythimna separata Walker. Insect Biochemistry and Molecular Biology, 2020, 118, 103312.	2.7	24
11	The Molecular Basis of Host Selection in a Crucifer-Specialized Moth. Current Biology, 2020, 30, 4476-4482.e5.	3.9	67
12	Olfactory coding of intra- and interspecific pheromonal messages by the male Mythimna separata in North China. Insect Biochemistry and Molecular Biology, 2020, 125, 103439.	2.7	14
13	A moth odorant receptor highly expressed in the ovipositor is involved in detecting host-plant volatiles. ELife, 2020, 9, .	6.0	43
14	A gustatory receptor tuned to the steroid plant hormone brassinolide in Plutella xylostella (Lepidoptera: Plutellidae). ELife, 2020, 9, .	6.0	25
15	An odorant receptor mediates the attractiveness of cisâ€jasmone to Campoletis chlorideae, the endoparasitoid of Helicoverpa armigera. Insect Molecular Biology, 2019, 28, 23-34.	2.0	32
16	Plant-Based Natural Product Chemistry for Integrated Pest Management of Drosophila suzukii. Journal of Chemical Ecology, 2019, 45, 626-637.	1.8	19
17	An effector from cotton bollworm oral secretion impairs host plant defense signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14331-14338.	7.1	98
18	Dissecting sex pheromone communication of Mythimna separata (Walker) in North China from receptor molecules and antennal lobes to behavior. Insect Biochemistry and Molecular Biology, 2019, 111, 103176.	2.7	26

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19	The ethological significance and olfactory detection of herbivore-induced plant volatiles in interactions of plants, herbivorous insects, and parasitoids. Arthropod-Plant Interactions, 2019, 13, 161-179.	1.1	39
20	A determining factor for insect feeding preference in the silkworm, Bombyx mori. PLoS Biology, 2019, 17, e3000162.	5.6	72
21	An odorant receptor and glomerulus responding to farnesene in Helicoverpa assulta (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo	2.7	33
22	Expressional divergence of insect GOX genes: From specialist to generalist glucose oxidase. Journal of Insect Physiology, 2017, 100, 21-27.	2.0	9
23	Design of larval chemical attractants based on odorant response spectra of odorant receptors in the cotton bollworm. Insect Biochemistry and Molecular Biology, 2017, 84, 48-62.	2.7	52
24	Expressional divergences of two desaturase genes determine the opposite ratios of two sex pheromone components in Helicoverpa armigera and Helicoverpa assulta. Insect Biochemistry and Molecular Biology, 2017, 90, 90-100.	2.7	20
25	Expressional divergence of the fatty acid-amino acid conjugate-hydrolyzing aminoacylase 1 (L-ACY-1) in Helicoverpa armigera and Helicoverpa assulta. Scientific Reports, 2017, 7, 8721.	3.3	6
26	Higher plasticity in feeding preference of a generalist than a specialist: experiments with two closely related Helicoverpa species. Scientific Reports, 2017, 7, 17876.	3.3	20
27	Two single-point mutations shift the ligand selectivity of a pheromone receptor between two closely related moth species. ELife, 2017, 6, .	6.0	63
28	Conserved chemosensory proteins in the proboscis and eyes of Lepidoptera. International Journal of Biological Sciences, 2016, 12, 1394-1404.	6.4	72
29	Functional validation of the carbon dioxide receptor in labial palps of Helicoverpa armigera moths. Insect Biochemistry and Molecular Biology, 2016, 73, 12-19.	2.7	73
30	Identification and testing of oviposition attractant chemical compounds for Musca domestica. Scientific Reports, 2016, 6, 33017.	3.3	22
31	Olfactory perception and behavioral effects of sex pheromone gland components in Helicoverpa armigera and Helicoverpa assulta. Scientific Reports, 2016, 6, 22998.	3.3	38
32	The Inheritance of the Pheromone Sensory System in Two Helicoverpa Species: Dominance of H. armigera and Possible Introgression from H. assulta. Frontiers in Cellular Neuroscience, 2016, 10, 302.	3.7	6
33	Sexual differences in electrophysiological and behavioral responses of Cydia molesta to peach and pear volatiles. Entomologia Experimentalis Et Applicata, 2015, 157, 279-290.	1.4	21
34	Specific olfactory neurons and glomeruli are associated to differences in behavioral responses to pheromone components between two Helicoverpa species. Frontiers in Behavioral Neuroscience, 2015, 9, 206.	2.0	51
35	Differential immunosuppression by Campoletis chlorideae eggs and ichnovirus in larvae of Helicoverpa armigera and Spodoptera exigua. Journal of Invertebrate Pathology, 2015, 130, 88-96.	3.2	9
36	A gustatory receptor tuned to d-fructose in antennal sensilla chaetica of Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2015, 60, 39-46.	2.7	82

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37	Unique function of a chemosensory protein in the proboscis of two Helicoverpa species. Journal of Experimental Biology, 2014, 217, 1821-6.	1.7	67
38	Sequence similarity and functional comparisons of pheromone receptor orthologs in two closely related Helicoverpa species. Insect Biochemistry and Molecular Biology, 2014, 48, 63-74.	2.7	74
39	INHERITANCE OF ELECTROPHYSIOLOGICAL RESPONSES TO LEAF SAPS OF HOSTâ€•AND NONHOST PLANTS IN TWO Helicoverpa SPECIES AND THEIR HYBRIDS. Archives of Insect Biochemistry and Physiology, 2014, 86, 19-32.	1.5	8
40	Host preference and suitability in the endoparasitoid Campoletis chlorideae is associated with its ability to suppress host immune responses. Ecological Entomology, 2013, 38, 173-182.	2.2	13
41	Peripheral Coding of Sex Pheromone Blends with Reverse Ratios in Two Helicoverpa Species. PLoS ONE, 2013, 8, e70078.	2.5	34
42	A Lysine at the C-Terminus of an Odorant-Binding Protein is Involved in Binding Aldehyde Pheromone Components in Two Helicoverpa Species. PLoS ONE, 2013, 8, e55132.	2.5	40
43	Identification and Field Evaluation of Pear Fruit Volatiles Attractive to the Oriental Fruit Moth, Cydia molesta. Journal of Chemical Ecology, 2012, 38, 1003-1016.	1.8	78
44	Three pheromone-binding proteins help segregation between two Helicoverpa species utilizing the same pheromone components. Insect Biochemistry and Molecular Biology, 2012, 42, 708-716.	2.7	85
45	Electrophysiological and behavioral responses of Helicoverpa assulta (Lepidoptera: Noctuidae) to tobacco volatiles. Arthropod-Plant Interactions, 2012, 6, 375-384.	1.1	30
46	CHARACTERIZATION OF GLUCOSEâ€•INDUCED GLUCOSE OXIDASE GENE AND PROTEIN EXPRESSION IN <scp>H</scp>elicoverpa armigera LARVAE. Archives of Insect Biochemistry and Physiology, 2012, 79, 104-119.	1.5	12
47	Expression in Antennae and Reproductive Organs Suggests a Dual Role of an Odorant-Binding Protein in Two Sibling Helicoverpa Species. PLoS ONE, 2012, 7, e30040.	2.5	147
48	Tarsal taste neurons of Helicoverpa assulta (GuenÃ©e) respond to sugars and amino acids, suggesting a role in feeding and oviposition. Journal of Insect Physiology, 2011, 57, 1332-1340.	2.0	21
49	Experience-based behavioral and chemosensory changes in the generalist insect herbivore Helicoverpa armigera exposed to two deterrent plant chemicals. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 791-799.	1.6	20
50	Sequencing and characterization of six cDNAs putatively encoding three pairs of pheromone receptors in two sibling species, Helicoverpa armigera and Helicoverpa assulta. Journal of Insect Physiology, 2010, 56, 586-593.	2.0	34
51	Tarsal taste neuron activity and proboscis extension reflex in response to sugars and amino acids in Helicoverpa armigera (HÃ¼bner). Journal of Experimental Biology, 2010, 213, 2889-2895.	1.7	50
52	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
53	Superparasitism Behavior and Host Discrimination of <I>Campoletis chlorideae</I> (Ichneumonidae: Hymenoptera) Toward <I>Mythimna separata</I> (Noctuidae: Lepidoptera). Environmental Entomology, 2010, 39, 1249-1254.	1.4	14
54	Cloning and expression of five heat shock protein genes in relation to cold hardening and development in the leafminer, Liriomyza sativa. Journal of Insect Physiology, 2009, 55, 279-285.	2.0	116

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55	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
56	Diet factors responsible for the change of the glucose oxidase activity in labial salivary glands of Helicoverpa armigera. Archives of Insect Biochemistry and Physiology, 2008, 68, 113-121.	1.5	20
57	Interspecific competition between the ichneumonid CampoletisÂchlorideae and the braconid MicroplitisÂmediator in their host HelicoverpaÂarmigera. Entomologia Experimentalis Et Applicata, 2008, 127, 10-19.	1.4	26
58	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
59	Mechanisms of premating isolation between Helicoverpa armigera (HÃ¼bner) and Helicoverpa assulta (GuenÃ©e) (Lepidoptera: Noctuidae). Journal of Insect Physiology, 2007, 53, 170-178.	2.0	27
60	Cloning and characterization of two Campoletis chlorideae ichnovirus vankyrin genes expressed in parasitized host Helicoverpa armigera. Journal of Insect Physiology, 2007, 53, 699-707.	2.0	20
61	Larval feeding induced defensive responses in tobacco: comparison of two sibling species of Helicoverpa with different diet breadths. Planta, 2007, 226, 215-224.	3.2	24
62	Interpretation of the biological species concept from interspecific hybridization of two Helicoverpa species. Science Bulletin, 2007, 52, 284-286.	1.7	7
63	Similar attractiveness of maize volatiles induced by Helicoverpa armigera and Pseudaletia separata to the generalist parasitoid Campoletis chlorideae. Entomologia Experimentalis Et Applicata, 2006, 118, 87-96.	1.4	39
64	Genetic analysis of larval host-plant preference in two sibling species of Helicoverpa. Entomologia Experimentalis Et Applicata, 2006, 118, 221-228.	1.4	30
65	Genetic differentiation ofHelicoverpa armigera(HÃ¼bner) andH. assulta(GuenÃ©e) (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo	3.0	13
66	Wound-induced green leaf volatiles cause the release of acetylated derivatives and a terpenoid in maize. Phytochemistry, 2006, 67, 34-42.	2.9	67
67	Behavioral and electrophysiological responses of Helicoverpa assulta, H. armigera (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2006, 192, 1037-1047.	1.6	22
68	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
69	cDNA Cloning and Molecular Characterization of a Cysteine-rich Gene fromCampoletis chlorideaePolydnavirus. DNA Sequence, 2003, 14, 413-419.	0.7	7
70	The Interactions between Soybean Trypsin Inhibitor and Î´-Endotoxin of Bacillus thuringiensis in Helicoverpa armigera Larva. Journal of Invertebrate Pathology, 2000, 75, 259-266.	3.2	23