

Deguang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

332
citations

840776

11
h-index

888059

17
g-index

28
all docs

28
docs citations

28
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change simulations revealed potentially drastic shifts in insect community structure and crop yields in China's farmland. <i>Journal of Pest Science</i> , 2023, 96, 55-69.	3.7	12
2	OUP accepted manuscript. <i>Journal of Economic Entomology</i> , 2022, , .	1.8	1
3	Increasing risk of aphids spreading plant viruses in maize fields on both sides of China's Heihe-Tengchong line under climate change. <i>Pest Management Science</i> , 2022, 78, 3061-3070.	3.4	6
4	Functional Characterization of Chemosensory Protein AmalCSP5 From Apple Buprestid Beetle, <i>Agrilus mali</i> (Coleoptera: Buprestidae). <i>Journal of Economic Entomology</i> , 2021, 114, 348-359.	1.8	3
5	Analyses of structural dynamics revealed flexible binding mechanism for the <i>Agrilus mali</i> odorant binding protein 8 towards plant volatiles. <i>Pest Management Science</i> , 2021, 77, 1642-1653.	3.4	15
6	Divergence of Desiccation-Related Traits in <i>Sitobion avenae</i> from Northwestern China. <i>Insects</i> , 2020, 11, 626.	2.2	3
7	Transcriptome profiling revealed potentially important roles of defensive gene expression in the divergence of insect biotypes: a case study with the cereal aphid <i>Sitobion avenae</i> . <i>BMC Genomics</i> , 2020, 21, 546.	2.8	6
8	Transcriptome Profiling Revealed Potentially Critical Roles for Digestion and Defense-Related Genes in Insects' Use of Resistant Host Plants: A Case Study with <i>Sitobion Avenae</i> . <i>Insects</i> , 2020, 11, 90.	2.2	6
9	Genetic Divergence of Two <i>Sitobion avenae</i> Biotypes on Barley and Wheat in China. <i>Insects</i> , 2020, 11, 117.	2.2	1
10	Identification and Genetic Differentiation of <i>Sitobion avenae</i> (Hemiptera: Aphididae) Biotypes in China. <i>Journal of Economic Entomology</i> , 2019, 113, 407-417.	1.8	4
11	Clonal Diversity and Genetic Differentiation of <i>Sitobion avenae</i> (Hemiptera: Aphididae) From Wheat and Barley in China. <i>Journal of Economic Entomology</i> , 2019, 112, 1217-1226.	1.8	6
12	Transcriptional Responses in Defense-Related Genes of <i>Sitobion avenae</i> (Hemiptera: Aphididae) Feeding on Wheat and Barley. <i>Journal of Economic Entomology</i> , 2019, 112, 382-395.	1.8	10
13	Electrophysiological and Alarm Responses of <i>Solenopsis invicta</i> Buren (Hymenoptera: Formicidae) to 2-Ethyl-3,5-dimethylpyrazine. <i>Insects</i> , 2019, 10, 451.	2.2	4
14	Genetic Differentiation and Structure of <i>Sitobion avenae</i> (Hemiptera: Aphididae) Populations From Moist, Semiarid and Arid Areas in Northwestern China. <i>Journal of Economic Entomology</i> , 2018, 111, 603-611.	1.8	11
15	Expression Profiles and Functional Characterization of Two Odorant-Binding Proteins From the Apple Buprestid Beetle <i>Agrilus mali</i> (Coleoptera: Buprestidae). <i>Journal of Economic Entomology</i> , 2018, 111, 1420-1432.	1.8	36
16	Effects of a presumably protective endosymbiont on life-history characters and their plasticity for its host aphid on three plants. <i>Ecology and Evolution</i> , 2018, 8, 13004-13013.	1.9	10
17	Probing behaviors and their plasticity for the aphid <i>Sitobion avenae</i> on three alternative host plants. <i>PLoS ONE</i> , 2018, 13, e0203219.	2.5	3
18	Life-history responses of insects to water-deficit stress: a case study with the aphid <i>Sitobion avenae</i> . <i>BMC Ecology</i> , 2018, 18, 17.	3.0	13

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19	Impact of water-deficit stress on tritrophic interactions in a wheat-aphid-parasitoid system. PLoS ONE, 2017, 12, e0186599.	2.5	20
20	Morphology and Ultrastructure of Antennal Sensilla in Male and Female <i>Agrilus mali</i> (Coleoptera: Buprestidae). Journal of Insect Science, 2016, 16, 87.	1.5	19
21	Life-history trait plasticity and its relationships with plant adaptation and insect fitness: a case study on the aphid <i>Sitobion avenae</i> . Scientific Reports, 2016, 6, 29974.	3.3	12
22	Comparison of fitness traits and their plasticity on multiple plants for <i>Sitobion avenae</i> infected and cured of a secondary endosymbiont. Scientific Reports, 2016, 6, 23177.	3.3	20
23	Molecular and Quantitative Genetic Differentiation in <i>Sitobion avenae</i> Populations from Both Sides of the Qinling Mountains. PLoS ONE, 2015, 10, e0122343.	2.5	20
24	Impacts of Water Deficiency on Life History of <i>Sitobion avenae</i> Clones From Semi-arid and Moist Areas. Journal of Economic Entomology, 2015, 108, 2250-2258.	1.8	18
25	Genetic Basis and Selection for Life-History Trait Plasticity on Alternative Host Plants for the Cereal Aphid <i>Sitobion avenae</i> . PLoS ONE, 2014, 9, e106179.	2.5	19
26	Differential Performance of <i>Sitobion avenae</i> Populations From Both Sides of the Qinling Mountains Under Common Garden Conditions. Environmental Entomology, 2013, 42, 1174-1183.	1.4	26
27	Differential Performance of <i>Sitobion avenae</i> (Hemiptera: Aphididae) Clones From Wheat and Barley With Implications for its Management Through Alternative Cultural Practices. Journal of Economic Entomology, 2013, 106, 1294-1301.	1.8	27
28	Functional divergence of three glutathione transferases in two biotypes of the English grain aphid, <i>Sitobion avenae</i> . Entomologia Experimentalis Et Applicata, 0, , .	1.4	1