Xiaolong Cao

List of Publications by Year in descending order

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38 papers	1,303 citations	394421 19 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	1396 citing authors

#	Article	IF	Citations
1	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, Manduca sexta. Insect Biochemistry and Molecular Biology, 2016, 76, 118-147.	2.7	154
2	Overview of chitin metabolism enzymes in Manduca sexta: Identification, domain organization, phylogenetic analysis and gene expression. Insect Biochemistry and Molecular Biology, 2015, 62, 114-126.	2.7	95
3	Analysis of chitin-binding proteins from Manduca sexta provides new insights into evolution of peritrophin A-type chitin-binding domains in insects. Insect Biochemistry and Molecular Biology, 2015, 62, 127-141.	2.7	88
4	Sequence conservation, phylogenetic relationships, and expression profiles of nondigestive serine proteases and serine protease homologs in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 51-63.	2.7	82
5	The immune signaling pathways of Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 64-74.	2.7	79
6	Structural features, evolutionary relationships, and transcriptional regulation of C-type lectin-domain proteins in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 75-85.	2.7	65
7	Improved annotation of the insect vector of citrus greening disease: biocuration by a diverse genomics community. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	3.0	62
8	Annotation and expression analysis of cuticular proteins from the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 100-113.	2.7	60
9	Serine protease-related proteins in the malaria mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2017, 88, 48-62.	2.7	54
10	Building a platform for predicting functions of serine protease-related proteins in Drosophila melanogaster and other insects. Insect Biochemistry and Molecular Biology, 2018, 103, 53-69.	2.7	51
11	Phylogenetic analysis and expression profiling of the pattern recognition receptors: Insights into molecular recognition of invading pathogens in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 38-50.	2.7	44
12	A genome-wide analysis of antimicrobial effector genes and their transcription patterns in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 23-37.	2.7	43
13	Hemolymph protease-5 links the melanization and Toll immune pathways in the tobacco hornworm, Manduca sexta. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23581-23587.	7.1	36
14	An analysis of 67 RNA-seq datasets from various tissues at different stages of a model insect, Manduca sexta. BMC Genomics, 2017, 18, 796.	2.8	34
15	Changes in the Plasma Proteome of Manduca sexta Larvae in Relation to the Transcriptome Variations after an Immune Challenge: Evidence for High Molecular Weight Immune Complex Formation. Molecular and Cellular Proteomics, 2016, 15, 1176-1187.	3.8	31
16	Semi-quantitative analysis of changes in the plasma peptidome of Manduca sexta larvae and their correlation with the transcriptome variations upon immune challenge. Insect Biochemistry and Molecular Biology, 2014, 47, 46-54.	2.7	30
17	Identification and profiling of Manduca sexta microRNAs and their possible roles in regulating specific transcripts in fat body, hemocytes, and midgut. Insect Biochemistry and Molecular Biology, 2015, 62, 11-22.	2.7	26
18	The Manduca sexta serpinome: Analysis of serpin genes and proteins in the tobacco hornworm. Insect Biochemistry and Molecular Biology, 2018, 102, 21-30.	2.7	24

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19	Alignment of Cell Lineage Trees Elucidates Genetic Programs for the Development and Evolution of Cell Types. IScience, 2020, 23, 101273.	4.1	23
20	Inhibition of immune pathway-initiating hemolymph protease-14 by Manduca sexta serpin-12, a conserved mechanism for the regulation of melanization and Toll activation in insects. Insect Biochemistry and Molecular Biology, 2020, 116, 103261.	2.7	22
21	Whole Genome Sequencing and Assembly of the Asian Honey Bee Apis dorsata. Genome Biology and Evolution, 2020, 12, 3677-3683.	2.5	21
22	Integrated modeling of protein-coding genes in the Manduca sexta genome using RNA-Seq data from the biochemical model insect. Insect Biochemistry and Molecular Biology, 2015, 62, 2-10.	2.7	20
23	Polymorphic mobile element insertions contribute to gene expression and alternative splicing in human tissues. Genome Biology, 2020, 21, 185.	8.8	20
24	Serpin-9 and -13 regulate hemolymph proteases during immune responses of Manduca sexta. Insect Biochemistry and Molecular Biology, 2017, 90, 71-81.	2.7	17
25	Manduca sexta serpin-12 controls the prophenoloxidase activation system in larval hemolymph. Insect Biochemistry and Molecular Biology, 2018, 99, 27-36.	2.7	16
26	Digestion-related proteins in the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2020, 126, 103457.	2.7	16
27	Whole-exome sequencing identifies genes associated with Touretteâ€™s disorder in multiplex families. Molecular Psychiatry, 2021, , .	7.9	16
28	Hemolymph proteins of Anopheles gambiae larvae infected by Escherichia coli. Developmental and Comparative Immunology, 2017, 74, 110-124.	2.3	11
29	Changes in composition and levels of hemolymph proteins during metamorphosis of Manduca sexta. Insect Biochemistry and Molecular Biology, 2020, 127, 103489.	2.7	11
30	Solution Structure and Expression Profile of an Insect Cytokine: Manduca sexta Stress Response Peptide-2. Protein and Peptide Letters, 2016, 24, 3-11.	0.9	10
31	The Genome of Rhyzopertha dominica (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. Genes, 2022, 13, 446.	2.4	10
32	Predicting embryonic aneuploidy rate in IVF patients using whole-exome sequencing. Human Genetics, 2022, 141, 1615-1627.	3.8	9
33	The three-dimensional structure and recognition mechanism of Manduca sexta peptidoglycan recognition protein-1. Insect Biochemistry and Molecular Biology, 2019, 108, 44-52.	2.7	8
34	CHAPTER 15. Structure and Function of Stress-Responsive Peptides in Insects. RSC Drug Discovery Series, 0, , 438-451.	0.3	8
35	PrecisionProDB: improving the proteomics performance for precision medicine. Bioinformatics, 2021, 37, 3361-3363.	4.1	4
36	Integrated Modeling of Structural Genes Using MCuNovo. Methods in Molecular Biology, 2019, 1858, 45-57.	0.9	2

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37	Expression and Characterization of <i>Manduca sexta</i> Stress Responsive Peptide-1; An Inducer of Antimicrobial Peptide Synthesis. Biochemistry and Molecular Biology, 2019, 4, 42.	0.4	1
38	Identification and characterization of serpin genes in Manduca sexta. FASEB Journal, 2018, 32, .	0.5	0