Xin Wang

List of Publications by Year in descending order

20 papers	6,049 citations	687363 13 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	7198 citing authors

#	Article	IF	Citations
1	Chitin and cuticle proteins form the cuticular layer in the spinning duct of silkworm. Acta Biomaterialia, 2022, 145, 260-271.	8.3	11
2	Fiber Formation and Mechanical Properties of Bombyx mori Silk Are Regulated by Vacuolar-Type ATPase. ACS Biomaterials Science and Engineering, 2021, 7, 5532-5540.	5.2	4
3	Co-occurrence network analyses of rhizosphere soil microbial PLFAs and metabolites over continuous cropping seasons in tobacco. Plant and Soil, 2020, 452, 119-135.	3.7	32
4	Structural and Mechanical Properties of Silk from Different Instars of Bombyx mori. Biomacromolecules, 2019, 20, 1203-1216.	5.4	58
5	Disruption of the Metal Ion Environment by EDTA for Silk Formation Affects the Mechanical Properties of Silkworm Silk. International Journal of Molecular Sciences, 2019, 20, 3026.	4.1	11
6	GC/MS-based metabolomics analysis reveals active fatty acids biosynthesis in the Filippi's gland of the silkworm, Bombyx mori, during silk spinning. Insect Biochemistry and Molecular Biology, 2019, 105, 1-9.	2.7	22
7	A strategy for improving the mechanical properties of silk fiber by directly injection of ferric ions into silkworm. Materials and Design, 2018, 146, 134-141.	7.0	24
8	Inhibition of silkworm vacuolarâ€type ATPase activity by its inhibitor Bafilomycin A1 induces caspaseâ€dependent apoptosis in an embryonic cell line of silkworm. Archives of Insect Biochemistry and Physiology, 2018, 99, e21507.	1.5	7
9	Proteome profile of spinneret from the silkworm, Bombyx mori. Proteomics, 2017, 17, 1600301.	2.2	6
10	In vivo effects of metal ions on conformation and mechanical performance of silkworm silks. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 567-576.	2.4	44
11	Metabolomics Analysis of the Larval Head of the Silkworm, Bombyx mori. International Journal of Molecular Sciences, 2016, 17, 1460.	4.1	19
12	Genome-Wide Identification, Characterization and Expression Analysis of the Solute Carrier 6 Gene Family in Silkworm (Bombyx mori). International Journal of Molecular Sciences, 2016, 17, 1675.	4.1	5
13	Integrative Proteomics and Metabolomics Analysis of Insect Larva Brain: Novel Insights into the Molecular Mechanism of Insect Wandering Behavior. Journal of Proteome Research, 2016, 15, 193-204.	3.7	23
14	Comparative transcriptome analysis of Bombyx mori spinnerets and Filippi's glands suggests their role in silk fiber formation. Insect Biochemistry and Molecular Biology, 2016, 68, 89-99.	2.7	24
15	Ca2+ and endoplasmic reticulum Ca2+-ATPase regulate the formation of silk fibers with favorable mechanical properties. Journal of Insect Physiology, 2015, 73, 53-59.	2.0	26
16	Modifying the Mechanical Properties of Silk Fiber by Genetically Disrupting the Ionic Environment for Silk Formation. Biomacromolecules, 2015, 16, 3119-3125.	5.4	44
17	Comparative proteomic analysis of silkworm fat body after knocking out fibroin heavy chain gene: a novel insight into cross-talk between tissues. Functional and Integrative Genomics, 2015, 15, 611-637.	3.5	15
18	Comparative Proteomics Reveal Diverse Functions and Dynamic Changes of Bombyx mori Silk Proteins Spun from Different Development Stages. Journal of Proteome Research, 2013, 12, 5213-5222.	3.7	75

#	Article	IF	Citations
19	Shotgun proteomic analysis of the Bombyx mori anterior silk gland: An insight into the biosynthetic fiber spinning process. Proteomics, 2013, 13, 2657-2663.	2.2	30
20	The Genome Sequence of Drosophila melanogaster. Science, 2000, 287, 2185-2195.	12.6	5,566