# Cheng Lu

List of Publications by Year
in descending order

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| 102 | 1,401 | 361296 | 477173 |
|---|---|---|---|
| papers | citations | 20 | 29 |
| | | h-index | g-index |

| 106 | 106 | 106 | 1117 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Establishment and characterization of an ovarian cell line of the silkworm, Bombyx mori. Tissue and Cell, 2010, 42, 42-46. | 1.0 | 83 |
| 2 | Establishment of a highly efficient virus-inducible CRISPR/Cas9 system in insect cells. Antiviral Research, 2016, 130, 50-57. | 1.9 | 55 |
| 3 | Inhibition of BmNPV replication in silkworm cells using inducible and regulated artificial microRNA precursors targeting the essential viral gene lef-11. Antiviral Research, 2014, 104, 143-152. | 1.9 | 48 |
| 4 | Body Shape and Coloration of Silkworm Larvae Are Influenced by a Novel Cuticular Protein. Genetics, 2017, 207, 1053-1066. | 1.2 | 43 |
| 5 | PI3K/Akt Activated by GPR30 and Src Regulates 17Î²-Estradiol-Induced Cultured Immature Boar Sertoli Cells Proliferation. Reproductive Sciences, 2017, 24, 57-66. | 1.1 | 37 |
| 6 | Bombyx mori nucleopolyhedrovirus ORF79 is a per os infectivity factor associated with the PIF complex. Virus Research, 2014, 184, 62-70. | 1.1 | 36 |
| 7 | Aspartate Decarboxylase is Required for a Normal Pupa Pigmentation Pattern in the Silkworm, Bombyx mori. Scientific Reports, 2015, 5, 10885. | 1.6 | 33 |
| 8 | Ara-c induces cell cycle G1/S arrest by inducing upregulation of the INK4 family gene or directly inhibiting the formation of the cell cycle-dependent complex CDK4/cyclin D1. Cell Cycle, 2019, 18, 2293-2306. | 1.3 | 33 |
| 9 | C-lysozyme contributes to antiviral immunity in Bombyx mori against nucleopolyhedrovirus infection. Journal of Insect Physiology, 2018, 108, 54-60. | 0.9 | 32 |
| 10 | A newly discovered member of the Atlastin family, BmAtlastin-n, has an antiviral effect against BmNPV in Bombyx mori. Scientific Reports, 2016, 6, 28946. | 1.6 | 30 |
| 11 | Rhodiola rosea extends lifespan and improves stress tolerance in silkworm, Bombyx mori. Biogerontology, 2016, 17, 373-381. | 2.0 | 29 |
| 12 | p27 inhibits CDK6/CCND1 complex formation resulting in cell cycle arrest and inhibition of cell proliferation. Cell Cycle, 2018, 17, 2335-2348. | 1.3 | 28 |
| 13 | Identification of Genes that Control Silk Yield by RNA Sequencing Analysis of Silkworm (Bombyx mori) Strains of Variable Silk Yield. International Journal of Molecular Sciences, 2018, 19, 3718. | 1.8 | 27 |
| 14 | Excision of Nucleopolyhedrovirus Form Transgenic Silkworm Using the CRISPR/Cas9 System. Frontiers in Microbiology, 2018, 9, 209. | 1.5 | 27 |
| 15 | BmREEPa Is a Novel Gene that Facilitates BmNPV Entry into Silkworm Cells. PLoS ONE, 2015, 10, e0144575. | 1.1 | 26 |
| 16 | QTL analysis of cocoon shell weight identifies BmRPL18 associated with silk protein synthesis in silkworm by pooling sequencing. Scientific Reports, 2017, 7, 17985. | 1.6 | 25 |
| 17 | Mitochondrial Apoptotic Pathway Is Activated by H2O2-Mediated Oxidative Stress in BmN-SWU1 Cells from Bombyx mori Ovary. PLoS ONE, 2015, 10, e0134694. | 1.1 | 24 |
| 18 | Bombyx mori Nuclear Polyhedrosis Virus (BmNPV) Induces Host Cell Autophagy to Benefit Infection. Viruses, 2018, 10, 14. | 1.5 | 24 |

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|---|---|---|---|
| 19 | CRISPR/Cas12a Mediated Genome Editing Enhances Bombyx mori Resistance to BmNPV. Frontiers in Bioengineering and Biotechnology, 2020, 8, 841. | 2.0 | 24 |
| 20 | Oligomerization of Baculovirus LEF-11 Is Involved in Viral DNA Replication. PLoS ONE, 2015, 10, e0144930. | 1.1 | 22 |
| 21 | Cuticular protein defective Bamboo mutant of Bombyx mori is sensitive to environmental stresses. Pesticide Biochemistry and Physiology, 2018, 148, 111-115. | 1.6 | 21 |
| 22 | Characterization and Expression of Genes Involved in the Ethylene Biosynthesis and Signal Transduction during Ripening of Mulberry Fruit. PLoS ONE, 2015, 10, e0122081. | 1.1 | 20 |
| 23 | Molecular cloning, expression, purification and characterization of a novel cellulase gene (Bh-EGaseI) in the beetle Batocera horsfieldi. Gene, 2016, 576, 45-51. | 1.0 | 20 |
| 24 | Establishment of a baculovirus-inducible CRISPR/Cas9 system for antiviral research in transgenic silkworms. Applied Microbiology and Biotechnology, 2018, 102, 9255-9265. | 1.7 | 20 |
| 25 | Comparative analysis of the integument transcriptomes of the black dilute mutant and the wild-type silkworm Bombyx mori. Scientific Reports, 2016, 6, 26114. | 1.6 | 18 |
| 26 | Baculovirus LEF-11 Hijack Host ATPase ATAD3A to Promote Virus Multiplication in Bombyx mori cells. Scientific Reports, 2017, 7, 46187. | 1.6 | 18 |
| 27 | BmNHR96 participate BV entry of BmN-SWU1 cells via affecting the cellular cholesterol level. Biochemical and Biophysical Research Communications, 2017, 482, 1484-1490. | 1.0 | 18 |
| 28 | Differential Susceptibilities to BmNPV Infection of Two Cell Lines Derived from the Same Silkworm Ovarian Tissues. PLoS ONE, 2014, 9, e105986. | 1.1 | 17 |
| 29 | Role of Bmbuffy in hydroxycamptothecine-induced apoptosis in BmN-SWU1 cells of the silkworm, Bombyx mori. Biochemical and Biophysical Research Communications, 2014, 447, 237-243. | 1.0 | 17 |
| 30 | Effects of starvation and hormones on DNA synthesis in silk gland cells of the silkworm, Bombyx mori. Insect Science, 2016, 23, 569-578. | 1.5 | 17 |
| 31 | Role of AMPK in the expression of tight junction proteins in heat-treated porcine Sertoli cells. Theriogenology, 2018, 121, 42-52. | 0.9 | 17 |
| 32 | Combined Effect of Cameo2 and CBP on the Cellular Uptake of Lutein in the Silkworm, Bombyx mori. PLoS ONE, 2014, 9, e86594. | 1.1 | 16 |
| 33 | BmICE-2 is a novel pro-apoptotic caspase involved in apoptosis in the silkworm, Bombyx mori. Biochemical and Biophysical Research Communications, 2014, 445, 100-106. | 1.0 | 15 |
| 34 | Comparative transcriptome profiling of a thermal resistant vs. sensitive silkworm strain in response to high temperature under stressful humidity condition. PLoS ONE, 2017, 12, e0177641. | 1.1 | 15 |
| 35 | Construction of a One-Vector Multiplex CRISPR/Cas9 Editing System to Inhibit Nucleopolyhedrovirus Replication in Silkworms. Virologica Sinica, 2019, 34, 444-453. | 1.2 | 15 |
| 36 | Label-free proteomic analysis of silkworm midgut infected by Bombyx mori nuclear polyhedrosis virus. Journal of Proteomics, 2019, 200, 40-50. | 1.2 | 15 |

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|---|---|---|---|
| 37 | Evolutionary and functional analyses of the interaction between the Bombyx mori inhibitor of apoptosis (IAP) and nucleopolyhedrovirus IAPs. Insect Science, 2020, 27, 463-474. | 1.5 | 15 |
| 38 | Genome-wide identification and analysis of elongase of very long chain fatty acid genes in the silkworm, Bombyx mori. Genome, 2018, 61, 167-176. | 0.9 | 14 |
| 39 | Construction and application of an HSP70 promoter-inducible genome editing system in transgenic silkworm to induce resistance to Nosema bombycis. Applied Microbiology and Biotechnology, 2019, 103, 9583-9592. | 1.7 | 14 |
| 40 | BmAtg13 promotes the replication and proliferation of Bombyx mori nucleopolyhedrovirus. Pesticide Biochemistry and Physiology, 2019, 157, 143-151. | 1.6 | 14 |
| 41 | Screening, cloning and expression analysis of a cellulase derived from the causative agent of hypertrophy sorosis scleroteniosis, Ciboria shiraiana. Gene, 2015, 565, 221-227. | 1.0 | 13 |
| 42 | Effects of 10-hydroxycamptothecin on intrinsic mitochondrial pathway in silkworm BmN-SWU1 cells. Pesticide Biochemistry and Physiology, 2016, 127, 15-20. | 1.6 | 13 |
| 43 | Comparative mitochondrial genomes provide new insights into the true wild progenitor and origin of domestic silkworm Bombyx mori. International Journal of Biological Macromolecules, 2019, 131, 176-183. | 3.6 | 13 |
| 44 | Cocoonase is indispensable for Lepidoptera insects breaking the sealed cocoon. PLoS Genetics, 2020, 16, e1009004. | 1.5 | 13 |
| 45 | Identification of a novel nuclear localization signal of baculovirus late expression factor 11. Virus Research, 2014, 184, 111-119. | 1.1 | 12 |
| 46 | DNA Synthesis during Endomitosis Is Stimulated by Insulin via the PI3K/Akt and TOR Signaling Pathways in the Silk Gland Cells of Bombyx mori. International Journal of Molecular Sciences, 2015, 16, 6266-6280. | 1.8 | 12 |
| 47 | Identification of a PP2A gene in Bombyx mori with antiviral function against B. mori nucleopolyhedrovirus. Insect Science, 2020, 27, 687-696. | 1.5 | 12 |
| 48 | Identification and characterization of the BmCyclin L1-BmCDK11A/B complex in relation to cell cycle regulation. Cell Cycle, 2017, 16, 861-868. | 1.3 | 11 |
| 49 | Identification and characterization of a new long noncoding RNA iabâ€1 in the Hox cluster of silkworm, Bombyx mori identification of iabâ€1. Journal of Cellular Biochemistry, 2019, 120, 17283-17292. | 1.2 | 11 |
| 50 | Gene editing the BmNPV inhibitor of apoptosis protein 2 (iap2) as an antiviral strategy in transgenic silkworm. International Journal of Biological Macromolecules, 2021, 166, 529-537. | 3.6 | 11 |
| 51 | Transcriptome analysis reveals changes in silkworm energy metabolism during Nosema bombycis infection. Pesticide Biochemistry and Physiology, 2021, 174, 104809. | 1.6 | 11 |
| 52 | Screening and optimization of an efficient Bombyx mori nucleopolyhedrovirus inducible promoter. Journal of Biotechnology, 2016, 231, 72-80. | 1.9 | 10 |
| 53 | The beta-1, 4-N-acetylglucosaminidase 1Âgene, selected by domestication and breeding, is involved in cocoon construction of Bombyx mori. PLoS Genetics, 2020, 16, e1008907. | 1.5 | 10 |
| 54 | The Hox gene Antennapedia is essential for wing development in insects. Development (Cambridge), 2022, 149, . | 1.2 | 10 |

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|---|---|---|---|
| 55 | BmDredd is an initiator caspase and participates in Emodin-induced apoptosis in the silkworm, Bombyx mori. Gene, 2016, 591, 362-368. | 1.0 | 9 |
| 56 | InÂvivo RNA interference of BmNHR96 enhances the resistance of transgenic silkworm to BmNPV. Biochemical and Biophysical Research Communications, 2017, 493, 332-339. | 1.0 | 9 |
| 57 | Comparative genome-wide DNA methylation analysis reveals epigenomic differences in response to heat-humidity stress in Bombyx mori. International Journal of Biological Macromolecules, 2020, 164, 3771-3779. | 3.6 | 9 |
| 58 | Characteristics of the Peritrophic Matrix of the Silkworm, Bombyx mori and Factors Influencing Its Formation. Insects, 2021, 12, 516. | 1.0 | 9 |
| 59 | A novel laminin Î² gene BmLanB1-w regulates wing-specific cell adhesion in silkworm, Bombyx mori. Scientific Reports, 2015, 5, 12562. | 1.6 | 8 |
| 60 | Transgenic RNAi of BmREEPa in silkworms can enhance the resistance of silkworm to Bombyxmori Nucleopolyhedrovirus. Biochemical and Biophysical Research Communications, 2017, 483, 855-859. | 1.0 | 8 |
| 61 | Identification of Peritrophins and Antiviral Effect of Bm01504 against BmNPV in the Silkworm, Bombyx mori. International Journal of Molecular Sciences, 2020, 21, 7973. | 1.8 | 8 |
| 62 | iMITEdb: the genome-wide landscape of miniature inverted-repeat transposable elements in insects. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw148. | 1.4 | 8 |
| 63 | Variation of lifespan in multiple strains, and effects of dietary restriction and BmFoxO on lifespan in silkworm, Bombyx mori. Oncotarget, 2017, 8, 7294-7300. | 0.8 | 8 |
| 64 | TwoGemininhomologs regulate DNA replication in silkworm,Bombyx mori. Cell Cycle, 2017, 16, 830-840. | 1.3 | 7 |
| 65 | Disruption of PTPS Gene Causing Pale Body Color and Lethal Phenotype in the Silkworm, Bombyx mori. International Journal of Molecular Sciences, 2018, 19, 1024. | 1.8 | 7 |
| 66 | Resistant silkworm strain block viral infection independent of melanization. Pesticide Biochemistry and Physiology, 2019, 154, 88-96. | 1.6 | 7 |
| 67 | Hippo pathway regulates somatic development and cell proliferation of silkworm. Genomics, 2019, 111, 391-397. | 1.3 | 7 |
| 68 | Excess melanin precursors rescue defective cuticular traits in stony mutant silkworms probably by upregulating four genes encoding RR1-type larval cuticular proteins. Insect Biochemistry and Molecular Biology, 2020, 119, 103315. | 1.2 | 7 |
| 69 | Taxonomic note of Oberea fuscipennis (Chevrolat, 1852) based on morphological and DNA barcode data (Coleoptera, Cerambycidae, Lamiinae). Zootaxa, 2016, 4136, 360-72. | 0.2 | 6 |
| 70 | Bombyx mori protein BmREEPa and BmPtchd could form a complex with BmNPV envelope protein GP64. Biochemical and Biophysical Research Communications, 2017, 490, 1254-1259. | 1.0 | 6 |
| 71 | Characterization of the novel role of NinaB orthologs from Bombyx mori and Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2019, 109, 106-115. | 1.2 | 6 |
| 72 | Silver nanoparticles are effective in controlling microsporidia. Materials Science and Engineering C, 2021, 125, 112106. | 3.8 | 6 |

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|---|---|---|---|
| 73 | Fine Mapping of a Degenerated Abdominal Legs Mutant (Edl) in Silkworm, Bombyx mori. PLoS ONE, 2017, 12, e0169224. | 1.1 | 6 |
| 74 | Baculovirus LEF-11 nuclear localization signal is important for viral DNA replication. Virus Research, 2017, 238, 133-140. | 1.1 | 5 |
| 75 | Genetic bioengineering of overexpressed guanylate binding protein family BmAtlastin-n enhances silkworm resistance to Nosema bombycis. International Journal of Biological Macromolecules, 2021, 172, 223-230. | 3.6 | 5 |
| 76 | A Matrix Metalloproteinase Mediates Tracheal Development in Bombyx mori. International Journal of Molecular Sciences, 2021, 22, 5618. | 1.8 | 5 |
| 77 | The dual roles of three MMPs and TIMP in innate immunity and metamorphosis in the silkworm, Bombyx mori. FEBS Journal, 2022, 289, 2828-2846. | 2.2 | 5 |
| 78 | Molecular mapping and characterization of the silkworm apodal mutant. Scientific Reports, 2016, 6, 18956. | 1.6 | 4 |
| 79 | Construction and characterization of a synthetic Baculovirus-inducible 39K promoter. Journal of Biological Engineering, 2018, 12, 30. | 2.0 | 4 |
| 80 | BmGeminin2interacts withBmRRS1and regulatesBombyx moricell proliferation. Cell Cycle, 2019, 18, 1498-1512. | 1.3 | 4 |
| 81 | MicroRNA-6498-5p Inhibits Nosema bombycis Proliferation by Downregulating BmPLPP2 in Bombyx mori. Journal of Fungi (Basel, Switzerland), 2021, 7, 1051. | 1.5 | 4 |
| 82 | Expression pattern and tissue localization of the class B scavenger receptor BmSCRBQ4 in Bombyx mori. Insect Science, 2015, 22, 739-747. | 1.5 | 3 |
| 83 | Comparative Analysis of Transcriptomes among Bombyx mori Strains and Sexes Reveals the Genes Regulating Melanic Morph and the Related Phenotypes. PLoS ONE, 2016, 11, e0155061. | 1.1 | 3 |
| 84 | Comparative Analysis of the Integument Transcriptomes between stick Mutant and Wild-Type Silkworms. International Journal of Molecular Sciences, 2018, 19, 3158. | 1.8 | 3 |
| 85 | Genome-wide identification and characterization of myosin genes in the silkworm, Bombyx mori. Gene, 2019, 691, 45-55. | 1.0 | 3 |
| 86 | BmFoxO Gene Regulation of the Cell Cycle Induced by 20-Hydroxyecdysone in BmN-SWU1 Cells. Insects, 2020, 11, 700. | 1.0 | 3 |
| 87 | DIA-based proteome reveals the involvement of cuticular proteins and lipids in the wing structure construction in the silkworm. Journal of Proteomics, 2021, 238, 104155. | 1.2 | 3 |
| 88 | Geminin is essential for DNA re-replication in the silk gland cells of silkworms. Experimental Cell Research, 2022, 410, 112951. | 1.2 | 3 |
| 89 | Bombyx mori Nucleopolyhedrovirus (BmNPV) Induces G2/M Arrest to Promote Viral Multiplication by Depleting BmCDK1. Insects, 2021, 12, 1098. | 1.0 | 3 |
| 90 | Molecular basis of the silkworm mutant re<sup>l</sup> causing red egg color and embryonic death. Insect Science, 2021, 28, 1290-1299. | 1.5 | 2 |

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|---|---|---|---|
| 91 | Bombyx mori cell division cycle protein 37 promotes the proliferation of BmNPV. Pesticide Biochemistry and Physiology, 2021, 178, 104923. | 1.6 | 2 |
| 92 | E2F4 regulates the cell cycle and DNA replication in the silkworm, Bombyx mori. Insect Science, 2021, , . | 1.5 | 2 |
| 93 | Stable transformation of fluorescent proteins into Nosema bombycis by electroporation. Parasites and Vectors, 2022, 15, 141. | 1.0 | 2 |
| 94 | Sample Preparation to Observe The Straight And Flat Posture of Silkworm Embryo under Scanning Electron Microscopy via Glycerol Substitution Method. Microscopy and Microanalysis, 2014, 20, 964-967. | 0.2 | 1 |
| 95 | The extramacrochaetae gene is required for blastokinesis in silkworm, Bombyx mori. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 405-409. | 0.6 | 1 |
| 96 | Effects of P27/Bmdacapo, in the CIP/KIP family, on cell proliferation, growth and development in the silkworm (Bombyx mori). Gene, 2019, 700, 31-37. | 1.0 | 1 |
| 97 | Construction of a CRISPR/FnCas12a multi-sites editing system for inhibiting proliferation of Bombyx mori nuclearpolyhedrosisvirus. International Journal of Biological Macromolecules, 2021, 193, 585-591. | 3.6 | 1 |
| 98 | CRISPR/Cpf1 multiplex genome editing system increases silkworm tolerance to BmNPV. International Journal of Biological Macromolecules, 2022, 200, 566-573. | 3.6 | 1 |
| 99 | The complete mitochondrial genome of Yao silkworm (Bombyx mori). Mitochondrial DNA Part B: Resources, 2019, 4, 2811-2812. | 0.2 | 0 |
| 100 | Identification and effect of Zf-AD-containing C2H2 zinc finger genes on BmNPV replication in the silkworm (Bombyx mori). Pesticide Biochemistry and Physiology, 2020, 170, 104678. | 1.6 | 0 |
| 101 | A novel system to rapidly detect proteinâ€“protein interactions (PPIs) based on fluorescence co-localization. Biotechnology Letters, 2020, 42, 2111-2122. | 1.1 | 0 |
| 102 | Bmelo12, an elongase of very long-chain fatty acids gene, regulates silk yield in Bombyx mori. Journal of Genetics and Genomics, 2022, , . | 1.7 | 0 |