Michael R Kanost

List of Publications by Year
in descending order

162 papers	14,724 citations	15497 65 h-index	20777 116 g-index
170 all docs	170 docs citations	170 times ranked	8784 citing authors

#	Article	IF	Citations
1	BIOLOGICAL MEDIATORS OF INSECT IMMUNITY. Annual Review of Entomology, 1997, 42, 611-643.	12.7	1,154
2	RNA interference in Lepidoptera: An overview of successful and unsuccessful studies and implications for experimental design. Journal of Insect Physiology, 2011, 57, 231-245.	2.2	749
3	Innate immune responses of a lepidopteran insect, Manduca sexta. Immunological Reviews, 2004, 198, 97-105.	6.1	610
4	Serine proteinase inhibitors in arthropod immunity. Developmental and Comparative Immunology, 1999, 23, 291-301.	2.3	384
5	The clip-domain family of serine proteinases in arthropods. Insect Biochemistry and Molecular Biology, 2000, 30, 95-105.	2.7	364
6	Laccase 2 is the phenoloxidase gene required for beetle cuticle tanning. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11337-11342.	7.6	348
7	Serine proteases and their homologs in the Drosophila melanogaster genome: an initial analysis of sequence conservation and phylogenetic relationships. Gene, 2003, 304, 117-131.	2.3	298
8	Insect Haemolymph Proteins. Advances in Insect Physiology, 1990, 22, 299-396.	3.8	295
9	Molecular structure of an apolipoprotein determined at 2.5-.ANG. resolution. Biochemistry, 1991, 30, 603-608.	2.6	266
10	Immulectin-2, a Lipopolysaccharide-specific Lectin from an Insect, Manduca sexta, Is Induced in Response to Gram-negative Bacteria. Journal of Biological Chemistry, 2000, 275, 37373-37381.	3.5	261
11	Immunity in Lepidopteran Insects. Advances in Experimental Medicine and Biology, 2010, 708, 181-204.	0.0	239
12	Nonproteolytic serine proteinase homologs are involved in prophenoloxidase activation in the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2003, 33, 197-208.	2.7	225
13	Immulectin, an inducible C-type lectin from an insect, Manduca sexta, stimulates activation of plasma prophenol oxidase. Insect Biochemistry and Molecular Biology, 1999, 29, 585-597.	2.7	217
14	A Î²1,3-Glucan Recognition Protein from an Insect, Manduca sexta, Agglutinates Microorganisms and Activates the Phenoloxidase Cascade. Journal of Biological Chemistry, 2000, 275, 7505-7514.	3.5	210
15	Clip-domain serine proteases as immune factors in insect hemolymph. Current Opinion in Insect Science, 2015, 11, 47-55.	4.6	203
16	Oxidative conjugation of catechols with proteins in insect skeletal systems. Tetrahedron, 2001, 57, 385-392.	2.0	198
17	Prophenoloxidase-activating Proteinase-2 from Hemolymph ofManduca sexta. Journal of Biological Chemistry, 2003, 278, 3552-3561.	3.5	195
18	Molecular and Functional Analyses of Amino Acid Decarboxylases Involved in Cuticle Tanning in Tribolium castaneum. Journal of Biological Chemistry, 2009, 284, 16584-16594.	3.5	185

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19	Comparative analysis of serine protease-related genes in the honey bee genome: possible involvement in embryonic development and innate immunity. Insect Molecular Biology, 2006, 15, 603-614.	1.9	174
20	Characterization of two chitin synthase genes of the red flour beetle, Tribolium castaneum, and alternate exon usage in one of the genes during development. Insect Biochemistry and Molecular Biology, 2004, 34, 291-304.	2.7	169
21	Characterization of cDNAs encoding putative laccase-like multicopper oxidases and developmental expression in the tobacco hornworm, Manduca sexta, and the malaria mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2004, 34, 29-41.	2.7	165
22	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	165
23	Manduca sexta Serpin-3 Regulates Prophenoloxidase Activation in Response to Infection by Inhibiting Prophenoloxidase-activating Proteinases. Journal of Biological Chemistry, 2003, 278, 46556-46564.	3.5	164
24	Subunit Composition of Pro-phenol Oxidase from Manduca sexta: Molecular Cloning of Subunit ProPO-p1. Insect Biochemistry and Molecular Biology, 1997, 27, 835-850.	2.7	158
25	Immulectin-2, a pattern recognition receptor that stimulates hemocyte encapsulation and melanization in the tobacco hornworm, Manduca sexta. Developmental and Comparative Immunology, 2004, 28, 891-900.	2.3	158
26	Functions of Manduca sexta Hemolymph Proteinases HP6 and HP8 in Two Innate Immune Pathways. Journal of Biological Chemistry, 2009, 284, 19716-19726.	3.5	153
27	The structure of a Michaelis serpin-protease complex. Nature Structural Biology, 2001, 8, 979-983.	8.1	143
28	PHENOLOXIDASES IN INSECT IMMUNITY. , 2008, , 69-96.		138
29	Characterization and Functional Analysis of 12 Naturally Occurring Reactive Site Variants of Serpin-1 from Manduca sexta. Journal of Biological Chemistry, 1997, 272, 1082-1087.	3.5	134
30	Serpins in arthropod biology. Seminars in Cell and Developmental Biology, 2017, 62, 105-119.	5.4	125
31	Î²-1,3-Glucan recognition protein-2 (Î²GRP-2) from Manduca sexta: an acute-phase protein that binds Î²-1,3-glucan and lipoteichoic acid to aggregate fungi and bacteria and stimulate prophenoloxidase activation. Insect Biochemistry and Molecular Biology, 2004, 34, 89-100.	2.7	120
32	Model reactions for insect cuticle sclerotization: Cross-linking of recombinant cuticular proteins upon their laccase-catalyzed oxidative conjugation with catechols. Insect Biochemistry and Molecular Biology, 2006, 36, 353-365.	2.7	116
33	A Novel Serpin Expressed by Blood-Borne Microfilariae of the Parasitic Nematode Brugia malayi Inhibits Human Neutrophil Serine Proteinases. Blood, 1999, 94, 1418-1428.	1.4	115
34	Identification of Plasma Proteases Inhibited by Manduca sexta Serpin-4 and Serpin-5 and Their Association with Components of the Prophenol Oxidase Activation Pathway. Journal of Biological Chemistry, 2005, 280, 14932-14942.	3.5	115
35	Characterization of tyrosine hydroxylase from Manduca sexta. Insect Biochemistry and Molecular Biology, 2007, 37, 1327-1337.	2.7	114
36	Chitin synthase genes in Manduca sexta: characterization of a gut-specific transcript and differential tissue expression of alternately spliced mRNAs during development. Insect Biochemistry and Molecular Biology, 2005, 35, 529-540.	2.7	113

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37	Characterization of a regulatory unit that controls melanization and affects longevity of mosquitoes. Cellular and Molecular Life Sciences, 2011, 68, 1929-1939.	5.5	113
38	Insect multicopper oxidases: Diversity, properties, and physiological roles. Insect Biochemistry and Molecular Biology, 2010, 40, 179-188.	2.7	110
39	Manduca sexta lipopolysaccharide-specific immulectin-2 protects larvae from bacterial infection. Developmental and Comparative Immunology, 2003, 27, 189-196.	2.3	109
40	Bacteria-induced protein P4 (hemolin) fromManduca sexta: A member of the immunoglobulin superfamily which can inhibit hemocyte aggregation. Archives of Insect Biochemistry and Physiology, 1991, 18, 285-300.	1.5	106
41	Manduca sexta Serpin-4 and Serpin-5 Inhibit the Prophenol Oxidase Activation Pathway. Journal of Biological Chemistry, 2005, 280, 14923-14931.	3.5	106
42	Manduca sexta Hemolymph Proteinase 21 Activates Prophenoloxidase-activating Proteinase 3 in an Insect Innate Immune Response Proteinase Cascade. Journal of Biological Chemistry, 2007, 282, 11742-11749.	3.5	106
43	A hemocyte-specific integrin required for hemocytic encapsulation in the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2005, 35, 369-380.	2.7	104
44	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
45	Increased melanizing activity in Anopheles gambiae does not affect development of Plasmodium falciparum. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16858-16863.	7.6	94
46	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	91
47	Soluble peptidoglycan fragments stimulate antibacterial protein synthesis by fat body from larvae of Manduca sexta. Developmental and Comparative Immunology, 1985, 9, 559-568.	2.3	90
48	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	88
49	Manduca sexta serpin-5 regulates prophenoloxidase activation and the Toll signaling pathway by inhibiting hemolymph proteinase HP6. Insect Biochemistry and Molecular Biology, 2010, 40, 683-689.	2.7	84
50	Two major cuticular proteins are required for assembly of horizontal laminae and vertical pore canals in rigid cuticle of Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2014, 53, 22-29.	2.7	83
51	Organization of Serpin Gene-1 from Manduca sexta. Journal of Biological Chemistry, 1996, 271, 28017-28023.	3.5	82
52	Proteomic and Transcriptomic Analyses of Rigid and Membranous Cuticles and Epidermis from the Elytra and Hindwings of the Red Flour Beetle, Tribolium castaneum. Journal of Proteome Research, 2012, 11, 269-278.	3.8	80
53	Biological activity of Manduca sexta paralytic and plasmatocyte spreading peptide and primary structure of its hemolymph precursor. Insect Biochemistry and Molecular Biology, 1999, 29, 1075-1086.	2.7	77
54	Multiple Î± subunits of integrin are involved in cell-mediated responses of the Manduca immune system. Developmental and Comparative Immunology, 2008, 32, 365-379.	2.3	77

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55	Sequence of a cDNA and expression of the gene encoding a putative epidermal chitin synthase of Manduca sexta. Insect Biochemistry and Molecular Biology, 2002, 32, 1497-1506.	2.7	76
56	Molecular identification of a bevy of serine proteinases in Manduca sexta hemolymph. Insect Biochemistry and Molecular Biology, 2005, 35, 931-943.	2.7	75
57	Identification, mRNA expression and functional analysis of several yellow family genes in Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2010, 40, 259-266.	2.7	74
58	Effects of parasitism by the braconid wasp Cotesia congregata on host hemolymph proteins of the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 1993, 23, 643-653.	2.7	73
59	Cuticular protein with a low complexity sequence becomes cross-linked during insect cuticle sclerotization and is required for the adult molt. Scientific Reports, 2015, 5, 10484.	3.4	72
60	Hematopoietic organs of Manduca sexta and hemocyte lineages. Development Genes and Evolution, 2003, 213, 477-491.	0.9	71
61	Mechanical Properties of the Beetle Elytron, a Biological Composite Material. Biomacromolecules, 2011, 12, 321-335.	5.6	71
62	Formation of Rigid, Non-Flight Forewings (Elytra) of a Beetle Requires Two Major Cuticular Proteins. PLoS Genetics, 2012, 8, e1002682.	3.4	71
63	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	68
64	Annotation and expression analysis of cuticular proteins from the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 100-113.	2.7	64
65	Multicopper oxidase-1 is a ferroxidase essential for iron homeostasis in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13337-13342.	7.6	62
66	Manduca sexta serpin-7, a putative regulator of hemolymph prophenoloxidase activation. Insect Biochemistry and Molecular Biology, 2013, 43, 555-561.	2.7	60
67	An Integrin-Tetraspanin Interaction Required for Cellular Innate Immune Responses of an Insect, Manduca sexta. Journal of Biological Chemistry, 2007, 282, 22563-22572.	3.5	59
68	Serpin-1 splicing isoform J inhibits the proSpÃtzle-activating proteinase HP8 to regulate expression of antimicrobial hemolymph proteins in Manduca sexta. Developmental and Comparative Immunology, 2011, 35, 135-141.	2.3	57
69	Loss of function of the yellow-e gene causes dehydration-induced mortality of adult Tribolium castaneum. Developmental Biology, 2015, 399, 315-324.	2.1	57
70	Initiating protease with modular domains interacts with Î²-glucan recognition protein to trigger innate immune response in insects. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13856-13861.	7.6	57
71	Peptidoglycan fragments elicit antibacterial protein synthesis in larvae of Manduca sexta. Archives of Insect Biochemistry and Physiology, 2005, 8, 147-164.	1.5	56
72	Regulation of Insect Hemolymph Phenoloxidases. , 1993, , 317-342.		55

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73	Isolation and characterization of a hemocyte aggregation inhibitor from hemolymph ofManduca sexta larvae. Archives of Insect Biochemistry and Physiology, 1994, 27, 123-136.	1.5	54
74	Characterization of the multicopper oxidase gene family in Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2008, 38, 817-824.	2.7	54
75	Characterization of endogenous and recombinant forms of laccase-2, a multicopper oxidase from the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2009, 39, 596-606.	2.7	54
76	The serpin gene family in Anopheles gambiae. Gene, 2009, 442, 47-54.	2.3	53
77	Isolation and characterization of bacteria-induced protein P4 from hemolymph ofManduca sexta. Archives of Insect Biochemistry and Physiology, 1990, 15, 33-41.	1.5	52
78	Molecular cloning of cDNAs for two pro-phenol oxidase subunits from the malaria vector, Anopheles gambiae1The sequences have been deposited in GenBank under accession numbers AF004915 and AF004916.1. Insect Biochemistry and Molecular Biology, 1997, 27, 693-699.	2.7	51
79	Developmental expression ofManduca sexta hemolin. Archives of Insect Biochemistry and Physiology, 1999, 42, 198-212.	1.5	51
80	The extracellular matrix protein lacunin is expressed by a subset of hemocytes involved in basal lamina morphogenesis. Journal of Insect Physiology, 2001, 47, 997-1006.	2.2	50
81	Hemolymph Proteinases in Immune Responses of Manduca sexta. Advances in Experimental Medicine and Biology, 2001, 484, 319-328.	0.0	50
82	A bacteria-induced, intracellular serpin in granular hemocytes of Manduca sexta. Insect Biochemistry and Molecular Biology, 2001, 31, 887-898.	2.7	49
83	Neuroglian-positive plasmatocytes of Manduca sexta and the initiation of hemocyte attachment to foreign surfaces. Developmental and Comparative Immunology, 2006, 30, 447-462.	2.3	49
84	Innate Immunity in a Pyralid Moth. Journal of Biological Chemistry, 2004, 279, 26605-26611.	3.5	48
85	Structure, Expression, and Hormonal Control of Genes from the Mosquito, Aedes aegypti, Which Encode Proteins Similar to the Vitelline Membrane Proteins of Drosophila melanogaster. Developmental Biology, 1993, 155, 558-568.	2.1	47
86	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	46
87	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	46
88	In search of a function for hemolin, a hemolymph protein from the immunoglobulin superfamily. Journal of Insect Physiology, 1996, 42, 73-79.	2.2	45
89	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.	7.6	40
90	Identification of plasma proteinase complexes with serpin-3 in Manduca sexta. Insect Biochemistry and Molecular Biology, 2012, 42, 946-955.	2.7	39

#	Article	IF	Citations
91	Isolation and characterization of four serine proteinase inhibitors (serpins) from hemolymph of Manduca sexta. Insect Biochemistry, 1990, 20, 141-147.	1.8	36
92	Monoclonal antibody MS13 identifies a plasmatocyte membrane protein and inhibits encapsulation and spreading reactions ofManduca sexta hemocytes. Archives of Insect Biochemistry and Physiology, 2000, 45, 95-108.	1.5	35
93	An insight into the transcriptome and proteome of the salivary gland of the stable fly, Stomoxys calcitrans. Insect Biochemistry and Molecular Biology, 2009, 39, 607-614.	2.7	32
94	Self-association of an Insect Î²-1,3-Glucan Recognition Protein Upon Binding Laminarin Stimulates Prophenoloxidase Activation as an Innate Immune Response. Journal of Biological Chemistry, 2014, 289, 28399-28410.	3.5	32
95	Development of a new method for collecting hemolymph and measuring phenoloxidase activity in Tribolium castaneum. BMC Research Notes, 2019, 12, 7.	1.4	32
96	Characterization and regulation of expression of an antifungal peptide from hemolymph of an insect, Manduca sexta. Developmental and Comparative Immunology, 2016, 61, 258-268.	2.3	31
97	Multicopper Oxidase-3 Is a Laccase Associated with the Peritrophic Matrix of Anopheles gambiae. PLoS ONE, 2012, 7, e33985.	2.5	31
98	Regulation of serpin gene-1 in Manduca sexta. Insect Biochemistry and Molecular Biology, 1995, 25, 285-291.	2.7	30
99	Mechanical properties of elytra from Tribolium castaneum wild-type and body color mutant strains. Journal of Insect Physiology, 2010, 56, 1901-1906.	2.2	30
100	Functional analysis of four processing products from multiple precursors encoded by a lebocin-related gene from Manduca sexta. Developmental and Comparative Immunology, 2010, 34, 638-647.	2.3	30
101	Comparative analysis of seven types of superoxide dismutases for their ability to respond to oxidative stress in Bombyx mori. Scientific Reports, 2019, 9, 2170.	3.4	30
102	Expression and Purification of Manduca sexta Prophenoloxidase-Activating Proteinase Precursor (proPAP) from Baculovirus-Infected Insect Cells. Protein Expression and Purification, 2001, 23, 328-337.	1.4	29
103	Clustering of adhesion receptors following exposure of insect blood cells to foreign surfaces. Journal of Insect Physiology, 2005, 51, 555-564.	2.2	29
104	Model reactions for insect cuticle sclerotization: Participation of amino groups in the cross-linking of Manduca sexta cuticle protein MsCP36. Insect Biochemistry and Molecular Biology, 2010, 40, 252-258.	2.7	29
105	Multicopper oxidase-1 orthologs from diverse insect species have ascorbate oxidase activity. Insect Biochemistry and Molecular Biology, 2015, 59, 58-71.	2.7	29
106	The immune properties of Manduca sexta transferrin. Insect Biochemistry and Molecular Biology, 2017, 81, 1-9.	2.7	29
107	Juvenile hormone analog and injection effects on locust hemolymph protein synthesis. Archives of Insect Biochemistry and Physiology, 1992, 20, 167-180.	1.5	28
108	RNAi-induced silencing of embryonic tryptophan oxygenase in the Pyralid moth, Plodia interpunctella. Journal of Insect Science, 2004, 4, 15.	1.6	28

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109	A Family of C-Type Lectins in Manduca sexta. Advances in Experimental Medicine and Biology, 2001, 484, 191-194.	0.0	28
110	An Initial Event in the Insect Innate Immune Response: Structural and Biological Studies of Interactions between Î²-1,3-Glucan and the N-Terminal Domain of Î²-1,3-Glucan Recognition Protein. Biochemistry, 2013, 52, 161-170.	2.6	27
111	Neuroglian on hemocyte surfaces is involved in homophilic and heterophilic interactions of the innate immune system of Manduca sexta. Developmental and Comparative Immunology, 2007, 31, 1159-1167.	2.3	26
112	Leureptin: A soluble, extracellular leucine-rich repeat protein from Manduca sexta that binds lipopolysaccharide. Insect Biochemistry and Molecular Biology, 2010, 40, 713-722.	2.7	26
113	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	26
114	Analysis of Mutually Exclusive Alternatively Spliced Serpin-1 Isoforms and Identification of Serpin-1 Proteinase Complexes in Manduca sexta Hemolymph. Journal of Biological Chemistry, 2010, 285, 29642-29650.	3.5	24
115	Kinetic properties of alternatively spliced isoforms of laccase-2 from Tribolium castaneum and Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2012, 42, 193-202.	2.7	24
116	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
117	The Lysozyme from Insect (Manduca sexta) Is a Cold-Adapted Enzyme. Protein and Peptide Letters, 2007, 14, 774-778.	0.9	21
118	Superoxide dismutase 2 knockdown leads to defects in locomotor activity, sensitivity to paraquat, and increased cuticle pigmentation in Tribolium castaneum. Scientific Reports, 2016, 6, 29583.	3.4	21
119	Roles of haemolymph proteins in antimicrobial defences of Manduca sexta. , 2009, , 34-48.		19
120	Tribolium castaneum as a Model for High-Throughput RNAi Screening. Advances in Biochemical Engineering/Biotechnology, 2013, 136, 163-178.	0.0	18
121	Monoclonal antibodies against Manduca sexta heemocytes bind Aedes aegypti hemocytes: Characterization of six monoclonal antibodies that bind hemocytes from both species. Developmental and Comparative Immunology, 1995, 19, 451-461.	2.3	17
122	Iron binding and release properties of transferrin-1 from Drosophila melanogaster and Manduca sexta: Implications for insect iron homeostasis. Insect Biochemistry and Molecular Biology, 2020, 125, 103438.	2.7	17
123	Serpins from an Insect, Manduca sexta. Advances in Experimental Medicine and Biology, 1997, 425, 155-161.	0.0	17
124	Susceptibility of the Zebra Caterpillar to Autographa californica Nuclear Polyhedrosis Virus1. Journal of Economic Entomology, 1979, 72, 570-572.	1.9	16
125	Manduca sexta serpin-12 controls the prophenoloxidase activation system in larval hemolymph. Insect Biochemistry and Molecular Biology, 2018, 99, 27-36.	2.7	16
126	Hemolymph. , 2009, , 446-449.		15

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127	Redox potentials, laccase oxidation, and antilarval activities of substituted phenols. Bioorganic and Medicinal Chemistry, 2012, 20, 1679-1689.	3.1	15
128	Adipokinetic hormone causes formation of a low density lipophorin in the house cricket, Acheta domesticus. Insect Biochemistry, 1990, 20, 859-863.	1.8	14
129	Molecular cloning of a multidomain cysteine protease and protease inhibitor precursor gene from the tobacco hornworm (Manduca sexta) and functional expression of the cathepsin F-like cysteine protease domain. Insect Biochemistry and Molecular Biology, 2010, 40, 835-846.	2.7	14
130	A Multicopper Oxidase-Related Protein Is Essential for Insect Viability, Longevity and Ovary Development. PLoS ONE, 2014, 9, e111344.	2.5	14
131	RNAi-induced silencing of embryonic tryptophan oxygenase in the Pyralid moth, Plodia interpunctella. Journal of Insect Science, 2004, 4, 1-9.	0.9	13
132	Insect Proteases. , 2012, , 346-364.		13
133	Phylogenetic and sequence analyses of insect transferrins suggest that only transferrin 1 has a role in iron homeostasis. Insect Science, 2021, 28, 495-508.	3.1	13
134	Changes in composition and levels of hemolymph proteins during metamorphosis of Manduca sexta. Insect Biochemistry and Molecular Biology, 2020, 127, 103489.	2.7	12
135	Proteolytic Activation of Prophenoloxidase in an Insect Manduca Sexta. Advances in Experimental Medicine and Biology, 2001, 484, 313-317.	0.0	11
136	Purification of a cysteine protease inhibitor from larval hemolymph of the tobacco hornworm (Manduca sexta) and functional expression of the recombinant protein. Insect Biochemistry and Molecular Biology, 2007, 37, 960-968.	2.7	11
137	Crystal structure of native Anopheles gambiae serpinâ€2, a negative regulator of melanization in mosquitoes. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1999-2003.	3.2	11
138	Isolation and characterization of apolipophorin-III from the giant water bug (Lethocerus medius). Insect Biochemistry and Molecular Biology, 1995, 25, 759-764.	2.7	10
139	Self-Assembled Coacervates of Chitosan and an Insect Cuticle Protein Containing a Rebersâ€“Riddiford Motif. Biomacromolecules, 2018, 19, 2391-2400.	5.6	10
140	Structural insight into the novel ironâ€coordination and domain interactions of transferrinâ€1 from a model insect, Manduca sexta. Protein Science, 2021, 30, 408-422.	7.8	9
141	Structural and Inhibitory Effects of Hinge Loop Mutagenesis in Serpin-2 from the Malaria Vector Anopheles gambiae. Journal of Biological Chemistry, 2015, 290, 2946-2956.	3.5	7
142	Phenotypic analyses, protein localization, and bacteriostatic activity of Drosophila melanogaster transferrin-1. Insect Biochemistry and Molecular Biology, 2022, 147, 103811.	2.7	7
143	Differential alaserpin expression during development of the antennae in the tobacco hawkmoth,Manduca sexta. Archives of Insect Biochemistry and Physiology, 1992, 19, 39-52.	1.5	6
144	Serine Protease Inhibitors from the Serpin Gene Family in Manduca sexta and Drosophila melanogaster. , 1990, , 139-146.		6

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145	Serpins in a Lepidopteran Insect, Manduca sexta. , 2007, , 229-241.		4
146	Peptides based on the reactive center loop of Manduca sexta serpin-3 block its protease inhibitory function. Scientific Reports, 2020, 10, 11497.	3.4	2
147	A Novel Serpin Expressed by Blood-Borne Microfilariae of the Parasitic Nematode Brugia malayi Inhibits Human Neutrophil Serine Proteinases. Blood, 1999, 94, 1418-1428.	1.4	2
148	The Development of New Methods to Stimulate the Production of Antimicrobial Peptides in the Larvae of the Black Soldier Fly Hermetia illucens. International Journal of Molecular Sciences, 2023, 24, 15765.	4.2	2
149	Cuticle tanning in Tribolium castaneum. Entomological Research, 2011, 41, 293-293.	1.2	1
150	Insect Proteases â˜†. , 2017, , .		1
151	Developmental expression of Manduca sexta hemolin. Archives of Insect Biochemistry and Physiology, 1999, 42, 198.	1.5	1
152	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
153	Superoxide dismutase 6 is required during metamorphosis for the development of properly movable legs in Tribolium castaneum. Scientific Reports, 2022, 12, 6900.	3.4	1
154	RNAi-based functional analysis of yellow-e in Tribolium castaneum. Entomological Research, 2011, 41, 296-296.	1.2	0
155	Two Major Structural Proteins Are Required for Rigid Adult Cuticle Formation in the Red Flour Beetle, Tribolium castaneum. Entomological Research, 2011, 41, 297-297.	1.2	0
156	Characterization of the Secondary Structure of CP30, a Highly Repetitive Ampholytic Protein in Beetle Elytral Cuticle. Macromolecular Symposia, 2015, 358, 212-216.	0.7	0
157	Analyses of the Serpin Gene Family in the African Malaria Vector Mosquito, Anopheles gambiae. FASEB Journal, 2007, 21, A649.	0.5	0
158	Characterization of Multicopper Oxidase Related Protein (MCORP) in Two Insect Species. FASEB Journal, 2010, 24, 854.6.	0.5	0
159	Proteomic identification of hemolymph proteins involved in early stages of immune response in the insect Manduca sexta. FASEB Journal, 2010, 24, 518.4.	0.5	0
160	Possible immune functions of two mosquito multicopper oxidases. FASEB Journal, 2010, 24, 854.4.	0.5	0
161	Characterization of Transferrinâ€¡ from Drosophila melanogaster. FASEB Journal, 2018, 32, 538.10.	0.5	0
162	cDNA Cloning and Partial Characterization of the DJ-1 Gene from Tribolium castaneum. Antioxidants, 2021, 10, 1970.	5.2	0