Tatsuya Kato

List of Publications by Year in descending order

117 papers	2,079 citations	236612 25 h-index	315357 38 g-index
117 all docs	117 docs citations	117 times ranked	2367 citing authors

#	Article	IF	Citations
1	Silkworm expression system as a platform technology in life science. Applied Microbiology and Biotechnology, 2010, 85, 459-470.	1.7	167
2	Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses. Biosensors and Bioelectronics, 2017, 89, 998-1005.	5.3	134
3	Localized surface plasmon resonance-mediated fluorescence signals in plasmonic nanoparticle-quantum dot hybrids for ultrasensitive Zika virus RNA detection via hairpin hybridization assays. Biosensors and Bioelectronics, 2017, 94, 513-522.	5.3	84
4	Riboflavin production by Ashbya gossypii. Biotechnology Letters, 2012, 34, 611-618.	1.1	59
5	One-pot bioethanol production from cellulose by co-culture of Acremonium cellulolyticus and Saccharomyces cerevisiae. Biotechnology for Biofuels, 2012, 5, 64.	6.2	58
6	Preparation of virus-like particle mimetic nanovesicles displaying the S protein of Middle East respiratory syndrome coronavirus using insect cells. Journal of Biotechnology, 2019, 306, 177-184.	1.9	54
7	Bioconversion of paper sludge to biofuel by simultaneous saccharification and fermentation using a cellulase of paper sludge origin and thermotolerant Saccharomyces cerevisiaeTJ14. Biotechnology for Biofuels, 2011, 4, 35.	6.2	47
8	An ultrasensitive SiO2-encapsulated alloyed CdZnSeS quantum dot-molecular beacon nanobiosensor for norovirus. Biosensors and Bioelectronics, 2016, 86, 135-142.	5.3	46
9	Improved expression of fusion protein using a cysteineâ€•proteaseâ€•and chitinaseâ€deficient Bombyx mori (silkworm) multiple nucleopolyhedrovirus bacmid in silkworm larvae. Biotechnology and Applied Biochemistry, 2008, 49, 135-140.	1.4	44
10	The improvement of riboflavin production in Ashbya gossypii via disparity mutagenesis and DNA microarray analysis. Applied Microbiology and Biotechnology, 2011, 91, 1315-1326.	1.7	41
11	Improvement of the production of GFPuv-?1,3-N-acetylglucosaminyltransferase 2 fusion protein using a molecular chaperone-assisted insect-cell-based expression system. Biotechnology and Bioengineering, 2005, 89, 424-433.	1.7	36
12	Fabrication of MERS-nanovesicle biosensor composed of multi-functional DNA aptamer/graphene-MoS2 nanocomposite based on electrochemical and surface-enhanced Raman spectroscopy. Sensors and Actuators B: Chemical, 2022, 352, 131060.	4.0	34
13	Construction of a cysteine protease deficient Bombyx mori multiple nucleopolyhedrovirus bacmid and its application to improve expression of a fusion protein. Journal of Virological Methods, 2007, 144, 91-97.	1.0	33
14	Quantum dots incorporated magnetic nanoparticles for imaging colon carcinoma cells. Journal of Nanobiotechnology, 2013, 11, 28.	4.2	30
15	Comparison of the N-linked glycosylation of human Î²1,3-N-acetylglucosaminyltransferase 2 expressed in insect cells and silkworm larvae. Journal of Biotechnology, 2009, 143, 27-33.	1.9	29
16	Comparative metabolic flux analysis of an Ashbya gossypii wild type strain and a high riboflavin-producing mutant strain. Journal of Bioscience and Bioengineering, 2015, 119, 101-106.	1.1	29
17	Chimeric Virus-Like Particles Made Using GAG and M1 Capsid Proteins Providing Dual Drug Delivery and Vaccination Platform. Molecular Pharmaceutics, 2015, 12, 839-845.	2.3	29
18	An ultrasensitive alloyed near-infrared quinternary quantum dot-molecular beacon nanodiagnostic bioprobe for influenza virus RNA. Biosensors and Bioelectronics, 2016, 80, 483-490.	5.3	29

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19	Insight into cordycepin biosynthesis of Cordyceps militaris: Comparison between a liquid surface culture and a submerged culture through transcriptomic analysis. PLoS ONE, 2017, 12, e0187052.	1.1	29
20	Gradient band gap engineered alloyed quaternary/ternary CdZnSeS/ZnSeS quantum dots: an ultrasensitive fluorescence reporter in a conjugated molecular beacon system for the biosensing of influenza virus RNA. Journal of Materials Chemistry B, 2016, 4, 1489-1498.	2.9	28
21	Comparative analysis of GFPuv-Î²1,3-N-acetylglucosaminyltransferase 2 production in two insect-cell-based expression systems. Protein Expression and Purification, 2004, 35, 54-61.	0.6	26
22	Expression of alanine:glyoxylate aminotransferase gene from Saccharomyces cerevisiae in Ashbya gossypii. Applied Microbiology and Biotechnology, 2006, 71, 46-52.	1.7	26
23	High-titer preparation of Bombyx mori nucleopolyhedrovirus (BmNPV) displaying recombinant protein in silkworm larvae by size exclusion chromatography and its characterization. BMC Biotechnology, 2009, 9, 55.	1.7	26
24	Human IgG1 expression in silkworm larval hemolymph using BmNPV bacmids and its N-linked glycan structure. Journal of Biotechnology, 2009, 139, 108-114.	1.9	26
25	Expression of an RSV-gag virus-like particle in insect cell lines and silkworm larvae. Journal of Virological Methods, 2011, 177, 147-152.	1.0	26
26	Terminal sialic acid linkages determine different cell infectivities of human parainfluenza virus type 1 and type 3. Virology, 2014, 464-465, 424-431.	1.1	26
27	Development of Rous sarcoma Virus-like Particles Displaying hCC49 scFv for Specific Targeted Drug Delivery to Human Colon Carcinoma Cells. Pharmaceutical Research, 2015, 32, 3699-3707.	1.7	26
28	Spot14/Mig12 heterocomplex sequesters polymerization and restrains catalytic function of human acetylâ€CoA carboxylase 2. Journal of Molecular Recognition, 2013, 26, 679-688.	1.1	25
29	Enhanced production of secretory Î²1,3-N-acetylglucosaminyltransferase 2 fusion protein into hemolymph of Bombyx mori larvae using recombinant BmNPV bacmid integrated signal sequence. Journal of Biotechnology, 2007, 129, 681-688.	1.9	24
30	Improvement of GFPuv-Î²3GnT2 Fusion Protein Production by Suppressing Protease in Baculovirus Expression System. Bioscience, Biotechnology and Biochemistry, 2003, 67, 2388-2395.	0.6	23
31	Increased riboflavin production from activated bleaching earth by a mutant strain of Ashbya gossypii. Journal of Bioscience and Bioengineering, 2009, 108, 325-329.	1.1	23
32	The effects of N-glycosylation sites and the N-terminal region on the biological function of Î²1,3-N-acetylglucosaminyltransferase 2 and its secretion. Biochemical and Biophysical Research Communications, 2005, 329, 699-705.	1.0	21
33	Importance of malate synthase in the glyoxylate cycle of Ashbya gossypii for the efficient production of riboflavin. Applied Microbiology and Biotechnology, 2009, 83, 529-539.	1.7	20
34	N-Glycan Modification of a Recombinant Protein via Coexpression of Human Glycosyltransferases in Silkworm Pupae. Scientific Reports, 2017, 7, 1409.	1.6	19
35	Expression of functional human (pro)renin receptor in silkworm (Bombyx mori) larvae using BmMNPV bacmid. Biotechnology and Applied Biochemistry, 2008, 49, 195.	1.4	18
36	Isolation of an oxalate-resistant Ashbya gossypii strain and its improved riboflavin production. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 57-64.	1.4	18

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37	Improved cordycepin production in a liquid surface culture of Cordyceps militaris isolated from wild strain. Biotechnology and Bioprocess Engineering, 2016, 21, 595-600.	1.4	18
38	Synthesis of sialoglycopolypeptide for potentially blocking influenza virus infection using a rat Î±2,6-sialyltransferase expressed in BmNPV bacmid-injected silkworm larvae. BMC Biotechnology, 2009, 9, 54.	1.7	17
39	Enhanced gene expression in insect cells and silkworm larva by modified polyhedrin promoter using repeated burst sequence and very late transcriptional factorâ€1. Biotechnology and Bioengineering, 2010, 107, 909-916.	1.7	17
40	Efficient production of human Î²-1,3-N-acetylglucosaminyltransferase-2 fused with green fluorescence protein in insect cell. Biochemical Engineering Journal, 2004, 19, 15-23.	1.8	16
41	Expression and purification of human (pro)renin receptor in insect cells using baculovirus expression system. Protein Expression and Purification, 2008, 58, 242-248.	0.6	16
42	Efficient cellulase-catalyzed saccharification of untreated paper sludge targeting for biorefinery. Biomass and Bioenergy, 2010, 34, 1906-1913.	2.9	16
43	Improvement of cellulase production in cultures of Acremonium cellulolyticus using pretreated waste milk pack with cellulase targeting for biorefinery. Bioresource Technology, 2011, 102, 6120-6127.	4.8	16
44	Expression, purification and antigenicity of Neospora caninum-antigens using silkworm larvae targeting for subunit vaccines. Veterinary Parasitology, 2013, 192, 284-287.	0.7	16
45	Metabolic comparison of aerial and submerged mycelia formed in the liquid surface culture of Cordyceps militaris. MicrobiologyOpen, 2019, 8, e00836.	1.2	16
46	Antigenic properties of VP15 from white spot syndrome virus in kuruma shrimp Marsupenaeus japonicus. Fish and Shellfish Immunology, 2020, 101, 152-158.	1.6	16
47	Improved secretion of molecular chaperoneâ€assisted human IgG in silkworm, and no alterations in their Nâ€linked glycan structures. Biotechnology Progress, 2010, 26, 232-238.	1.3	14
48	Expression of Protein Complex Comprising the Human Prorenin and (Pro)Renin Receptor in Silkworm Larvae Using Bombyx mori Nucleopolyhedrovirus (BmNPV) Bacmids for Improving Biological Function. Molecular Biotechnology, 2009, 43, 154-161.	1.3	13
49	Efficient production of cellulase in the culture of Acremonium cellulolyticus using untreated waste paper sludge. Biotechnology Progress, 2011, 27, 104-110.	1.3	13
50	Development of a diagnostic method for neosporosis in cattle using recombinant Neospora caninum proteins. BMC Biotechnology, 2012, 12, 19.	1.7	13
51	Display of Neospora caninum surface protein related sequence 2 on Rous sarcoma virus-derived gag protein virus-like particles. Journal of Biotechnology, 2013, 165, 69-75.	1.9	13
52	Development of Two Murine Antibodies against Neospora caninum Using Phage Display Technology and Application on the Detection of N. caninum. PLoS ONE, 2013, 8, e53264.	1.1	13
53	Functional analysis of cis-aconitate decarboxylase and trans-aconitate metabolism in riboflavin-producing filamentous Ashbya gossypii. Journal of Bioscience and Bioengineering, 2014, 117, 563-568.	1.1	13
54	Stable isotope labeling of glycoprotein expressed in silkworms using immunoglobulin G as a test molecule. Journal of Biomolecular NMR, 2015, 62, 157-167.	1.6	13

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55	Molecular Chaperone-Assisted Production of Human Î±-1,4-N-Acetylglucosaminyltransferase in Silkworm Larvae Using Recombinant BmNPV Bacmids. Molecular Biotechnology, 2009, 43, 67-75.	1.3	12
56	Production of Rous sarcoma virus-like particles displaying human transmembrane protein in silkworm larvae and its application to ligandâ€“receptor binding assay. Journal of Biotechnology, 2011, 155, 185-192.	1.9	12
57	Gene transduction in mammalian cells using Bombyx mori nucleopolyhedrovirus assisted by glycoprotein 64 of Autographa californica multiple nucleopolyhedrovirus. Scientific Reports, 2016, 6, 32283.	1.6	12
58	Virus-Like Particles Displaying Recombinant Short-Chain Fragment Region and Interleukin 2 for Targeting Colon Cancer Tumors and Attracting Macrophages. Journal of Pharmaceutical Sciences, 2016, 105, 1614-1622.	1.6	12
59	Specific expression of GFPuv-Î²1,3-N-acetylglucosaminyltransferase 2 fusion protein in fat body of Bombyx mori silkworm larvae using signal peptide. Biochemical and Biophysical Research Communications, 2007, 359, 543-548.	1.0	11
60	Human single-chain antibody expression in the hemolymph and fat body of silkworm larvae and pupae using BmNPV bacmids. Journal of Bioscience and Bioengineering, 2009, 107, 67-72.	1.1	11
61	A Model for Targeting Colon Carcinoma Cells Using Single-Chain Variable Fragments Anchored on Virus-Like Particles via Glycosyl Phosphatidylinositol Anchor. Pharmaceutical Research, 2014, 31, 2166-2177.	1.7	11
62	Versatility of chitosan/BmNPV bacmid DNA nanocomplex as transfection reagent of recombinant protein expression in silkworm larvae. Biotechnology Letters, 2016, 38, 1449-1457.	1.1	11
63	Application of Novel Sialoglyco Particulates Enhances the Detection Sensitivity of the Equine Influenza Virus by Real-Time Reverse Transcriptase Polymerase Chain Reaction. ACS Applied Bio Materials, 2019, 2, 1255-1261.	2.3	11
64	Improved insecticidal activity of a recombinant baculovirus expressing spider venom cyto-insectotoxin. Applied Microbiology and Biotechnology, 2015, 99, 10261-10269.	1.7	10
65	Bombyx mori Nucleopolyhedrovirus Displaying Neospora caninum Antigens as a Vaccine Candidate Against N. caninum Infection in Mice. Molecular Biotechnology, 2015, 57, 145-154.	1.3	10
66	Effects of Cordycepin in Cordyceps militaris during Its Infection to Silkworm Larvae. Microorganisms, 2021, 9, 681.	1.6	10
67	Binding affinity of full-length and extracellular domains of recombinant human (pro)renin receptor to human renin when expressed in the fat body and hemolymph of silkworm larvae. Journal of Bioscience and Bioengineering, 2009, 108, 304-309.	1.1	9
68	Genome Sequence of a Novel Iflavirus from mRNA Sequencing of the Pupa of Bombyx mori Inoculated with Cordyceps militaris. Genome Announcements, 2015, 3, .	0.8	9
69	The effects of gene disruption of Kre6-like proteins on the phenotype of Î²-glucan-producing Aureobasidium pullulans. Applied Microbiology and Biotechnology, 2018, 102, 4467-4475.	1.7	9
70	Sero-diagnostic potential of Plasmodium falciparum recombinant merozoite surface protein (MSP)-3 expressed in silkworm. Parasitology International, 2019, 72, 101938.	0.6	9
71	Biochemical characterization and mutational analysis of silkworm Bombyx mori Î²-1,4-N-acetylgalactosaminyltransferase and insight into the substrate specificity of Î²-1,4-galactosyltransferase family enzymes. Insect Biochemistry and Molecular Biology, 2019, 115, 103254.	1.2	9
72	Expression of human papillomavirus 6b L1 protein in silkworm larvae and enhanced green fluorescent protein displaying on its virus-like particles. SpringerPlus, 2012, 1, 29.	1.2	8

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73	Human acetyl-CoA carboxylase 2 expressed in silkworm Bombyx mori exhibits posttranslational biotinylation and phosphorylation. Applied Microbiology and Biotechnology, 2014, 98, 8201-8209.	1.7	8
74	Novel enzymatic synthesis of spacer-linked Pk trisaccharide targeting for neutralization of Shiga toxin. Journal of Biotechnology, 2015, 209, 50-57.	1.9	8
75	Functional Analysis of Ribonucleotide Reductase from Cordyceps militaris Expressed in Escherichia coli. Applied Biochemistry and Biotechnology, 2017, 182, 1307-1317.	1.4	8
76	Development of SpyTag/SpyCatcher-Bacmid Expression Vector System (SpyBEVS) for Protein Bioconjugations Inside of Silkworms. International Journal of Molecular Sciences, 2019, 20, 4228.	1.8	8
77	Neospora caninum antigens displaying virus-like particles as a bivalent vaccine candidate against neosporosis. Vaccine, 2019, 37, 6426-6434.	1.7	8
78	Expression and characterization of silkworm Bombyx mori Î²-1,2-N-acetylglucosaminyltransferase II, a key enzyme for complex-type N-glycan biosynthesis. Journal of Bioscience and Bioengineering, 2019, 127, 273-280.	1.1	8
79	Identification of antigenic domains and peptides from VP15 of white spot syndrome virus and their antiviral effects in Marsupenaeus japonicus. Scientific Reports, 2021, 11, 12766.	1.6	8
80	Improvement of the transcriptional strength of baculovirus very late polyhedrin promoter by repeating its untranslated leader sequences and coexpression with the primary transactivator. Journal of Bioscience and Bioengineering, 2012, 113, 694-696.	1.1	7
81	Expression and purification of bioactive hemagglutinin protein of highly pathogenic avian influenza A (H5N1) in silkworm larvae. Journal of Virological Methods, 2013, 194, 271-276.	1.0	7
82	Characterization of human papillomavirus 6b L1 virus-like particles isolated from silkworms using capillary zone electrophoresis. Journal of Bioscience and Bioengineering, 2014, 118, 311-314.	1.1	7
83	Expression and purification of cyto-insectotoxin (Cit1a) using silkworm larvae targeting for an antimicrobial therapeutic agent. Applied Microbiology and Biotechnology, 2014, 98, 6973-6982.	1.7	7
84	Chemoenzymatic synthesis and characterization of N-glycolylneuraminic acid-carrying sialoglycopolypeptides as effective inhibitors against equine influenza virus hemagglutination. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1520-1528.	0.6	7
85	Production of dengue virus-like particles serotype-3 in silkworm larvae and their ability to elicit a humoral immune response in mice. AMB Express, 2020, 10, 147.	1.4	7
86	Enhanced Internalization of Macromolecular Drugs into Mycobacterium smegmatis with the Assistance of Silver Nanoparticles. Journal of Microbiology and Biotechnology, 2017, 27, 1483-1490.	0.9	7
87	Application of a radial-flow bioreactor in the production of Î²1,3-N-acetylglucosaminyltransferase-2 fused with GFPuv using stably transformed insect cell lines. Biotechnology and Applied Biochemistry, 2005, 42, 41.	1.4	6
88	Purification of functional baculovirus particles from silkworm larval hemolymph and their use as nanoparticles for the detection of human prorenin receptor (PRR) binding. BMC Biotechnology, 2011, 11, 60.	1.7	6
89	Production of human papillomavirus 6b L1 virus-like particles incorporated with enhanced green fluorescent whole protein in silkworm larvae. Biotechnology and Bioprocess Engineering, 2013, 18, 514-519.	1.4	6
90	Construction of New Ligation-Independent Cloning Vectors for the Expression and Purification of Recombinant Proteins in Silkworms Using BmNPV Bacmid System. PLoS ONE, 2013, 8, e64007.	1.1	6

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91	Purification of human papillomavirus-like particles expressed in silkworm using a Bombyx mori nucleopolyhedrovirus bacmid expression system. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1096, 39-47.	1.2	6
92	Formation of Virus-Like Particles of the Dengue Virus Serotype 2 Expressed in Silkworm Larvae. Molecular Biotechnology, 2019, 61, 852-859.	1.3	6
93	Comparison of the efficiencies of different affinity tags in the purification of a recombinant secretory protein expressed in silkworm larval hemolymph. Biotechnology and Bioprocess Engineering, 2009, 14, 281-287.	1.4	5
94	Localization of human (pro)renin receptor lacking the transmembrane domain on budded baculovirus of Autographa californica multiple nucleopolyhedrovirus. Applied Microbiology and Biotechnology, 2009, 82, 431-437.	1.7	5
95	Production of scFv-displaying BmNPV in silkworm larvae and its efficient purification. Biotechnology and Applied Biochemistry, 2010, 57, 63-69.	1.4	5
96	New strategy for rapid isolation of stable cell lines from DNA-transformed insect cells using fluorescence activated cell-sorting. Journal of Biotechnology, 2010, 147, 102-107.	1.9	5
97	Evaluation of recombinant Neospora caninum antigens purified from silkworm larvae for the protection of N.Âcaninum infection in mice. Journal of Bioscience and Bioengineering, 2015, 120, 715-719.	1.1	5
98	Secretory Nanoparticles of Neospora caninum Profilin-Fused with the Transmembrane Domain of GP64 from Silkworm Hemolymph. Nanomaterials, 2019, 9, 593.	1.9	5
99	A systematic and methodical approach for the efficient purification of recombinant protein from silkworm larval hemolymph. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1138, 121964.	1.2	5
100	Genomic analysis of a riboflavin-overproducing Ashbya gossypii mutant isolated by disparity mutagenesis. BMC Genomics, 2020, 21, 319.	1.2	5
101	Heterologous expression, purification and characterization of human Î²-1,2-N-acetylglucosaminyltransferase II using a silkworm-based Bombyx mori nucleopolyhedrovirus bacmid expression system. Journal of Bioscience and Bioengineering, 2018, 126, 15-22.	1.1	4
102	Silkworm Pupae Function as Efficient Producers of Recombinant Glycoproteins with Stable-Isotope Labeling. Biomolecules, 2020, 10, 1482.	1.8	4
103	Effects of sirtuins on the riboflavin production in Ashbya gossypii. Applied Microbiology and Biotechnology, 2021, 105, 7813-7823.	1.7	4
104	Tracking Neospora caninum parasites using chimera monoclonal antibodies against its surface antigen-related sequences (rNcSRS2). Journal of Bioscience and Bioengineering, 2014, 117, 351-357.	1.1	3
105	Phosphorylation of Ser-204 and Tyr-405 in human malonyl-CoA decarboxylase expressed in silkworm Bombyx mori regulates catalytic decarboxylase activity. Applied Microbiology and Biotechnology, 2015, 99, 8977-8986.	1.7	3
106	In vivo enzymatic digestion of HRV 3C protease cleavage sites-containing proteins produced in a silkworm-baculovirus expression system. Bioscience Reports, 0, , .	1.1	3
107	Quantitative screening of insect cell transformants stably expressing GFPuv-ÃŸ 1,3-N-acetylglucosaminyltransferase 2 fusion protein. Biotechnology and Bioprocess Engineering, 2005, 10, 275-279.	1.4	2
108	Alteration of a recombinant protein N-glycan structure in silkworms by partial suppression of N-acetylglucosaminidase gene expression. Biotechnology Letters, 2017, 39, 1299-1308.	1.1	2

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109	Insulin-like peptide 3 expressed in the silkworm possesses intrinsic disulfide bonds and full biological activity. Scientific Reports, 2017, 7, 17339.	1.6	2
110	Preparation of divalent antigen-displaying enveloped virus-like particles using a single recombinant Bombyx mori nucleopolyhedrovirus bacmid in silkworms. Journal of Biotechnology, 2020, 323, 92-97.	1.9	2
111	Display of the human (pro)renin receptor on Bombyx mori nucleopolyhedrovirus (BmNPV) particles using Bm cells. Journal of Bioscience and Bioengineering, 2012, 114, 564-569.	1.1	1
112	Transduction of a Neospora caninum antigen gene into mammalian cells using a modified Bombyx mori nucleopolyhedrovirus for antibody production. Journal of Bioscience and Bioengineering, 2017, 124, 606-610.	1.1	0
113	Expression of a functional intrabody against hepatitis C virus core protein in Escherichia coli and silkworm pupae. Protein Expression and Purification, 2018, 150, 61-66.	0.6	0
114	Identification of secretion domain of Neospora caninum profilin. Biochemical and Biophysical Research Communications, 2020, 522, 8-13.	1.0	0
115	Effects of a proteasome inhibitor on the riboflavin production in Ashbya gossypii. Journal of Applied Microbiology, 2021, , .	1.4	0
116	Advanced Protein Expression Using Bombyx mori Nucleopolyhedrovirus (BmNPV) Bacmid in Silkworm. True Bugs (Heteroptera) of the Neotropics, 2016, , 165-184.	1.2	0
117	Dual display hemagglutinin 1 and 5 on the surface of enveloped virus-like particles in silkworm expression system. Protein Expression and Purification, 2022, 197, 106106.	0.6	0