

Aizhen Guo

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,366
citations

394390

19
h-index

434170

31
g-index

81
all docs

81
docs citations

81
times ranked

1467
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Geno-Plasticity Analysis of <i>Mycoplasma bovis</i> HB0801 (Chinese Isolate). PLoS ONE, 2012, 7, e38239.	2.5	71
2	Potential challenges to the Stop TB Plan for humans in China; cattle maintain <i>M.Âbovis</i> and <i>M. tuberculosis</i> . Tuberculosis, 2009, 89, 95-100.	1.9	65
3	Prevalence Study and Genetic Typing of Bovine Viral Diarrhea Virus (BVDV) in Four Bovine Species in China. PLoS ONE, 2015, 10, e0121718.	2.5	60
4	<i>Mycoplasma bovis</i> MBOV_RS02825 Encodes a Secretory Nuclease Associated with Cytotoxicity. International Journal of Molecular Sciences, 2016, 17, 628.	4.1	59
5	<i>Mycoplasma bovis</i> NADH oxidase functions as both a NADH oxidizing and O ₂ reducing enzyme and an adhesin. Scientific Reports, 2017, 7, 44.	3.3	59
6	FimH alleles direct preferential binding of <i>Salmonella</i> to distinct mammalian cells or to avian cells. Microbiology (United Kingdom), 2009, 155, 1623-1633.	1.8	51
7	6-Bromoindirubin-3-oxime Suppresses LPS-Induced Inflammation via Inhibition of the TLR4/NF-ÎB and TLR4/MAPK Signaling Pathways. Inflammation, 2019, 42, 2192-2204.	3.8	49
8	Attenuated <i>Mycoplasma bovis</i> strains provide protection against virulent infection in calves. Vaccine, 2014, 32, 3107-3114.	3.8	44
9	TrmFO, a Fibronectin-Binding Adhesin of <i>Mycoplasma bovis</i> . International Journal of Molecular Sciences, 2017, 18, 1732.	4.1	44
10	Identification of potential urine proteins and microRNA biomarkers for the diagnosis of pulmonary tuberculosis patients. Emerging Microbes and Infections, 2018, 7, 1-13.	6.5	37
11	Ivermectin Inhibits Bovine Herpesvirus 1 DNA Polymerase Nuclear Import and Interferes With Viral Replication. Microorganisms, 2020, 8, 409.	3.6	33
12	Immunoproteomic identification of MbovP579, a promising diagnostic biomarker for serological detection of <i>Mycoplasma bovis</i> infection. Oncotarget, 2016, 7, 39376-39395.	1.8	32
13	Diversity and distribution of type A influenza viruses: an updated panorama analysis based on protein sequences. Virology Journal, 2019, 16, 85.	3.4	28
14	Evidence for a primate origin of zoonotic <i>Helicobacter suis</i> colonizing domesticated pigs. ISME Journal, 2018, 12, 77-86.	9.8	26
15	Comparative Proteomics Analysis of Human Macrophages Infected with Virulent <i>Mycobacterium bovis</i> . Frontiers in Cellular and Infection Microbiology, 2017, 7, 65.	3.9	25
16	Utility of mycobacterial interspersed repetitive unit typing for differentiating <i>Mycobacterium tuberculosis</i> isolates in Wuhan, China. Journal of Medical Microbiology, 2007, 56, 1219-1223.	1.8	25
17	Evaluation of efficacy, biodistribution and safety of antibiotic-free plasmid encoding somatostatin genes delivered by attenuated <i>Salmonella enterica</i> serovar Choleraesuis. Vaccine, 2014, 32, 1368-1374.	3.8	24
18	Identification of new diagnostic biomarkers for <i>Mycobacterium tuberculosis</i> and the potential application in the serodiagnosis of human tuberculosis. Microbial Biotechnology, 2018, 11, 893-904.	4.2	24

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19	Attenuation of bovine herpesvirus type 1 by deletion of its glycoprotein G and tk genes and protection against virulent viral challenge. <i>Vaccine</i> , 2011, 29, 8943-8950.	3.8	21
20	Characterization of the Mechanism of Inhibin β -Subunit Gene in Mouse Anterior Pituitary Cells by RNA Interference. <i>PLoS ONE</i> , 2013, 8, e74596.	2.5	21
21	<i>Mycobacterium bovis</i> and BCG induce different patterns of cytokine and chemokine production in dendritic cells and differentiation patterns in CD4+ T cells. <i>Microbiology (United Kingdom)</i> , 2013, 159, 366-379.	1.8	20
22	Genotype distribution of Chinese <i>Mycoplasma bovis</i> isolates and their evolutionary relationship to strains from other countries. <i>Microbial Pathogenesis</i> , 2017, 111, 108-117.	2.9	20
23	Fructose-1,6-bisphosphate aldolase is involved in <i>Mycoplasma bovis</i> colonization as a fibronectin-binding adhesin. <i>Research in Veterinary Science</i> , 2019, 124, 70-78.	1.9	20
24	Mbov_0503 Encodes a Novel Cytoadhesin that Facilitates <i>Mycoplasma bovis</i> Interaction with Tight Junctions. <i>Microorganisms</i> , 2020, 8, 164.	3.6	19
25	P27 (MBOV_RS03440) is a novel fibronectin binding adhesin of <i>Mycoplasma bovis</i> . <i>International Journal of Medical Microbiology</i> , 2018, 308, 848-857.	3.6	18
26	Gambogic acid alleviates inflammation and apoptosis and protects the blood-milk barrier in mastitis induced by LPS. <i>International Immunopharmacology</i> , 2020, 86, 106697.	3.8	18
27	An epidemiological study of brucellosis on mainland China during 2004–2018. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 2353-2363.	3.0	18
28	C3d enhanced DNA vaccination induced humoral immune response to glycoprotein C of pseudorabies virus. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 845-851.	2.1	17
29	Protective effect of ligand-binding domain of fibronectin-binding protein on mastitis induced by <i>Staphylococcus aureus</i> in mice. <i>Vaccine</i> , 2010, 28, 4038-4044.	3.8	16
30	Establishment of an antibody avidity test to differentiate vaccinated cattle from those naturally infected with <i>Mycoplasma bovis</i> . <i>Veterinary Journal</i> , 2015, 203, 79-84.	1.7	16
31	Extracellular DNA: A Nutritional Trigger of <i>Mycoplasma bovis</i> Cytotoxicity. <i>Frontiers in Microbiology</i> , 2019, 10, 2753.	3.5	16
32	Down-Regulation of miR-378d Increased Rab10 Expression to Help Clearance of <i>Mycobacterium tuberculosis</i> in Macrophages. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 108.	3.9	15
33	1H-NMR Spectroscopy Revealed <i>Mycobacterium tuberculosis</i> Caused Abnormal Serum Metabolic Profile of Cattle. <i>PLoS ONE</i> , 2013, 8, e74507.	2.5	14
34	Identification of 60 secreted proteins for <i>Mycoplasma bovis</i> with secretome assay. <i>Microbial Pathogenesis</i> , 2020, 143, 104135.	2.9	14
35	MicroRNA-18b-5p Downregulation Favors <i>Mycobacterium tuberculosis</i> Clearance in Macrophages via HIF-1 β by Promoting an Inflammatory Response. <i>ACS Infectious Diseases</i> , 2021, 7, 800-810.	3.8	14
36	Transcriptome Profiling of m6A mRNA Modification in Bovine Mammary Epithelial Cells Treated with <i>Escherichia coli</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6254.	4.1	14

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37	Toll-like receptor 6 gene polymorphisms increase the risk of bovine tuberculosis in Chinese Holstein cattle. <i>Acta Histochemica</i> , 2014, 116, 1159-1162.	1.8	13
38	An emerging role for cyclic dinucleotide phosphodiesterase and nanoRNase activities in <i>Mycoplasma bovis</i> : Securing survival in cell culture. <i>PLoS Pathogens</i> , 2020, 16, e1008661.	4.7	13
39	Novel Secreted Protein of <i>Mycoplasma bovis</i> MbovP280 Induces Macrophage Apoptosis Through CRYAB. <i>Frontiers in Immunology</i> , 2021, 12, 619362.	4.8	13
40	Genome-Wide Analysis of LncRNA in Bovine Mammary Epithelial Cell Injuries Induced by <i>Escherichia Coli</i> and <i>Staphylococcus Aureus</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 9719.	4.1	13
41	Tissue inhibitor of metalloproteinases 1, a novel biomarker of tuberculosis. <i>Molecular Medicine Reports</i> , 2017, 15, 483-487.	2.4	12
42	Immunization of DNA vaccine encoding C3d-VP1 fusion enhanced protective immune response against foot-and-mouth disease virus. <i>Virus Genes</i> , 2007, 35, 347-357.	1.6	11
43	Comparative Genomics of a Bovine <i>Mycobacterium tuberculosis</i> Isolate and Other Strains Reveals Its Potential Mechanism of Bovine Adaptation. <i>Frontiers in Microbiology</i> , 2017, 8, 2500.	3.5	11
44	Assessment of the physicochemical properties and bacterial composition of <i>Lactobacillus plantarum</i> and <i>Enterococcus faecium</i> -fermented <i>Astragalus membranaceus</i> using single molecule, real-time sequencing technology. <i>Scientific Reports</i> , 2018, 8, 11862.	3.3	11
45	Cryptosporidiosis outbreak caused by <i>Cryptosporidium parvum</i> subtype IIdA20G1 in neonatal calves. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 278-285.	3.0	11
46	Sensitive and Specific Detection of Lumpy Skin Disease Virus in Cattle by CRISPR-Cas12a Fluorescent Assay Coupled with Recombinase Polymerase Amplification. <i>Genes</i> , 2022, 13, 734.	2.4	10
47	Evaluation of a milk ELISA as an alternative to a serum ELISA in the determination of the prevalence and incidence of brucellosis in dairy herds in Hubei Province, China. <i>Preventive Veterinary Medicine</i> , 2020, 182, 105086.	1.9	9
48	Upregulation of Cytokines and Differentiation of Th17 and Treg by Dendritic Cells: Central Role of Prostaglandin E2 Induced by <i>Mycobacterium bovis</i> . <i>Microorganisms</i> , 2020, 8, 195.	3.6	9
49	Proteomics identification and characterization of MbovP730 as a potential DIVA antigen of <i>Mycoplasma bovis</i> . <i>Oncotarget</i> , 2018, 9, 28322-28336.	1.8	8
50	TRIM25 upregulation by <i>Mycobacterium tuberculosis</i> infection promotes intracellular survival of <i>M.tb</i> in RAW264.7 cells. <i>Microbial Pathogenesis</i> , 2020, 148, 104456.	2.9	8
51	Progresses on bacterial secretomes enlighten research on <i>Mycoplasma</i> secretome. <i>Microbial Pathogenesis</i> , 2020, 144, 104160.	2.9	8
52	Isolation and whole protein characterization of species A and B bovine rotaviruses from Chinese calves. <i>Infection, Genetics and Evolution</i> , 2021, 89, 104715.	2.3	8
53	A bovine herpesvirus 1 pUL51 deletion mutant shows impaired viral growth <i>in vitro</i> and reduced virulence in rabbits. <i>Oncotarget</i> , 2016, 7, 12235-12253.	1.8	8
54	Comparative Secretome Analyses of <i>Mycoplasma bovis</i> Virulent and Attenuated Strains Revealed MbovP0145 as a Promising Diagnostic Biomarker. <i>Frontiers in Veterinary Science</i> , 2021, 8, 666769.	2.2	7

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55	Prevalence of bovine astroviruses and their genotypes in sampled Chinese calves with and without diarrhoea. <i>Journal of General Virology</i> , 2021, 102, .	2.9	7
56	Genomic Analysis of a <i>Mycobacterium Bovis</i> Bacillus Calmette-Guérin Strain Isolated from an Adult Patient with Pulmonary Tuberculosis. <i>PLoS ONE</i> , 2015, 10, e0122403.	2.5	7
57	Serological detection of <i>Mycobacterium Tuberculosis</i> complex infection in multiple hosts by One Universal ELISA. <i>PLoS ONE</i> , 2021, 16, e0257920.	2.5	7
58	N6-Methyladenosine-Modified circRNA in the Bovine Mammary Epithelial Cells Injured by <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>Frontiers in Immunology</i> , 2022, 13, 873330.	4.8	7
59	Proteomics analysis and its role in elucidation of functionally significant proteins in <i>Mycoplasma bovis</i> . <i>Microbial Pathogenesis</i> , 2017, 111, 50-59.	2.9	6
60	Comparative proteomic and genomic analyses of <i>Brucella abortus</i> biofilm and planktonic cells. <i>Molecular Medicine Reports</i> , 2020, 21, 731-743.	2.4	6
61	Characterization of BoHV-1 gG-/tk-/gE- Mutant in Differential Protein Expression, Virulence, and Immunity. <i>Veterinary Sciences</i> , 2021, 8, 253.	1.7	6
62	Secreted MbovP0145 Promotes IL-8 Expression through Its Interactive β -Actin and MAPK Activation and Contributes to Neutrophil Migration. <i>Pathogens</i> , 2021, 10, 1628.	2.8	6
63	Identification of Unique Key miRNAs, TFs, and mRNAs in Virulent MTB Infection Macrophages by Network Analysis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 382.	4.1	6
64	<i>Mycoplasmas</i> as Host Pantropic and Specific Pathogens: Clinical Implications, Gene Transfer, Virulence Factors, and Future Perspectives. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, .	3.9	6
65	Global transcriptional profiles of <i>Mycobacterium tuberculosis</i> treated with plumbagin. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2261-2269.	3.6	5
66	Light-Regulated Natural Fluorescence of the PCC 6803@ZIF-8 Composite as an Encoded Microsphere for the Detection of Multiple Biomarkers. <i>ACS Sensors</i> , 2021, 6, 2574-2583.	7.8	5
67	Key issues affecting the current status of infectious diseases in Chinese cattle farms and their control through vaccination. <i>Vaccine</i> , 2021, 39, 4184-4189.	3.8	5
68	Two dimensional gel electrophoresis (2-DE) for high-throughput proteome analyses of <i>Mycoplasma bovis</i> . <i>Acta Biochimica Polonica</i> , 2019, 66, 321-327.	0.5	5
69	Regularity of Toll-Like Receptors in Bovine Mammary Epithelial Cells Induced by <i>Mycoplasma bovis</i> . <i>Frontiers in Veterinary Science</i> , 2022, 9, 846700.	2.2	5
70	Bovine herpesvirus 1 tegument protein <i>UL21</i> plays critical roles in viral secondary envelopment and cell-to-cell spreading. <i>Oncotarget</i> , 2017, 8, 94462-94480.	1.8	4
71	Modification of SARS-CoV S1 gene render expression in <i>Pichia pastoris</i> . <i>Virus Genes</i> , 2006, 33, 329-335.	1.6	3
72	Differential nitric oxide induced by <i>Mycobacterium bovis</i> and BCG leading to dendritic cells apoptosis in a caspase dependent manner. <i>Microbial Pathogenesis</i> , 2020, 149, 104303.	2.9	3

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73	Small RNA Profiling in Mycobacterium Provides Insights Into Stress Adaptability. <i>Frontiers in Microbiology</i> , 2021, 12, 752537.	3.5	3
74	N6-Methyladenosine Modification Profile in Bovine Mammary Epithelial Cells Treated with Heat-Inactivated <i>Staphylococcus aureus</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-15.	4.0	3
75	<i>Mycobacterium tuberculosis</i> Rv0309 Dampens the Inflammatory Response and Enhances Mycobacterial Survival. <i>Frontiers in Immunology</i> , 2022, 13, 829410.	4.8	3
76	Different rabies outbreaks on two beef cattle farms in the same province of China: Diagnosis, virus characterization and epidemiological analysis. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 1216-1228.	3.0	2
77	Use of Rv0222-Rv2657c-Rv1509 Fusion Protein to Improve the Accuracy of an Antibody ELISA for Extra-Pulmonary Tuberculosis in Humans. <i>Pathogens</i> , 2021, 10, 828.	2.8	2
78	Comparative Analysis on Proteomics Profiles of Intracellular and Extracellular <i>M.tb</i> and BCG From Infected Human Macrophages. <i>Frontiers in Genetics</i> , 2022, 13, 847838.	2.3	2
79	An abattoir-based study on the prevalence of bovine tuberculosis from culled adult dairy cows in Wuhan, China. <i>Preventive Veterinary Medicine</i> , 2021, 196, 105477.	1.9	1
80	MicroRNA Profile of MA-104 Cell Line Associated With the Pathogenesis of Bovine Rotavirus Strain Circulated in Chinese Calves. <i>Frontiers in Microbiology</i> , 2022, 13, 854348.	3.5	1