

Jianqiang Zhang

List of Publications by Year in descending order

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90
papers

2,935
citations

185998

28
h-index

197535

49
g-index

99
all docs

99
docs citations

99
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and Characterization of Porcine Epidemic Diarrhea Viruses Associated with the 2013 Disease Outbreak among Swine in the United States. <i>Journal of Clinical Microbiology</i> , 2014, 52, 234-243.	1.8	352
2	Role of Transportation in Spread of Porcine Epidemic Diarrhea Virus Infection, United States. <i>Emerging Infectious Diseases</i> , 2014, 20, 872-874.	2.0	191
3	Pathogenicity and pathogenesis of a United States porcine deltacoronavirus cell culture isolate in 5-day-old neonatal piglets. <i>Virology</i> , 2015, 482, 51-59.	1.1	141
4	Porcine deltacoronavirus: Overview of infection dynamics, diagnostic methods, prevalence and genetic evolution. <i>Virus Research</i> , 2016, 226, 71-84.	1.1	136
5	Full-Length Genome Sequence of Porcine Deltacoronavirus Strain USA/IA/2014/8734. <i>Genome Announcements</i> , 2014, 2, .	0.8	104
6	Effect of Porcine Epidemic Diarrhea Virus Infectious Doses on Infection Outcomes in Naïve Conventional Neonatal and Weaned Pigs. <i>PLoS ONE</i> , 2015, 10, e0139266.	1.1	96
7	Novel Reassortant Human-Like H3N2 and H3N1 Influenza A Viruses Detected in Pigs Are Virulent and Antigenically Distinct from Swine Viruses Endemic to the United States. <i>Journal of Virology</i> , 2015, 89, 11213-11222.	1.5	84
8	Pathogenesis comparison between the United States porcine epidemic diarrhoea virus prototype and S-INDEL-variant strains in conventional neonatal piglets. <i>Journal of General Virology</i> , 2016, 97, 1107-1121.	1.3	78
9	Porcine reproductive and respiratory disease virus: Evolution and recombination yields distinct ORF5 RFLP 1-7-4 viruses with individual pathogenicity. <i>Virology</i> , 2018, 513, 168-179.	1.1	75
10	High-throughput whole genome sequencing of Porcine reproductive and respiratory syndrome virus from cell culture materials and clinical specimens using next-generation sequencing technology. <i>Journal of Veterinary Diagnostic Investigation</i> , 2017, 29, 41-50.	0.5	70
11	Phylogenetics, Genomic Recombination, and NSP2 Polymorphic Patterns of Porcine Reproductive and Respiratory Syndrome Virus in China and the United States in 2014–2018. <i>Journal of Virology</i> , 2020, 94, .	1.5	69
12	Genomic and evolutionary inferences between American and global strains of porcine epidemic diarrhea virus. <i>Preventive Veterinary Medicine</i> , 2016, 123, 175-184.	0.7	60
13	Porcine epidemic diarrhea virus (PEDV) detection and antibody response in commercial growing pigs. <i>BMC Veterinary Research</i> , 2016, 12, 99.	0.7	58
14	Metagenomic analysis of the RNA fraction of the fecal virome indicates high diversity in pigs infected by porcine endemic diarrhea virus in the United States. <i>Virology Journal</i> , 2018, 15, 95.	1.4	57
15	Porcine Epidemic Diarrhea Virus RNA Present in Commercial Spray-Dried Porcine Plasma Is Not Infectious to Naïve Pigs. <i>PLoS ONE</i> , 2014, 9, e104766.	1.1	56
16	The spray-drying process is sufficient to inactivate infectious porcine epidemic diarrhea virus in plasma. <i>Veterinary Microbiology</i> , 2014, 174, 86-92.	0.8	54
17	Whole-Genome Sequences of Novel Porcine Circovirus Type 2 Viruses Detected in Swine from Mexico and the United States. <i>Genome Announcements</i> , 2015, 3, .	0.8	49
18	Evaluation of two singleplex reverse transcription-Insulated isothermal PCR tests and a duplex real-time RT-PCR test for the detection of porcine epidemic diarrhea virus and porcine deltacoronavirus. <i>Journal of Virological Methods</i> , 2016, 234, 34-42.	1.0	42

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19	Recombination between Vaccine and Field Strains of Porcine Reproductive and Respiratory Syndrome Virus. <i>Emerging Infectious Diseases</i> , 2019, 25, 2335-2337.	2.0	42
20	Reactivity of Porcine Epidemic Diarrhea Virus Structural Proteins to Antibodies against Porcine Enteric Coronaviruses: Diagnostic Implications. <i>Journal of Clinical Microbiology</i> , 2017, 55, 1426-1436.	1.8	41
21	Detection of live attenuated influenza vaccine virus and evidence of reassortment in the U.S. swine population. <i>Journal of Veterinary Diagnostic Investigation</i> , 2020, 32, 301-311.	0.5	39
22	Full-Length Genome Sequences of Senecavirus A from Recent Idiopathic Vesicular Disease Outbreaks in U.S. Swine. <i>Genome Announcements</i> , 2015, 3, .	0.8	37
23	The use of cells from ANPEP knockout pigs to evaluate the role of aminopeptidase N (APN) as a receptor for porcine deltacoronavirus (PDCoV). <i>Virology</i> , 2020, 541, 136-140.	1.1	37
24	The emergence of novel sparrow deltacoronaviruses in the United States more closely related to porcine deltacoronaviruses than sparrow deltacoronavirus HKU17. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-4.	3.0	33
25	Evaluation of serological cross-reactivity and cross-neutralization between the United States porcine epidemic diarrhea virus prototype and S-INDEL-variant strains. <i>BMC Veterinary Research</i> , 2016, 12, 70.	0.7	31
26	PCR-based retrospective evaluation of diagnostic samples for emergence of porcine deltacoronavirus in US swine. <i>Veterinary Microbiology</i> , 2015, 179, 296-298.	0.8	29
27	Feed batch sequencing to decrease the risk of porcine epidemic diarrhea virus (PEDV) cross-contamination during feed manufacturing ¹ . <i>Journal of Animal Science</i> , 2018, 96, 4562-4570.	0.2	29
28	RNA Extraction from Swine Samples and Detection of Influenza A Virus in Swine by Real-Time RT-PCR. <i>Methods in Molecular Biology</i> , 2014, 1161, 277-293.	0.4	29
29	Evaluation of the efficacy of a commercial inactivated genogroup 2b-based porcine epidemic diarrhea virus (PEDV) vaccine and experimental live genogroup 1b exposure against 2b challenge. <i>Veterinary Research</i> , 2017, 48, 69.	1.1	28
30	Evaluation of the effects of flushing feed manufacturing equipment with chemically treated rice hulls on porcine epidemic diarrhea virus cross-contamination during feed manufacturing ¹ . <i>Journal of Animal Science</i> , 2018, 96, 4149-4158.	0.2	27
31	Detection and characterization of an H4N6 avian-lineage influenza A virus in pigs in the Midwestern United States. <i>Virology</i> , 2017, 511, 56-65.	1.1	26
32	Characterizing the rapid spread of porcine epidemic diarrhea virus (PEDV) through an animal food manufacturing facility. <i>PLoS ONE</i> , 2017, 12, e0187309.	1.1	26
33	Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. <i>Veterinary Research</i> , 2015, 46, 140.	1.1	24
34	Does Circulating Antibody Play a Role in the Protection of Piglets against Porcine Epidemic Diarrhea Virus?. <i>PLoS ONE</i> , 2016, 11, e0153041.	1.1	24
35	Detection, isolation, and in vitro characterization of porcine parainfluenza virus type 1 isolated from respiratory diagnostic specimens in swine. <i>Veterinary Microbiology</i> , 2019, 228, 219-225.	0.8	23
36	Assessing the effects of medium-chain fatty acids and fat sources on PEDV infectivity. <i>Translational Animal Science</i> , 2020, 4, 1051-1059.	0.4	23

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37	Complete Genome Sequences of Two Novel Human-Like H3N2 Influenza A Viruses, A/swine/Oklahoma/65980/2017 (H3N2) and A/Swine/Oklahoma/65260/2017 (H3N2), Detected in Swine in the United States. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	20
38	Isolation of Swine Influenza Virus in Cell Cultures and Embryonated Chicken Eggs. <i>Methods in Molecular Biology</i> , 2014, 1161, 265-276.	0.4	19
39	Development and evaluation of a real-time RT-PCR and a field-deployable RT-insulated isothermal PCR for the detection of Seneca Valley virus. <i>BMC Veterinary Research</i> , 2019, 15, 168.	0.7	18
40	Quantifying the effect of lactogenic antibody on porcine epidemic diarrhea virus infection in neonatal piglets. <i>Veterinary Microbiology</i> , 2016, 197, 83-92.	0.8	17
41	Evaluation of the Serologic Cross-Reactivity between Transmissible Gastroenteritis Coronavirus and Porcine Respiratory Coronavirus Using Commercial Blocking Enzyme-Linked Immunosorbent Assay Kits. <i>MSphere</i> , 2019, 4, .	1.3	16
42	Complete Coding Genome Sequence of a Novel Porcine Reproductive and Respiratory Syndrome Virus 2 Restriction Fragment Length Polymorphism 1-4-4 Lineage 1C Variant Identified in Iowa, USA. <i>Microbiology Resource Announcements</i> , 2021, 10, e0044821.	0.3	16
43	Evaluation of an accelerated hydrogen peroxide disinfectant to inactivate porcine epidemic diarrhea virus in swine feces on aluminum surfaces under freezing conditions. <i>BMC Veterinary Research</i> , 2017, 13, 372.	0.7	15
44	Hepatitis B core antigen based novel vaccine against porcine epidemic diarrhea virus. <i>Journal of Virological Methods</i> , 2018, 253, 61-69.	1.0	15
45	Pathogenesis of a novel porcine parainfluenza virus type 1 isolate in conventional and colostrum deprived/caesarean derived pigs. <i>Virology</i> , 2021, 563, 88-97.	1.1	15
46	Experiences with infectious cDNA clones of equine arteritis virus: Lessons learned and insights gained. <i>Virology</i> , 2014, 462-463, 388-403.	1.1	14
47	Development of Polioencephalomyelitis in Cesarean-Derived Colostrum-Deprived Pigs Following Experimental Inoculation with Either Teschovirus A Serotype 2 or Serotype 11. <i>Viruses</i> , 2017, 9, 179.	1.5	14
48	Identification of porcine epidemic diarrhea virus variant with a large spike gene deletion from a clinical swine sample in the United States. <i>Virus Genes</i> , 2018, 54, 323-327.	0.7	14
49	Genetically divergent porcine sapovirus identified in pigs, United States. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 18-28.	1.3	14
50	Comparison of ZMAC and MARC-145 Cell Lines for Improving Porcine Reproductive and Respiratory Syndrome Virus Isolation from Clinical Samples. <i>Journal of Clinical Microbiology</i> , 2021, 59, .	1.8	14
51	Mitigation of Airborne PRRSV Transmission with UV Light Treatment: Proof-of-Concept. <i>Agriculture (Switzerland)</i> , 2021, 11, 259.	1.4	14
52	Development and Clinical Applications of a 5-Plex Real-Time RT-PCR for Swine Enteric Coronaviruses. <i>Viruses</i> , 2022, 14, 1536.	1.5	14
53	Diagnostic evaluation of assays for detection of antibodies against porcine epidemic diarrhea virus (PEDV) in pigs exposed to different PEDV strains. <i>Preventive Veterinary Medicine</i> , 2016, 135, 87-94.	0.7	13
54	Determining the impact of commercial feed additives as potential porcine epidemic diarrhea virus mitigation strategies as determined by polymerase chain reaction analysis and bioassay ¹ . <i>Translational Animal Science</i> , 2019, 3, 93-102.	0.4	13

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55	Effects of medium chain fatty acids as a mitigation or prevention strategy against porcine epidemic diarrhea virus in swine feed. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	13
56	Complete Genome Sequence of Porcine Sapelovirus Strain USA/IA33375/2015 Identified in the United States. <i>Genome Announcements</i> , 2016, 4, .	0.8	12
57	Molecular Evolution of Porcine Reproductive and Respiratory Syndrome Virus Field Strains from Two Swine Production Systems in the Midwestern United States from 2001 to 2020. <i>Microbiology Spectrum</i> , 2022, 10, e0263421.	1.2	12
58	Evaluation of a peroxygen-based disinfectant for inactivation of porcine epidemic diarrhea virus at low temperatures on metal surfaces. <i>Veterinary Microbiology</i> , 2018, 214, 99-107.	0.8	11
59	Genetic diversity of porcine reproductive and respiratory syndrome virus 1 in the United States of America from 2010 to 2018. <i>Veterinary Microbiology</i> , 2019, 239, 108486.	0.8	11
60	Detection and genomic characterization of new avian-like hepatitis E virus in a sparrow in the United States. <i>Archives of Virology</i> , 2018, 163, 2861-2864.	0.9	10
61	PRRSV2 genetic diversity defined by RFLP patterns in the United States from 2007 to 2019. <i>Journal of Veterinary Diagnostic Investigation</i> , 2021, 33, 920-931.	0.5	10
62	RNA Extraction from Swine Samples and Detection of Influenza A Virus in Swine by Real-Time RT-PCR. <i>Methods in Molecular Biology</i> , 2020, 2123, 295-310.	0.4	10
63	Efficacy of an accelerated hydrogen peroxide disinfectant to inactivate porcine epidemic diarrhea virus in swine feces on metal surfaces. <i>Canadian Journal of Veterinary Research</i> , 2017, 81, 100-107.	0.2	10
64	Isolation of Swine Influenza A Virus in Cell Cultures and Embryonated Chicken Eggs. <i>Methods in Molecular Biology</i> , 2020, 2123, 281-294.	0.4	9
65	Identification and characterization of small molecule inhibitors of porcine reproductive and respiratory syndrome virus. <i>Antiviral Research</i> , 2017, 146, 28-35.	1.9	8
66	Complete Genome Sequence of Porcine respirovirus 1 Strain USA/MN25890NS/2016, Isolated in the United States. <i>Genome Announcements</i> , 2017, 5, .	0.8	8
67	Development and validation of a reverse transcription real-time PCR assay for specific detection of PRRSGard vaccine-like virus. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 1212-1226.	1.3	8
68	Development of a bead-based assay for detection and differentiation of field strains and four vaccine strains of type 2 porcine reproductive and respiratory syndrome virus (PRRSV2) in the USA. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 1414-1423.	1.3	7
69	Intrahost Selection Pressure Drives Equine Arteritis Virus Evolution during Persistent Infection in the Stallion Reproductive Tract. <i>Journal of Virology</i> , 2019, 93, .	1.5	6
70	Detection of porcine parainfluenza virus type-1 antibody in swine serum using whole-virus ELISA, indirect fluorescence antibody and virus neutralizing assays. <i>BMC Veterinary Research</i> , 2022, 18, 110.	0.7	6
71	Implementing a user-friendly format to analyze PRRSV next-generation sequencing results and associating breeding herd production performance with number of PRRSV strains and recombination events. <i>Transboundary and Emerging Diseases</i> , 2022, , .	1.3	6
72	The United States Swine Pathogen Database: integrating veterinary diagnostic laboratory sequence data to monitor emerging pathogens of swine. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	1.4	5

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73	Characterization of a 2016-2017 Human Seasonal H3 Influenza A Virus Spillover Now Endemic to U.S. Swine. <i>MSphere</i> , 2022, 7, e0080921.	1.3	5
74	Bovine coronavirus in the lower respiratory tract of cattle with respiratory disease. <i>Journal of Veterinary Diagnostic Investigation</i> , 2022, 34, 482-488.	0.5	5
75	Impact of dietary spray-dried bovine plasma addition on pigs infected with porcine epidemic diarrhea virus. <i>Translational Animal Science</i> , 2018, 2, 349-357.	0.4	4
76	Genetic characterization of porcine sapoviruses identified from pigs during a diarrhoea outbreak in Iowa, 2019. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 1246-1255.	1.3	4
77	Environmental Sampling for Avian Influenza Virus Detection in Commercial Layer Facilities. <i>Avian Diseases</i> , 2021, 65, 391-400.	0.4	4
78	Ring test evaluation of the detection of influenza A virus in swine oral fluids by real-time reverse-transcription polymerase chain reaction and virus isolation. <i>Canadian Journal of Veterinary Research</i> , 2016, 80, 12-20.	0.2	4
79	Reply to "Classification of Emergent U.S. Strains of Porcine Epidemic Diarrhea Virus by Phylogenetic Analysis of Nucleocapsid and ORF3 Genes". <i>Journal of Clinical Microbiology</i> , 2014, 52, 3511-3514.	1.8	3
80	Complete Genome Sequence of Noncytopathic Bovine Viral Diarrhea Virus 1 Contaminating a High-Passage RK-13 Cell Line. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
81	Outbreak of H5N2 highly pathogenic avian Influenza A virus infection in two commercial layer facilities. <i>Journal of Veterinary Diagnostic Investigation</i> , 2016, 28, 568-573.	0.5	3
82	Efficacy of ultraviolet C exposure for inactivating Senecavirus A on experimentally contaminated surfaces commonly found on swine farms. <i>Veterinary Microbiology</i> , 2021, 256, 109040.	0.8	3
83	Designing and Testing of a System for Aerosolization and Recovery of Viable Porcine Reproductive and Respiratory Syndrome Virus (PRRSV): Theoretical and Engineering Considerations. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 659609.	2.0	3
84	IDENTIFICATION AND CORRELATION OF A NOVEL SIADENOVIRUS IN A FLOCK OF BUDGERIGARS (MELOPSITTACUS UNDULATES) INFECTED WITH SALMONELLA TYPHIMURIUM IN THE UNITED STATES. <i>Journal of Zoo and Wildlife Medicine</i> , 2020, 51, 618-630.	0.3	3
85	Molecular characterization of emerging variants of PRRSV in the United States: new features of the -2/-1 programmed ribosomal frameshifting signal in the nsp2 region. <i>Virology</i> , 2022, 573, 39-49.	1.1	3
86	Characterization of PRRSV in clinical samples and the corresponding cell culture isolates. <i>Transboundary and Emerging Diseases</i> , 0, , .	1.3	3
87	The effect of chemical clarification of oral fluids on porcine epidemic diarrhea virus antibody responses. <i>Journal of Veterinary Diagnostic Investigation</i> , 2018, 30, 937-941.	0.5	2
88	Disinfection and conditions associated with thermo-assisted drying and decontamination inconsistently produce negative PRRSV rRT-PCR results on metal surfaces. <i>Veterinary Microbiology</i> , 2021, 262, 109240.	0.8	2
89	Coinfection with type 1 and type 2 PRRSV. <i>Veterinary Record</i> , 2016, 178, 288-290.	0.2	1
90	Development and Characterization of an Infectious cDNA Clone of Equine Arteritis Virus. <i>Methods in Molecular Biology</i> , 2017, 1602, 11-28.	0.4	0