

Zvonimir Poljak

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

771
citations

566801

15
h-index

642321

23
g-index

80
all docs

80
docs citations

80
times ranked

923
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence of and risk factors for influenza in southern Ontario swine herds in 2001 and 2003. Canadian Journal of Veterinary Research, 2008, 72, 7-17.	1.1	47
2	The Assessment of Twitter's Potential for Outbreak Detection: Avian Influenza Case Study. Scientific Reports, 2019, 9, 18147.	1.6	41
3	Assessment of autoregressive integrated moving average (ARIMA), generalized linear autoregressive moving average (GLARMA), and random forest (RF) time series regression models for predicting influenza A virus frequency in swine in Ontario, Canada. PLoS ONE, 2018, 13, e0198313.	1.1	40
4	Aerosol Detection and Transmission of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV): What Is the Evidence, and What Are the Knowledge Gaps?. Viruses, 2019, 11, 712.	1.5	40
5	Socio-demographic disparities in knowledge, practices, and ability to comply with COVID-19 public health measures in Canada. Canadian Journal of Public Health, 2021, 112, 363-375.	1.1	40
6	Epidemiological investigations in regard to porcine reproductive and respiratory syndrome (PRRS) in Quebec, Canada. Part 2: Prevalence and risk factors in breeding sites. Preventive Veterinary Medicine, 2012, 104, 84-93.	0.7	34
7	An SEIR model of influenza A virus infection and reinfection within a farrow-to-finish swine farm. PLoS ONE, 2018, 13, e0202493.	1.1	34
8	An economic evaluation of intervention strategies for Porcine Epidemic Diarrhea (PED). Preventive Veterinary Medicine, 2016, 134, 58-68.	0.7	27
9	Development of a network based model to simulate the between-farm transmission of the porcine reproductive and respiratory syndrome virus. Veterinary Microbiology, 2015, 180, 212-222.	0.8	24
10	Bioaerosol and surface sampling for the surveillance of influenza A virus in swine. Transboundary and Emerging Diseases, 2019, 66, 1210-1217.	1.3	22
11	Simulation of between-farm transmission of porcine reproductive and respiratory syndrome virus in Ontario, Canada using the North American Animal Disease Spread Model. Preventive Veterinary Medicine, 2015, 118, 413-426.	0.7	21
12	Assessment of seasonality of influenza in swine using field submissions to a diagnostic laboratory in Ontario between 2007 and 2012. Influenza and Other Respiratory Viruses, 2014, 8, 482-492.	1.5	20
13	Evaluation of Control Strategies for Porcine Reproductive and Respiratory Syndrome (PRRS) in Swine Breeding Herds Using a Discrete Event Agent-Based Model. PLoS ONE, 2016, 11, e0166596.	1.1	19
14	Implementation of an algorithm for selection of antimicrobial therapy for diarrhoeic calves: Impact on antimicrobial treatment rates, health and faecal microbiota. Veterinary Journal, 2017, 226, 15-25.	0.6	19
15	An epidemiological investigation of the early phase of the porcine epidemic diarrhea (PED) outbreak in Canadian swine herds in 2014: A case-control study. Preventive Veterinary Medicine, 2018, 150, 101-109.	0.7	19
16	Investigation of exposure to swine influenza viruses in Ontario (Canada) finisher herds in 2004 and 2005. Preventive Veterinary Medicine, 2008, 83, 24-40.	0.7	14
17	Genetic Characterization of H1N1 and H1N2 Influenza A Viruses Circulating in Ontario Pigs in 2012. PLoS ONE, 2015, 10, e0127840.	1.1	14
18	Factors associated with development of Canine Infectious Respiratory Disease Complex (CIRDC) in dogs in 5 Canadian small animal clinics. Canadian Veterinary Journal, 2016, 57, 46-51.	0.0	14

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19	Molecular characterization of H3N2 influenza A viruses isolated from Ontario swine in 2011 and 2012. <i>Virology Journal</i> , 2014, 11, 194.	1.4	13
20	Longitudinal study of influenza A virus circulation in a nursery swine barn. <i>Veterinary Research</i> , 2017, 48, 63.	1.1	13
21	Pig and herd level prevalence of <i>Toxoplasma gondii</i> in Ontario finisher pigs in 2001, 2003, and 2004. <i>Canadian Journal of Veterinary Research</i> , 2008, 72, 303-10.	1.1	13
22	Quantifying contact patterns in response to COVID-19 public health measures in Canada. <i>BMC Public Health</i> , 2021, 21, 2040.	1.2	12
23	Spread of porcine circovirus associated disease (PCVAD) in Ontario (Canada) swine herds: Part I. Exploratory spatial analysis. <i>BMC Veterinary Research</i> , 2010, 6, 59.	0.7	10
24	A scoping review of "big data", "informatics", and "bioinformatics" in the animal health and veterinary medical literature. <i>Animal Health Research Reviews</i> , 2019, 20, 1-18.	1.4	10
25	A Case-Control Study to Investigate the Serotypes of <i>S. suis</i> Isolates by Multiplex PCR in Nursery Pigs in Ontario, Canada. <i>Pathogens</i> , 2020, 9, 44.	1.2	10
26	Serotypes, Virulence-Associated Factors, and Antimicrobial Resistance of <i>Streptococcus suis</i> Isolates Recovered From Sick and Healthy Pigs Determined by Whole-Genome Sequencing. <i>Frontiers in Veterinary Science</i> , 2021, 8, 742345.	0.9	10
27	Descriptive and network analyses of the equine contact network at an equestrian show in Ontario, Canada and implications for disease spread. <i>BMC Veterinary Research</i> , 2017, 13, 191.	0.7	9
28	Positioning Quebec ORF5 sequences of porcine reproductive and respiratory syndrome virus (PRRSV) within Canada and worldwide diversity. <i>Infection, Genetics and Evolution</i> , 2019, 74, 103999.	1.0	8
29	A decision support framework for prediction of avian influenza. <i>Scientific Reports</i> , 2020, 10, 19011.	1.6	8
30	Descriptive analysis and spatial epidemiology of porcine reproductive and respiratory syndrome (PRRS) for swine sites participating in area regional control and elimination programs from 3 regions of Ontario. <i>Canadian Journal of Veterinary Research</i> , 2015, 79, 268-78.	0.2	8
31	Factors contributing to mortality during a outbreak in nursery pigs. <i>Canadian Veterinary Journal</i> , 2018, 59, 623-630.	0.0	8
32	Field studies evaluating the direct, indirect, total, and overall efficacy of autogenous vaccine in nursery pigs. <i>Canadian Veterinary Journal</i> , 2019, 60, 386-390.	0.0	8
33	Spatial clustering of swine influenza in Ontario on the basis of herd-level disease status with different misclassification errors. <i>Preventive Veterinary Medicine</i> , 2007, 81, 236-249.	0.7	7
34	Spatial analysis of <i>Leptospira</i> infection in muskrats in Lower Saxony, Germany, and the association with human leptospirosis. <i>Research in Veterinary Science</i> , 2017, 114, 351-354.	0.9	7
35	Descriptive analysis of horse movement networks during the 2015 equestrian season in Ontario, Canada. <i>PLoS ONE</i> , 2019, 14, e0219771.	1.1	7
36	Comparing the effects of non-homogenous mixing patterns on epidemiological outcomes in equine populations: A mathematical modelling study. <i>Scientific Reports</i> , 2019, 9, 3227.	1.6	7

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37	Network analyses using case-control data to describe and characterize the initial 2014 incursion of porcine epidemic diarrhea (PED) in Canadian swine herds. Preventive Veterinary Medicine, 2019, 162, 18-28.	0.7	6
38	A descriptive analysis of swine movements in Ontario (Canada) as a contributor to disease spread. Preventive Veterinary Medicine, 2018, 159, 211-219.	0.7	5
39	Comparison of the dynamic networks of four equine boarding and training facilities. Preventive Veterinary Medicine, 2019, 162, 84-94.	0.7	5
40	Validation of modified radio-frequency identification tag firmware, using an equine population case study. PLoS ONE, 2019, 14, e0210148.	1.1	5
41	An investigation of transportation practices in an Ontario swine system using descriptive network analysis. PLoS ONE, 2020, 15, e0226813.	1.1	5
42	Examining the Effect of Host Recruitment Rates on the Transmission of Streptococcus suis in Nursery Swine Populations. Pathogens, 2020, 9, 174.	1.2	5
43	The impact of porcine reproductive and respiratory syndrome virus (PRRSV) genotypes, established on the basis of ORF-5 nucleotide sequences, on three production parameters in Ontario sow farms. Preventive Veterinary Medicine, 2021, 189, 105312.	0.7	5
44	Antimicrobial use in lactating sows, piglets, nursery, and grower-finisher pigs on swine farms in Ontario, Canada during 2017 and 2018. Porcine Health Management, 2022, 8, 17.	0.9	5
45	Estimating the potential for disease spread in horses associated with an equestrian show in Ontario, Canada using an agent-based model. Preventive Veterinary Medicine, 2018, 151, 21-28.	0.7	4
46	Factors Associated With Time to Elimination of Porcine Epidemic Diarrhea Virus in Individual Ontario Swine Herds Based on Surveillance Data. Frontiers in Veterinary Science, 2019, 6, 139.	0.9	4
47	Impact of alignment algorithm on the estimation of pairwise genetic similarity of porcine reproductive and respiratory syndrome virus (PRRSV). BMC Veterinary Research, 2019, 15, 135.	0.7	4
48	Convolutional Classification of Pathogenicity in H5 Avian Influenza Strains. , 2019, , .		4
49	Influenza A virus vaccine research conducted in swine from 1990 to May 2018: A scoping review. PLoS ONE, 2020, 15, e0236062.	1.1	4
50	A within-host mathematical model of H9N2 avian influenza infection and type-I interferon response pathways in chickens. Journal of Theoretical Biology, 2020, 499, 110320.	0.8	4
51	Study of the relationship between untypable and typable isolates of Streptococcus suis recovered from clinically ill and healthy nursery pigs. Veterinary Microbiology, 2021, 257, 109064.	0.8	4
52	Technology-enhanced weight-loss program in multiple-cat households: a randomized controlled trial. Journal of Feline Medicine and Surgery, 2022, 24, 726-738.	0.6	4
53	Physiological response of weaned piglets to two transport durations observed in a Canadian commercial setting. Journal of Animal Science, 2021, 99, .	0.2	4
54	A longitudinal study describing horse demographics and movements during a competition season in Ontario, Canada. Canadian Veterinary Journal, 2018, 59, 783-790.	0.0	4

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55	Spread of porcine circovirus associated disease (PCVAD) in Ontario (Canada) swine herds: Part II. Matched case-control study. <i>BMC Veterinary Research</i> , 2010, 6, 58.	0.7	3
56	Veterinarian barriers to knowledge translation (KT) within the context of swine infectious disease research: an international survey of swine veterinarians. <i>BMC Veterinary Research</i> , 2020, 16, 416.	0.7	3
57	Virological Surveillance of Influenza A Subtypes Isolated in 2014 from Clinical Outbreaks in Canadian Swine. <i>Viruses</i> , 2017, 9, 55.	1.5	2
58	Modeling livestock population structure: a geospatial database for Ontario swine farms. <i>BMC Veterinary Research</i> , 2018, 14, 31.	0.7	2
59	A review of knowledge discovery process in control and mitigation of avian influenza. <i>Animal Health Research Reviews</i> , 2019, 20, 61-71.	1.4	2
60	Forecasting herd-level porcine epidemic diarrhea (PED) frequency trends in Ontario (Canada). <i>Preventive Veterinary Medicine</i> , 2019, 164, 15-22.	0.7	2
61	Identifying Active Salmonella Infections in Swine Nurseries Using Serology and Bacterial Culture and Evaluating Associated Risk Factors. <i>Animals</i> , 2020, 10, 1517.	1.0	2
62	A framework for the risk prediction of avian influenza occurrence: An Indonesian case study. <i>PLoS ONE</i> , 2021, 16, e0245116.	1.1	2
63	Day-1 Competencies for Veterinarians Specific to Health Informatics. <i>Frontiers in Veterinary Science</i> , 2021, 8, 651238.	0.9	2
64	Field efficacy of an inactivated bivalent influenza vaccine in a multi-site swine production system during an outbreak of systemic porcine circovirus associated disease. <i>Canadian Journal of Veterinary Research</i> , 2010, 74, 108-17.	0.2	2
65	Investigation of biosecurity risks associated with the feed delivery: A pilot study. <i>Canadian Veterinary Journal</i> , 2015, 56, 502-8.	0.0	2
66	An animal health example of managing and analyzing a large volume of data on a PC: Modeling body weight and age of over 13 million cats for explanatory and predictive purposes. <i>Preventive Veterinary Medicine</i> , 2020, 174, 104824.	0.7	1
67	Effect of flavophospholipol on fecal microbiota in weaned pigs challenged with <i>Salmonella</i> Typhimurium. <i>Porcine Health Management</i> , 2020, 6, 14.	0.9	1
68	Assessment of exposure to influenza A viruses in pigs between weaning and market age. <i>Veterinary Research</i> , 2021, 52, 60.	1.1	1
69	The impact of the initial public health response to COVID-19 on swine health surveillance in Ontario. <i>One Health</i> , 2021, 13, 100338.	1.5	1
70	A descriptive study of on-farm biosecurity and management practices during the incursion of porcine epidemic diarrhea into Canadian swine herds, 2014. <i>Journal of Veterinary Science</i> , 2020, 21, e25.	0.5	1
71	Association between the genetic similarity of the open reading frame 5 sequence of Porcine reproductive and respiratory syndrome virus and the similarity in clinical signs of Porcine reproductive and respiratory syndrome in Ontario swine herds. <i>Canadian Journal of Veterinary Research</i> , 2014, 78, 250-9.	0.2	1
72	Treatment rates for injectable tiamulin and lincomycin as an estimate of morbidity in a swine herd with endemic swine dysentery. <i>Canadian Veterinary Journal</i> , 2017, 58, 472-481.	0.0	1

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73	Classification of porcine reproductive and respiratory syndrome virus in Ontario using Bayesian phylogenetics and assessment of temporal trends. <i>Canadian Journal of Veterinary Research</i> , 2021, 85, 83-92.	0.2	1
74	Choosing which metrics to use when reporting antimicrobial use information to veterinarians in the Canadian swine industry. <i>Canadian Veterinary Journal</i> , 2021, 62, 453-460.	0.0	1
75	Within-host model of respiratory virus shedding and antibody response to H9N2 avian influenza virus vaccination and infection in chickens. <i>Infectious Disease Modelling</i> , 2021, 6, 490-502.	1.2	0
76	Persistence of clinical signs associated with rotavirus following an outbreak of porcine epidemic diarrhea (PED) on a farrow-to-grow swine operation in southwestern Ontario. <i>Canadian Veterinary Journal</i> , 2016, 57, 610-3.	0.0	0
77	Using a computer simulation model to examine the impact of biosecurity measures during a facility-level outbreak of equine influenza. <i>Canadian Journal of Veterinary Research</i> , 2018, 82, 89-96.	0.2	0
78	A method to detect carrying the colistin-resistance genes and using a single real-time polymerase chain reaction and its application to chicken cecal and porcine fecal samples. <i>Canadian Journal of Veterinary Research</i> , 2018, 82, 312-315.	0.2	0
79	Efficacy of autogenous vaccine in nursery pigs - A response. <i>Canadian Veterinary Journal</i> , 2020, 61, 113-114.	0.0	0
80	Network analysis of Standardbred horse movements between racetracks in Canada and the United States in 2019: Implications for disease spread and control. <i>Preventive Veterinary Medicine</i> , 2022, 204, 105643.	0.7	0