# Ryan S Miller

List of Publications by Year
in descending order



| 67 | 2,349 | 218677 | 243625 |
|---|---|---|---|
| papers | citations | 26 h-index | 44 g-index |

| 75 | 75 | 75 | 2820 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Machine learning to classify animal species in camera trap images: Applications in ecology. Methods in Ecology and Evolution, 2019, 10, 585-590. | 5.2 | 262 |
| 2 | Diseases at the livestockâ€“wildlife interface: Status, challenges, and opportunities in the United States. Preventive Veterinary Medicine, 2013, 110, 119-132. | 1.9 | 166 |
| 3 | Biotic and abiotic factors predicting the global distribution and population density of an invasive large mammal. Scientific Reports, 2017, 7, 44152. | 3.3 | 156 |
| 4 | Cross-species transmission potential between wild pigs, livestock, poultry, wildlife, and humans: implications for disease risk management in North America. Scientific Reports, 2017, 7, 7821. | 3.3 | 118 |
| 5 | Modeling and Mapping the Probability of Occurrence of Invasive Wild Pigs across the Contiguous United States. PLoS ONE, 2015, 10, e0133771. | 2.5 | 93 |
| 6 | Mycobacterium bovis (bovine tuberculosis) infection in North American wildlife: current status and opportunities for mitigation of risks of further infection in wildlife populations. Epidemiology and Infection, 2013, 141, 1357-1370. | 2.1 | 88 |
| 7 | â€œOne Healthâ€• or Three? Publication Silos Among the One Health Disciplines. PLoS Biology, 2016, 14, e1002448. | 5.6 | 84 |
| 8 | Historical, current, and potential population size estimates of invasive wild pigs (Sus scrofa) in the United States. Biological Invasions, 2019, 21, 2373-2384. | 2.4 | 82 |
| 9 | Widespread detection of highly pathogenic H5 influenza viruses in wild birds from the Pacific Flyway of the United States. Scientific Reports, 2016, 6, 28980. | 3.3 | 70 |
| 10 | One Health approach to identify research needs in bovine and human babesioses: workshop report. Parasites and Vectors, 2010, 3, 36. | 2.5 | 61 |
| 11 | The Impact of Movements and Animal Density on Continental Scale Cattle Disease Outbreaks in the United States. PLoS ONE, 2014, 9, e91724. | 2.5 | 61 |
| 12 | Anthropogenic factors predict movement of an invasive species. Ecosphere, 2017, 8, e01844. | 2.2 | 59 |
| 13 | Inferring infection hazard in wildlife populations by linking data across individual and population scales. Ecology Letters, 2017, 20, 275-292. | 6.4 | 50 |
| 14 | Identifying Populations Potentially Exposed to Agricultural Pesticides Using Remote Sensing and a Geographic Information System. Environmental Health Perspectives, 2000, 108, 5. | 6.0 | 49 |
| 15 | A Bayesian Approach for Modeling Cattle Movements in the United States: Scaling up a Partially Observed Network. PLoS ONE, 2013, 8, e53432. | 2.5 | 41 |
| 16 | Linkage of the California Pesticide Use Reporting Database with Spatial Land Use Data for Exposure Assessment. Environmental Health Perspectives, 2007, 115, 684-689. | 6.0 | 39 |
| 17 | Risks of introduction and economic consequences associated with African swine fever, classical swine fever and footâ€andâ€mouth disease: A review of the literature. Transboundary and Emerging Diseases, 2021, 68, 1910-1965. | 3.0 | 37 |
| 18 | Inferring invasive species abundance using removal data from management actions. Ecological Applications, 2016, 26, 2339-2346. | 3.8 | 36 |

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|---|---|---|---|
| 19 | A globally-distributed alien invasive species poses risks to United States imperiled species. Scientific Reports, 2018, 8, 5331. | 3.3 | 36 |
| 20 | Environmental and Demographic Determinants of Avian Influenza Viruses in Waterfowl across the Contiguous United States. PLoS ONE, 2012, 7, e32729. | 2.5 | 36 |
| 21 | Simulating the Distribution of Individual Livestock Farms and Their Populations in the United States: An Example Using Domestic Swine (Sus scrofa domesticus) Farms. PLoS ONE, 2015, 10, e0140338. | 2.5 | 34 |
| 22 | Improving the accessibility and transferability of machine learning algorithms for identification of animals in camera trap images: MLWIC2. Ecology and Evolution, 2020, 10, 10374-10383. | 1.9 | 33 |
| 23 | Mixed ancestry from wild and domestic lineages contributes to the rapid expansion of invasive feral swine. Molecular Ecology, 2020, 29, 1103-1119. | 3.9 | 31 |
| 24 | Characteristics of white-tailed deer visits to cattle farms: implications for disease transmission at the wildlifeâ€“livestock interface. European Journal of Wildlife Research, 2014, 60, 161-170. | 1.4 | 29 |
| 25 | A national-scale picture of U.S. cattle movements obtained from Interstate Certificate of Veterinary Inspection data. Preventive Veterinary Medicine, 2013, 112, 318-329. | 1.9 | 28 |
| 26 | Identification of migratory bird flyways in North America using community detection on biological networks. Ecological Applications, 2016, 26, 740-751. | 3.8 | 27 |
| 27 | Risk factors and productivity losses associated with Mycoplasma ovipneumoniae infection in United States domestic sheep operations. Preventive Veterinary Medicine, 2019, 168, 30-38. | 1.9 | 27 |
| 28 | Sources of bovine tuberculosis in the United States. Infection, Genetics and Evolution, 2014, 28, 137-143. | 2.3 | 26 |
| 29 | Propagule size and structure, life history, and environmental conditions affect establishment success of an invasive species. Scientific Reports, 2018, 8, 10313. | 3.3 | 26 |
| 30 | Abiotic and biotic influences on home-range size of wild pigs (Sus scrofa). Journal of Mammalogy, 2018, 99, 97-107. | 1.3 | 25 |
| 31 | Serologic Evidence of Widespread Everglades Virus Activity in Dogs, Florida. Emerging Infectious Diseases, 2006, 12, 1873-1879. | 4.3 | 24 |
| 32 | Mapping U.S. cattle shipment networks: Spatial and temporal patterns of trade communities from 2009 to 2011. Preventive Veterinary Medicine, 2016, 134, 82-91. | 1.9 | 24 |
| 33 | Effects of social structure and management on risk of disease establishment in wild pigs. Journal of Animal Ecology, 2021, 90, 820-833. | 2.8 | 21 |
| 34 | Epidemiologic Characterization of Colorado Backyard Bird Flocks. Avian Diseases, 2012, 56, 263-271. | 1.0 | 19 |
| 35 | Using quantitative disease dynamics as a tool for guiding response to avian influenza in poultry in the United States of America. Preventive Veterinary Medicine, 2014, 113, 376-397. | 1.9 | 19 |
| 36 | Recognition of the threat ofEhrlichia ruminantiuminfection in domestic and wild ruminants in the continental United States. Journal of the American Veterinary Medical Association, 2010, 237, 520-530. | 0.5 | 18 |

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|---|---|---|---|
| 37 | Predation and disease-related economic impacts of wild pigs on livestock producers in 13 states. Crop Protection, 2019, 121, 121-126. | 2.1 | 18 |
| 38 | Accounting for heterogeneous invasion rates reveals management impacts on the spatial expansion of an invasive species. Ecosphere, 2019, 10, e02657. | 2.2 | 18 |
| 39 | Determinants of invasive species policy: Print media and agriculture determine U.S. invasive wild pig policy. Ecosphere, 2018, 9, e02379. | 2.2 | 17 |
| 40 | BOARD INVITED REVIEW: Prospects for improving management of animal disease introductions using disease-dynamic models. Journal of Animal Science, 2019, 97, 2291-2307. | 0.5 | 17 |
| 41 | Transmission of antibiotic resistance at the wildlife-livestock interface. Communications Biology, 2022, 5, . | 4.4 | 17 |
| 42 | A model for leveraging animal movement to understand spatioâ€temporal disease dynamics. Ecology Letters, 2022, 25, 1290-1304. | 6.4 | 16 |
| 43 | Predicting functional responses in agroâ€ecosystems from animal movement data to improve management of invasive pests. Ecological Applications, 2020, 30, e02015. | 3.8 | 14 |
| 44 | Optimal spatial prioritization of control resources for elimination of invasive species under demographic uncertainty. Ecological Applications, 2020, 30, e02126. | 3.8 | 14 |
| 45 | Spatial variation in direct and indirect contact rates at the wildlife-livestock interface for informing disease management. Preventive Veterinary Medicine, 2021, 194, 105423. | 1.9 | 13 |
| 46 | Assessment of paper interstate certificates of veterinary inspection used to support disease tracing in cattle. Journal of the American Veterinary Medical Association, 2013, 243, 555-560. | 0.5 | 11 |
| 47 | Potential Intercontinental Movement of Influenza A(H7N9) Virus into North America by Wild Birds: Application of a Rapid Assessment Framework. Transboundary and Emerging Diseases, 2015, 62, 650-668. | 3.0 | 11 |
| 48 | Model-guided suggestions for targeted surveillance based on cattle shipments in the U.S.. Preventive Veterinary Medicine, 2018, 150, 52-59. | 1.9 | 11 |
| 49 | Continentalâ€scale dynamics of avian influenza in U.S. waterfowl are driven by demography, migration, and temperature. Ecological Applications, 2021, 31, e2245. | 3.8 | 11 |
| 50 | Humanâ€“Bird Interactions in the United States Upland Gamebird Industry and the Potential for Zoonotic Disease Transmission. Vector-Borne and Zoonotic Diseases, 2011, 11, 1115-1123. | 1.5 | 10 |
| 51 | Epidemic growth rates and host movement patterns shape management performance for pathogen spillover at the wildlifeâ€“livestock interface. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180343. | 4.0 | 10 |
| 52 | Effects of regional differences and demography in modelling foot-and-mouth disease in cattle at the national scale. Interface Focus, 2020, 10, 20190054. | 3.0 | 10 |
| 53 | LIMITED ANTIBODY EVIDENCE OF EXPOSURE TOMYCOBACTERIUM BOVISIN FERAL SWINE (SUS) Tj ETQq1 1 0.784314 rgB | 0.8 | 9 |
| 54 | Detection error influences both temporal seroprevalence predictions and risk factors associations in wildlife disease models. Ecology and Evolution, 2019, 9, 10404-10414. | 1.9 | 8 |

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|---|---|---|---|
| 55 | Loci Associated With Antibody Response in Feral Swine (Sus scrofa) Infected With Brucella suis. Frontiers in Veterinary Science, 2020, 7, 554674. | 2.2 | 8 |
| 56 | A framework for surveillance of emerging pathogens at the human-animal interface: Pigs and coronaviruses as a case study. Preventive Veterinary Medicine, 2021, 188, 105281. | 1.9 | 8 |
| 57 | Spatio-temporal patterns and characteristics of swine shipments in the U.S. based on Interstate Certificates of Veterinary Inspection. Scientific Reports, 2019, 9, 3915. | 3.3 | 7 |
| 58 | Predicting the initial spread of novel Asian origin influenza A viruses in the continental USA by wild waterfowl. Transboundary and Emerging Diseases, 2019, 66, 705-714. | 3.0 | 6 |
| 59 | A Rapid Population Assessment Method for Wild Pigs Using Baited Cameras at 3 Study Sites. Wildlife Society Bulletin, 2020, 44, 372-382. | 1.6 | 6 |
| 60 | Adaptive riskâ€based targeted surveillance for foreign animal diseases at the wildlifeâ€livestock interface. Transboundary and Emerging Diseases, 2022, 69, . | 3.0 | 6 |
| 61 | Estimating and exploring the proportions of inter- and intrastate cattle shipments in the United States. Preventive Veterinary Medicine, 2019, 162, 56-66. | 1.9 | 5 |
| 62 | Assessing intrastate shipments from interstate data and expert opinion. Royal Society Open Science, 2021, 8, 192042. | 2.4 | 4 |
| 63 | Seasonal variation in space use and territoriality in a large mammal (Sus scrofa). Scientific Reports, 2022, 12, 4023. | 3.3 | 4 |
| 64 | Realistic assumptions about spatial locations and clustering of premises matter for models of foot-and-mouth disease spread in the United States. PLoS Computational Biology, 2020, 16, e1007641. | 3.2 | 3 |
| 65 | Wild pigs breach farm fence through harvest time in southern San Joaquin Valley. California Agriculture, 2018, 72, 120-126. | 0.8 | 3 |
| 66 | Characteristics and Perspectives of Disease at the Wildlife-Livestock Interface in North America. Wildlife Research Monographs, 2021, , 245-269. | 0.9 | 2 |
| 67 | Risk Analysis for Human-Mediated Movement of Pests and Pathogens. Health Information Systems and the Advancement of Medical Practice in Developing Countries, 2022, , 54-75. | 0.1 | 0 |