

Raina K Plowright

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

5,920
citations

126901

33
h-index

85537

71
g-index

106
all docs

106
docs citations

106
times ranked

5839
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathways to zoonotic spillover. <i>Nature Reviews Microbiology</i> , 2017, 15, 502-510.	28.6	702
2	Ecological dynamics of emerging bat virus spillover. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142124.	2.6	375
3	Bat-borne virus diversity, spillover and emergence. <i>Nature Reviews Microbiology</i> , 2020, 18, 461-471.	28.6	298
4	Urban habituation, ecological connectivity and epidemic dampening: the emergence of Hendra virus from flying foxes (<i>Pteropus</i> spp.). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3703-3712.	2.6	274
5	Bat Flight and Zoonotic Viruses. <i>Emerging Infectious Diseases</i> , 2014, 20, 741-745.	4.3	269
6	Causal inference in disease ecology: investigating ecological drivers of disease emergence. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 420-429.	4.0	261
7	Reproduction and nutritional stress are risk factors for Hendra virus infection in little red flying foxes (<i>Pteropus scapulatus</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 861-869.	2.6	246
8	Multiple mortality events in bats: a global review. <i>Mammal Review</i> , 2016, 46, 175-190.	4.8	240
9	Novel Insights Into Immune Systems of Bats. <i>Frontiers in Immunology</i> , 2020, 11, 26.	4.8	212
10	Pathogen spillover during land conversion. <i>Ecology Letters</i> , 2018, 21, 471-483.	6.4	161
11	Land use-induced spillover: a call to action to safeguard environmental, animal, and human health. <i>Lancet Planetary Health</i> , The, 2021, 5, e237-e245.	11.4	154
12	Transmission or Within-Host Dynamics Driving Pulses of Zoonotic Viruses in Reservoir Host Populations. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004796.	3.0	152
13	Model-guided fieldwork: practical guidelines for multidisciplinary research on wildlife ecological and epidemiological dynamics. <i>Ecology Letters</i> , 2012, 15, 1083-1094.	6.4	131
14	Possibility for reverse zoonotic transmission of SARS-CoV-2 to free-ranging wildlife: A case study of bats. <i>PLoS Pathogens</i> , 2020, 16, e1008758.	4.7	127
15	Ecology, evolution and spillover of coronaviruses from bats. <i>Nature Reviews Microbiology</i> , 2022, 20, 299-314.	28.6	108
16	Ecological interventions to prevent and manage zoonotic pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180342.	4.0	102
17	Changing resource landscapes and spillover of henipaviruses. <i>Annals of the New York Academy of Sciences</i> , 2018, 1429, 78-99.	3.8	97
18	Emerging Viruses: Coming in on a Wrinkled Wing and a Prayer. <i>Clinical Infectious Diseases</i> , 2007, 44, 711-717.	5.8	94

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19	Macroimmunology: The drivers and consequences of spatial patterns in wildlife immune defence. <i>Journal of Animal Ecology</i> , 2020, 89, 972-995.	2.8	89
20	Conservation Medicine and a New Agenda for Emerging Diseases. <i>Annals of the New York Academy of Sciences</i> , 2004, 1026, 1-11.	3.8	82
21	Pneumonia in bighorn sheep: Risk and resilience. <i>Journal of Wildlife Management</i> , 2018, 82, 32-45.	1.8	75
22	Prioritizing surveillance of Nipah virus in India. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007393.	3.0	74
23	Sampling to elucidate the dynamics of infections in reservoir hosts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180336.	4.0	68
24	Null expectations for disease dynamics in shrinking habitat: dilution or amplification?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160173.	4.0	67
25	Spatio-temporal dynamics of pneumonia in bighorn sheep. <i>Journal of Animal Ecology</i> , 2013, 82, 518-528.	2.8	62
26	Food for contagion: synthesis and future directions for studying host-parasite responses to resource shifts in anthropogenic environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170102.	4.0	54
27	Phylofactorization: a graph partitioning algorithm to identify phylogenetic scales of ecological data. <i>Ecological Monographs</i> , 2019, 89, e01353.	5.4	52
28	Synchronous shedding of multiple bat paramyxoviruses coincides with peak periods of Hendra virus spillover. <i>Emerging Microbes and Infections</i> , 2019, 8, 1314-1323.	6.5	49
29	Principles and Patterns of Bat Movements: From Aerodynamics to Ecology. <i>Quarterly Review of Biology</i> , 2017, 92, 267-287.	0.1	46
30	A bioinformatic pipeline for identifying informative SNP panels for parentage assignment from RAD-seq data. <i>Molecular Ecology Resources</i> , 2018, 18, 1263-1281.	4.8	45
31	Evidence for strain-specific immunity to pneumonia in bighorn sheep. <i>Journal of Wildlife Management</i> , 2017, 81, 133-143.	1.8	44
32	Dynamic and integrative approaches to understanding pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190014.	4.0	43
33	The Ecology of Nipah Virus in Bangladesh: A Nexus of Land-Use Change and Opportunistic Feeding Behavior in Bats. <i>Viruses</i> , 2021, 13, 169.	3.3	41
34	Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover. <i>Current Biology</i> , 2021, 31, R1342-R1361.	3.9	40
35	Age-specific infectious period shapes dynamics of pneumonia in bighorn sheep. <i>Ecology Letters</i> , 2017, 20, 1325-1336.	6.4	39
36	Optimal foraging in seasonal environments: implications for residency of Australian flying foxes in food-subsidized urban landscapes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170097.	4.0	37

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37	Climate Change Could Increase the Geographic Extent of Hendra Virus Spillover Risk. <i>EcoHealth</i> , 2018, 15, 509-525.	2.0	37
38	Costs and benefits of group living with disease: a case study of pneumonia in bighorn lambs (<i>Ovis montanus</i>). <i>Journal of Animal Ecology</i> , 2019, 88, 107-115.	2.6	35
39	The problem of scale in the prediction and management of pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190224.	4.0	34
40	Ecological countermeasures for preventing zoonotic disease outbreaks: when ecological restoration is a human health imperative. <i>Restoration Ecology</i> , 2021, 29, e13357.	2.9	34
41	Environmental drivers of spatiotemporal foraging intensity in fruit bats and implications for Hendra virus ecology. <i>Scientific Reports</i> , 2018, 8, 9555.	3.3	33
42	Temporal and spatial limitations in global surveillance for bat filoviruses and henipaviruses. <i>Biology Letters</i> , 2019, 15, 20190423.	2.3	33
43	Hendra virus survival does not explain spillover patterns and implicates relatively direct transmission routes from flying foxes to horses. <i>Journal of General Virology</i> , 2015, 96, 1229-1237.	2.9	33
44	Anthropogenic resource subsidies and host-parasite dynamics in wildlife. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170086.	4.0	32
45	Models of Eucalypt phenology predict bat population flux. <i>Ecology and Evolution</i> , 2016, 6, 7230-7245.	1.9	30
46	Use of Exposure History to Identify Patterns of Immunity to Pneumonia in Bighorn Sheep (<i>Ovis montanus</i>). <i>Journal of Animal Ecology</i> , 2019, 88, 50-58.	2.5	30
47	Want to prevent pandemics? Stop spillovers. <i>Nature</i> , 2022, 605, 419-422.	27.8	30
48	What is stirring in the reservoir? Modelling mechanisms of henipavirus circulation in fruit bat hosts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190021.	4.0	29
49	Disease introduction is associated with a phase transition in bighorn sheep demographics. <i>Ecology</i> , 2016, 97, 2593-2602.	3.2	27
50	Ecological and evolutionary drivers of haemoplasma infection and bacterial genotype sharing in a Neotropical bat community. <i>Molecular Ecology</i> , 2020, 29, 1534-1549.	3.9	27
51	Contact and contagion: Probability of transmission given contact varies with demographic state in bighorn sheep. <i>Journal of Animal Ecology</i> , 2017, 86, 908-920.	2.8	24
52	Leukocyte Profiles Reflect Geographic Range Limits in a Widespread Neotropical Bat. <i>Integrative and Comparative Biology</i> , 2019, 59, 1176-1189.	2.0	24
53	Satellite Telemetry and Long-Range Bat Movements. <i>PLoS ONE</i> , 2011, 6, e14696.	2.5	24
54	Novel Hendra Virus Variant Detected by Sentinel Surveillance of Horses in Australia. <i>Emerging Infectious Diseases</i> , 2022, 28, 693-704.	4.3	24

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55	Taxonomic patterns in the zoonotic potential of mammalian viruses. <i>PeerJ</i> , 2018, 6, e5979.	2.0	22
56	Handling Stress and Sample Storage Are Associated with Weaker Complement-Mediated Bactericidal Ability in Birds but Not Bats. <i>Physiological and Biochemical Zoology</i> , 2019, 92, 37-48.	1.5	20
57	Synergistic Effects of Grassland Fragmentation and Temperature on Bovine Rabies Emergence. <i>EcoHealth</i> , 2020, 17, 203-216.	2.0	20
58	Identifying Suspect Bat Reservoirs of Emerging Infections. <i>Vaccines</i> , 2020, 8, 228.	4.4	19
59	Percolation models of pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180331.	4.0	18
60	Climatic suitability influences species specific abundance patterns of Australian flying foxes and risk of Hendra virus spillover. <i>One Health</i> , 2016, 2, 115-121.	3.4	16
61	Environmental Persistence of Influenza H5N1 Is Driven by Temperature and Salinity: Insights From a Bayesian Meta-Analysis. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	16
62	Linking surface and subterranean climate: implications for the study of hibernating bats and other cave dwellers. <i>Ecosphere</i> , 2020, 11, e03274.	2.2	16
63	Hendra Virus Spillover is a Bimodal System Driven by Climatic Factors. <i>EcoHealth</i> , 2018, 15, 526-542.	2.0	15
64	Disentangling interactions among mercury, immunity and infection in a Neotropical bat community. <i>Journal of Applied Ecology</i> , 2021, 58, 879-889.	4.0	15
65	Body mass and hibernation microclimate may predict bat susceptibility to white-nose syndrome. <i>Ecology and Evolution</i> , 2021, 11, 506-515.	1.9	15
66	Incorporating evaporative water loss into bioenergetic models of hibernation to test for relative influence of host and pathogen traits on white-nose syndrome. <i>PLoS ONE</i> , 2019, 14, e0222311.	2.5	13
67	Optimizing noninvasive sampling of a zoonotic bat virus. <i>Ecology and Evolution</i> , 2021, 11, 12307-12321.	1.9	13
68	Fostering landscape immunity to protect human health: A science-based rationale for shifting conservation policy paradigms. <i>Conservation Letters</i> , 2022, 15, .	5.7	12
69	Novel Hendra Virus Variant Circulating in Black Flying Foxes and Grey-Headed Flying Foxes, Australia. <i>Emerging Infectious Diseases</i> , 2022, 28, 1043-1047.	4.3	10
70	Microclimates Might Limit Indirect Spillover of the Bat Borne Zoonotic Hendra Virus. <i>Microbial Ecology</i> , 2017, 74, 106-115.	2.8	9
71	Spatial dynamics of pathogen transmission in communally roosting species: Impacts of changing habitats on bat-virus dynamics. <i>Journal of Animal Ecology</i> , 2021, 90, 2609-2622.	2.8	9
72	Coronaviruses and Australian bats: a review in the midst of a pandemic. <i>Australian Journal of Zoology</i> , 2019, 67, 346.	1.0	9

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73	Do gastrointestinal microbiomes play a role in bats'™ unique viral hosting capacity?. Trends in Microbiology, 2022, 30, 632-642.	7.7	9
74	Land use, season, and parasitism predict metal concentrations in Australian flying fox fur. Science of the Total Environment, 2022, 841, 156699.	8.0	9
75	From Protein to Pandemic: The Transdisciplinary Approach Needed to Prevent Spillover and the Next Pandemic. Viruses, 2021, 13, 1298.	3.3	8
76	Interspecific variation in evaporative water loss and temperature response, but not metabolic rate, among hibernating bats. Scientific Reports, 2021, 11, 20759.	3.3	8
77	The equine Hendra virus vaccine remains a highly effective preventative measure against infection in horses and humans: "The imperative to develop a human vaccine for the Hendra virus in Australia"™. Infection Ecology and Epidemiology, 2016, 6, 31658.	0.8	6
78	Bats are not squirrels: Revisiting the cost of cooling in hibernating mammals. Journal of Thermal Biology, 2019, 81, 185-193.	2.5	6
79	Conventional wisdom on roosting behavior of Australian flying"foxes"™ A critical review, and evaluation using new data. Ecology and Evolution, 2021, 11, 13532-13558.	1.9	6
80	Volant viruses: a concern to bats, humans and other animals. Microbiology Australia, 2005, 26, 59.	0.4	5
81	Modeling management strategies for chronic disease in wildlife: predictions for the control of respiratory disease in bighorn sheep. Journal of Applied Ecology, 0, , .	4.0	5
82	Genomic association with pathogen carriage in bighorn sheep (Ovis canadensis). Ecology and Evolution, 2021, 11, 2488-2502.	1.9	4
83	A hybrid correlative"mechanistic approach for modeling winter distributions of North American bat species. Journal of Biogeography, 2021, 48, 2429-2444.	3.0	4
84	Estimating viral prevalence with data fusion for adaptive two"phase pooled sampling. Ecology and Evolution, 2021, 11, 14012-14023.	1.9	2
85	Counterintuitive scaling between population abundance and local density: Implications for modelling transmission of infectious diseases in bat populations. Journal of Animal Ecology, 2021, , .	2.8	2
86	Mycoplasma ovipneumoniae in bighorn sheep: from exploration to action. , 2019, , 368-396.		1
87	Morphological and quantitative analysis of leukocytes in free-living Australian black flying foxes (Pteropus alecto). PLoS ONE, 2022, 17, e0268549.	2.5	1