

# James O Lloyd-Smith

## List of Publications by Year in descending order

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115  
papers

19,583  
citations

46984

47  
h-index

23514

111  
g-index

145  
all docs

145  
docs citations

145  
times ranked

28799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1. <i>New England Journal of Medicine</i> , 2020, 382, 1564-1567.	13.9	7,369
2	Superspreading and the effect of individual variation on disease emergence. <i>Nature</i> , 2005, 438, 355-359.	13.7	2,096
3	Pathways to zoonotic spillover. <i>Nature Reviews Microbiology</i> , 2017, 15, 502-510.	13.6	702
4	Ecology of zoonoses: natural and unnatural histories. <i>Lancet</i> , The, 2012, 380, 1936-1945.	6.3	590
5	Major increase in human monkeypox incidence 30 years after smallpox vaccination campaigns cease in the Democratic Republic of Congo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16262-16267.	3.3	580
6	Epidemic Dynamics at the Human-Animal Interface. <i>Science</i> , 2009, 326, 1362-1367.	6.0	554
7	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , 2015, 347, aaa4339.	6.0	492
8	Should we expect population thresholds for wildlife disease?. <i>Trends in Ecology and Evolution</i> , 2005, 20, 511-519.	4.2	403
9	Potent protection against H5N1 and H7N9 influenza via childhood hemagglutinin imprinting. <i>Science</i> , 2016, 354, 722-726.	6.0	375
10	Estimated effectiveness of symptom and risk screening to prevent the spread of COVID-19. <i>ELife</i> , 2020, 9, .	2.8	307
11	The Potential Impact of Male Circumcision on HIV in Sub-Saharan Africa. <i>PLoS Medicine</i> , 2006, 3, e262.	3.9	290
12	Measurably evolving pathogens in the genomic era. <i>Trends in Ecology and Evolution</i> , 2015, 30, 306-313.	4.2	241
13	Dynamically Modeling SARS and Other Newly Emerging Respiratory Illnesses. <i>Epidemiology</i> , 2005, 16, 791-801.	1.2	226
14	Assembling evidence for identifying reservoirs of infection. <i>Trends in Ecology and Evolution</i> , 2014, 29, 270-279.	4.2	209
15	Effectiveness of N95 Respirator Decontamination and Reuse against SARS-CoV-2 Virus. <i>Emerging Infectious Diseases</i> , 2020, 26, 2253-2255.	2.0	200
16	Adaptation in protein fitness landscapes is facilitated by indirect paths. <i>ELife</i> , 2016, 5, .	2.8	184
17	Maximum Likelihood Estimation of the Negative Binomial Dispersion Parameter for Highly Overdispersed Data, with Applications to Infectious Diseases. <i>PLoS ONE</i> , 2007, 2, e180.	1.1	174
18	Modelling COVID-19. <i>Nature Reviews Physics</i> , 2020, 2, 279-281.	11.9	174

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19	Duelling timescales of host movement and disease recovery determine invasion of disease in structured populations. <i>Ecology Letters</i> , 2005, 8, 587-595.	3.0	172
20	Mechanistic theory predicts the effects of temperature and humidity on inactivation of SARS-CoV-2 and other enveloped viruses. <i>ELife</i> , 2021, 10, .	2.8	158
21	Inference of $R_0$ and Transmission Heterogeneity from the Size Distribution of Stuttering Chains. <i>PLoS Computational Biology</i> , 2013, 9, e1002993.	1.5	151
22	Effect of Environmental Conditions on SARS-CoV-2 Stability in Human Nasal Mucus and Sputum. <i>Emerging Infectious Diseases</i> , 2020, 26, 2276-2278.	2.0	143
23	Identifying genetic markers of adaptation for surveillance of viral host jumps. <i>Nature Reviews Microbiology</i> , 2010, 8, 802-813.	13.6	138
24	Curtailing transmission of severe acute respiratory syndrome within a community and its hospital. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1979-1989.	1.2	125
25	Transmission consequences of coinfection: cytokines writ large?. <i>Trends in Parasitology</i> , 2007, 23, 284-291.	1.5	113
26	Ecology, evolution and spillover of coronaviruses from bats. <i>Nature Reviews Microbiology</i> , 2022, 20, 299-314.	13.6	108
27	Disentangling association patterns in fission-fusion societies using African buffalo as an example. <i>Animal Behaviour</i> , 2005, 69, 499-506.	0.8	98
28	Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics. <i>PLoS Pathogens</i> , 2019, 15, e1008109.	2.1	95
29	Invasion Dynamics in Spatially Heterogeneous Environments. <i>American Naturalist</i> , 2009, 174, 490-505.	1.0	89
30	Changes in fibroglandular volume and water content of breast tissue during the menstrual cycle observed by MR imaging at 1.5 t. <i>Journal of Magnetic Resonance Imaging</i> , 1995, 5, 695-701.	1.9	88
31	Utility of $R_0$ as a predictor of disease invasion in structured populations. <i>Journal of the Royal Society Interface</i> , 2007, 4, 315-324.	1.5	84
32	Cross-species pathogen spillover across ecosystem boundaries: mechanisms and theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180344.	1.8	83
33	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016, 5, .	2.8	82
34	The effect of treatment on pathogen virulence. <i>Journal of Theoretical Biology</i> , 2005, 233, 91-102.	0.8	81
35	Seven challenges in modeling pathogen dynamics within-host and across scales. <i>Epidemics</i> , 2015, 10, 45-48.	1.5	79
36	Prospects for Advancing Tuberculosis Control Efforts through Novel Therapies. <i>PLoS Medicine</i> , 2006, 3, e273.	3.9	76

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37	Quantifying antibody kinetics and RNA detection during early-phase SARS-CoV-2 infection by time since symptom onset. <i>ELife</i> , 2020, 9, .	2.8	74
38	Vacated niches, competitive release and the community ecology of pathogen eradication. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120150.	1.8	73
39	Eight challenges in modelling disease ecology in multi-host, multi-agent systems. <i>Epidemics</i> , 2015, 10, 26-30.	1.5	69
40	A Quantitative High-Resolution Genetic Profile Rapidly Identifies Sequence Determinants of Hepatitis C Viral Fitness and Drug Sensitivity. <i>PLoS Pathogens</i> , 2014, 10, e1004064.	2.1	66
41	Comparing methods for estimating R0 from the size distribution of subcritical transmission chains. <i>Epidemics</i> , 2013, 5, 131-145.	1.5	63
42	Nine challenges in modelling the emergence of novel pathogens. <i>Epidemics</i> , 2015, 10, 35-39.	1.5	60
43	Using Remote Sensing to Map the Risk of Human Monkeypox Virus in the Congo Basin. <i>EcoHealth</i> , 2011, 8, 14-25.	0.9	55
44	Estimating the Resources Needed and Savings Anticipated from Roll-Out of Adult Male Circumcision in Sub-Saharan Africa. <i>PLoS ONE</i> , 2008, 3, e2679.	1.1	55
45	Frequency-dependent incidence in models of sexually transmitted diseases: portrayal of pair-based transmission and effects of illness on contact behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 625-634.	1.2	53
46	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014, 3, e03883.	2.8	53
47	Multiple scales of selection influence the evolutionary emergence of novel pathogens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120333.	1.8	52
48	Cyclical changes in seroprevalence of leptospirosis in California sea lions: endemic and epidemic disease in one host species?. <i>BMC Infectious Diseases</i> , 2007, 7, 125.	1.3	50
49	Potential impact of vaccination on the hepatitis C virus epidemic in injection drug users. <i>Epidemics</i> , 2009, 1, 47-57.	1.5	50
50	Inferring infection hazard in wildlife populations by linking data across individual and population scales. <i>Ecology Letters</i> , 2017, 20, 275-292.	3.0	50
51	Environmental Predictors and Incubation Period of AIDS-Associated <i>Penicillium marneffe</i> Infection in Ho Chi Minh City, Vietnam. <i>Clinical Infectious Diseases</i> , 2013, 56, 1273-1279.	2.9	49
52	Effectiveness of traveller screening for emerging pathogens is shaped by epidemiology and natural history of infection. <i>ELife</i> , 2015, 4, .	2.8	49
53	Likelihood ridges and multimodality in population growth rate models. <i>Ecology</i> , 2009, 90, 2313-2320.	1.5	47
54	Phylogenetic Analysis of the Emergence and Epidemiological Impact of Transmissible Defective Dengue Viruses. <i>PLoS Pathogens</i> , 2013, 9, e1003193.	2.1	47

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55	Dynamic and integrative approaches to understanding pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190014.	1.8	43
56	Autonomous Targeting of Infectious Superspreaders Using Engineered Transmissible Therapies. <i>PLoS Computational Biology</i> , 2011, 7, e1002015.	1.5	42
57	Varicella Coinfection in Patients with Active Monkeypox in the Democratic Republic of the Congo. <i>EcoHealth</i> , 2017, 14, 564-574.	0.9	42
58	Onward transmission of viruses: how do viruses emerge to cause epidemics after spillover?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190017.	1.8	41
59	Five challenges in evolution and infectious diseases. <i>Epidemics</i> , 2015, 10, 40-44.	1.5	38
60	HIV-1/parasite co-infection and the emergence of new parasite strains. <i>Parasitology</i> , 2008, 135, 795-806.	0.7	37
61	Does the early frog catch the worm? Disentangling potential drivers of a parasite age-intensity relationship in tadpoles. <i>Oecologia</i> , 2011, 165, 1031-1042.	0.9	35
62	Mapping influenza transmission in the ferret model to transmission in humans. <i>ELife</i> , 2015, 4, .	2.8	35
63	Pathogen-Host Associations and Predicted Range Shifts of Human Monkeypox in Response to Climate Change in Central Africa. <i>PLoS ONE</i> , 2013, 8, e66071.	1.1	34
64	Identifying Postelimination Trends for the Introduction and Transmissibility of Measles in the United States. <i>American Journal of Epidemiology</i> , 2014, 179, 1375-1382.	1.6	34
65	Asymptomatic and chronic carriage of <i>Leptospira interrogans</i> serovar Pomona in California sea lions ( <i>Zalophus californianus</i> ). <i>Veterinary Microbiology</i> , 2013, 164, 177-183.	0.8	31
66	DYNAMICS AND MANAGEMENT OF INFECTIOUS DISEASE IN COLONIZING POPULATIONS. <i>Ecology</i> , 2006, 87, 1215-1224.	1.5	27
67	Mechanisms of resilience: empirically quantified positive feedbacks produce alternate stable states dynamics in a model of a tropical reef. <i>Journal of Ecology</i> , 2016, 104, 1662-1672.	1.9	27
68	Predominance of positive epistasis among drug resistance-associated mutations in HIV-1 protease. <i>PLoS Genetics</i> , 2020, 16, e1009009.	1.5	25
69	Synthesizing within-host and population-level selective pressures on viral populations: the impact of adaptive immunity on viral immune escape. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1311-1318.	1.5	23
70	Heat-Treated Virus Inactivation Rate Depends Strongly on Treatment Procedure: Illustration with SARS-CoV-2. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0031421.	1.4	23
71	Basic methods for modeling the invasion and spread of contagious diseases. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 2006, , 87-109.	0.0	23
72	Rational Design and Adaptive Management of Combination Therapies for Hepatitis C Virus Infection. <i>PLoS Computational Biology</i> , 2015, 11, e1004040.	1.5	19

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73	INFLUENCE OF VIRAL REPLICATION MECHANISMS ON WITHIN-HOST EVOLUTIONARY DYNAMICS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 3462-3471.	1.1	17
74	Comment on "On the Regulation of Populations of Mammals, Birds, Fish, and Insects" I. <i>Science</i> , 2006, 311, 1100.1-1100.	6.0	16
75	Minimizing the threat of pandemic emergence from avian influenza in poultry systems. <i>BMC Infectious Diseases</i> , 2013, 13, 592.	1.3	16
76	Challenges in Modelling Infectious Disease Dynamics: Preface. <i>Epidemics</i> , 2015, 10, iii-iv.	1.5	16
77	Fogarty International Center collaborative networks in infectious disease modeling: Lessons learnt in research and capacity building. <i>Epidemics</i> , 2019, 26, 116-127.	1.5	16
78	Inferring patterns of influenza transmission in swine from multiple streams of surveillance data. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130872.	1.2	14
79	Mechanistic dose-response modelling of animal challenge data shows that intact skin is a crucial barrier to leptospiral infection. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190367.	1.8	14
80	Development of a real-time PCR for the detection of pathogenic <i>Leptospira</i> spp. in California sea lions. <i>Diseases of Aquatic Organisms</i> , 2014, 110, 165-172.	0.5	13
81	Detecting signals of chronic shedding to explain pathogen persistence: <i>Leptospira interrogans</i> in California sea lions. <i>Journal of Animal Ecology</i> , 2017, 86, 460-472.	1.3	13
82	Cross-scale dynamics and the evolutionary emergence of infectious diseases. <i>Virus Evolution</i> , 2021, 7, .	2.2	13
83	The Effect of Immunodeficiency on the Evolution of Virulence: An Experimental Test with the Rodent Malaria <i>Plasmodium chabaudi</i> . <i>American Naturalist</i> , 2014, 184, S47-S57.	1.0	12
84	Linking longitudinal and cross-sectional biomarker data to understand host-pathogen dynamics: <i>Leptospira</i> in California sea lions ( <i>Zalophus californianus</i> ) as a case study. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008407.	1.3	12
85	SARS-CoV-2: Cross-scale Insights from Ecology and Evolution. <i>Trends in Microbiology</i> , 2021, 29, 593-605.	3.5	12
86	Evolutionary Analysis of Human Immunodeficiency Virus Type 1 Therapies Based on Conditionally Replicating Vectors. <i>PLoS Computational Biology</i> , 2012, 8, e1002744.	1.5	11
87	Evolutionary Invasion and Escape in the Presence of Deleterious Mutations. <i>PLoS ONE</i> , 2013, 8, e68179.	1.1	11
88	Modelling clinical data shows active tissue concentration of daclatasvir is 10-fold lower than its plasma concentration. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 724-727.	1.3	11
89	Epidemiological models to control the spread of information in marine mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20162037.	1.2	11
90	Predictions of virus spillover across species. <i>Nature</i> , 2017, 546, 603-604.	13.7	11

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91	Improving risk assessment of the emergence of novel influenza A viruses by incorporating environmental surveillance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180346.	1.8	11
92	Incongruent HIV and tuberculosis co-dynamics in Kenya: Interacting epidemics monitor each other. <i>Epidemics</i> , 2009, 1, 14-20.	1.5	10
93	Parameter estimation in a generalized discrete-time model of density dependence. <i>Theoretical Ecology</i> , 2008, 1, 221-229.	0.4	8
94	HYPERMUCOVISCOUS <i>KLEBSIELLA PNEUMONIAE</i> ISOLATES FROM STRANDED AND WILD-CAUGHT MARINE MAMMALS OF THE US PACIFIC COAST: PREVALENCE, PHENOTYPE, AND GENOTYPE. <i>Journal of Wildlife Diseases</i> , 2018, 54, 659-670.	0.3	8
95	Estimating prevalence and test accuracy in disease ecology: How Bayesian latent class analysis can boost or bias imperfect test results. <i>Ecology and Evolution</i> , 2020, 10, 7221-7232.	0.8	8
96	Drivers and Distribution of Henipavirus-Induced Syncytia: What Do We Know?. <i>Viruses</i> , 2021, 13, 1755.	1.5	8
97	Antibiotic Efficacy in Eliminating Leptospirosis in California Sea Lions ( <i>Zalophus californianus</i> ) Stranding with Leptospirosis. <i>Aquatic Mammals</i> , 2015, 41, 203-212.	0.4	8
98	Modeling density dependence in heterogeneous landscapes: Dispersal as a case study. <i>Journal of Theoretical Biology</i> , 2010, 265, 160-166.	0.8	7
99	INTERGENERATIONAL PHENOTYPIC MIXING IN VIRAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1815-1822.	1.1	7
100	Exposure to viral and bacterial pathogens among Soay sheep ( <i>Ovis aries</i> ) of the St Kilda archipelago. <i>Epidemiology and Infection</i> , 2016, 144, 1879-1888.	1.0	7
101	Controlling emerging zoonoses at the animal-human interface. <i>One Health Outlook</i> , 2020, 2, 17.	1.4	7
102	Effect of Environmental Conditions on SARS-CoV-2 Stability in Human Nasal Mucus and Sputum. <i>Emerging Infectious Diseases</i> , 2020, 26, .	2.0	7
103	Impact of HIV on novel therapies for tuberculosis control. <i>Aids</i> , 2008, 22, 963-972.	1.0	6
104	Monitoring Linked Epidemics: The Case of Tuberculosis and HIV. <i>PLoS ONE</i> , 2010, 5, e8796.	1.1	6
105	Ten simple rules for giving an effective academic job talk. <i>PLoS Computational Biology</i> , 2019, 15, e1007163.	1.5	5
106	CLASSIFICATION AND REGRESSION TREE ANALYSIS FOR PREDICTING PROGNOSIS IN WILDLIFE REHABILITATION: A CASE STUDY OF LEPTOSPIROSIS IN CALIFORNIA SEA LIONS ( <i>ZALOPHUS CALIFORNIANUS</i> ). <i>Journal of Zoo and Wildlife Medicine</i> , 2021, 52, 38-48.	0.3	4
107	Population structure, intergroup interaction, and human contact govern infectious disease impacts in mountain gorilla populations. <i>American Journal of Primatology</i> , 2022, 84, e23350.	0.8	4
108	Coadaptive Stability of Interfering Particles with HIV-1 When There Is an Evolutionary Conflict. <i>Journal of Virology</i> , 2013, 87, 9959-9959.	1.5	2

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109	Quantifying the Evolutionary Constraints and Potential of Hepatitis C Virus NS5A Protein. MSystems, 2021, 6, .	1.7	2
110	Community health and human-animal contacts on the edges of Bwindi Impenetrable National Park, Uganda. PLoS ONE, 2021, 16, e0254467.	1.1	2
111	Maternal antibodies' role in immunityâ€”Response. Science, 2017, 355, 705-705.	6.0	1
112	A High Serum Vaninâ€”1 Phenotype is Not Unique to Diving Marine Mammals. FASEB Journal, 2017, 31, 768.7.	0.2	0
113	Title is missing!. , 2019, 15, e1008109.		0
114	Title is missing!. , 2019, 15, e1008109.		0
115	Title is missing!. , 2019, 15, e1008109.		0