

# James O Lloyd-Smith

## List of Publications by Citations

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128  
papers

13,516  
citations

44  
h-index

116  
g-index

145  
ext. papers

17,020  
ext. citations

8.8  
avg, IF

6.97  
L-index

#	Paper	IF	Citations
128	Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1. <i>New England Journal of Medicine</i> , <b>2020</b> , 382, 1564-1567	59.2	5145
127	Superspreading and the effect of individual variation on disease emergence. <i>Nature</i> , <b>2005</b> , 438, 355-9	50.4	1581
126	Epidemic dynamics at the human-animal interface. <i>Science</i> , <b>2009</b> , 326, 1362-7	33.3	419
125	Ecology of zoonoses: natural and unnatural histories. <i>Lancet, The</i> , <b>2012</b> , 380, 1936-45	40	412
124	Pathways to zoonotic spillover. <i>Nature Reviews Microbiology</i> , <b>2017</b> , 15, 502-510	22.2	369
123	Should we expect population thresholds for wildlife disease?. <i>Trends in Ecology and Evolution</i> , <b>2005</b> , 20, 511-9	10.9	336
122	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , <b>2015</b> , 347, aaa4339	33.3	324
121	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> , <b>2010</b> , 107, 16262-7	11.5	257
120	Potent protection against H5N1 and H7N9 influenza via childhood hemagglutinin imprinting. <i>Science</i> , <b>2016</b> , 354, 722-726	33.3	253
119	The potential impact of male circumcision on HIV in Sub-Saharan Africa. <i>PLoS Medicine</i> , <b>2006</b> , 3, e262	11.6	236
118	Estimated effectiveness of symptom and risk screening to prevent the spread of COVID-19. <i>ELife</i> , <b>2020</b> , 9,	8.9	207
117	Aerosol and surface stability of HCoV-19 (SARS-CoV-2) compared to SARS-CoV-1 <b>2020</b> ,		198
116	Dynamically modeling SARS and other newly emerging respiratory illnesses: past, present, and future. <i>Epidemiology</i> , <b>2005</b> , 16, 791-801	3.1	169
115	Measurably evolving pathogens in the genomic era. <i>Trends in Ecology and Evolution</i> , <b>2015</b> , 30, 306-13	10.9	168
114	Duelling timescales of host movement and disease recovery determine invasion of disease in structured populations. <i>Ecology Letters</i> , <b>2005</b> , 8, 587-595	10	159
113	Assembling evidence for identifying reservoirs of infection. <i>Trends in Ecology and Evolution</i> , <b>2014</b> , 29, 270-9	10.9	149
112	Effectiveness of N95 Respirator Decontamination and Reuse against SARS-CoV-2 Virus. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26,	10.2	123

111	Maximum likelihood estimation of the negative binomial dispersion parameter for highly overdispersed data, with applications to infectious diseases. <i>PLoS ONE</i> , <b>2007</b> , 2, e180	3.7	116
110	Identifying genetic markers of adaptation for surveillance of viral host jumps. <i>Nature Reviews Microbiology</i> , <b>2010</b> , 8, 802-13	22.2	109
109	Inference of R(0) and transmission heterogeneity from the size distribution of stuttering chains. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1002993	5	103
108	Transmission consequences of coinfection: cytokines writ large?. <i>Trends in Parasitology</i> , <b>2007</b> , 23, 284-916.4	9.4	98
107	Curtailing transmission of severe acute respiratory syndrome within a community and its hospital. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2003</b> , 270, 1979-89	4.4	98
106	Modelling COVID-19. <i>Nature Reviews Physics</i> , <b>2020</b> , 1-3	23.6	91
105	Disentangling association patterns in fission-fusion societies using African buffalo as an example. <i>Animal Behaviour</i> , <b>2005</b> , 69, 499-506	2.8	91
104	Effect of Environmental Conditions on SARS-CoV-2 Stability in Human Nasal Mucus and Sputum. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26,	10.2	90
103	Adaptation in protein fitness landscapes is facilitated by indirect paths. <i>ELife</i> , <b>2016</b> , 5,	8.9	88
102	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> , <b>1995</b> , 5, 695-701	5.6	80
101	Invasion dynamics in spatially heterogeneous environments. <i>American Naturalist</i> , <b>2009</b> , 174, 490-505	3.7	75
100	Utility of R0 as a predictor of disease invasion in structured populations. <i>Journal of the Royal Society Interface</i> , <b>2007</b> , 4, 315-24	4.1	70
99	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , <b>2016</b> , 5,	8.9	61
98	Prospects for advancing tuberculosis control efforts through novel therapies. <i>PLoS Medicine</i> , <b>2006</b> , 3, e273	11.6	60
97	Seven challenges in modeling pathogen dynamics within-host and across scales. <i>Epidemics</i> , <b>2015</b> , 10, 45-8	5.1	57
96	Mechanistic theory predicts the effects of temperature and humidity on inactivation of SARS-CoV-2 and other enveloped viruses. <i>ELife</i> , <b>2021</b> , 10,	8.9	55
95	The effect of treatment on pathogen virulence. <i>Journal of Theoretical Biology</i> , <b>2005</b> , 233, 91-102	2.3	54
94	Quantifying antibody kinetics and RNA detection during early-phase SARS-CoV-2 infection by time since symptom onset. <i>ELife</i> , <b>2020</b> , 9,	8.9	52

93	Assessment of N95 respirator decontamination and re-use for SARS-CoV-2 <b>2020</b> ,		52
92	A quantitative high-resolution genetic profile rapidly identifies sequence determinants of hepatitis C viral fitness and drug sensitivity. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004064	7.6	51
91	Eight challenges in modelling disease ecology in multi-host, multi-agent systems. <i>Epidemics</i> , <b>2015</b> , 10, 26-30	5.1	48
90	Estimating the resources needed and savings anticipated from roll-out of adult male circumcision in Sub-Saharan Africa. <i>PLoS ONE</i> , <b>2008</b> , 3, e2679	3.7	48
89	Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1008109	7.6	47
88	Vacated niches, competitive release and the community ecology of pathogen eradication. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120150	5.8	46
87	Improving pandemic influenza risk assessment. <i>ELife</i> , <b>2014</b> , 3, e03883	8.9	45
86	Potential impact of vaccination on the hepatitis C virus epidemic in injection drug users. <i>Epidemics</i> , <b>2009</b> , 1, 47-57	5.1	45
85	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> , <b>2004</b> , 271, 625-34	4.4	45
84	Nine challenges in modelling the emergence of novel pathogens. <i>Epidemics</i> , <b>2015</b> , 10, 35-9	5.1	44
83	Comparing methods for estimating R0 from the size distribution of subcritical transmission chains. <i>Epidemics</i> , <b>2013</b> , 5, 131-45	5.1	42
82	Multiple scales of selection influence the evolutionary emergence of novel pathogens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120333	5.8	42
81	Likelihood ridges and multimodality in population growth rate models. <i>Ecology</i> , <b>2009</b> , 90, 2313-20	4.6	41
80	Cross-species pathogen spillover across ecosystem boundaries: mechanisms and theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20180344	5.8	40
79	Cyclical changes in seroprevalence of leptospirosis in California sea lions: endemic and epidemic disease in one host species?. <i>BMC Infectious Diseases</i> , <b>2007</b> , 7, 125	4	38
78	Inferring infection hazard in wildlife populations by linking data across individual and population scales. <i>Ecology Letters</i> , <b>2017</b> , 20, 275-292	10	37
77	Autonomous targeting of infectious superspreaders using engineered transmissible therapies. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002015	5	37
76	Phylogenetic analysis of the emergence and epidemiological impact of transmissible defective dengue viruses. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003193	7.6	35

75	Effectiveness of traveller screening for emerging pathogens is shaped by epidemiology and natural history of infection. <i>ELife</i> , <b>2015</b> , 4,	8.9	35
74	Does the early frog catch the worm? Disentangling potential drivers of a parasite age-intensity relationship in tadpoles. <i>Oecologia</i> , <b>2011</b> , 165, 1031-42	2.9	33
73	Five challenges in evolution and infectious diseases. <i>Epidemics</i> , <b>2015</b> , 10, 40-4	5.1	32
72	Environmental predictors and incubation period of AIDS-associated penicillium marneffeii infection in Ho Chi Minh City, Vietnam. <i>Clinical Infectious Diseases</i> , <b>2013</b> , 56, 1273-9	11.6	32
71	Using remote sensing to map the risk of human monkeypox virus in the Congo Basin. <i>EcoHealth</i> , <b>2011</b> , 8, 14-25	3.1	30
70	HIV-1/parasite co-infection and the emergence of new parasite strains. <i>Parasitology</i> , <b>2008</b> , 135, 795-806	2.7	30
69	Identifying postelimination trends for the introduction and transmissibility of measles in the United States. <i>American Journal of Epidemiology</i> , <b>2014</b> , 179, 1375-82	3.8	29
68	Dynamic and integrative approaches to understanding pathogen spillover. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20190014	5.8	28
67	Mapping influenza transmission in the ferret model to transmission in humans. <i>ELife</i> , <b>2015</b> , 4,	8.9	27
66	Mechanistic theory predicts the effects of temperature and humidity on inactivation of SARS-CoV-2 and other enveloped viruses <b>2020</b> ,		24
65	Asymptomatic and chronic carriage of <i>Leptospira interrogans</i> serovar Pomona in California sea lions ( <i>Zalophus californianus</i> ). <i>Veterinary Microbiology</i> , <b>2013</b> , 164, 177-83	3.3	23
64	Dynamics and management of infectious disease in colonizing populations. <i>Ecology</i> , <b>2006</b> , 87, 1215-24	4.6	23
63	Mechanisms of resilience: empirically quantified positive feedbacks produce alternate stable states dynamics in a model of a tropical reef. <i>Journal of Ecology</i> , <b>2016</b> , 104, 1662-1672	6	21
62	Onward transmission of viruses: how do viruses emerge to cause epidemics after spillover?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20190017	5.8	20
61	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> , <b>2010</b> , 7, 1311-8	4.1	18
60	Assessment of N95 respirator decontamination and re-use for SARS-CoV-2		17
59	Rational Design and Adaptive Management of Combination Therapies for Hepatitis C Virus Infection. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004040	5	16
58	Ecology, evolution and spillover of coronaviruses from bats. <i>Nature Reviews Microbiology</i> , <b>2021</b> ,	22.2	14

57	Influence of viral replication mechanisms on within-host evolutionary dynamics. <i>Evolution; International Journal of Organic Evolution</i> , <b>2012</b> , 66, 3462-71	3.8	13
56	Pathogen-host associations and predicted range shifts of human monkeypox in response to climate change in central Africa. <i>PLoS ONE</i> , <b>2013</b> , 8, e66071	3.7	13
55	Minimizing the threat of pandemic emergence from avian influenza in poultry systems. <i>BMC Infectious Diseases</i> , <b>2013</b> , 13, 592	4	12
54	Comment on "On the regulation of populations of mammals, birds, fish, and insects" I. <i>Science</i> , <b>2006</b> , 311, 1100; author reply 1100	33.3	12
53	Basic methods for modeling the invasion and spread of contagious diseases. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , <b>2006</b> , 87-109		12
52	The effect of immunodeficiency on the evolution of virulence: an experimental test with the rodent malaria <i>Plasmodium chabaudi</i> . <i>American Naturalist</i> , <b>2014</b> , 184 Suppl 1, S47-57	3.7	11
51	Quantifying antibody kinetics and RNA shedding during early-phase SARS-CoV-2 infection		11
50	Challenges in modelling infectious disease dynamics: preface. <i>Epidemics</i> , <b>2015</b> , 10, iii-iv	5.1	10
49	Modelling clinical data shows active tissue concentration of daclatasvir is 10-fold lower than its plasma concentration. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2014</b> , 69, 724-7	5.1	10
48	Inferring patterns of influenza transmission in swine from multiple streams of surveillance data. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20130872	4.4	10
47	Evolutionary analysis of human immunodeficiency virus type 1 therapies based on conditionally replicating vectors. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002744	5	10
46	Author response: Estimated effectiveness of symptom and risk screening to prevent the spread of COVID-19 <b>2020</b> ,		10
45	Fogarty International Center collaborative networks in infectious disease modeling: Lessons learnt in research and capacity building. <i>Epidemics</i> , <b>2019</b> , 26, 116-127	5.1	10
44	Varicella Coinfection in Patients with Active Monkeypox in the Democratic Republic of the Congo. <i>EcoHealth</i> , <b>2017</b> , 14, 564-574	3.1	9
43	Incongruent HIV and tuberculosis co-dynamics in Kenya: interacting epidemics monitor each other. <i>Epidemics</i> , <b>2009</b> , 1, 14-20	5.1	9
42	Predominance of positive epistasis among drug resistance-associated mutations in HIV-1 protease. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1009009	6	9
41	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> , <b>2019</b> , 374, 20180346	5.8	8
40	Evolutionary invasion and escape in the presence of deleterious mutations. <i>PLoS ONE</i> , <b>2013</b> , 8, e68179	3.7	8

39	Parameter estimation in a generalized discrete-time model of density dependence. <i>Theoretical Ecology</i> , <b>2008</b> , 1, 221-229	1.6	8
38	Epidemiological models to control the spread of information in marine mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	8
37	Detecting signals of chronic shedding to explain pathogen persistence: <i>Leptospira interrogans</i> in California sea lions. <i>Journal of Animal Ecology</i> , <b>2017</b> , 86, 460-472	4.7	7
36	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> , <b>2014</b> , 110, 165-72	1.7	7
35	Effect of Environmental Conditions on SARS-CoV-2 Stability in Human Nasal Mucus and Sputum. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26,	10.2	7
34	Heat-Treated Virus Inactivation Rate Depends Strongly on Treatment Procedure: Illustration with SARS-CoV-2. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0031421	4.8	7
33	HYPERMUCOVISCOUS KLEBSIELLA PNEUMONIAE ISOLATES FROM STRANDED AND WILD-CAUGHT MARINE MAMMALS OF THE US PACIFIC COAST: PREVALENCE, PHENOTYPE, AND GENOTYPE. <i>Journal of Wildlife Diseases</i> , <b>2018</b> , 54, 659-670	1.3	6
32	Intergenerational phenotypic mixing in viral evolution. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 1815-22	3.8	6
31	Impact of HIV on novel therapies for tuberculosis control. <i>Aids</i> , <b>2008</b> , 22, 963-72	3.5	6
30	Antibiotic Efficacy in Eliminating <i>Leptospiruria</i> in California Sea Lions () Stranding with <i>Leptospirosis</i> . <i>Aquatic Mammals</i> , <b>2015</b> , 41, 203-212	3.1	6
29	Estimated effectiveness of traveller screening to prevent international spread of 2019 novel coronavirus (2019-nCoV) <b>2020</b> ,		6
28	Heat-treated virus inactivation rate depends strongly on treatment procedure: illustration with SARS-CoV-2 <b>2021</b> ,		6
27	Exposure to viral and bacterial pathogens among Soay sheep ( <i>Ovis aries</i> ) of the St Kilda archipelago. <i>Epidemiology and Infection</i> , <b>2016</b> , 144, 1879-88	4.3	6
26	Modeling density dependence in heterogeneous landscapes: dispersal as a case study. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 265, 160-6	2.3	5
25	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> , <b>2019</b> , 374, 20190367	5.8	4
24	Monitoring linked epidemics: the case of tuberculosis and HIV. <i>PLoS ONE</i> , <b>2010</b> , 5, e8796	3.7	4
23	Quantifying transmission of emerging zoonoses: Using mathematical models to maximize the value of surveillance data		4
22	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> , <b>2020</b> , 10, 7221-7232	2.8	4

21	Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics			3
20	Cross-scale dynamics and the evolutionary emergence of infectious diseases			3
19	SARS-CoV-2: Cross-scale Insights from Ecology and Evolution. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 593-605	12.4		3
18	Cross-scale dynamics and the evolutionary emergence of infectious diseases. <i>Virus Evolution</i> , <b>2021</b> , 7,	3.7		3
17	Linking longitudinal and cross-sectional biomarker data to understand host-pathogen dynamics: Leptospira in California sea lions ( <i>Zalophus californianus</i> ) as a case study. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008407	4.8		2
16	Coadaptive stability of interfering particles with HIV-1 when there is an evolutionary conflict. <i>Journal of Virology</i> , <b>2013</b> , 87, 9959	6.6		2
15	Mitigating outbreaks in congregate settings by decreasing the size of the susceptible population <b>2021</b> ,			2
14	Mapping the Host-Pathogen Space to Link Longitudinal and Cross-sectional Biomarker Data: Leptospira Infection in California Sea Lions ( <i>Zalophus californianus</i> ) as a Case Study			1
13	Potent Protection Against H5N1 and H7N9 Influenza via Childhood Hemagglutinin Imprinting			1
12	Adaptive potential of a drug-targeted viral protein as a function of environmental stress			1
11	Controlling emerging zoonoses at the animal-human interface. <i>One Health Outlook</i> , <b>2020</b> , 2, 17	5		1
10	Quantifying the Evolutionary Constraints and Potential of Hepatitis C Virus NS5A Protein. <i>MSystems</i> , <b>2021</b> , 6,	7.6		1
9	Drivers and Distribution of Henipavirus-Induced Syncytia: What Do We Know?. <i>Viruses</i> , <b>2021</b> , 13,	6.2		1
8	Population structure, intergroup interaction, and human contact govern infectious disease impacts in mountain gorilla populations. <i>American Journal of Primatology</i> , <b>2021</b> , e23350	2.5		1
7	Maternal antibodies Role in immunity-Response. <i>Science</i> , <b>2017</b> , 355, 705	33.3		0
6	Community health and human-animal contacts on the edges of Bwindi Impenetrable National Park, Uganda. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254467	3.7		0
5	CLASSIFICATION AND REGRESSION TREE ANALYSIS FOR PREDICTING PROGNOSIS IN WILDLIFE REHABILITATION: A CASE STUDY OF LEPTOSPIROSIS IN CALIFORNIA SEA LIONS (). <i>Journal of Zoo and Wildlife Medicine</i> , <b>2021</b> , 52, 38-48	0.9		0
4	A High Serum Vanin-1 Phenotype is Not Unique to Diving Marine Mammals. <i>FASEB Journal</i> , <b>2017</b> , 31, 768.7	0.9		0



- 3 Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics **2019**, 15, e1008109
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- 1 Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics **2019**, 15, e1008109