Marisa C Eisenberg

List of Publications by Year
in descending order

79 papers	2,723 citations	201575 27 h-index	214721 47 g-index
90 all docs	90 docs citations	90 times ranked	3522 citing authors

#	Article	IF	Citations
1	Cholera Epidemic in Haiti, 2010: Using a Transmission Model to Explain Spatial Spread of Disease and Identify Optimal Control Interventions. Annals of Internal Medicine, 2011, 154, 593.	2.0	214
2	What Factors Might Have Led to the Emergence of Ebola in West Africa?. PLoS Neglected Tropical Diseases, 2015, 9, e0003652.	1.3	206
3	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113561119.	3.3	136
4	Identifiability and estimation of multiple transmission pathways in cholera and waterborne disease. Journal of Theoretical Biology, 2013, 324, 84-102.	0.8	135
5	Epidemiology of the silent polio outbreak in Rahat, Israel, based on modeling of environmental surveillance data. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10625-E10633.	3.3	126
6	Fomite-mediated transmission as a sufficient pathway: a comparative analysis across three viral pathogens. BMC Infectious Diseases, 2018, 18, 540.	1.3	104
7	Examining rainfall and cholera dynamics in Haiti using statistical and dynamic modeling approaches. Epidemics, 2013, 5, 197-207.	1.5	96
8	A cholera model in a patchy environment with water and human movement. Mathematical Biosciences, 2013, 246, 105-112.	0.9	90
9	Mechanistic modeling of the effects of myoferlin on tumor cell invasion. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20078-20083.	3.3	79
10	Determining identifiable parameter combinations using subset profiling. Mathematical Biosciences, 2014, 256, 116-126.	0.9	79
11	Mathematical models: A key tool for outbreak response. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18095-18096.	3.3	78
12	Dose-response relationships for environmentally mediated infectious disease transmission models. PLoS Computational Biology, 2017, 13, e1005481.	1.5	78
13	An algorithm for finding globally identifiable parameter combinations of nonlinear ODE models using GrÃ¶bner Bases. Mathematical Biosciences, 2009, 222, 61-72.	0.9	70
14	Predicting the second wave of COVID-19 in Washtenaw County, MI. Journal of Theoretical Biology, 2020, 507, 110461.	0.8	63
15	A confidence building exercise in data and identifiability: Modeling cancer chemotherapy as a case study. Journal of Theoretical Biology, 2017, 431, 63-78.	0.8	52
16	Extensions, Validation, and Clinical Applications of a Feedback Control System Simulator of the Hypothalamo-Pituitary-Thyroid Axis. Thyroid, 2008, 18, 1071-1085.	2.4	51
17	HPV vaccination has not increased sexual activity or accelerated sexual debut in a college-aged cohort of men and women. BMC Public Health, 2019, 19, 821.	1.2	49
18	Heterogeneity in multiple transmission pathways: modelling the spread of cholera and other waterborne disease in networks with a common water source. Journal of Biological Dynamics, 2013, 7, 254-275.	0.8	47

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19	Modeling Biphasic Environmental Decay of Pathogens and Implications for Risk Analysis. Environmental Science & Technology, 2017, 51, 2186-2196.	4.6	46
20	Fine-scale spatial clustering of measles nonvaccination that increases outbreak potential is obscured by aggregated reporting data. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28506-28514.	3.3	44
21	Practical unidentifiability of a simple vector-borne disease model: Implications for parameter estimation and intervention assessment. Epidemics, 2018, 25, 89-100.	1.5	40
22	Ebola: Mobility data. Science, 2014, 346, 433-433.	6.0	39
23	Fomite-fingerpad transfer efficiency (pick-up and deposit) of Acinetobacter baumanniiâ€"with and without a latex glove. American Journal of Infection Control, 2015, 43, 928-934.	1.1	38
24	TSH-Based Protocol, Tablet Instability, and Absorption Effects on L-T₄Bioequivalence. Thyroid, 2009, 19, 103-110.	2.4	36
25	What Transmission Precautions Best Control Influenza Spread in a Hospital?. American Journal of Epidemiology, 2016, 183, 1045-1054.	1.6	32
26	Disease invasion on community networks with environmental pathogen movement. Journal of Mathematical Biology, 2015, 70, 1065-1092.	0.8	31
27	Design and methods of a social network isolation study for reducing respiratory infection transmission: The eX-FLU cluster randomized trial. Epidemics, 2016, 15, 38-55.	1.5	31
28	The impact of spatial arrangements on epidemic disease dynamics and intervention strategies. Journal of Biological Dynamics, 2016, 10, 222-249.	0.8	29
29	TSH Regulation Dynamics in Central and Extreme Primary Hypothyroidism. Thyroid, 2010, 20, 1215-1228.	2.4	27
30	Age Effects and Temporal Trends in HPV-Related and HPV-Unrelated Oral Cancer in the United States: A Multistage Carcinogenesis Modeling Analysis. PLoS ONE, 2016, 11, e0151098.	1.1	27
31	Identifiability Results for Several Classes of Linear Compartment Models. Bulletin of Mathematical Biology, 2015, 77, 1620-1651.	0.9	26
32	Multisite HPV infections in the United States (NHANES 2003â€"2014): An overview and synthesis. Preventive Medicine, 2019, 123, 288-298.	1.6	23
33	Parameter estimation for multistage clonal expansion models from cancer incidence data: A practical identifiability analysis. PLoS Computational Biology, 2017, 13, e1005431.	1.5	23
34	Trends in HPV cervical and seroprevalence and associations between oral and genital infection and serum antibodies in NHANES 2003â€"2012. BMC Infectious Diseases, 2015, 15, 575.	1.3	21
35	Hepatitis C transmission in young people who inject drugs: Insights using a dynamic model informed by state public health surveillance. Epidemics, 2019, 27, 86-95.	1.5	21
36	Model distinguishability and inference robustness in mechanisms of cholera transmission and loss of immunity. Journal of Theoretical Biology, 2017, 420, 68-81.	0.8	20

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37	â€œEbola kills generationsâ€: Qualitative discussions with Liberian healthcare providers. Midwifery, 2017, 45, 44-49.	1.0	20
38	A Systematic Approach to Determining the Identifiability of Multistage Carcinogenesis Models. Risk Analysis, 2017, 37, 1375-1387.	1.5	19
39	A Sensitive Thresholding Method for Confocal Laser Scanning Microscope Image Stacks of Microbial Biofilms. Scientific Reports, 2018, 8, 13013.	1.6	19
40	Modeling spatial invasion of Ebola in West Africa. Journal of Theoretical Biology, 2017, 428, 65-75.	0.8	17
41	L-T4Bioequivalence and Hormone Replacement Studies via Feedback Control Simulations. Thyroid, 2006, 16, 1279-1292.	2.4	17
42	Transmission heterogeneity and autoinoculation in a multisite infection model of HPV. Mathematical Biosciences, 2015, 270, 115-125.	0.9	16
43	Parameter identifiability and identifiable combinations in generalized Hodgkinâ€“Huxley models. Neurocomputing, 2016, 199, 137-143.	3.5	15
44	THYROSIM App for Education and Research Predicts Potential Health Risks of Over-the-Counter Thyroid Supplements. Thyroid, 2016, 26, 489-498.	2.4	13
45	Asymmetric transfer efficiencies between fomites and fingers: Impact on model parameterization. American Journal of Infection Control, 2018, 46, 620-626.	1.1	13
46	Simulation of Post-Thyroidectomy Treatment Alternatives for Triiodothyronine or Thyroxine Replacement in Pediatric Thyroid Cancer Patients. Thyroid, 2012, 22, 595-603.	2.4	12
47	Identification of the Fraction of Indolent Tumors and Associated Overdiagnosis in Breast Cancer Screening Trials. American Journal of Epidemiology, 2019, 188, 197-205.	1.6	12
48	Exploring the Seasonal Drivers of Varicella Zoster Virus Transmission and Reactivation. American Journal of Epidemiology, 2021, 190, 1814-1820.	1.6	12
49	Introducing BAIT (Biofilm Architecture Inference Tool): a software program to evaluate the architecture of oral multi-species biofilms. Microbiology (United Kingdom), 2019, 165, 527-537.	0.7	12
50	Case Studies of Gastric, Lung, and Oral Cancer Connect Etiologic Agent Prevalence to Cancer Incidence. Cancer Research, 2018, 78, 3386-3396.	0.4	11
51	Application of an Individual-Based Transmission Hazard Model for Estimation of Influenza Vaccine Effectiveness in a Household Cohort. American Journal of Epidemiology, 2017, 186, 1380-1388.	1.6	10
52	Dynamics and Determinants of HPV Infection: The Michigan HPV and Oropharyngeal Cancer (M-HOC) Study. BMJ Open, 2018, 8, e021618.	0.8	10
53	Measuring office workplace interactions and hand hygiene behaviors through electronic sensors: A feasibility study. PLoS ONE, 2021, 16, e0243358.	1.1	10
54	Immunologic and Epidemiologic Drivers of Norovirus Transmission in Daycare and School Outbreaks. Epidemiology, 2021, 32, 351-359.	1.2	9

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55	Structural identifiability analysis of age-structured PDE epidemic models. Journal of Mathematical Biology, 2022, 84, 9.	0.8	9
56	Linking Decision Theory and Quantitative Microbial Risk Assessment: Tradeoffs Between Compliance and Efficacy for Waterborne Disease Interventions. Risk Analysis, 2019, 39, 2214-2226.	1.5	8
57	Phenotypic variations in persistence and infectivity between and within environmentally transmitted pathogen populations impact population-level epidemic dynamics. BMC Infectious Diseases, 2019, 19, 449.	1.3	8
58	Timeâ€varying survival effects for squamous cell carcinomas at oropharyngeal and nonoropharyngeal head and neck sites in the United States, 1973â€2015. Cancer, 2020, 126, 5137-5146.	2.0	8
59	Clostridium difficile shows no trade-off between toxin and spore production within the human host. Journal of Medical Microbiology, 2018, 67, 631-640.	0.7	8
60	Stigmatizing Policies Interact with Mental Health and Sexual Behaviours to Structurally Induce HIV Diagnoses Among European Men Who Have Sex with Men. AIDS and Behavior, 2022, 26, 3400-3410.	1.4	8
61	The role of time-varying viral shedding in modelling environmental surveillance for public health: revisiting the 2013 poliovirus outbreak in Israel. Journal of the Royal Society Interface, 2022, 19, 20220006.	1.5	8
62	Connecting Local and Global Sensitivities in a Mathematical Model for Wound Healing. Bulletin of Mathematical Biology, 2015, 77, 2294-2324.	0.9	7
63	Comparing alternative cholera vaccination strategies in Maela refugee camp: using a transmission model in public health practice. BMC Infectious Diseases, 2019, 19, 1075.	1.3	7
64	The Impact of Vaccination Efforts on the Spatiotemporal Patterns of the Hepatitis A Outbreak in Michigan, 2016â€“2018. Epidemiology, 2020, 31, 628-635.	1.2	7
65	Incidence and clearance of oral and cervicogenital HPV infection: longitudinal analysis of the MHOC cohort study. BMJ Open, 2022, 12, e056502.	0.8	7
66	Effects of adaptive protective behavior on the dynamics of sexually transmitted infections. Journal of Theoretical Biology, 2016, 388, 119-130.	0.8	6
67	Integrating measures of viral prevalence and seroprevalence: a mechanistic modelling approach to explaining cohort patterns of human papillomavirus in women in the USA. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180297.	1.8	5
68	Protective impacts of household-based tuberculosis contact tracing are robust across endemic incidence levels and community contact patterns. PLoS Computational Biology, 2021, 17, e1008713.	1.5	5
69	Oral human papillomavirus prevalence, persistence, and risk-factors in HIV-positive and HIV-negative adults. Tumour Virus Research, 2022, 13, 200237.	1.5	5
70	Rapid response modeling of SARS-CoV-2 transmission. Science, 2022, 376, 579-580.	6.0	5
71	Characteristics of head and neck squamous cell carcinoma cell Lines reflect human tumor biology independent of primary etiologies and HPV status. Translational Oncology, 2020, 13, 100808.	1.7	4
72	Severe Acute Respiratory Syndrome Coronavirus 2 Surveillance in Decedents in a Large, Urban Medical Examinerâ€™s Office. Clinical Infectious Diseases, 2021, 72, e580-e585.	2.9	4

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73	Cost-effectiveness of pediatric norovirus vaccination in daycare settings. Vaccine, 2021, 39, 2133-2145.	1.7	4
74	Has the relationship between wealth and HIV risk in Sub-Saharan Africa changed over time? A temporal, gendered and hierarchical analysis. SSM - Population Health, 2021, 15, 100833.	1.3	3
75	Prevalence and determinants of oral and cervicogenital HPV infection: Baseline analysis of the Michigan HPV and Oropharyngeal Cancer (MHOC) cohort study. PLoS ONE, 2022, 17, e0268104.	1.1	3
76	Using compartmental models to simulate directed acyclic graphs to explore competing causal mechanisms underlying epidemiological study data. Journal of the Royal Society Interface, 2020, 17, 20190675.	1.5	1
77	Analytical and computational study of an individual-based network model for the spread of heavy drinking. Journal of Biological Dynamics, 2018, 12, 509-526.	0.8	0
78	DNA concentration from self samples for HPV testing. International Journal of Cancer, 2018, 143, 3036-3037.	2.3	0
79	An in silico evaluation of treatment regimens for recurrent Clostridium difficile infection. PLoS ONE, 2017, 12, e0182815.	1.1	0