

Romulus Breban

List of Publications by Year in descending order

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46
papers

2,007
citations

471509

17
h-index

254184

43
g-index

47
all docs

47
docs citations

47
times ranked

2486
citing authors

#	ARTICLE	IF	CITATIONS
1	Interhuman transmissibility of Middle East respiratory syndrome coronavirus: estimation of pandemic risk. <i>Lancet, The</i> , 2013, 382, 694-699.	13.7	342
2	Environmental transmission of low pathogenicity avian influenza viruses and its implications for pathogen invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10365-10369.	7.1	216
3	Infectious syphilis in high-income settings in the 21st century. <i>Lancet Infectious Diseases, The</i> , 2008, 8, 244-253.	9.1	205
4	The Role of Environmental Transmission in Recurrent Avian Influenza Epidemics. <i>PLoS Computational Biology</i> , 2009, 5, e1000346.	3.2	197
5	Modelling human-to-human transmission of monkeypox. <i>Bulletin of the World Health Organization</i> , 2020, 98, 638-640.	3.3	169
6	Detecting Phase Synchronization in a Chaotic Laser Array. <i>Physical Review Letters</i> , 2001, 87, 044101.	7.8	149
7	Can Influenza Epidemics Be Prevented by Voluntary Vaccination?. <i>PLoS Computational Biology</i> , 2007, 3, e85.	3.2	137
8	Theory versus Data: How to Calculate R_0 ?. <i>PLoS ONE</i> , 2007, 2, e282.	2.5	83
9	Mean-field analysis of an inductive reasoning game: Application to influenza vaccination. <i>Physical Review E</i> , 2007, 76, 031127.	2.1	80
10	Role of environmental persistence in pathogen transmission: a mathematical modeling approach. <i>Journal of Mathematical Biology</i> , 2013, 66, 535-546.	1.9	46
11	Effect of preventive and curative interventions on hepatitis C virus transmission in Egypt (ANRS 1211): a modelling study. <i>The Lancet Global Health</i> , 2014, 2, e541-e549.	6.3	42
12	A general multi-strain model with environmental transmission: Invasion conditions for the disease-free and endemic states. <i>Journal of Theoretical Biology</i> , 2010, 264, 729-736.	1.7	38
13	Heterosexual Risk of HIV Transmission per Sexual Act Under Combined Antiretroviral Therapy: Systematic Review and Bayesian Modeling. <i>Clinical Infectious Diseases</i> , 2014, 59, 115-122.	5.8	30
14	Health Newscasts for Increasing Influenza Vaccination Coverage: An Inductive Reasoning Game Approach. <i>PLoS ONE</i> , 2011, 6, e28300.	2.5	23
15	Role of word-of-mouth for programs of voluntary vaccination: A game-theoretic approach. <i>Mathematical Biosciences</i> , 2015, 269, 130-134.	1.9	23
16	Is there any evidence that syphilis epidemics cycle?. <i>Lancet Infectious Diseases, The</i> , 2008, 8, 577-581.	9.1	20
17	Linking population-level models with growing networks: A class of epidemic models. <i>Physical Review E</i> , 2005, 72, 046110.	2.1	18
18	The reinfection threshold does not exist. <i>Journal of Theoretical Biology</i> , 2005, 235, 151-152.	1.7	17

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19	Phase synchronization of chaotic attractors in the presence of two competing periodic signals. <i>Physical Review E</i> , 2002, 65, 056219.	2.1	16
20	Modeling the potential impact of rectal microbicides to reduce HIV transmission in bathhouses. <i>Mathematical Biosciences and Engineering</i> , 2006, 3, 459-466.	1.9	16
21	BCG-Mediated Bladder Cancer Immunotherapy: Identifying Determinants of Treatment Response Using a Calibrated Mathematical Model. <i>PLoS ONE</i> , 2013, 8, e56327.	2.5	15
22	A universal long-term flu vaccine may not prevent severe epidemics. <i>BMC Research Notes</i> , 2010, 3, 92.	1.4	13
23	Lack of predictability in dynamical systems with drift: scaling of indeterminate saddle-node bifurcations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 319, 79-84.	2.1	12
24	Role of parametric resonance in virological failure during HIV treatment interruption therapy. <i>Lancet, The</i> , 2006, 367, 1285-1289.	13.7	11
25	Mathematical model of tumor immunotherapy for bladder carcinoma identifies the limitations of the innate immune response. <i>Oncolmmunology</i> , 2012, 1, 9-17.	4.6	11
26	On the creation of Wada basins in interval maps through fixed point tangent bifurcation. <i>Physica D: Nonlinear Phenomena</i> , 2005, 207, 52-63.	2.8	10
27	The niche reduction approach: an opportunity for optimal control of infectious diseases in low-income countries?. <i>BMC Public Health</i> , 2014, 14, 753.	2.9	8
28	Scaling properties of saddle-node bifurcations on fractal basin boundaries. <i>Physical Review E</i> , 2003, 68, 066213.	2.1	7
29	PHASE SYNCHRONIZATION IN A MODULATED CHAOTIC LASER ARRAY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 3205-3216.	1.7	7
30	Prevention of treatable infectious diseases: A game-theoretic approach. <i>Vaccine</i> , 2017, 35, 5339-5345.	3.8	7
31	The diffusion dynamics of choice: From durable goods markets to fashion first names. <i>Complexity</i> , 2016, 21, 362-369.	1.6	6
32	Brief Report: Per Sex-Act Risk of HIV Transmission Under Antiretroviral Treatment: A Data-Driven Approach. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2018, 79, 440-444.	2.1	6
33	Phase synchronization of chaotic attractors with prescribed periodic signals. <i>Physical Review E</i> , 2003, 68, 047201.	2.1	5
34	Quantifying the treatment efficacy of reverse transcriptase inhibitors: new analyses of clinical data based on within-host modeling. <i>BMC Public Health</i> , 2009, 9, S11.	2.9	4
35	A five-dimensional perspective on the Kleinâ€“Gordon equation. <i>Annals of Physics</i> , 2015, 356, 158-170.	2.8	4
36	Can HIV epidemics among MSM be eliminated through participation in preexposure prophylaxis rollouts?. <i>Aids</i> , 2021, 35, 2347-2354.	2.2	3

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37	Reply to "Comment on "Linking population-level models with growing networks: A class of epidemic models"" Physical Review E, 2006, 74, .	2.1	2
38	Risk of HIV Transmission Under Combined Antiretroviral Therapy. Journal of Acquired Immune Deficiency Syndromes (1999), 2015, 68, e41-e42.	2.1	2
39	On spinless null propagation in five-dimensional space-times with approximate space-like Killing symmetry. European Physical Journal C, 2016, 76, 1.	3.9	2
40	The 4D Dirac Equation in Five Dimensions. Annalen Der Physik, 2018, 530, 1800042.	2.4	2
41	The transmission dynamics of syphilis and the CDC's elimination plan. Nature Precedings, 2007, , .	0.1	1
42	Feasible HCV targets in Egypt " Authors' reply. The Lancet Global Health, 2014, 2, e688.	6.3	1
43	Classification of Spatiotemporal Data for Epidemic Alert Systems: Monitoring Influenza-Like Illness in France. American Journal of Epidemiology, 2019, 188, 724-733.	3.4	1
44	Publisher's Note: Scaling properties of saddle-node bifurcations on fractal basin boundaries [Phys. Rev. E 68, 066213 (2003)]. Physical Review E, 2004, 69, .	2.1	0
45	Electromagnetism from 5D gravity: beyond the Maxwell equations. European Physical Journal Plus, 2021, 136, 1.	2.6	0
46	Bayesian Monitoring of Emerging Infectious Diseases. PLoS ONE, 2016, 11, e0152629.	2.5	0