Romulus Breban

List of Publications by Year
in descending order

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	Electromagnetism from 5D gravity: beyond the Maxwell equations. European Physical Journal Plus, 2021, 136, 1.	2.6	0
2	Can HIV epidemics among MSM be eliminated through participation in preexposure prophylaxis rollouts?. Aids, 2021, 35, 2347-2354.	2.2	3
3	Modelling human-to-human transmission of monkeypox. Bulletin of the World Health Organization, 2020, 98, 638-640.	3.3	169
4	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
5	Brief Report: Per Sex-Act Risk of HIV Transmission Under Antiretroviral Treatment: A Data-Driven Approach. Journal of Acquired Immune Deficiency Syndromes (1999), 2018, 79, 440-444.	2.1	6
6	The 4D Dirac Equation in Five Dimensions. Annalen Der Physik, 2018, 530, 1800042.	2.4	2
7	Prevention of treatable infectious diseases: A game-theoretic approach. Vaccine, 2017, 35, 5339-5345.	3.8	7
8	The diffusion dynamics of choice: From durable goods markets to fashion first names. Complexity, 2016, 21, 362-369.	1.6	6
9	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
10	Bayesian Monitoring of Emerging Infectious Diseases. PLoS ONE, 2016, 11, e0152629.	2.5	0
11	Risk of HIV Transmission Under Combined Antiretroviral Therapy. Journal of Acquired Immune Deficiency Syndromes (1999), 2015, 68, e41-e42.	2.1	2
12	A five-dimensional perspective on the Kleinâ€“Gordon equation. Annals of Physics, 2015, 356, 158-170.	2.8	4
13	Role of word-of-mouth for programs of voluntary vaccination: A game-theoretic approach. Mathematical Biosciences, 2015, 269, 130-134.	1.9	23
14	Heterosexual Risk of HIV Transmission per Sexual Act Under Combined Antiretroviral Therapy: Systematic Review and Bayesian Modeling. Clinical Infectious Diseases, 2014, 59, 115-122.	5.8	30
15	Feasible HCV targets in Egypt â€“ Authors' reply. The Lancet Global Health, 2014, 2, e688.	6.3	1
16	Effect of preventive and curative interventions on hepatitis C virus transmission in Egypt (ANRS 1211): a modelling study. The Lancet Global Health, 2014, 2, e541-e549.	6.3	42
17	The niche reduction approach: an opportunity for optimal control of infectious diseases in low-income countries?. BMC Public Health, 2014, 14, 753.	2.9	8
18	Interhuman transmissibility of Middle East respiratory syndrome coronavirus: estimation of pandemic risk. Lancet, The, 2013, 382, 694-699.	13.7	342

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19	Role of environmental persistence in pathogen transmission: a mathematical modeling approach. Journal of Mathematical Biology, 2013, 66, 535-546.	1.9	46
20	BCG-Mediated Bladder Cancer Immunotherapy: Identifying Determinants of Treatment Response Using a Calibrated Mathematical Model. PLoS ONE, 2013, 8, e56327.	2.5	15
21	Mathematical model of tumor immunotherapy for bladder carcinoma identifies the limitations of the innate immune response. OncoImmunology, 2012, 1, 9-17.	4.6	11
22	Health Newscasts for Increasing Influenza Vaccination Coverage: An Inductive Reasoning Game Approach. PLoS ONE, 2011, 6, e28300.	2.5	23
23	A universal long-term flu vaccine may not prevent severe epidemics. BMC Research Notes, 2010, 3, 92.	1.4	13
24	A general multi-strain model with environmental transmission: Invasion conditions for the disease-free and endemic states. Journal of Theoretical Biology, 2010, 264, 729-736.	1.7	38
25	Environmental transmission of low pathogenicity avian influenza viruses and its implications for pathogen invasion. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10365-10369.	7.1	216
26	The Role of Environmental Transmission in Recurrent Avian Influenza Epidemics. PLoS Computational Biology, 2009, 5, e1000346.	3.2	197
27	Quantifying the treatment efficacy of reverse transcriptase inhibitors: new analyses of clinical data based on within-host modeling. BMC Public Health, 2009, 9, S11.	2.9	4
28	Infectious syphilis in high-income settings in the 21st century. Lancet Infectious Diseases, The, 2008, 8, 244-253.	9.1	205
29	Is there any evidence that syphilis epidemics cycle?. Lancet Infectious Diseases, The, 2008, 8, 577-581.	9.1	20
30	Can Influenza Epidemics Be Prevented by Voluntary Vaccination?. PLoS Computational Biology, 2007, 3, e85.	3.2	137
31	Mean-field analysis of an inductive reasoning game: Application to influenza vaccination. Physical Review E, 2007, 76, 031127.	2.1	80
32	Theory versus Data: How to Calculate R0?. PLoS ONE, 2007, 2, e282.	2.5	83
33	The transmission dynamics of syphilis and the CDCâ€™s elimination plan. Nature Precedings, 2007, , .	0.1	1
34	Role of parametric resonance in virological failure during HIV treatment interruption therapy. Lancet, The, 2006, 367, 1285-1289.	13.7	11
35	Reply to â€œComment on â€˜Linking population-level models with growing networks: A class of epidemic modelsâ€™â€‰â€•â€. Physical Review E, 2006, 74, .	2.1	2
36	Modeling the potential impact of rectal microbicides to reduce HIV transmission in bathhouses. Mathematical Biosciences and Engineering, 2006, 3, 459-466.	1.9	16

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37	The reinfection threshold does not exist. Journal of Theoretical Biology, 2005, 235, 151-152.	1.7	17
38	On the creation of Wada basins in interval maps through fixed point tangent bifurcation. Physica D: Nonlinear Phenomena, 2005, 207, 52-63.	2.8	10
39	Linking population-level models with growing networks: A class of epidemic models. Physical Review E, 2005, 72, 046110.	2.1	18
40	Publisherâ€™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
41	PHASE SYNCHRONIZATION IN A MODULATED CHAOTIC LASER ARRAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3205-3216.	1.7	7
42	Lack of predictability in dynamical systems with drift: scaling of indeterminate saddle-node bifurcations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 79-84.	2.1	12
43	Phase synchronization of chaotic attractors with prescribed periodic signals. Physical Review E, 2003, 68, 047201.	2.1	5
44	Scaling properties of saddle-node bifurcations on fractal basin boundaries. Physical Review E, 2003, 68, 066213.	2.1	7
45	Phase synchronization of chaotic attractors in the presence of two competing periodic signals. Physical Review E, 2002, 65, 056219.	2.1	16
46	Detecting Phase Synchronization in a Chaotic Laser Array. Physical Review Letters, 2001, 87, 044101.	7.8	149