

Libin Rong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3096614/publications.pdf>

Version: 2024-02-01

64
papers

2,963
citations

257101

24
h-index

168136

53
g-index

64
all docs

64
docs citations

64
times ranked

2615
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Emergence of Protease Inhibitor Resistance in Hepatitis C Virus. <i>Science Translational Medicine</i> , 2010, 2, 30ra32.	5.8	327
2	Modeling Within-Host Dynamics of Influenza Virus Infection Including Immune Responses. <i>PLoS Computational Biology</i> , 2012, 8, e1002588.	1.5	223
3	Modeling HIV persistence, the latent reservoir, and viral blips. <i>Journal of Theoretical Biology</i> , 2009, 260, 308-331.	0.8	196
4	Modeling Latently Infected Cell Activation: Viral and Latent Reservoir Persistence, and Viral Blips in HIV-infected Patients on Potent Therapy. <i>PLoS Computational Biology</i> , 2009, 5, e1000533.	1.5	194
5	A discrete stochastic model of the COVID-19 outbreak: Forecast and control. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 2792-2804.	1.0	165
6	Emergence of HIV-1 Drug Resistance During Antiretroviral Treatment. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 2027-2060.	0.9	153
7	A model of HIV-1 infection with two time delays: Mathematical analysis and comparison with patient data. <i>Mathematical Biosciences</i> , 2012, 235, 98-109.	0.9	137
8	Mathematical Analysis of Age-Structured HIV-1 Dynamics with Combination Antiretroviral Therapy. <i>SIAM Journal on Applied Mathematics</i> , 2007, 67, 731-756.	0.8	120
9	Modeling the viral dynamics of SARS-CoV-2 infection. <i>Mathematical Biosciences</i> , 2020, 328, 108438.	0.9	120
10	Modeling within-host HIV-1 dynamics and the evolution of drug resistance: Trade-offs between viral enzyme function and drug susceptibility. <i>Journal of Theoretical Biology</i> , 2007, 247, 804-818.	0.8	107
11	Asymmetric division of activated latently infected cells may explain the decay kinetics of the HIV-1 latent reservoir and intermittent viral blips. <i>Mathematical Biosciences</i> , 2009, 217, 77-87.	0.9	101
12	Analysis of Hepatitis C Virus Decline during Treatment with the Protease Inhibitor Danoprevir Using a Multiscale Model. <i>PLoS Computational Biology</i> , 2013, 9, e1002959.	1.5	83
13	Assessing the effects of metropolitan-wide quarantine on the spread of COVID-19 in public space and households. <i>International Journal of Infectious Diseases</i> , 2020, 96, 503-505.	1.5	82
14	Mathematical analysis of an HIV latent infection model including both virus-to-cell infection and cell-to-cell transmission. <i>Journal of Biological Dynamics</i> , 2017, 11, 455-483.	0.8	75
15	Projected COVID-19 epidemic in the United States in the context of the effectiveness of a potential vaccine and implications for social distancing and face mask use. <i>Vaccine</i> , 2021, 39, 2295-2302.	1.7	72
16	Treatment of Hepatitis C Virus Infection With Interferon and Small Molecule Direct Antivirals: Viral Kinetics and Modeling. <i>Critical Reviews in Immunology</i> , 2010, 30, 131-148.	1.0	68
17	Global stability of an infection-age structured HIV-1 model linking within-host and between-host dynamics. <i>Mathematical Biosciences</i> , 2015, 263, 37-50.	0.9	55
18	Modeling the Slow CD4+ T Cell Decline in HIV-Infected Individuals. <i>PLoS Computational Biology</i> , 2015, 11, e1004665.	1.5	46

#	ARTICLE	IF	CITATIONS
19	Mathematical analysis of multiscale models for hepatitis C virus dynamics under therapy with direct-acting antiviral agents. <i>Mathematical Biosciences</i> , 2013, 245, 22-30.	0.9	45
20	Analysis of a stochastic HIV-1 infection model with degenerate diffusion. <i>Applied Mathematics and Computation</i> , 2019, 348, 437-455.	1.4	42
21	Modeling Quasispecies and Drug Resistance in Hepatitis C Patients Treated with a Protease Inhibitor. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 1789-1817.	0.9	38
22	Modeling the effect of comprehensive interventions on Ebola virus transmission. <i>Scientific Reports</i> , 2015, 5, 15818.	1.6	32
23	Analysis of HIV models with two time delays. <i>Journal of Biological Dynamics</i> , 2017, 11, 40-64.	0.8	30
24	Stochastic population switch may explain the latent reservoir stability and intermittent viral blips in HIV patients on suppressive therapy. <i>Journal of Theoretical Biology</i> , 2014, 360, 137-148.	0.8	27
25	Dynamics of an HIV Model with Multiple Infection Stages and Treatment with Different Drug Classes. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 322-349.	0.9	25
26	The cost-effectiveness of oral HIV pre-exposure prophylaxis and early antiretroviral therapy in the presence of drug resistance among men who have sex with men in San Francisco. <i>BMC Medicine</i> , 2018, 16, 58.	2.3	25
27	LMI approach for global periodicity of neural networks with time-varying delays. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005, 52, 1451-1458.	0.1	23
28	Optimal vaccination strategy for an SIRS model with imprecise parameters and Lévy noise. <i>Journal of the Franklin Institute</i> , 2019, 356, 11385-11413.	1.9	23
29	Analysis of an HIV Model with Immune Responses and Cell-to-Cell Transmission. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2020, 43, 581-607.	0.4	23
30	HIV low viral load persistence under treatment: Insights from a model of cell-to-cell viral transmission. <i>Applied Mathematics Letters</i> , 2019, 94, 44-51.	1.5	22
31	Influence of raltegravir intensification on viral load and 2-LTR dynamics in HIV patients on suppressive antiretroviral therapy. <i>Journal of Theoretical Biology</i> , 2017, 416, 16-27.	0.8	20
32	Modeling Pharmacodynamics on HIV Latent Infection: Choice of Drugs is Key to Successful Cure via Early Therapy. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1781-1804.	0.8	20
33	New Results on the Robust Stability of Cohen-Grossberg Neural Networks with Delays. <i>Neural Processing Letters</i> , 2006, 24, 193-202.	2.0	19
34	A stochastic epidemic model with nonmonotone incidence rate: Sufficient and necessary conditions for near-optimality. <i>Information Sciences</i> , 2018, 467, 670-684.	4.0	18
35	Conflict and accord of optimal treatment strategies for HIV infection within and between hosts. <i>Mathematical Biosciences</i> , 2019, 309, 107-117.	0.9	17
36	BISTABILITY ANALYSIS OF AN HIV MODEL WITH IMMUNE RESPONSE. <i>Journal of Biological Systems</i> , 2017, 25, 677-695.	0.5	16

#	ARTICLE	IF	CITATIONS
37	Effects of New York's Executive Order on Face Mask Use on COVID-19 Infections and Mortality: A Modeling Study. <i>Journal of Urban Health</i> , 2021, 98, 197-204.	1.8	15
38	A Dynamic Model to Assess Human Papillomavirus Vaccination Strategies in a Heterosexual Population Combined with Men Who have Sex with Men. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 5.	0.9	14
39	An HIV model with age-structured latently infected cells. <i>Journal of Biological Dynamics</i> , 2017, 11, 192-215.	0.8	13
40	Asymptotic analysis of a vector-borne disease model with the age of infection. <i>Journal of Biological Dynamics</i> , 2020, 14, 332-367.	0.8	12
41	Analysis of HIV models with multiple target cell populations and general nonlinear rates of viral infection and cell death. <i>Mathematics and Computers in Simulation</i> , 2016, 124, 87-103.	2.4	11
42	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170525.	1.2	10
43	A stochastic epidemic model coupled with seasonal air pollution: analysis and data fitting. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 2245-2257.	1.9	10
44	Modeling the role of macrophages in HIV persistence during antiretroviral therapy. <i>Journal of Mathematical Biology</i> , 2020, 81, 369-402.	0.8	10
45	The risk of future waves of COVID-19: modeling and data analysis. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 5409-5426.	1.0	10
46	Investigating the Relationship between Reopening the Economy and Implementing Control Measures during the COVID-19 Pandemic. <i>Public Health</i> , 2021, 200, 15-21.	1.4	10
47	A unified mathematical model of thyroid hormone regulation and implication for personalized treatment of thyroid disorders. <i>Journal of Theoretical Biology</i> , 2021, 528, 110853.	0.8	8
48	A two-sex model of human papillomavirus infection: Vaccination strategies and a case study. <i>Journal of Theoretical Biology</i> , 2022, 536, 111006.	0.8	8
49	Age-Structured Population Modeling of HPV-related Cervical Cancer in Texas and US. <i>Scientific Reports</i> , 2018, 8, 14346.	1.6	7
50	Modeling HIV multiple infection. <i>Journal of Theoretical Biology</i> , 2021, 509, 110502.	0.8	7
51	Treatment of hepatitis C with an interferon-based lead-in phase: a perspective from mathematical modelling. <i>Antiviral Therapy</i> , 2014, 19, 469-477.	0.6	6
52	Near-optimal control for a stochastic SIRS model with imprecise parameters. <i>Asian Journal of Control</i> , 2020, 22, 2090-2105.	1.9	5
53	A delayed reaction-diffusion viral infection model with nonlinear incidences and cell-to-cell transmission. <i>International Journal of Biomathematics</i> , 2021, 14, .	1.5	4
54	Dynamics of a new HIV model with the activation status of infected cells. <i>Journal of Mathematical Biology</i> , 2021, 82, 51.	0.8	3

#	ARTICLE	IF	CITATIONS
55	Within-Host Viral Dynamics in a Multi-compartmental Environment. Bulletin of Mathematical Biology, 2019, 81, 4271-4308.	0.9	2
56	An Age-Structured Model of HIV Latent Infection with Two Transmission Routes: Analysis and Optimal Control. Complexity, 2020, 2020, 1-22.	0.9	2
57	Modeling within-host viral dynamics: The role of CTL immune responses in the evolution of drug resistance. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 3543.	0.5	2
58	The impact of vaccination on human papillomavirus infection with disassortative geographical mixing: a two-patch modeling study. Journal of Mathematical Biology, 2022, 84, 43.	0.8	2
59	Modelling the dynamics of <i>Trypanosoma rangeli</i> and triatomine bug with logistic growth of vector and systemic transmission. Mathematical Biosciences and Engineering, 2022, 19, 8452-8478.	1.0	2
60	Stochastic investigation of HIV infection and the emergence of drug resistance. Mathematical Biosciences and Engineering, 2021, 19, 1174-1194.	1.0	1
61	An economic and disease transmission model of human papillomavirus and oropharyngeal cancer in Texas. Scientific Reports, 2021, 11, 1802.	1.6	0
62	84357 A TL1 Team Approach to Integrating Mathematical and Biological Models to Target Myeloid-Derived Immune Cells in Glioblastoma. Journal of Clinical and Translational Science, 2021, 5, 20-20.	0.3	0
63	Modeling the Effect of Reactive Oxygen Species and CTL Immune Response on HIV Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	0.7	0
64	209 A CTS Team Approach to Modeling Migration and Suppression of CCR2+/CX3CR1+ Myeloid Cells in Glioblastoma. Journal of Clinical and Translational Science, 2022, 6, 32-32.	0.3	0