

Hana M Dobrovolny

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,052
citations

471509

17
h-index

434195

31
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46
all docs

46
docs citations

46
times ranked

1222
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of Respiratory Viral Coinfections. <i>Epidemiologia</i> , 2022, 3, 81-96.	2.2	1
2	Model Integration in Computational Biology: The Role of Reproducibility, Credibility and Utility. <i>Frontiers in Systems Biology</i> , 2022, 2, .	0.7	7
3	Epidemiological Consequences of Viral Interference: A Mathematical Modeling Study of Two Interacting Viruses. <i>Frontiers in Microbiology</i> , 2022, 13, 830423.	3.5	10
4	GPU acceleration and data fitting: Agent-based models of viral infections can now be parameterized in hours. <i>Journal of Computational Science</i> , 2022, 61, 101662.	2.9	7
5	Effects of Doxorubicin Delivery by Nitrogen-Doped Graphene Quantum Dots on Cancer Cell Growth: Experimental Study and Mathematical Modeling. <i>Nanomaterials</i> , 2021, 11, 140.	4.1	25
6	Quantifying the effect of trypsin and elastase on in vitro SARS-CoV infections. <i>Virus Research</i> , 2021, 299, 198423.	2.2	1
7	The role of syncytia during viral infections. <i>Journal of Theoretical Biology</i> , 2021, 525, 110749.	1.7	7
8	A study of the effects of age on the dynamics of RSV in animal models. <i>Virus Research</i> , 2021, 304, 198524.	2.2	2
9	Predicting the effectiveness of chemotherapy using stochastic ODE models of tumor growth. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 101, 105883.	3.3	7
10	Estimation of viral kinetics model parameters in young and aged SARS-CoV-2 infected macaques. <i>Royal Society Open Science</i> , 2021, 8, 202345.	2.4	9
11	Quantifying the effect of remdesivir in rhesus macaques infected with SARS-CoV-2. <i>Virology</i> , 2020, 550, 61-69.	2.4	33
12	Modeling the role of asymptomatics in infection spread with application to SARS-CoV-2. <i>PLoS ONE</i> , 2020, 15, e0236976.	2.5	35
13	Energy Requirements for Loss of Viral Infectivity. <i>Food and Environmental Virology</i> , 2020, 12, 281-294.	3.4	5
14	Initial Inoculum and the Severity of COVID-19: A Mathematical Modeling Study of the Dose-Response of SARS-CoV-2 Infections. <i>Epidemiologia</i> , 2020, 1, 5-15.	2.2	19
15	Understanding the effect of measurement time on drug characterization. <i>PLoS ONE</i> , 2020, 15, e0233031.	2.5	4
16	SARS-CoV-2 coinfections: Could influenza and the common cold be beneficial?. <i>Journal of Medical Virology</i> , 2020, 92, 2623-2630.	5.0	70
17	An approximate solution of the interferon-dependent viral kinetics model of influenza. <i>Journal of Theoretical Biology</i> , 2020, 498, 110266.	1.7	2
18	Testing the limits of cardiac electrophysiology models through systematic variation of current. <i>AIMS Mathematics</i> , 2020, 5, 140-157.	1.6	0

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19	The rate of viral transfer between upper and lower respiratory tracts determines RSV illness duration. <i>Journal of Mathematical Biology</i> , 2019, 79, 467-483.	1.9	12
20	Effect of stochasticity on coinfection dynamics of respiratory viruses. <i>BMC Bioinformatics</i> , 2019, 20, 191.	2.6	10
21	Superinfection and cell regeneration can lead to chronic viral coinfections. <i>Journal of Theoretical Biology</i> , 2019, 466, 24-38.	1.7	8
22	Intermittent treatment of severe influenza. <i>Journal of Theoretical Biology</i> , 2018, 442, 129-138.	1.7	6
23	Quantifying rotavirus kinetics in the REH tumor cell line using in vitro data. <i>Virus Research</i> , 2018, 244, 53-63.	2.2	18
24	Investigating Different Mechanisms of Action in Combination Therapy for Influenza. <i>Frontiers in Pharmacology</i> , 2018, 9, 1207.	3.5	19
25	Modeling of fusion inhibitor treatment of RSV in African green monkeys. <i>Journal of Theoretical Biology</i> , 2018, 456, 62-73.	1.7	14
26	A quantitative assessment of dynamical differences of RSV infections in vitro and in vivo. <i>Virology</i> , 2018, 523, 129-139.	2.4	10
27	A comparison of RSV and influenza in vitro kinetic parameters reveals differences in infecting time. <i>PLoS ONE</i> , 2018, 13, e0192645.	2.5	24
28	The in vivo efficacy of neuraminidase inhibitors cannot be determined from the decay rates of influenza viral titers observed in treated patients. <i>Scientific Reports</i> , 2017, 7, 40210.	3.3	14
29	The impact of cell regeneration on the dynamics of viral coinfection. <i>Chaos</i> , 2017, 27, 063109.	2.5	11
30	Modelling the emergence of influenza drug resistance: The roles of surface proteins, the immune response and antiviral mechanisms. <i>PLoS ONE</i> , 2017, 12, e0180582.	2.5	23
31	Coinfections of the Respiratory Tract: Viral Competition for Resources. <i>PLoS ONE</i> , 2016, 11, e0155589.	2.5	152
32	Differences in predictions of ODE models of tumor growth: a cautionary example. <i>BMC Cancer</i> , 2016, 16, 163.	2.6	118
33	A comparison of methods for extracting influenza viral titer characteristics. <i>Journal of Virological Methods</i> , 2016, 231, 14-24.	2.1	3
34	Assessing Uncertainty in A2 Respiratory Syncytial Virus Viral Dynamics. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-9.	1.3	29
35	Determining drug efficacy parameters for mathematical models of influenza. <i>Journal of Biological Dynamics</i> , 2015, 9, 332-346.	1.7	17
36	How Bad is it Doc? the Varying Predictions of ODE Cancer Growth Models. <i>Biophysical Journal</i> , 2015, 108, 312a.	0.5	0

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37	Assessing Mathematical Models of Influenza Infections Using Features of the Immune Response. PLoS ONE, 2013, 8, e57088.	2.5	96
38	Neuraminidase inhibitors for treatment of human and avian strain influenza: A comparative modeling study. Journal of Theoretical Biology, 2011, 269, 234-244.	1.7	42
39	Exploring Cell Tropism as a Possible Contributor to Influenza Infection Severity. PLoS ONE, 2010, 5, e13811.	2.5	30
40	Spatial heterogeneity of restitution properties and the onset of alternans. , 2009, 2009, 4186-9.		0
41	High-Resolution High-Speed Panoramic Cardiac Imaging System. IEEE Transactions on Biomedical Engineering, 2008, 55, 1241-1243.	4.2	11
42	Period-Doubling Bifurcation to Alternans in Paced Cardiac Tissue: Crossover from Smooth to Border-Collision Characteristics. Physical Review Letters, 2007, 99, 058101.	7.8	29
43	A Fiber-Based Ratiometric Optical Cardiac Mapping Channel Using a Diffraction Grating and Split Detector. Biophysical Journal, 2007, 93, 254-263.	0.5	6
44	The Restitution Portrait: A New Method for Investigating Rate-Dependent Restitution. Journal of Cardiovascular Electrophysiology, 2004, 15, 698-709.	1.7	101
45	Linear and nonlinear measures predict swimming in the leech. Physical Review E, 2000, 62, 4826-4834.	2.1	4