

Michael Y Li

List of Publications by Year in descending order

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46
papers

5,406
citations

159585

30
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254184

43
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46
docs citations

46
times ranked

2708
citing authors

#	ARTICLE	IF	CITATIONS
1	Global-stability problem for coupled systems of differential equations on networks. <i>Journal of Differential Equations</i> , 2010, 248, 1-20.	2.2	661
2	Global stability for the SEIR model in epidemiology. <i>Mathematical Biosciences</i> , 1995, 125, 155-164.	1.9	614
3	Global dynamics of a SEIR model with varying total population size. <i>Mathematical Biosciences</i> , 1999, 160, 191-213.	1.9	512
4	A Geometric Approach to Global-Stability Problems. <i>SIAM Journal on Mathematical Analysis</i> , 1996, 27, 1070-1083.	1.9	475
5	Why is it difficult to accurately predict the COVID-19 epidemic?. <i>Infectious Disease Modelling</i> , 2020, 5, 271-281.	1.9	467
6	A graph-theoretic approach to the method of global Lyapunov functions. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 2793-2802.	0.8	286
7	Global Dynamics of an SEIR Epidemic Model with Vertical Transmission. <i>SIAM Journal on Applied Mathematics</i> , 2001, 62, 58-69.	1.8	255
8	Mathematical analysis of the global dynamics of a model for HIV infection of CD4+ T cells. <i>Mathematical Biosciences</i> , 2006, 200, 44-57.	1.9	244
9	Global stability of multi-group epidemic models with distributed delays. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 361, 38-47.	1.0	171
10	Global Dynamics of an In-host Viral Model with Intracellular Delay. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1492-1505.	1.9	135
11	Impact of Intracellular Delays and Target-Cell Dynamics on In Vivo Viral Infections. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 2434-2448.	1.8	124
12	Global stability of an SEIS epidemic model with recruitment and a varying total population size. <i>Mathematical Biosciences</i> , 2001, 170, 199-208.	1.9	115
13	Hopf bifurcation analysis in a delayed Nicholson blowflies equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 60, 1351-1367.	1.1	113
14	Global dynamics of a mathematical model for HTLV-I infection of CD4+ T cells with delayed CTL response. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 1080-1092.	1.7	102
15	On R.A. Smith's Autonomous Convergence Theorem. <i>Rocky Mountain Journal of Mathematics</i> , 1995, 25, 365.	0.4	97
16	Global existence of periodic solutions in a tri-neuron network model with delays. <i>Physica D: Nonlinear Phenomena</i> , 2004, 198, 106-119.	2.8	91
17	Multiple Stable Periodic Oscillations in a Mathematical Model of CTL Response to HTLV-I Infection. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 1774-1793.	1.9	83
18	Global Dynamics of a General Class of Multistage Models for Infectious Diseases. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 261-279.	1.8	81

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19	Global dynamics of a staged progression model for infectious diseases. <i>Mathematical Biosciences and Engineering</i> , 2006, 3, 513-525.	1.9	80
20	Backward bifurcation in a model for HTLV-I infection of CD4 T cells. <i>Bulletin of Mathematical Biology</i> , 2005, 67, 101-114.	1.9	72
21	Mathematical analysis of the global dynamics of a model for HTLV-I infection and ATL progression. <i>Mathematical Biosciences</i> , 2002, 179, 207-217.	1.9	70
22	A Criterion for Stability of Matrices. <i>Journal of Mathematical Analysis and Applications</i> , 1998, 225, 249-264.	1.0	67
23	Multistability in a Model for CTL Response to HTLV-I Infection and Its Implications to HAM/TSP Development and Prevention. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 681-696.	1.9	53
24	Joint effects of mitosis and intracellular delay on viral dynamics: two-parameter bifurcation analysis. <i>Journal of Mathematical Biology</i> , 2012, 64, 1005-1020.	1.9	49
25	Backward bifurcation in a mathematical model for HIV infection in vivo with anti-retroviral treatment. <i>Nonlinear Analysis: Real World Applications</i> , 2014, 17, 147-160.	1.7	49
26	Global dynamics of a discrete age-structured SIR epidemic model with applications to measles vaccination strategies. <i>Mathematical Biosciences</i> , 2019, 308, 27-37.	1.9	48
27	Stable and transient periodic oscillations in a mathematical model for CTL response to HTLV-I infection. <i>Journal of Mathematical Biology</i> , 2012, 65, 181-199.	1.9	36
28	Backward bifurcation and sensitivity analysis for bacterial meningitis transmission dynamics with a nonlinear recovery rate. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110237.	5.1	35
29	Impact of network connectivity on the synchronization and global dynamics of coupled systems of differential equations. <i>Physica D: Nonlinear Phenomena</i> , 2014, 286-287, 32-42.	2.8	34
30	Modelling the Role of Tax Expression in HTLV-I Persistence in vivo. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 3008-3029.	1.9	33
31	Modeling the effects of carriers on transmission dynamics of infectious diseases. <i>Mathematical Biosciences and Engineering</i> , 2011, 8, 711-722.	1.9	31
32	Global dynamics of a staged-progression model with amelioration for infectious diseases. <i>Journal of Biological Dynamics</i> , 2008, 2, 154-168.	1.7	30
33	Global dynamics of an infinite dimensional epidemic model with nonlocal state structures. <i>Journal of Differential Equations</i> , 2018, 265, 5262-5296.	2.2	16
34	Global dynamics of a staged-progression model for HIV/AIDS with amelioration. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 2529-2540.	1.7	13
35	R_0 and sensitivity analysis of a predator-prey model with seasonality and maturation delay. <i>Mathematical Biosciences</i> , 2019, 315, 108225.	1.9	10
36	Nonpharmaceutical interventions contribute to the control of COVID-19 in China based on a pairwise model. <i>Infectious Disease Modelling</i> , 2021, 6, 643-663.	1.9	9

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37	Epidemic models with discrete state structures. <i>Physica D: Nonlinear Phenomena</i> , 2021, 422, 132903.	2.8	8
38	Global Hopf Bifurcation Analysis of a Nicholson's Blowflies Equation of Neutral Type. <i>Journal of Dynamics and Differential Equations</i> , 2014, 26, 165-179.	1.9	7
39	Modeling brain lentiviral infections during antiretroviral therapy in AIDS. <i>Journal of NeuroVirology</i> , 2017, 23, 577-586.	2.1	7
40	Global Hopf branches and multiple limit cycles in a delayed Lotka-Volterra predator-prey model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014, 19, 747-760.	0.9	6
41	Modeling the Effects of Latency Reversing Drugs During HIV-1 and SIV Brain Infection with Implications for the "Shock and Kill" Strategy. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 39.	1.9	5
42	Global Lyapunov functions and a hierarchical control scheme for networks of robotic agents. , 2013, , .		4
43	Modeling Rabies Transmission in Spatially Heterogeneous Environments via θ -diffusion. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 16.	1.9	4
44	The Impact of Quarantine and Medical Resources on the Control of COVID-19 in Wuhan based on a Household Model. <i>Bulletin of Mathematical Biology</i> , 2022, 84, 47.	1.9	3
45	On the basic reproduction number in semi-Markov switching networks. <i>Journal of Biological Dynamics</i> , 2021, 15, 73-85.	1.7	1
46	Large-Scale Epidemic Models and a Graph-Theoretic Method for Constructing Lyapunov Functions. <i>Mathematics of Planet Earth</i> , 2019, , 63-98.	0.1	0