Joydev Chattopadhyay

List of Publications by Year
in descending order

15 papers	577 citations	840776 11 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	664 citing authors

#	Article	IF	Citations
1	Zoonotic MERS-CoV transmission: modeling, backward bifurcation and optimal control analysis. Nonlinear Dynamics, 2021, 103, 2973-2992.	5.2	1
2	Impact of intervention on the spread of COVID-19 in India: A model based study. Journal of Theoretical Biology, 2021, 523, 110711.	1.7	33
3	Short-term predictions and prevention strategies for COVID-19: A model-based study. Applied Mathematics and Computation, 2021, 404, 126251.	2.2	60
4	Occurrence of backward bifurcation and prediction of disease transmission with imperfect lockdown: A case study on COVID-19. Chaos, Solitons and Fractals, 2020, 140, 110163.	5.1	40
5	Assessment of lockdown effect in some states and overall India: A predictive mathematical study on COVID-19 outbreak. Chaos, Solitons and Fractals, 2020, 139, 110078.	5.1	151
6	A realistic two-strain model for MERS-CoV infection uncovers the high risk for epidemic propagation. PLoS Neglected Tropical Diseases, 2020, 14, e0008065.	3.0	27
7	Cooperative predation on mutualistic prey communities. Journal of Theoretical Biology, 2020, 490, 110156.	1.7	10
8	Dynamical study of fractional order differential equations of predatorâ€pest models. Mathematical Methods in the Applied Sciences, 2019, 42, 4225-4243.	2.3	7
9	Hunting Cooperation in a Discrete-Time Predatorâ€"Prey System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850083.	1.7	34
10	A PREDATOR-PEST MODEL WITH ALLEE EFFECT AND PEST CULLING AND ADDITIONAL FOOD PROVISION TO THE PREDATOR â€" APPLICATION TO PEST CONTROL. Journal of Biological Systems, 2017, 25, 295-326.	1.4	21
11	Exploring the role of GSâ€"GOGAT cycle in microcystin synthesis and regulation â€" a model based analysis. Molecular BioSystems, 2017, 13, 2603-2614.	2.9	5
12	Revisited Fisherâ€™s equation in a new outlook: A fractional derivative approach. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 81-93.	2.6	38
13	A mathematical model of dengue transmission with memory. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 511-525.	3.3	96
14	Paradox of enrichment: A fractional differential approach with memory. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3610-3621.	2.6	26
15	An Optimal Cost Effectiveness Study on Zimbabwe Cholera Seasonal Data from 2008â€"2011. PLoS ONE, 2013, 8, e81231.	2.5	28