

# Joydev Chattopadhyay

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7403841/publications.pdf>

Version: 2024-02-01

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