Debadatta Adak

List of Publications by Year
in descending order

17 papers	258 citations	933447 10 h-index	996975 15 g-index
19 all docs	19 docs citations	19 times ranked	193 citing authors

#	Article	IF	Citations
1	Global analysis of HIV-1 dynamics with Hill type infection rate and intracellular delay. Applied Mathematical Modelling, 2014, 38, 5047-5066.	4.2	39
2	Mathematical perspective of Covid-19 pandemic: Disease extinction criteria in deterministic and stochastic models. Chaos, Solitons and Fractals, 2021, 142, 110381.	5.1	31
3	Analysis and computation of multi-pathways and multi-delays HIV-1 infection model. Applied Mathematical Modelling, 2018, 54, 517-536.	4.2	25
4	Phytoplankton-zooplankton interaction under environmental stochasticity: Survival, extinction and stability. Applied Mathematical Modelling, 2021, 89, 1382-1404.	4.2	24
5	Chaos in delay-induced Leslie–Gower prey–predator–parasite model and its control through prey harvesting. Nonlinear Analysis: Real World Applications, 2020, 51, 102998.	1.7	23
6	Complex dynamics of a predator–prey–parasite system: An interplay among infection rate, predator's reproductive gain and preference. Ecological Complexity, 2015, 22, 1-12.	2.9	19
7	Complexity in a predator-prey-parasite model with nonlinear incidence rate and incubation delay. Chaos, Solitons and Fractals, 2015, 81, 271-289.	5.1	18
8	Switching from simple to complex dynamics in a predator–prey–parasite model: An interplay between infection rate and incubation delay. Mathematical Biosciences, 2016, 277, 1-14.	1.9	15
9	Bifurcation analysis of a multidelayed HIV model in presence of immune response and understanding of in‐host viral dynamics. Mathematical Methods in the Applied Sciences, 2019, 42, 4256-4272.	2.3	13
10	Dynamics of cytotoxic T-lymphocytes and helper cells in human immunodeficiency virus infection with Hill-type infection rate and sigmoidal CTL expansion. Chaos, Solitons and Fractals, 2017, 103, 52-67.	5.1	11
11	Optimal control in a multi-pathways HIV-1 infection model: a comparison between mono-drug and multi-drug therapies. International Journal of Control, 2021, 94, 2047-2064.	1.9	8
12	Persistence and extinction of species in a disease-induced ecological system under environmental stochasticity. Physical Review E, 2021, 103, 032412.	2.1	7
13	Mitigating the transmission of infection and death due to SARS-CoV-2 through non-pharmaceutical interventions and repurposing drugs. ISA Transactions, 2022, 124, 236-246.	5.7	7
14	HOW SELF-PROLIFERATION OF CD4$^+$T CELLS AFFECT THE HIV DYNAMICS IN AN IN-HOST TARGET-CELL LIMITED HIV MODEL WITH SATURATION INFECTION RATE: A QUASI-STEADY-STATE APPROXIMATION ANALYSIS. International Journal of Biomathematics, 2013, 06, 1350004.	2.9	4
15	Persistence and extinction criteria of Covid-19 pandemic: India as a case study. Stochastic Analysis and Applications, 2022, 40, 179-208.	1.5	4
16	Role of precautionary measures in HIV epidemics: A mathematical assessment. International Journal of Biomathematics, 2016, 09, 1650096.	2.9	2
17	Accounting for multi-delay effects in an HIV-1 infection model with saturated infection rate, recovery and proliferation of host cells. Biomath, 2020, 9, .	0.7	1