

Amar Nath Chatterjee

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

340
citations

933447

10
h-index

839539

18
g-index

27
all docs

27
docs citations

27
times ranked

126
citing authors

#	ARTICLE	IF	CITATIONS
1	Long term dynamics in a mathematical model of HIV-1 infection with delay in different variants of the basic drug therapy model. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 1621-1633.	1.7	52
2	A fractional-order differential equation model of COVID-19 infection of epithelial cells. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110952.	5.1	41
3	SARS-CoV-2 infection with lytic and non-lytic immune responses: A fractional order optimal control theoretical study. <i>Results in Physics</i> , 2021, 26, 104260.	4.1	40
4	Anti-viral drug treatment along with immune activator IL-2: a control-based mathematical approach for HIV infection. <i>International Journal of Control</i> , 2012, 85, 220-237.	1.9	34
5	A Model for SARS-CoV-2 Infection with Treatment. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-11.	1.3	34
6	Dynamical demeanour of SARS-CoV-2 virus undergoing immune response mechanism in COVID-19 pandemic. <i>European Physical Journal: Special Topics</i> , 2022, 231, 3357-3370.	2.6	21
7	Optimal control strategies of non-pharmaceutical and pharmaceutical interventions for COVID-19 control. <i>Journal of Interdisciplinary Mathematics</i> , 2021, 24, 125-153.	0.7	18
8	A MATHEMATICAL MODEL ON CTL MEDIATED CONTROL OF HIV INFECTION IN A LONG-TERM DRUG THERAPY. <i>Journal of Biological Systems</i> , 2013, 21, 1350019.	1.4	14
9	Mathematical Modeling and Control of the Cell Dynamics in Leprosy. <i>Computational Mathematics and Modeling</i> , 2021, 32, 52-74.	0.5	13
10	A Fractional-Order Compartmental Model of Vaccination for COVID-19 with the Fear Factor. <i>Mathematics</i> , 2022, 10, 1451.	2.2	12
11	Effect of DAA therapy in hepatitis C treatment – an impulsive control approach. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 1450-1464.	1.9	11
12	Human immunodeficiency virus/acquired immune deficiency syndrome: Using drug from mathematical perspective. <i>World Journal of Virology</i> , 2015, 4, 356.	2.9	10
13	The effect of vaccination to dendritic cell and immune cell interaction in HIV disease progression. <i>International Journal of Biomathematics</i> , 2016, 09, 1650005.	2.9	8
14	Effect of an antiviral drug control and its variable order fractional network in host COVID-19 kinetics. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1915-1929.	2.6	8
15	Smoking habit: a bio mathematical study. <i>Communications in Mathematical Biology and Neuroscience</i> , 0, , .	0.0	2
16	The Effect of Pulse Vaccination on the Transmission Dynamics of Rotavirus Diarrhea. <i>Journal of Chemical Environmental and Biological Engineering</i> , 2018, 2, 26.	0.2	1
17	Modelling of contact tracing in determining critical community size for infectious diseases. <i>Chaos, Solitons and Fractals</i> , 2022, 159, 112141.	5.1	1
18	Role of immune effector responses during HCV infection: a mathematical study. , 2022, , 231-245.		1

#	ARTICLE	IF	CITATIONS
19	Reduction of HIV Infection that Includes a Delay with Cure Rate During Long Term Treatment: A Mathematical Study. Lecture Notes in Electrical Engineering, 2011, , 699-713.	0.4	0
20	Immune Cell Response to Negative Feedback Effect on HIV. Biomedical Engineering Research, 2013, , 37-47.	0.2	0
21	The effect of immune responses in HCV disease progression. Engineering Mathematics Letters, 0, , .	0.0	0
22	A model analysis to measure the adherence of Etanercept and Fezakinumab therapy for the treatment of psoriasis. Nonlinear Analysis: Modelling and Control, 0, 27, 1-21.	1.6	0