Stanca M Ciupe

List of Publications by Year
in descending order

34 papers	787 citations	623734 14 h-index	526287 27 g-index
38 all docs	38 docs citations	38 times ranked	746 citing authors

#	Article	IF	Citations
1	Modeling the mechanisms of acute hepatitis B virus infection. Journal of Theoretical Biology, 2007, 247, 23-35.	1.7	166
2	The role of cells refractory to productive infection in acute hepatitis B viral dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5050-5055.	7.1	101
3	Antibody Responses during Hepatitis B Viral Infection. PLoS Computational Biology, 2014, 10, e1003730.	3.2	60
4	The role of antibody in enhancing dengue virus infection. Mathematical Biosciences, 2015, 263, 83-92.	1.9	57
5	In-host modeling. Infectious Disease Modelling, 2017, 2, 188-202.	1.9	45
6	Modeling the dynamics of hepatitis B infection, immunity, and drug therapy. Immunological Reviews, 2018, 285, 38-54.	6.0	31
7	Modeling the Mechanisms by Which HIV-Associated Immunosuppression Influences HPV Persistence at the Oral Mucosa. PLoS ONE, 2017, 12, e0168133.	2.5	29
8	Modelling original antigenic sin in dengue viral infection. Mathematical Medicine and Biology, 2018, 35, 257-272.	1.2	25
9	Optimal Control of Drug Therapy in a Hepatitis B Model. Applied Sciences (Switzerland), 2016, 6, 219.	2.5	23
10	The Dynamics of T-Cell Receptor Repertoire Diversity Following Thymus Transplantation for DiGeorge Anomaly. PLoS Computational Biology, 2009, 5, e1000396.	3.2	22
11	Quantification of total T-cell receptor diversity by flow cytometry and spectratyping. BMC Immunology, 2013, 14, 35.	2.2	21
12	Quantification of the Tradeoff between Test Sensitivity and Test Frequency in a COVID-19 Epidemicâ€”A Multi-Scale Modeling Approach. Viruses, 2021, 13, 457.	3.3	21
13	Multi-scale immunoepidemiological modeling of within-host and between-host HIV dynamics: systematic review of mathematical models. PeerJ, 2017, 5, e3877.	2.0	21
14	Dynamics of Hepatitis B Virus Infection: What Causes Viral Clearance?. Mathematical Population Studies, 2011, 18, 87-105.	2.2	18
15	Mathematical Models of E-Antigen Mediated Immune Tolerance and Activation following Prenatal HBV Infection. PLoS ONE, 2012, 7, e39591.	2.5	16
16	Understanding the antiviral effects of RNAi-based therapy in HBeAg-positive chronic hepatitis B infection. Scientific Reports, 2021, 11, 200.	3.3	15
17	Paradoxical suppression of poly-specific broadly neutralizing antibodies in the presence of strain-specific neutralizing antibodies following HIV infection. Journal of Theoretical Biology, 2011, 277, 55-66.	1.7	13
18	Unraveling within-host signatures of dengue infection at the population level. Journal of Theoretical Biology, 2018, 446, 79-86.	1.7	12

#	Article	IF	Citations
19	Understanding virusâ€“host dynamics following EIAV infection in SCID horses. Journal of Theoretical Biology, 2014, 343, 1-8.	1.7	9
20	A Bistable Switch in Virus Dynamics Can Explain the Differences in Disease Outcome Following SIV Infections in Rhesus Macaques. Frontiers in Microbiology, 2018, 9, 1216.	3.5	9
21	Mathematical model of multivalent virusâ€“antibody complex formation in humans following acute and chronic HIV infections. Journal of Mathematical Biology, 2015, 71, 513-532.	1.9	8
22	Understanding the Complex Patterns Observed during Hepatitis B Virus Therapy. Viruses, 2017, 9, 117.	3.3	8
23	Modeling the Bistable Dynamics of the Innate Immune System. Bulletin of Mathematical Biology, 2019, 81, 256-276.	1.9	8
24	Pathogenesis and shedding of Usutu virus in juvenile chickens. Emerging Microbes and Infections, 2021, 10, 725-738.	6.5	7
25	Modeling the Influence of Vaccine Administration on COVID-19 Testing Strategies. Viruses, 2021, 13, 2546.	3.3	7
26	Latently Infected Cell Activation: A Way to Reduce the Size of the HIV Reservoir?. Bulletin of Mathematical Biology, 2012, 74, 1651-1672.	1.9	6
27	Mathematical investigation of HBeAg seroclearance. Mathematical Biosciences and Engineering, 2019, 16, 7616-7658.	1.9	6
28	Early events in hepatitis B infection: the role of inoculum dose. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202715.	2.6	4
29	Germinal center dynamics during acute and chronic infection. Mathematical Biosciences and Engineering, 2017, 14, 655-671.	1.9	4
30	Mathematical model of broadly reactive plasma cell production. Scientific Reports, 2020, 10, 3935.	3.3	3
31	Modeling the dynamics of Usutu virus infection in birds. Journal of Theoretical Biology, 2021, 531, 110896.	1.7	3
32	Editorial: Integrative Computational Systems Biology Approaches in Immunology and Medicine. Frontiers in Microbiology, 2019, 9, 3338.	3.5	1
33	Bistable Mathematical Model of Neutrophil Migratory Patterns After LPS-Induced Epigenetic Reprogramming. Frontiers in Genetics, 2021, 12, 633963.	2.3	1
34	Virus Dynamics. , 2021, , 245-261.		0