Ashish Goyal

List of Publications by Year
in descending order

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39	778	840585 11	642610 23
papers	citations	h-index	g-index

45	45	45	1167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Viral load and contact heterogeneity predict SARS-CoV-2 transmission and super-spreading events. ELife, 2021, 10, .	2.8	142
2	Potency and timing of antiviral therapy as determinants of duration of SARS-CoV-2 shedding and intensity of inflammatory response. Science Advances, 2020, 6, .	4.7	128
3	The Impact of Vaccination and Antiviral Therapy on Hepatitis B and Hepatitis D Epidemiology. PLoS ONE, 2014, 9, e110143.	1.1	46
4	No recovery of replication-competent HIV-1 from human liver macrophages. Journal of Clinical Investigation, 2018, 128, 4501-4509.	3.9	41
5	In silico single cell dynamics of hepatitis B virus infection and clearance. Journal of Theoretical Biology, 2015, 366, 91-102.	0.8	39
6	Modelling the Impact of Cell-To-Cell Transmission in Hepatitis B Virus. PLoS ONE, 2016, 11, e0161978.	1.1	29
7	Within-host mathematical models of hepatitis B virus infection: Past, present, and future. Current Opinion in Systems Biology, 2019, 18, 27-35.	1.3	28
8	Modeling HCV cure after an ultra-short duration of therapy with direct acting agents. Antiviral Research, 2017, 144, 281-285.	1.9	26
9	The Role of Infected Cell Proliferation in the Clearance of Acute HBV Infection in Humans. Viruses, 2017, 9, 350.	1.5	25
10	Suppression of hepatitis B virus through therapeutic activation of RIG-I and IRF3 signaling in hepatocytes. IScience, 2021, 24, 101969.	1.9	17
11	Slight reduction in SARS-CoV-2 exposure viral load due to masking results in a significant reduction in transmission with widespread implementation. Scientific Reports, 2021, 11, 11838.	1.6	17
12	Multi-scale modelling reveals that early super-spreader events are a likely contributor to novel variant predominance. Journal of the Royal Society Interface, 2022, 19, 20210811.	1.5	16
13	The dynamics of integration, viral suppression and cell-cell transmission in the development of occult Hepatitis B virus infection. Journal of Theoretical Biology, 2018, 455, 269-280.	0.8	14
14	Roadmap to control HBV and HDV epidemics in China. Journal of Theoretical Biology, 2017, 423, 41-52.	0.8	12
15	Mathematical Modeling of Vaccines That Prevent SARS-CoV-2 Transmission. Viruses, 2021, 13, 1921.	1.5	10
16	Modeling the desalination of saline water by using bacteria and marsh plants. Desalination, 2011, 277, 113-120.	4.0	8
17	Role of technology in combating social crimes: A modeling study. European Journal of Applied Mathematics, 2013, 24, 501-514.	1.4	8
18	Recognizing the impact of endemic hepatitis D virus on hepatitis B virus eradication. Theoretical Population Biology, 2016, 112, 60-69.	0.5	7

#	Article	IF	Citations
19	Modeling explains prolonged SARS-CoV-2 nasal shedding relative to lung shedding in remdesivir-treated rhesus macaques. IScience, 2022, 25, 104448.	1.9	7
20	MODELING AND ANALYSIS OF THE DEPLETION OF ORGANIC POLLUTANTS BY BACTERIA WITH EXPLICIT DEPENDENCE ON DISSOLVED OXYGEN. Natural Resource Modelling, 2014, 27, 258-273.	0.8	6
21	Cost-Effectiveness of Peg-Interferon, Interferon and Oral Nucleoside Analogues in the Treatment of Chronic Hepatitis B and D Infections in China. Clinical Drug Investigation, 2016, 36, 637-648.	1.1	6
22	HIV influences clustering and intracellular replication of hepatitis C virus. Journal of Viral Hepatitis, 2021, 28, 334-344.	1.0	6
23	Machine learning for mathematical models of HCV kinetics during antiviral therapy. Mathematical Biosciences, 2022, 343, 108756.	0.9	6
24	Tobacco epidemics: Effect of marketing bans and awareness programs on its spread. Applied Mathematics and Computation, 2014, 247, 1030-1051.	1.4	5
25	Modeling and analysis of the removal of an organic pollutant from a water body using fungi. Applied Mathematical Modelling, 2014, 38, 4863-4871.	2.2	5
26	Dynamics of in vivo hepatitis D virus infection. Journal of Theoretical Biology, 2016, 398, 9-19.	0.8	5
27	Endogenously Produced SARS-CoV-2 Specific IgG Antibodies May Have a Limited Impact on Clearing Nasal Shedding of Virus during Primary Infection in Humans. Viruses, 2021, 13, 516.	1.5	5
28	MODELING THE ROLE OF DISSOLVED OXYGEN-DEPENDENT BACTERIA ON BIODEGRADATION OF ORGANIC POLLUTANTS. International Journal of Biomathematics, 2014, 07, 1450008.	1.5	4
29	Effects of habitat characteristics on the growth of carrier population leading to increased spread of typhoid fever: A model. Journal of Epidemiology and Global Health, 2014, 4, 107.	1.1	4
30	Effect of interferonâ€alpha therapy on hepatitis D virus. Hepatology, 2015, 61, 2117-2118.	3.6	4
31	A modeling study on the role of fungi in removing inorganic pollutants. Mathematical Biosciences, 2013, 244, 116-124.	0.9	3
32	Modeling the role of government efforts in controlling extremism in a society. Mathematical Methods in the Applied Sciences, 2015, 38, 4300-4316.	1.2	3
33	Can methane oxidising bacteria reduce global warming? A modelling study. International Journal of Global Warming, 2018, 15, 82.	0.2	3
34	Modeling-based response-guided DAA therapy for chronic hepatitis C to identify individuals for shortening treatment duration. Open Forum Infectious Diseases, 2022, 9, ofac157.	0.4	2
35	Screening for hepatitis D and PEG-Interferon over Tenofovir enhance general hepatitis control efforts in Brazil. PLoS ONE, 2018, 13, e0203831.	1.1	1
36	Modeling reveals no direct role of the extent of HBV DNA integrations on the outcome of infection. Journal of Theoretical Biology, 2021, 526, 110793.	0.8	1

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37	Antiretroviral therapy for HIV and intrahepatic hepatitis C virus replication. Aids, 2021, Publish Ahead of Print, .	1.0	1
38	Estimation of the in vivo neutralization potency of eCD4Ig and conditions for AAV-mediated production for SHIV long-term remission. Science Advances, 2022, 8, eabj5666.	4.7	1
39	A model on the biological treatment of saline wastewater. International Journal of Biomathematics, 2017, 10, 1750021.	1.5	0