Ashish Goyal

List of Publications by Year in Descending Order

43 papers	**428** citations	**11** h-index	**19** g-index
45 ext. papers	**642** ext. citations	**4.8** avg, IF	**4.67** L-index

#	Paper	IF	Citations
43	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	14.3	
42	Modeling-Based Response-Guided DAA Therapy for Chronic Hepatitis C to Identify Individuals for Shortening Treatment Duration.. *Open Forum Infectious Diseases*, **2022**, 9, ofac157	1	1
41	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	4.1	0
40	Machine learning for mathematical models of HCV kinetics during antiviral therapy. *Mathematical Biosciences*, **2021**, 108756	3.9	2
39	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,	6.2	3
38	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	4.9	6
37	HIV influences clustering and intracellular replication of hepatitis C virus. *Journal of Viral Hepatitis*, **2021**, 28, 334-344	3.4	2
36	Suppression of hepatitis B virus through therapeutic activation of RIG-I and IRF3 signaling in hepatocytes. *IScience*, **2021**, 24, 101969	6.1	5
35	Viral load and contact heterogeneity predict SARS-CoV-2 transmission and super-spreading events. *ELife*, **2021**, 10,	8.9	52
34	Mathematical Modeling of Vaccines That Prevent SARS-CoV-2 Transmission. *Viruses*, **2021**, 13,	6.2	3
33	Modeling reveals no direct role of the extent of HBV DNA integrations on the outcome of infection. *Journal of Theoretical Biology*, **2021**, 526, 110793	2.3	
32	Wrong person, place and time: viral load and contact network structure predict SARS-CoV-2 transmission and super-spreading events **2020**,		26
31	Potency and timing of antiviral therapy as determinants of duration of SARS-CoV-2 shedding and intensity of inflammatory response. *Science Advances*, **2020**, 6,	14.3	66
30	Within-host mathematical models of hepatitis B virus infection: Past, present, and future. *Current Opinion in Systems Biology*, **2019**, 18, 27-35	3.2	11
29	No recovery of replication-competent HIV-1 from human liver macrophages. *Journal of Clinical Investigation*, **2018**, 128, 4501-4509	15.9	22
28	Can methane oxidising bacteria reduce global warming? A modelling study. *International Journal of Global Warming*, **2018**, 15, 82	0.6	1
27	Screening for hepatitis D and PEG-Interferon over Tenofovir enhance general hepatitis control efforts in Brazil. *PLoS ONE*, **2018**, 13, e0203831	3.7	0

26	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	2.3	7
25	Roadmap to control HBV and HDV epidemics in China. *Journal of Theoretical Biology*, **2017**, 423, 41-52	2.3	7
24	Modeling HCV cure after an ultra-short duration of therapy with direct acting agents. *Antiviral Research*, **2017**, 144, 281-285	10.8	22
23	A model on the biological treatment of saline wastewater. *International Journal of Biomathematics*, **2017**, 10, 1750021	1.8	
22	The Role of Infected Cell Proliferation in the Clearance of Acute HBV Infection in Humans. *Viruses*, **2017**, 9,	6.2	17
21	Dynamics of in vivo hepatitis D virus infection. *Journal of Theoretical Biology*, **2016**, 398, 9-19	2.3	4
20	Modelling the Impact of Cell-To-Cell Transmission in Hepatitis B Virus. *PLoS ONE*, **2016**, 11, e0161978	3.7	21
19	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, 637-48	3.2	4
18	Recognizing the impact of endemic hepatitis D virus on hepatitis B virus eradication. *Theoretical Population Biology*, **2016**, 112, 60-69	1.2	5
17	Effect of interferon-alpha therapy on hepatitis D virus. *Hepatology*, **2015**, 61, 2117-8	11.2	4
16	In silico single cell dynamics of hepatitis B virus infection and clearance. *Journal of Theoretical Biology*, **2015**, 366, 91-102	2.3	27
15	Modeling the role of government efforts in controlling extremism in a society. *Mathematical Methods in the Applied Sciences*, **2015**, 38, 4300-4316	2.3	2
14	MODELING AND ANALYSIS OF THE DEPLETION OF ORGANIC POLLUTANTS BY BACTERIA WITH EXPLICIT DEPENDENCE ON DISSOLVED OXYGEN. *Natural Resource Modelling*, **2014**, 27, 258-273	1.2	5
13	Modeling and analysis of the removal of an organic pollutant from a water body using fungi. *Applied Mathematical Modelling*, **2014**, 38, 4863-4871	4.5	5
12	MODELING THE ROLE OF DISSOLVED OXYGEN-DEPENDENT BACTERIA ON BIODEGRADATION OF ORGANIC POLLUTANTS. *International Journal of Biomathematics*, **2014**, 07, 1450008	1.8	4
11	Tobacco epidemics: Effect of marketing bans and awareness programs on its spread. *Applied Mathematics and Computation*, **2014**, 247, 1030-1051	2.7	4
10	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, 107-14	5.5	3
9	The impact of vaccination and antiviral therapy on hepatitis B and hepatitis D epidemiology. *PLoS ONE*, **2014**, 9, e110143	3.7	34

8	A modeling study on the role of fungi in removing inorganic pollutants. *Mathematical Biosciences*, **2013**, 244, 116-24	3.9	3
7	Role of technology in combating social crimes: A modeling study. *European Journal of Applied Mathematics*, **2013**, 24, 501-514	1	5
6	Modeling the desalination of saline water by using bacteria and marsh plants. *Desalination*, **2011**, 277, 113-120	10.3	5
5	Potency and timing of antiviral therapy as determinants of duration of SARS CoV-2 shedding and intensity of inflammatory response		21
4	Mathematical modeling explains differential SARS CoV-2 kinetics in lung and nasal passages in remdesivir treated rhesus macaques		7
3	Slight reduction in SARS-CoV-2 exposure viral load due to masking results in a significant reduction in transmission with widespread implementation		4
2	Vaccines that prevent SARS-CoV-2 transmission may prevent or dampen a spring wave of COVID-19 cases and deaths in 2021		4
1	Early super-spreader events are a likely determinant of novel SARS-CoV-2 variant predominance		4