

Houssein Ayoub

List of Publications by Citations

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76
papers

1,612
citations

21
h-index

38
g-index

83
ext. papers

3,559
ext. citations

13.7
avg, IF

5.13
L-index

#	Paper	IF	Citations
76	Waning of BNT162b2 Vaccine Protection against SARS-CoV-2 Infection in Qatar. <i>New England Journal of Medicine</i> , 2021 , 385, e83	59.2	226
75	mRNA-1273 COVID-19 vaccine effectiveness against the B.1.1.7 and B.1.351 variants and severe COVID-19 disease in Qatar. <i>Nature Medicine</i> , 2021 , 27, 1614-1621	50.5	144
74	BNT162b2 and mRNA-1273 COVID-19 vaccine effectiveness against the SARS-CoV-2 Delta variant in Qatar. <i>Nature Medicine</i> , 2021 ,	50.5	104
73	Assessment of the Risk of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Reinfection in an Intense Reexposure Setting. <i>Clinical Infectious Diseases</i> , 2021 , 73, e1830-e1840	11.6	99
72	SARS-CoV-2 antibody-positivity protects against reinfection for at least seven months with 95% efficacy. <i>EClinicalMedicine</i> , 2021 , 35, 100861	11.3	77
71	Characterizing the Qatar advanced-phase SARS-CoV-2 epidemic. <i>Scientific Reports</i> , 2021 , 11, 6233	4.9	57
70	Protection against the Omicron Variant from Previous SARS-CoV-2 Infection.. <i>New England Journal of Medicine</i> , 2022 ,	59.2	52
69	Epidemiological Impact of SARS-CoV-2 Vaccination: Mathematical Modeling Analyses. <i>Vaccines</i> , 2020 , 8,	5.3	51
68	Impact of treatment on hepatitis C virus transmission and incidence in Egypt: A case for treatment as prevention. <i>Journal of Viral Hepatitis</i> , 2017 , 24, 486-495	3.4	46
67	Association of Prior SARS-CoV-2 Infection With Risk of Breakthrough Infection Following mRNA Vaccination in Qatar. <i>JAMA - Journal of the American Medical Association</i> , 2021 , 326, 1930-1939	27.4	45
66	Characterizing the transitioning epidemiology of herpes simplex virus type 1 in the USA: model-based predictions. <i>BMC Medicine</i> , 2019 , 17, 57	11.4	41
65	Mathematical modeling of the SARS-CoV-2 epidemic in Qatar and its impact on the national response to COVID-19. <i>Journal of Global Health</i> , 2021 , 11, 05005	4.3	40
64	Herd Immunity against Severe Acute Respiratory Syndrome Coronavirus 2 Infection in 10 Communities, Qatar. <i>Emerging Infectious Diseases</i> , 2021 , 27, 1343-1352	10.2	38
63	Assessment of the risk of SARS-CoV-2 reinfection in an intense re-exposure setting		36
62	Effect of mRNA Vaccine Boosters against SARS-CoV-2 Omicron Infection in Qatar.. <i>New England Journal of Medicine</i> , 2022 ,	59.2	36
61	Pfizer-BioNTech mRNA BNT162b2 Covid-19 vaccine protection against variants of concern after one versus two doses. <i>Journal of Travel Medicine</i> , 2021 , 28,	12.9	33
60	BNT162b2 and mRNA-1273 COVID-19 vaccine effectiveness against the Delta (B.1.617.2) variant in Qatar		32

59	Age could be driving variable SARS-CoV-2 epidemic trajectories worldwide. <i>PLoS ONE</i> , 2020 , 15, e02379597	24
58	Effects of Previous Infection and Vaccination on Symptomatic Omicron Infections. <i>New England Journal of Medicine</i> ,	59.2 24
57	Waning of BNT162b2 vaccine protection against SARS-CoV-2 infection in Qatar	22
56	SARS-CoV-2 infection hospitalization, severity, criticality, and fatality rates in Qatar. <i>Scientific Reports</i> , 2021 , 11, 18182	4.9 22
55	Characterizing the Qatar advanced-phase SARS-CoV-2 epidemic	21
54	Characterizing the temporal evolution of the hepatitis C virus epidemic in Pakistan. <i>Journal of Viral Hepatitis</i> , 2018 , 25, 670-679	3.4 20
53	SARS-CoV-2 reinfection in a cohort of 43,000 antibody-positive individuals followed for up to 35 weeks	20
52	Introduction and expansion of the SARS-CoV-2 B.1.1.7 variant and reinfections in Qatar: A nationally representative cohort study.. <i>PLoS Medicine</i> , 2021 , 18, e1003879	11.6 19
51	Characterizing key attributes of COVID-19 transmission dynamics in China's original outbreak: Model-based estimations. <i>Global Epidemiology</i> , 2020 , 2, 100042	2.3 17
50	Epidemiological impact of SARS-CoV-2 vaccination: mathematical modeling analyses	17
49	Epidemiological impact of prioritising SARS-CoV-2 vaccination by antibody status: mathematical modelling analyses. <i>BMJ Innovations</i> , 2021 , 7, 327-336	1.8 15
48	Hepatitis C virus infection spontaneous clearance: Has it been underestimated?. <i>International Journal of Infectious Diseases</i> , 2018 , 75, 60-66	10.5 15
47	Relative infectiousness of SARS-CoV-2 vaccine breakthrough infections, reinfections, and primary infections.. <i>Nature Communications</i> , 2022 , 13, 532	17.4 13
46	SARS-CoV-2 infection hospitalization, severity, criticality, and fatality rates	12
45	Duration of mRNA vaccine protection against SARS-CoV-2 Omicron BA.1 and BA.2 subvariants in Qatar. <i>Nature Communications</i> , 2022 , 13,	17.4 12
44	Characterizing key attributes of the epidemiology of COVID-19 in China: Model-based estimations	11
43	Evidence for and level of herd immunity against SARS-CoV-2 infection: the ten-community study	10
42	Treatment as prevention for hepatitis C virus in Pakistan: mathematical modelling projections. <i>BMJ Open</i> , 2019 , 9, e026600	3 10

41	Vulnerability of Syrian refugees in Lebanon to COVID-19: quantitative insights. <i>Conflict and Health</i> , 2021 , 15, 13	4	9
40	Epidemiological Differences in the Impact of COVID-19 Vaccination in the United States and China. <i>Vaccines</i> , 2021 , 9,	5.3	9
39	Protection afforded by the BNT162b2 and mRNA-1273 COVID-19 vaccines in fully vaccinated cohorts with and without prior infection		9
38	Protection afforded by prior infection against SARS-CoV-2 reinfection with the Omicron variant		8
37	Severity, criticality, and fatality of the SARS-CoV-2 Beta variant. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	8
36	Mathematical modeling of the SARS-CoV-2 epidemic in Qatar and its impact on the national response to COVID-19		8
35	Characterizing the historical role of parenteral antischistosomal therapy in hepatitis C virus transmission in Egypt. <i>International Journal of Epidemiology</i> , 2020 , 49, 798-809	7.8	7
34	Duration of protection of BNT162b2 and mRNA-1273 COVID-19 vaccines against symptomatic SARS-CoV-2 Omicron infection in Qatar		6
33	Age could be driving variable SARS-CoV-2 epidemic trajectories worldwide		6
32	Epidemiological Impact of Novel Preventive and Therapeutic HSV-2 Vaccination in the United States: Mathematical Modeling Analyses. <i>Vaccines</i> , 2020 , 8,	5.3	6
31	Protection of Omicron sub-lineage infection against reinfection with another Omicron sub-lineage		6
30	Estimates of global SARS-CoV-2 infection exposure, infection morbidity, and infection mortality rates in 2020. <i>Global Epidemiology</i> , 2021 , 3, 100068	2.3	5
29	Effect of vaccination and of prior infection on infectiousness of vaccine breakthrough infections and reinfections		5
28	Duration of mRNA vaccine protection against SARS-CoV-2 Omicron BA.1 and BA.2 subvariants in Qatar		5
27	Forecasting the impact of diabetes mellitus on tuberculosis disease incidence and mortality in India. <i>Journal of Global Health</i> , 2019 , 9, 020415	4.3	4
26	Estimating protection afforded by prior infection in preventing reinfection: Applying the test-negative study design		4
25	Epidemiological impact of prioritizing SARS-CoV-2 vaccination by antibody status: Mathematical modeling analyses		4
24	Use of routine HIV testing data for early detection of emerging HIV epidemics in high-risk subpopulations: A concept demonstration study. <i>Infectious Disease Modelling</i> , 2018 , 3, 373-384	15.7	4

23	Parameter identification for model of T cell proliferation in lymphopenia conditions. <i>Mathematical Biosciences</i> , 2014 , 251, 63-71	3.9	3
22	Effectiveness of BNT162b2 and mRNA-1273 COVID-19 boosters against SARS-CoV-2 Omicron (B.1.1.529) infection in Qatar		3
21	Analyzing inherent biases in SARS-CoV-2 PCR and serological epidemiologic metrics		3
20	Effects of BA.1/BA.2 subvariant, vaccination, and prior infection on infectiousness of SARS-CoV-2 Omicron infections		3
19	Waning of mRNA-1273 vaccine effectiveness against SARS-CoV-2 infection in Qatar		2
18	Protection offered by mRNA-1273 versus BNT162b2 vaccines against SARS-CoV-2 infection and severe COVID-19 in Qatar		2
17	Can the COVID-19 pandemic still be suppressed? Putting essential pieces together. <i>Journal of Global Health Reports</i> ,	1.1	2
16	Hepatitis C Virus in the Middle East and North Africa 2019 , 1-27		2
15	Analytic Characterization of the Herpes Simplex Virus Type 2 Epidemic in the United States, 1950-2050. <i>Open Forum Infectious Diseases</i> , 2021 , 8, ofab218	1	2
14	Severity, criticality, and fatality of the SARS-CoV-2 Beta variant		2
13	SARS-CoV-2 vaccine effectiveness in immunosuppressed kidney transplant recipients		2
12	Protection of prior natural infection compared to mRNA vaccination against SARS-CoV-2 infection and severe COVID-19 in Qatar		2
11	Methods and indicators to validate country reductions in incidence of hepatitis C virus infection to elimination levels set by WHO.. <i>The Lancet Gastroenterology and Hepatology</i> , 2022 ,	18.8	1
10	SARS-CoV-2 infection rates in arriving air Travelers in Qatar. <i>Journal of Travel Medicine</i> , 2021 ,	12.9	1
9	Characterizing the effective reproduction number during the COVID-19 epidemic: Insights from Qatar's experience		1
8	Estimates of global SARS-CoV-2 infection exposure, infection morbidity, and infection mortality rates		1
7	Characterizing the effective reproduction number during the COVID-19 pandemic: Insights from Qatar's experience.. <i>Journal of Global Health</i> , 2022 , 12, 05004	4.3	0
6	Analyzing inherent biases in SARS-CoV-2 PCR and serological epidemiologic metrics.. <i>BMC Infectious Diseases</i> , 2022 , 22, 458	4	0

- 5 An Age-Structured Model for T Cell Homeostasis in Vivo. *SIAM Journal on Applied Mathematics*, **2014**, 74, 1463-1485 1.8
- 4 Human herpes simplex virus-6 (HHV-6) detection and seroprevalence among Qatari nationals and immigrants residing in Qatar. *IJID Regions*, **2022**, 2, 90-95
- 3 Parameters identification for a model of T cell homeostasis. *Mathematical Biosciences and Engineering*, **2015**, 12, 917-36 2.1
- 2 Hepatitis C Virus in the Middle East and North Africa **2021**, 3027-3052
- 1 Modeling the population-level impact of treatment on COVID-19 disease and SARS-CoV-2 transmission.. *Epidemics*, **2022**, 39, 100567 5.1