

Nathan D Grubaugh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

8,119
citations

44
h-index

89
g-index

160
ext. papers

12,144
ext. citations

20.1
avg, IF

6.43
L-index

#	Paper	IF	Citations
137	Longitudinal analyses reveal immunological misfiring in severe COVID-19. <i>Nature</i> , 2020 , 584, 463-469	47.5	871
136	Sex differences in immune responses that underlie COVID-19 disease outcomes. <i>Nature</i> , 2020 , 588, 315-320	47.5	527
135	Multiplex PCR method for MinION and Illumina sequencing of Zika and other virus genomes directly from clinical samples. <i>Nature Protocols</i> , 2017 , 12, 1261-1276	18.1	514
134	Saliva or Nasopharyngeal Swab Specimens for Detection of SARS-CoV-2. <i>New England Journal of Medicine</i> , 2020 , 383, 1283-1286	57.2	495
133	Analytical sensitivity and efficiency comparisons of SARS-CoV-2 RT-qPCR primer-probe sets. <i>Nature Microbiology</i> , 2020 , 5, 1299-1305	25.8	374
132	Measurement of SARS-CoV-2 RNA in wastewater tracks community infection dynamics. <i>Nature Biotechnology</i> , 2020 , 38, 1164-1167	43.2	335
131	An amplicon-based sequencing framework for accurately measuring intrahost virus diversity using PrimalSeq and iVar. <i>Genome Biology</i> , 2019 , 20, 8	17.7	293
130	Making Sense of Mutation: What D614G Means for the COVID-19 Pandemic Remains Unclear. <i>Cell</i> , 2020 , 182, 794-795	54.5	260
129	Zika virus evolution and spread in the Americas. <i>Nature</i> , 2017 , 546, 411-415	47.5	251
128	Coast-to-Coast Spread of SARS-CoV-2 during the Early Epidemic in the United States. <i>Cell</i> , 2020 , 181, 990-996.e5	54.5	231
127	Genomic epidemiology reveals multiple introductions of Zika virus into the United States. <i>Nature</i> , 2017 , 546, 401-405	47.5	233
126	SARS-CoV-2 infection of the placenta. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4947-4953	15.3	219
125	Tracking virus outbreaks in the twenty-first century. <i>Nature Microbiology</i> , 2019 , 4, 10-19	25.8	175
124	Diverse functional autoantibodies in patients with COVID-19. <i>Nature</i> , 2021 , 595, 283-288	47.5	175
123	Ebola Virus Glycoprotein with Increased Infectivity Dominated the 2013-2016 Epidemic. <i>Cell</i> , 2016 , 167, 1088-1098.e6	54.5	135
122	SalivaDirect: A simplified and flexible platform to enhance SARS-CoV-2 testing capacity. <i>Med</i> , 2021 , 2, 263-280.e6	30.9	104
121	Common PIEZO1 Allele in African Populations Causes RBC Dehydration and Attenuates Plasmodium Infection. <i>Cell</i> , 2018 , 173, 443-455.e12	54.5	104

120	Genetic Drift during Systemic Arbovirus Infection of Mosquito Vectors Leads to Decreased Relative Fitness during Host Switching. <i>Cell Host and Microbe</i> , 2016 , 19, 481-92	22.8	96
119	Saliva is more sensitive for SARS-CoV-2 detection in COVID-19 patients than nasopharyngeal swabs		87
118	We shouldn't worry when a virus mutates during disease outbreaks. <i>Nature Microbiology</i> , 2020 , 5, 529-530.	30.8	91
117	Multiplex qPCR discriminates variants of concern to enhance global surveillance of SARS-CoV-2. <i>PLoS Biology</i> , 2021 , 19, e3001236	9.4	82
116	Public health actions to control new SARS-CoV-2 variants. <i>Cell</i> , 2021 , 184, 1127-1132	54.5	82
115	Acute encephalopathy with elevated CSF inflammatory markers as the initial presentation of COVID-19. <i>BMC Neurology</i> , 2020 , 20, 248	3	78
114	Why does Japan have so few cases of COVID-19?. <i>EMBO Molecular Medicine</i> , 2020 , 12, e12481	11.6	78
113	West African Anopheles gambiae mosquitoes harbor a taxonomically diverse virome including new insect-specific flaviviruses, mononegaviruses, and totiviruses. <i>Virology</i> , 2016 , 498, 288-299	3.5	76
112	Viral dynamics of SARS-CoV-2 variants in vaccinated and unvaccinated individuals		75
111	Neutralizing human monoclonal antibodies prevent Zika virus infection in macaques. <i>Science Translational Medicine</i> , 2017 , 9,	16.9	69
110	Delayed production of neutralizing antibodies correlates with fatal COVID-19. <i>Nature Medicine</i> , 2021 , 27, 1178-1186	49.3	64
109	Diverse Functional Autoantibodies in Patients with COVID-19 2021 ,		64
108	Evaluation of ivermectin mass drug administration for malaria transmission control across different West African environments. <i>Malaria Journal</i> , 2014 , 13, 417	3.5	62
107	Arbovirus coinfection and co-transmission: A neglected public health concern?. <i>PLoS Biology</i> , 2019 , 17, e3000130	9.4	59
106	Impact of circulating SARS-CoV-2 variants on mRNA vaccine-induced immunity. <i>Nature</i> , 2021 ,	47.5	61
105	Mosquitoes Transmit Unique West Nile Virus Populations during Each Feeding Episode. <i>Cell Reports</i> , 2017 , 19, 709-718	10.3	53
104	Precision epidemiology for infectious disease control. <i>Nature Medicine</i> , 2019 , 25, 206-211	49.3	52
103	Early introductions and transmission of SARS-CoV-2 variant B.1.1.7 in the United States. <i>Cell</i> , 2021 , 184, 2595-2604.e13	54.5	51

102	Viral dynamics of acute SARS-CoV-2 infection		44
101	Fetal demise and failed antibody therapy during Zika virus infection of pregnant macaques. <i>Nature Communications</i> , 2018 , 9, 1624	16.9	50
100	Analytical sensitivity and efficiency comparisons of SARS-COV-2 qRT-PCR primer-probe sets		47
99	Viral Dynamics of SARS-CoV-2 Variants in Vaccinated and Unvaccinated Persons.. <i>New England Journal of Medicine</i> , 2021 , 385, 2489-2491	57.2	49
98	COVID-19 vaccines: Keeping pace with SARS-CoV-2 variants. <i>Cell</i> , 2021 , 184, 5077-5081	54.5	49
97	Xenosurveillance: a novel mosquito-based approach for examining the human-pathogen landscape. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003628	4.6	45
96	Travel Surveillance and Genomics Uncover a Hidden Zika Outbreak during the Waning Epidemic. <i>Cell</i> , 2019 , 178, 1057-1071.e11	54.5	43
95	Sampling bias and incorrect rooting make phylogenetic network tracing of SARS-COV-2 infections unreliable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12522-12523	11.1	45
94	Inferring the risk factors behind the geographical spread and transmission of Zika in the Americas. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006194	4.6	45
93	Experimental evolution of an RNA virus in wild birds: evidence for host-dependent impacts on population structure and competitive fitness. <i>PLoS Pathogens</i> , 2015 , 11, e1004874	7.4	43
92	Saliva viral load is a dynamic unifying correlate of COVID-19 severity and mortality 2021 ,		38
91	SalivaDirect: A simplified and flexible platform to enhance SARS-CoV-2 testing capacity		40
90	Neutralizing antibodies against the SARS-CoV-2 Delta and Omicron variants following heterologous CoronaVac plus BNT162b2 booster vaccination.. <i>Nature Medicine</i> , 2022 ,	49.3	41
89	Twenty years of West Nile virus spread and evolution in the Americas visualized by Nextstrain. <i>PLoS Pathogens</i> , 2019 , 15, e1008042	7.4	39
88	Genomic Insights into Zika Virus Emergence and Spread. <i>Cell</i> , 2018 , 172, 1160-1162	54.5	38
87	Maternal respiratory SARS-CoV-2 infection in pregnancy is associated with a robust inflammatory response at the maternal-fetal interface. <i>Med</i> , 2021 , 2, 591-610.e10	30.9	38
86	Simply saliva: stability of SARS-CoV-2 detection negates the need for expensive collection devices 2020 ,		36
85	Isolation and genomic characterization of Chaoyang virus strain ROK144 from <i>Aedes vexans nipponii</i> from the Republic of Korea. <i>Virology</i> , 2013 , 435, 220-4	3.5	36

84	Viral dynamics of acute SARS-CoV-2 infection and applications to diagnostic and public health strategies. <i>PLoS Biology</i> , 2021 , 19, e3001333	9.4	38
83	Sex differences in immune responses to SARS-CoV-2 that underlie disease outcomes 2020 ,		36
82	Divergent and self-reactive immune responses in the CNS of COVID-19 patients with neurological symptoms. <i>Cell Reports Medicine</i> , 2021 , 2, 100288	17.5	35
81	Experimental Evolution to Study Virus Emergence. <i>Cell</i> , 2017 , 169, 1-3	54.5	33
80	Ontogeny of the B- and T-cell response in a primary Zika virus infection of a dengue-naïve individual during the 2016 outbreak in Miami, FL. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0006000	4.6	30
79	Detection of SARS-CoV-2 RNA by multiplex RT-qPCR. <i>PLoS Biology</i> , 2020 , 18, e3000867	9.4	29
78	Transmission bottlenecks and RNAi collectively influence tick-borne flavivirus evolution. <i>Virus Evolution</i> , 2016 , 2, vew033	3.6	26
77	Dynamics of West Nile virus evolution in mosquito vectors. <i>Current Opinion in Virology</i> , 2016 , 21, 132-138	11.1	24
76	Pooling saliva to increase SARS-CoV-2 testing capacity 2020 ,		24
75	Global disparities in SARS-CoV-2 genomic surveillance 2021 ,		22
74	Adventitious viruses persistently infect three commonly used mosquito cell lines. <i>Virology</i> , 2018 , 521, 175-180	3.5	22
73	Small RNA responses of Culex mosquitoes and cell lines during acute and persistent virus infection. <i>Insect Biochemistry and Molecular Biology</i> , 2019 , 109, 13-23	4.3	20
72	COVID-19 one year into the pandemic: from genetics and genomics to therapy, vaccination, and policy. <i>Human Genomics</i> , 2021 , 15, 27	6.5	23
71	Coast-to-coast spread of SARS-CoV-2 in the United States revealed by genomic epidemiology 2020 ,		17
70	Misperceived Risks of Zika-related Microcephaly in India. <i>Trends in Microbiology</i> , 2019 , 27, 381-383	12	15
69	Evaluation of a field-portable DNA microarray platform and nucleic acid amplification strategies for the detection of arboviruses, arthropods, and bloodmeals. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013 , 88, 245-53	3.2	15
68	The Use of Xenosurveillance to Detect Human Bacteria, Parasites, and Viruses in Mosquito Bloodmeals. <i>American Journal of Tropical Medicine and Hygiene</i> , 2017 , 97, 324-329	3.2	15
67	MOG-associated encephalitis following SARS-COV-2 infection. <i>Multiple Sclerosis and Related Disorders</i> , 2021 , 50, 102857	3.7	14

66	PCR assay to enhance global surveillance for SARS-CoV-2 variants of concern 2021 ,		14
65	Comparative transmissibility of SARS-CoV-2 variants Delta and Alpha in New England, USA 2021 ,		13
64	Isolation of a Novel Insect-Specific Flavivirus from <i>Culiseta melanura</i> in the Northeastern United States. <i>Vector-Borne and Zoonotic Diseases</i> , 2016 , 16, 181-90	2.3	12
63	Real-time public health communication of local SARS-CoV-2 genomic epidemiology. <i>PLoS Biology</i> , 2020 , 18, e3000869	9.4	12
62	Multiplexed RT-qPCR to screen for SARS-COV-2 B.1.1.7, B.1.351, and P.1 variants of concern v3		12
61	Longitudinal immunological analyses reveal inflammatory misfiring in severe COVID-19 patients		12
60	Viral dynamics and duration of PCR positivity of the SARS-CoV-2 Omicron variant		14
59	Multi-gene detection and identification of mosquito-borne RNA viruses using an oligonucleotide microarray. <i>PLoS Neglected Tropical Diseases</i> , 2013 , 7, e2349	4.6	11
58	Impact of circulating SARS-CoV-2 variants on mRNA vaccine-induced immunity in uninfected and previously infected individuals		11
57	Exploratory neuroimmune profiling identifies CNS-specific alterations in COVID-19 patients with neurological involvement 2020 ,		11
56	Temporal and Spatial Variability of Entomological Risk Indices for West Nile Virus Infection in Northern Colorado: 2006-2013. <i>Journal of Medical Entomology</i> , 2016 , 53, 425-34	2.2	10
55	A stem-loop RNA RIG-I agonist protects against acute and chronic SARS-CoV-2 infection in mice. <i>Journal of Experimental Medicine</i> , 2022 , 219,	16.2	10
54	Lying in wait: the resurgence of dengue virus after the Zika epidemic in Brazil. <i>Nature Communications</i> , 2021 , 12, 2619	16.9	8
53	SARS-CoV-2 infection in pregnancy is associated with robust inflammatory response at the maternal-fetal interface 2021 ,		8
52	Early introductions and community transmission of SARS-CoV-2 variant B.1.1.7 in the United States 2021 ,		9
51	Evidence for SARS-CoV-2 Spike Protein in the Urine of COVID-19 Patients.. <i>Kidney360</i> , 2021 , 2, 924-936	1.8	9
50	Single-cell multi-omics reveals dyssynchrony of the innate and adaptive immune system in progressive COVID-19.. <i>Nature Communications</i> , 2022 , 13, 440	16.9	9
49	Immunogenicity of heterologous BNT162b2 booster in fully vaccinated individuals with CoronaVac against SARS-CoV-2 variants Delta and Omicron: the Dominican Republic Experience		10

48	West Nile Virus Population Structure, Injury, and Interferon-Stimulated Gene Expression in the Brain From a Fatal Case of Encephalitis. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofv182	0.9	8
47	Asynchronicity of endemic and emerging mosquito-borne disease outbreaks in the Dominican Republic. <i>Nature Communications</i> , 2021 , 12, 151	16.9	8
46	Sampling host-seeking anthropophilic mosquito vectors in west Africa: comparisons of an active human-baited tent-trap against gold standard methods. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015 , 92, 415-21	3.2	7
45	Epidemiological hypothesis testing using a phylogeographic and phylodynamic framework. <i>Nature Communications</i> , 2020 , 11, 5620	16.9	6
44	Tracking smell loss to identify healthcare workers with SARS-CoV-2 infection. <i>PLoS ONE</i> , 2021 , 16, e0248025	3.2	7
43	Generation of SARS-COV-2 RNA transcript standards for qRT-PCR detection assays v1		7
42	Multiplex PCR method for MinION and Illumina sequencing of Zika and other virus genomes directly from clinical samples		6
41	An amplicon-based sequencing framework for accurately measuring intrahost virus diversity using PrimalSeq and iVar		6
40	Rapid emergence of SARS-CoV-2 Omicron variant is associated with an infection advantage over Delta in vaccinated persons.. <i>Med</i> , 2022 ,	30.9	7
39	A stem-loop RNA RIG-I agonist confers prophylactic and therapeutic protection against acute and chronic SARS-CoV-2 infection in mice 2021 ,		5
38	Evaluation of saliva self-collection devices for SARS-CoV-2 diagnostics 2021 ,		4
37	Combining genomic and epidemiological data to compare the transmissibility of SARS-CoV-2 lineages 2021 ,		4
36	Saliva Collection and RNA Extraction for SARS-CoV-2 Detection v2		4
35	Two Sides of a Coin: a Zika Virus Mutation Selected in Pregnant Rhesus Macaques Promotes Fetal Infection in Mice but at a Cost of Reduced Fitness in Nonpregnant Macaques and Diminished Transmissibility by Vectors. <i>Journal of Virology</i> , 2020 , 94,	6.3	4
34	Longitudinal immune profiling of a SARS-CoV-2 reinfection in a solid organ transplant recipient. <i>Journal of Infectious Diseases</i> , 2021 ,	6.8	4
33	Intrahost speciations and host switches played an important role in the evolution of herpesviruses. <i>Virus Evolution</i> , 2021 , 7, veab025	3.6	3
32	Variant abundance estimation for SARS-CoV-2 in wastewater using RNA-Seq quantification 2021 ,		3
31	Emergence of an early SARS-CoV-2 epidemic in the United States 2021 ,		3

30	Lying in wait: the resurgence of dengue virus after the Zika epidemic in Brazil		3
29	Long SARS-CoV-2 nucleocapsid sequences in blood monocytes collected soon after hospital admission		3
28	Comparative transmissibility of SARS-CoV-2 variants Delta and Alpha in New England, USA.. <i>Cell Reports Medicine</i> , 2022 , 3, 100583	17.5	3
27	Tracking Smell Loss to Identify Healthcare Workers with SARS-CoV-2 Infection 2020 ,		2
26	COVID-19 Outcomes and Genomic Characterization of SARS-CoV-2 Isolated From Veterans in New England States: Retrospective Analysis.. <i>Jmirx Med</i> , 2021 , 2, e31503	0.2	3
25	Emergence of an early SARS-CoV-2 epidemic in the United States. <i>Cell</i> , 2021 , 184, 4939-4952.e15	54.5	2
24	Case Study: Longitudinal immune profiling of a SARS-CoV-2 reinfection in a solid organ transplant recipient 2021 ,		2
23	Genetic characterization of the Zika virus epidemic in the US Virgin Islands		2
22	Host response-based screening to identify undiagnosed cases of COVID-19 and expand testing capacity 2020 ,		2
21	Of variants and vaccines.. <i>Cell</i> , 2021 , 184, 6222-6223	54.5	3
20	Rapid emergence of SARS-CoV-2 Omicron variant is associated with an infection advantage over Delta in vaccinated persons		3
19	Endless Forms: Within-Host Variation in the Structure of the West Nile Virus RNA Genome during Serial Passage in Bird Hosts. <i>MSphere</i> , 2019 , 4,	4.9	1
18	Longitudinal immune profiling of a SARS-CoV-2 reinfection in a solid organ transplant recipient 2021 ,		1
17	456. Implementing an At-Home Smell Test for Early Assessment of COVID-19 in High-Risk Healthcare Workers. <i>Open Forum Infectious Diseases</i> , 2020 , 7, S295-S296	0.9	1
16	International travelers and genomics uncover a BiddenZika outbreak		1
15	Evaluation of saliva self-collection devices for SARS-CoV-2 diagnostics.. <i>BMC Infectious Diseases</i> , 2022 , 22, 284	3.9	1
14	Assessment of Clinical Effectiveness of BNT162b2 COVID-19 Vaccine in US Adolescents.. <i>JAMA Network Open</i> , 2022 , 5, e220935	10.1	1
13	An outbreak of SARS-CoV-2 on a transplant unit in the early vaccination era.. <i>Transplant Infectious Disease</i> , 2021 ,	2.6	1

12	Navigating the Zika panic. <i>F1000Research</i> , 2016 , 5, 1914	3.5	1
11	Reply to: A finding of sex similarities rather than differences in COVID-19 outcomes. <i>Nature</i> , 2021 , 597, E10-E11	47.5	
10	Multiple Transmission Chains within COVID-19 Cluster, Connecticut, USA, 2020. <i>Emerging Infectious Diseases</i> , 2021 , 27, 2669-2672	9.9	o
9	Translating virus evolution into epidemiology.. <i>Cell Host and Microbe</i> , 2022 , 30, 444-448	22.8	o
8	Sequencing SARS-CoV-2 genomes from saliva.. <i>Virus Evolution</i> , 2022 , 8, veab098	3.6	o
7	Tracing the Origin, Spread, and Molecular Evolution of Zika Virus in Puerto Rico, 2016-2017. <i>Emerging Infectious Diseases</i> , 2021 , 27, 2971-2973	9.9	o
6	Combining genomic and epidemiological data to compare the transmissibility of SARS-CoV-2 variants Alpha and Iota.. <i>Communications Biology</i> , 2022 , 5, 439	6.5	o
5	Partial ORF1ab Gene Target Failure with Omicron BA.2.12.1.. <i>Journal of Clinical Microbiology</i> , 2022 , e0066022	9.2	o
4	301. Detection of Pneumococcal Pneumonia During SARS-CoV-2 Infection. <i>Open Forum Infectious Diseases</i> , 2021 , 8, S257-S257	0.9	
3	362. Saliva as a Reliable Sample Type for Mass SARS-CoV-2 Testing Strategies. <i>Open Forum Infectious Diseases</i> , 2021 , 8, S284-S284	0.9	
2	Authors' Response to Peer Reviews of COVID-19 Outcomes and Genomic Characterization of SARS-CoV-2 Isolated From Veterans in New England States: Retrospective Analysis <i>Jmirx Med</i> , 2021 , 2, e35515	0.2	
1	Clinical effectiveness of additional primary SARS-CoV-2 vaccine doses for solid organ transplant recipients.. <i>Clinical Transplantation</i> , 2022 , e14601	3.7	