

Nicholas C Grassly

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

8,940
citations

50276

46
h-index

45317

90
g-index

127
all docs

127
docs citations

127
times ranked

11231
citing authors

#	ARTICLE	IF	CITATIONS
1	Pandemic Potential of a Strain of Influenza A (H1N1): Early Findings. <i>Science</i> , 2009, 324, 1557-1561.	12.6	1,665
2	The impact of COVID-19 and strategies for mitigation and suppression in low- and middle-income countries. <i>Science</i> , 2020, 369, 413-422.	12.6	718
3	Mathematical models of infectious disease transmission. <i>Nature Reviews Microbiology</i> , 2008, 6, 477-487.	28.6	527
4	Seasonal infectious disease epidemiology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2541-2550.	2.6	409
5	New Strategies for the Elimination of Polio from India. <i>Science</i> , 2006, 314, 1150-1153.	12.6	230
6	Host immunity and synchronized epidemics of syphilis across the United States. <i>Nature</i> , 2005, 433, 417-421.	27.8	215
7	Systematic Review of Mucosal Immunity Induced by Oral and Inactivated Poliovirus Vaccines against Virus Shedding following Oral Poliovirus Challenge. <i>PLoS Pathogens</i> , 2012, 8, e1002599.	4.7	180
8	Comparison of molecular testing strategies for COVID-19 control: a mathematical modelling study. <i>Lancet Infectious Diseases</i> , The, 2020, 20, 1381-1389.	9.1	171
9	A likelihood method for the detection of selection and recombination using nucleotide sequences. <i>Molecular Biology and Evolution</i> , 1997, 14, 239-247.	8.9	167
10	Causes of impaired oral vaccine efficacy in developing countries. <i>Future Microbiology</i> , 2018, 13, 97-118.	2.0	154
11	Estimating the health impact of vaccination against ten pathogens in 98 low-income and middle-income countries from 2000 to 2030: a modelling study. <i>Lancet</i> , The, 2021, 397, 398-408.	13.7	144
12	Can we reverse the HIV/AIDS pandemic with an expanded response?. <i>Lancet</i> , The, 2002, 360, 73-77.	13.7	143
13	Expression Profiling the Temperature-Dependent Amphibian Response to Infection by <i>Batrachochytrium dendrobatidis</i> . <i>PLoS ONE</i> , 2009, 4, e8408.	2.5	135
14	Protective efficacy of a monovalent oral type 1 poliovirus vaccine: a case-control study. <i>Lancet</i> , The, 2007, 369, 1356-1362.	13.7	134
15	The Burden of Typhoid and Paratyphoid in India: Systematic Review and Meta-analysis. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004616.	3.0	134
16	Implications of a Circulating Vaccine-Derived Poliovirus in Nigeria. <i>New England Journal of Medicine</i> , 2010, 362, 2360-2369.	27.0	126
17	The UNAIDS Estimation and Projection Package: a software package to estimate and project national HIV epidemics. <i>Sexually Transmitted Infections</i> , 2004, 80, i5-i9.	1.9	116
18	Improved methods and assumptions for estimation of the HIV/AIDS epidemic and its impact: Recommendations of the UNAIDS Reference Group on Estimates, Modelling and Projections. <i>Aids</i> , 2002, 16, W1-W14.	2.2	107

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19	The epidemiology of non-polio enteroviruses. <i>Current Opinion in Infectious Diseases</i> , 2015, 28, 479-487.	3.1	106
20	Efficacy of inactivated poliovirus vaccine in India. <i>Science</i> , 2014, 345, 922-925.	12.6	105
21	Evolving epidemiology of poliovirus serotype 2 following withdrawal of the serotype 2 oral poliovirus vaccine. <i>Science</i> , 2020, 368, 401-405.	12.6	105
22	Effect of a single inactivated poliovirus vaccine dose on intestinal immunity against poliovirus in children previously given oral vaccine: an open-label, randomised controlled trial. <i>Lancet</i> , The, 2014, 384, 1505-1512.	13.7	99
23	Estimating the global burden of HIV/AIDS: what do we really know about the HIV pandemic?. <i>Lancet</i> , The, 2004, 363, 2180-2185.	13.7	92
24	Back to basics in HIV prevention: focus on exposure. <i>BMJ: British Medical Journal</i> , 2003, 326, 1384-1387.	2.3	90
25	The Development of an Age-Structured Model for Trachoma Transmission Dynamics, Pathogenesis and Control. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e462.	3.0	89
26	Influence of the intestinal microbiota on the immunogenicity of oral rotavirus vaccine given to infants in south India. <i>Vaccine</i> , 2018, 36, 264-272.	3.8	88
27	Serotype-specific immunity explains the incidence of diseases caused by human enteroviruses. <i>Science</i> , 2018, 361, 800-803.	12.6	87
28	The Natural History of Trachoma Infection and Disease in a Gambian Cohort with Frequent Follow-Up. <i>PLoS Neglected Tropical Diseases</i> , 2008, 2, e341.	3.0	82
29	A Diagnostics Platform for the Integrated Mapping, Monitoring, and Surveillance of Neglected Tropical Diseases: Rationale and Target Product Profiles. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1746.	3.0	81
30	The seasonality of nonpolio enteroviruses in the United States: Patterns and drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3078-3083.	7.1	81
31	Projecting the demographic impact of AIDS and the number of people in need of treatment: updates to the Spectrum projection package. <i>Sexually Transmitted Infections</i> , 2006, 82, iii45-iii50.	1.9	75
32	Mucosal Immunity after Vaccination with Monovalent and Trivalent Oral Poliovirus Vaccine in India. <i>Journal of Infectious Diseases</i> , 2009, 200, 794-801.	4.0	75
33	Modelling emerging HIV epidemics: the role of injecting drug use and sexual transmission in the Russian Federation, China and India. <i>International Journal of Drug Policy</i> , 2003, 14, 25-43.	3.3	68
34	Waning Intestinal Immunity After Vaccination With Oral Poliovirus Vaccines in India. <i>Journal of Infectious Diseases</i> , 2012, 205, 1554-1561.	4.0	66
35	Uncertainty in estimates of HIV/AIDS: the estimation and application of plausibility bounds. <i>Sexually Transmitted Infections</i> , 2004, 80, i31-i38.	1.9	64
36	Context-dependent amphibian host population response to an invading pathogen. <i>Ecology</i> , 2013, 94, 1795-1804.	3.2	64

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37	The final stages of the global eradication of poliomyelitis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120140.	4.0	63
38	Influence of Enteric Infections on Response to Oral Poliovirus Vaccine: A Systematic Review and Meta-analysis. <i>Journal of Infectious Diseases</i> , 2014, 210, 853-864.	4.0	63
39	Effectiveness of Immunization against Paralytic Poliomyelitis in Nigeria. <i>New England Journal of Medicine</i> , 2008, 359, 1666-1674.	27.0	62
40	The effect of probiotics and zinc supplementation on the immune response to oral rotavirus vaccine: A randomized, factorial design, placebo-controlled study among Indian infants. <i>Vaccine</i> , 2018, 36, 273-279.	3.8	60
41	Type 2 Poliovirus Detection after Global Withdrawal of Trivalent Oral Vaccine. <i>New England Journal of Medicine</i> , 2018, 379, 834-845.	27.0	59
42	Immunogenicity and Effectiveness of Routine Immunization With 1 or 2 Doses of Inactivated Poliovirus Vaccine: Systematic Review and Meta-analysis. <i>Journal of Infectious Diseases</i> , 2014, 210, S439-S446.	4.0	56
43	The effect of azithromycin on the immunogenicity of oral poliovirus vaccine: a double-blind randomised placebo-controlled trial in seronegative Indian infants. <i>Lancet Infectious Diseases</i> , The, 2016, 16, 905-914.	9.1	55
44	Changes in the intestinal microbiota following the administration of azithromycin in a randomised placebo-controlled trial among infants in south India. <i>Scientific Reports</i> , 2017, 7, 9168.	3.3	55
45	The effect of mass immunisation campaigns and new oral poliovirus vaccines on the incidence of poliomyelitis in Pakistan and Afghanistan, 2001-11: a retrospective analysis. <i>Lancet</i> , The, 2012, 380, 491-498.	13.7	53
46	Impact of inactivated poliovirus vaccine on mucosal immunity: implications for the polio eradication endgame. <i>Expert Review of Vaccines</i> , 2015, 14, 1113-1123.	4.4	51
47	Interventions to improve oral vaccine performance: a systematic review and meta-analysis. <i>Lancet Infectious Diseases</i> , The, 2019, 19, 203-214.	9.1	51
48	Population dynamics of HIV-1 inferred from gene sequences. <i>Genetics</i> , 1999, 151, 427-38.	2.9	47
49	Asymptomatic Wild-type Poliovirus Infection in India among Children with Previous Oral Poliovirus Vaccination. <i>Journal of Infectious Diseases</i> , 2010, 201, 1535-1543.	4.0	46
50	Trachoma: transmission, infection, and control. <i>Lancet Infectious Diseases</i> , The, 2007, 7, 420-427.	9.1	45
51	The role of older children and adults in wild poliovirus transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10604-10609.	7.1	44
52	Preventing Vaccine-Derived Poliovirus Emergence during the Polio Endgame. <i>PLoS Pathogens</i> , 2016, 12, e1005728.	4.7	44
53	Estimating Household and Community Transmission of Ocular <i>Chlamydia trachomatis</i> . <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e401.	3.0	42
54	Exploring the relationship between environmental enteric dysfunction and oral vaccine responses. <i>Future Microbiology</i> , 2018, 13, 1055-1070.	2.0	42

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55	The effectiveness of HIV prevention and the epidemiological context. <i>Bulletin of the World Health Organization</i> , 2001, 79, 1121-32.	3.3	41
56	Key issues in the persistence of poliomyelitis in Nigeria: a case-control study. <i>The Lancet Global Health</i> , 2014, 2, e90-e97.	6.3	40
57	Quantifying Transmission Heterogeneity Using Both Pathogen Phylogenies and Incidence Time Series. <i>Molecular Biology and Evolution</i> , 2017, 34, 2982-2995.	8.9	37
58	The workbook approach to making estimates and projecting future scenarios of HIV/AIDS in countries with low level and concentrated epidemics. <i>Sexually Transmitted Infections</i> , 2004, 80, i10-i13.	1.9	34
59	Influence of Nonpolio Enteroviruses and the Bacterial Gut Microbiota on Oral Poliovirus Vaccine Response: A Study from South India. <i>Journal of Infectious Diseases</i> , 2019, 219, 1178-1186.	4.0	34
60	Antiretroviral therapy to treat and prevent HIV/AIDS in resource-poor settings. <i>Nature Medicine</i> , 2002, 8, 651-654.	30.7	33
61	The economic impact of HIV/AIDS on the education sector in Zambia. <i>Aids</i> , 2003, 17, 1039-1044.	2.2	33
62	Rapid and Sensitive Direct Detection and Identification of Poliovirus from Stool and Environmental Surveillance Samples by Use of Nanopore Sequencing. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	33
63	Routine immunization in Pakistan: comparison of multiple data sources and identification of factors associated with vaccination. <i>International Health</i> , 2018, 10, 84-91.	2.0	31
64	A Statistical Model of the International Spread of Wild Poliovirus in Africa Used to Predict and Prevent Outbreaks. <i>PLoS Medicine</i> , 2011, 8, e1001109.	8.4	29
65	Vaccine schedules and the effect on humoral and intestinal immunity against poliovirus: a systematic review and network meta-analysis. <i>Lancet Infectious Diseases</i> , The, 2019, 19, 1121-1128.	9.1	26
66	Impact of maternal antibodies and microbiota development on the immunogenicity of oral rotavirus vaccine in African, Indian, and European infants. <i>Nature Communications</i> , 2021, 12, 7288.	12.8	26
67	Risk factors for the spread of vaccine-derived type 2 polioviruses after global withdrawal of trivalent oral poliovirus vaccine and the effects of outbreak responses with monovalent vaccine: a retrospective analysis of surveillance data for 51 countries in Africa. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 284-294.	9.1	25
68	Comparison of household-survey estimates with projections of mortality and orphan numbers in sub-Saharan Africa in the era of HIV/AIDS. <i>Population Studies</i> , 2004, 58, 207-217.	2.1	24
69	Methods to Estimate the Number of Orphans as a Result of AIDS and Other Causes in Sub-Saharan Africa. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2005, 39, 365-375.	2.1	23
70	Genomic analysis of emerging pathogens: methods, application and future trends. <i>Genome Biology</i> , 2014, 15, 541.	8.8	23
71	Biological challenges to effective vaccines in the developing world. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140138.	4.0	23
72	Targeting Antibiotics to Households for Trachoma Control. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e862.	3.0	22

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73	Antibiotic Resistance in <i>Streptococcus pneumoniae</i> after Azithromycin Distribution for Trachoma. <i>Journal of Tropical Medicine</i> , 2015, 2015, 1-8.	1.7	22
74	The Potential Impact of Routine Immunization with Inactivated Poliovirus Vaccine on Wild-type or Vaccine-derived Poliovirus Outbreaks in a Posteradication Setting. <i>American Journal of Epidemiology</i> , 2013, 178, 1579-1587.	3.4	21
75	Impact of maternal antibodies and infant gut microbiota on the immunogenicity of rotavirus vaccines in African, Indian and European infants: protocol for a prospective cohort study. <i>BMJ Open</i> , 2017, 7, e016577.	1.9	21
76	The role of genetic sequencing and analysis in the polio eradication programme. <i>Virus Evolution</i> , 2020, 6, veaa040.	4.9	19
77	Risk factors and short-term projections for serotype-1 poliomyelitis incidence in Pakistan: A spatiotemporal analysis. <i>PLoS Medicine</i> , 2017, 14, e1002323.	8.4	19
78	Faster Detection of Poliomyelitis Outbreaks to Support Polio Eradication. <i>Emerging Infectious Diseases</i> , 2016, 22, 449-456.	4.3	18
79	Characterizing Environmental Surveillance Sites in Nigeria and Their Sensitivity to Detect Poliovirus and Other Enteroviruses. <i>Journal of Infectious Diseases</i> , 2022, 225, 1377-1386.	4.0	18
80	Mortality among Human Immunodeficiency Virus Type 2-Positive Villagers in Rural Guinea-Bissau Is Correlated with Viral Genotype. <i>Journal of Virology</i> , 1998, 72, 7895-7899.	3.4	18
81	Using a Nonparametric Multilevel Latent Markov Model to Evaluate Diagnostics for Trachoma. <i>American Journal of Epidemiology</i> , 2013, 177, 913-922.	3.4	17
82	An assessment of the geographical risks of wild and vaccine-derived poliomyelitis outbreaks in Africa and Asia. <i>BMC Infectious Diseases</i> , 2017, 17, 367.	2.9	17
83	Population sensitivity of acute flaccid paralysis and environmental surveillance for serotype 1 poliovirus in Pakistan: an observational study. <i>BMC Infectious Diseases</i> , 2018, 18, 176.	2.9	17
84	Population Immunity against Serotype-2 Poliomyelitis Leading up to the Global Withdrawal of the Oral Poliovirus Vaccine: Spatio-temporal Modelling of Surveillance Data. <i>PLoS Medicine</i> , 2016, 13, e1002140.	8.4	15
85	Study design and baseline results of an open-label cluster randomized community-intervention trial to assess the effectiveness of a modified mass deworming program in reducing hookworm infection in a tribal population in southern India. <i>Contemporary Clinical Trials Communications</i> , 2017, 5, 49-55.	1.1	14
86	Estimated Effect of Inactivated Poliovirus Vaccine Campaigns, Nigeria and Pakistan, January 2014–April 2016. <i>Emerging Infectious Diseases</i> , 2017, 23, 258-263.	4.3	14
87	AIDS: the makings of a development disaster?. <i>Journal of International Development</i> , 2001, 13, 391-409.	1.8	12
88	The duration of intestinal immunity after an inactivated poliovirus vaccine booster dose in children immunized with oral vaccine: a randomised controlled trial. <i>Journal of Infectious Diseases</i> , 2016, 215, jiw595.	4.0	12
89	Modelling Trachoma for Control Programmes. <i>Advances in Experimental Medicine and Biology</i> , 2010, 673, 141-156.	1.6	12
90	Error, Population Structure and the Origin of Diverse Sign Systems. <i>Journal of Theoretical Biology</i> , 2000, 206, 369-378.	1.7	11

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91	Monitoring trends in HIV prevalence among young people, aged 15 to 24 years, in Manicaland, Zimbabwe. <i>Journal of the International AIDS Society</i> , 2011, 14, 27-27.	3.0	11
92	Estimating the Future Impact of a Multi-Pronged Intervention Strategy on Ocular Disease Sequelae Caused by Trachoma: A Modeling Study. <i>Ophthalmic Epidemiology</i> , 2015, 22, 394-402.	1.7	11
93	The future of the HIV pandemic. <i>Bulletin of the World Health Organization</i> , 2005, 83, 378-82.	3.3	11
94	Maximising the global use of HIV surveillance data through the development and sharing of analytical tools. <i>Sexually Transmitted Infections</i> , 2004, 80, i1-i4.	1.9	10
95	A New Method for Estimating the Coverage of Mass Vaccination Campaigns Against Poliomyelitis From Surveillance Data. <i>American Journal of Epidemiology</i> , 2015, 182, 961-970.	3.4	9
96	<i>Salmonella</i> Typhi Shedding and Household Transmission by Children With Blood Culture-Confirmed Typhoid Fever in Vellore, South India. <i>Journal of Infectious Diseases</i> , 2021, 224, S593-S600.	4.0	9
97	Editorial Commentary: Pediatric Norovirus in Developing Countries: A Picture Slowly Comes Into Focus. <i>Clinical Infectious Diseases</i> , 2016, 62, 1218-1220.	5.8	7
98	Unravelling mucosal immunity to poliovirus. <i>Lancet Infectious Diseases</i> , The, 2016, 16, 1310-1311.	9.1	7
99	Effect of Inactivated Poliovirus Vaccine Campaigns, Pakistan, 2014â€“2017. <i>Emerging Infectious Diseases</i> , 2018, 24, 2113-2115.	4.3	7
100	A pilot study on use of live attenuated rotavirus vaccine (Rotarix®,ϕ) as an infection challenge model. <i>Vaccine</i> , 2020, 38, 7357-7362.	3.8	7
101	Modelling the spread of serotype-2 vaccine derived-poliovirus outbreak in Pakistan and Afghanistan to inform outbreak control strategies in the context of the COVID-19 pandemic. <i>Vaccine</i> , 2023, 41, A93-A104.	3.8	7
102	Factors determining anti-poliovirus type 3 antibodies among orally immunised Indian infants. <i>Vaccine</i> , 2016, 34, 4979-4984.	3.8	6
103	Time Taken to Detect and Respond to Polio Outbreaks in Africa and the Potential Impact of Direct Molecular Detection and Nanopore Sequencing. <i>Journal of Infectious Diseases</i> , 2022, 226, 453-462.	4.0	6
104	Polio vaccination: preparing for a change of routine. <i>Lancet</i> , The, 2016, 388, 107-108.	13.7	5
105	Quantity of Vaccine Poliovirus Shed Determines the Titer of the Serum Neutralizing Antibody Response in Indian Children Who Received Oral Vaccine. <i>Journal of Infectious Diseases</i> , 2018, 217, 1395-1398.	4.0	5
106	Surveillance optimisation to detect poliovirus in the pre-eradication era: a modelling study of England and Wales. <i>Epidemiology and Infection</i> , 2020, 148, e157.	2.1	5
107	Measuring Vaccine Efficacy Against Infection and Disease in Clinical Trials: Sources and Magnitude of Bias in Coronavirus Disease 2019 (COVID-19) Vaccine Efficacy Estimates. <i>Clinical Infectious Diseases</i> , 2022, 75, e764-e773.	5.8	5
108	Enhancing Rotavirus Vaccination: A Microbial Fix?. <i>Cell Host and Microbe</i> , 2018, 24, 195-196.	11.0	4

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109	Factors Predicting Blood Culture Positivity in Children With Enteric Fever. <i>Journal of Infectious Diseases</i> , 2021, 224, S484-S493.	4.0	4
110	Spatial Dynamics and High Risk Transmission Pathways of Poliovirus in Nigeria 2001-2013. <i>PLoS ONE</i> , 2016, 11, e0163065.	2.5	4
111	Eradicating polio with a vaccine we must stop using. <i>Lancet Infectious Diseases</i> , The, 2018, 18, 590-591.	9.1	3
112	Securing the Eradication of All Polioviruses. <i>Clinical Infectious Diseases</i> , 2018, 67, S1-S3.	5.8	3
113	FUT2 Secretor Status Is Not Associated With Oral Poliovirus Vaccine Immunogenicity in South Indian Infants. <i>Journal of Infectious Diseases</i> , 2019, 219, 578-581.	4.0	3
114	Immune predictors of oral poliovirus vaccine immunogenicity among infants in South India. <i>Npj Vaccines</i> , 2020, 5, 27.	6.0	3
115	Reassessing Reported Deaths and Estimated Infection Attack Rate during the First 6 Months of the COVID-19 Epidemic, Delhi, India. <i>Emerging Infectious Diseases</i> , 2022, 28, 759-766.	4.3	3
116	Response to Influenza. <i>Science</i> , 2009, 325, 1072-1073.	12.6	2
117	New vaccine strategies to finish polio eradication. <i>Lancet Infectious Diseases</i> , The, 2015, 15, 864-865.	9.1	2
118	Polio's detection in London is a wake-up call. <i>BMJ</i> , The, 0, , o1589.	6.0	2
119	Explicit models make for better policy. <i>International Journal of Drug Policy</i> , 2003, 14, 339-341.	3.3	1
120	Protective efficacy of a monovalent oral type 1 poliovirus vaccine – Authors' reply. <i>Lancet</i> , The, 2007, 370, 129-130.	13.7	1
121	Infectious Disease Surveillance. <i>JAMA - Journal of the American Medical Association</i> , 2008, 300, 1591.	7.4	1
122	Integration, community engagement, and polio eradication in Nigeria – Authors' reply. <i>The Lancet Global Health</i> , 2014, 2, e316.	6.3	1