

Richelle C Charles

List of Publications by Year in descending order

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84
papers

5,744
citations

126907

33
h-index

91884

69
g-index

96
all docs

96
docs citations

96
times ranked

10326
citing authors

#	ARTICLE	IF	CITATIONS
1	The Origin of the Haitian Cholera Outbreak Strain. <i>New England Journal of Medicine</i> , 2011, 364, 33-42.	27.0	676
2	COVID-19-neutralizing antibodies predict disease severity and survival. <i>Cell</i> , 2021, 184, 476-488.e11.	28.9	586
3	Persistence and decay of human antibody responses to the receptor binding domain of SARS-CoV-2 spike protein in COVID-19 patients. <i>Science Immunology</i> , 2020, 5, .	11.9	561
4	Distinct Early Serological Signatures Track with SARS-CoV-2 Survival. <i>Immunity</i> , 2020, 53, 524-532.e4.	14.3	334
5	Compromised Humoral Functional Evolution Tracks with SARS-CoV-2 Mortality. <i>Cell</i> , 2020, 183, 1508-1519.e12.	28.9	263
6	Evaluation of SARS-CoV-2 serology assays reveals a range of test performance. <i>Nature Biotechnology</i> , 2020, 38, 1174-1183.	17.5	251
7	Salmonella chronic carriage: epidemiology, diagnosis, and gallbladder persistence. <i>Trends in Microbiology</i> , 2014, 22, 648-655.	7.7	227
8	Humoral signatures of protective and pathological SARS-CoV-2 infection in children. <i>Nature Medicine</i> , 2021, 27, 454-462.	30.7	137
9	Ultra-Sensitive Serial Profiling of SARS-CoV-2 Antigens and Antibodies in Plasma to Understand Disease Progression in COVID-19 Patients with Severe Disease. <i>Clinical Chemistry</i> , 2020, 66, 1562-1572.	3.2	134
10	Evolutionary consequences of intra-patient phage predation on microbial populations. <i>ELife</i> , 2014, 3, e03497.	6.0	114
11	Ultrasensitive high-resolution profiling of early seroconversion in patients with COVID-19. <i>Nature Biomedical Engineering</i> , 2020, 4, 1180-1187.	22.5	110
12	Cholera in the 21st century. <i>Current Opinion in Infectious Diseases</i> , 2011, 24, 472-477.	3.1	91
13	Circulating Mucosal Associated Invariant T Cells Are Activated in <i>Vibrio cholerae</i> O1 Infection and Associated with Lipopolysaccharide Antibody Responses. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3076.	3.0	78
14	SARS-CoV-2-specific ELISA development. <i>Journal of Immunological Methods</i> , 2020, 484-485, 112832.	1.4	77
15	Extensively Drug-Resistant Typhoid "Are Conjugate Vaccines Arriving Just in Time?". <i>New England Journal of Medicine</i> , 2018, 379, 1493-1495.	27.0	72
16	Comparison of Immune Responses to the O-Specific Polysaccharide and Lipopolysaccharide of <i>Vibrio cholerae</i> O1 in Bangladeshi Adult Patients with Cholera. <i>Vaccine Journal</i> , 2012, 19, 1712-1721.	3.1	69
17	Structural basis for continued antibody evasion by the SARS-CoV-2 receptor binding domain. <i>Science</i> , 2022, 375, .	12.6	68
18	Single-Cell Analysis of the Plasmablast Response to <i>Vibrio cholerae</i> Demonstrates Expansion of Cross-Reactive Memory B Cells. <i>MBio</i> , 2016, 7, .	4.1	62

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19	Comparative Proteomic Analysis of the PhoP Regulon in <i>Salmonella enterica</i> Serovar Typhi Versus Typhimurium. <i>PLoS ONE</i> , 2009, 4, e6994.	2.5	61
20	A Cholera Conjugate Vaccine Containing O-specific Polysaccharide (OSP) of <i>V. cholerae</i> O1 Inaba and Recombinant Fragment of Tetanus Toxin Heavy Chain (OSP:rTTHc) Induces Serum, Memory and Lamina Proprial Responses against OSP and Is Protective in Mice. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003881.	3.0	59
21	Cholera's western front. <i>Lancet, The</i> , 2010, 376, 1961-1965.	13.7	55
22	Antibody responses after COVID-19 infection in patients who are mildly symptomatic or asymptomatic in Bangladesh. <i>International Journal of Infectious Diseases</i> , 2020, 101, 220-225.	3.3	55
23	<i>Salmonella enterica</i> Serovar Typhi-Specific Immunoglobulin A Antibody Responses in Plasma and Antibody in Lymphocyte Supernatant Specimens in Bangladeshi Patients with Suspected Typhoid Fever. <i>Vaccine Journal</i> , 2009, 16, 1587-1594.	3.1	54
24	An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates. <i>Cell Host and Microbe</i> , 2021, 29, 1437-1453.e8.	11.0	53
25	Simple, Direct Conjugation of Bacterial O-SPâ€œCore Antigens to Proteins: Development of Cholera Conjugate Vaccines. <i>Bioconjugate Chemistry</i> , 2011, 22, 2179-2185.	3.6	52
26	In Vivo Expression of <i>Salmonella enterica</i> Serotype Typhi Genes in the Blood of Patients with Typhoid Fever in Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1419.	3.0	51
27	Characterization of Anti- <i>Salmonella enterica</i> Serotype Typhi Antibody Responses in Bacteremic Bangladeshi Patients by an Immunoaffinity Proteomics-Based Technology. <i>Vaccine Journal</i> , 2010, 17, 1188-1195.	3.1	49
28	Evaluation of a Typhoid/Paratyphoid Diagnostic Assay (TPTest) Detecting Anti- <i>Salmonella</i> IgA in Secretions of Peripheral Blood Lymphocytes in Patients in Dhaka, Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2316.	3.0	48
29	Immunogenicity of a Killed Bivalent (O1 and O139) Whole Cell Oral Cholera Vaccine, Shanchol, in Haiti. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2828.	3.0	45
30	Memory B Cell and Other Immune Responses in Children Receiving Two Doses of an Oral Killed Cholera Vaccine Compared to Responses following Natural Cholera Infection in Bangladesh. <i>Vaccine Journal</i> , 2012, 19, 690-698.	3.1	44
31	Bacterial Shedding in Household Contacts of Cholera Patients in Dhaka, Bangladesh. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 91, 738-742.	1.4	41
32	Comparison of the Performance of the TPTest, Tubex, Typhidot and Widal Immunodiagnostic Assays and Blood Cultures in Detecting Patients with Typhoid Fever in Bangladesh, Including Using a Bayesian Latent Class Modeling Approach. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004558.	3.0	40
33	Identification of Immunogenic <i>Salmonella enterica</i> Serotype Typhi Antigens Expressed in Chronic Biliary Carriers of <i>S. Typhi</i> in Kathmandu, Nepal. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2335.	3.0	39
34	Plasma and memory B cell responses targeting O-specific polysaccharide (OSP) are associated with protection against <i>Vibrio cholerae</i> O1 infection among household contacts of cholera patients in Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006399.	3.0	38
35	Evolution of Early SARS-CoV-2 and Cross-Coronavirus Immunity. <i>MSphere</i> , 2020, 5, .	2.9	38
36	Seroprevalence of Severe Acute Respiratory Syndrome Coronavirus 2 IgG in Juba, South Sudan, 2020. <i>Emerging Infectious Diseases</i> , 2021, 27, 1598-1606.	4.3	38

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37	Antigen-Specific Memory T Cell Responses after Vaccination with an Oral Killed Cholera Vaccine in Bangladeshi Children and Comparison to Responses in Patients with Naturally Acquired Cholera. <i>Vaccine Journal</i> , 2012, 19, 1304-1311.	3.1	37
38	Defining endemic cholera at three levels of spatiotemporal resolution within Bangladesh. <i>Nature Genetics</i> , 2018, 50, 951-955.	21.4	37
39	<i>Vibrio cholerae</i> genomic diversity within and between patients. <i>Microbial Genomics</i> , 2017, 3, .	2.0	37
40	Immunoproteomic Analysis of Antibody in Lymphocyte Supernatant in Patients with Typhoid Fever in Bangladesh. <i>Vaccine Journal</i> , 2014, 21, 280-285.	3.1	36
41	Immune Responses to the O-Specific Polysaccharide Antigen in Children Who Received a Killed Oral Cholera Vaccine Compared to Responses following Natural Cholera Infection in Bangladesh. <i>Vaccine Journal</i> , 2013, 20, 780-788.	3.1	35
42	Evaluation in Mice of a Conjugate Vaccine for Cholera Made from <i>Vibrio cholerae</i> O1 (Ogawa) O-Specific Polysaccharide. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2683.	3.0	34
43	Immune Responses to O-Specific Polysaccharide and Lipopolysaccharide of <i>Vibrio cholerae</i> O1 Ogawa in Adult Bangladeshi Recipients of an Oral Killed Cholera Vaccine and Comparison to Responses in Patients with Cholera. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 873-881.	1.4	30
44	Interferon- β and Proliferation Responses to <i>Salmonella enterica</i> Serotype Typhi Proteins in Patients with <i>S. Typhi</i> Bacteremia in Dhaka, Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1193.	3.0	30
45	Development of a new dipstick (Cholkit) for rapid detection of <i>Vibrio cholerae</i> O1 in acute watery diarrheal stools. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006286.	3.0	29
46	Anti-O-specific polysaccharide (OSP) immune responses following vaccination with oral cholera vaccine CVD 103-HgR correlate with protection against cholera after infection with wild-type <i>Vibrio cholerae</i> O1 El Tor Inaba in North American volunteers. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006376.	3.0	28
47	Plasma Immunoglobulin A Responses Against 2 <i>Salmonella</i> Typhi Antigens Identify Patients With Typhoid Fever. <i>Clinical Infectious Diseases</i> , 2019, 68, 949-955.	5.8	28
48	Analysis of <i>Salmonella enterica</i> Serotype Paratyphi A Gene Expression in the Blood of Bacteremic Patients in Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e908.	3.0	26
49	Cellular and Cytokine Responses to <i>Salmonella enterica</i> Serotype Typhi Proteins in Patients with Typhoid Fever in Bangladesh. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 1024-1030.	1.4	26
50	O-Specific Polysaccharide-Specific Memory B Cell Responses in Young Children, Older Children, and Adults Infected with <i>Vibrio cholerae</i> O1 Ogawa in Bangladesh. <i>Vaccine Journal</i> , 2016, 23, 427-435.	3.1	25
51	Typhoid Fever in Young Children in Bangladesh: Clinical Findings, Antibiotic Susceptibility Pattern and Immune Responses. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003619.	3.0	24
52	Frequency of Reexposure to <i>Vibrio cholerae</i> O1 Evaluated by Subsequent Vibriocidal Titer Rise after an Episode of Severe Cholera in a Highly Endemic Area in Bangladesh. <i>American Journal of Tropical Medicine and Hygiene</i> , 2012, 87, 921-926.	1.4	22
53	Estimating typhoid incidence from community-based serosurveys: a multicohort study. <i>Lancet Microbe</i> , The, 2022, 3, e578-e587.	7.3	22
54	Identification of <i>In Vivo</i> -Induced Bacterial Proteins during Human Infection with <i>Salmonella enterica</i> Serotype Paratyphi A. <i>Vaccine Journal</i> , 2013, 20, 712-719.	3.1	21

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55	Analysis of the Human Mucosal Response to Cholera Reveals Sustained Activation of Innate Immune Signaling Pathways. <i>Infection and Immunity</i> , 2018, 86, .	2.2	21
56	Plasma and Mucosal Immunoglobulin M, Immunoglobulin A, and Immunoglobulin G Responses to the <i>Vibrio cholerae</i> O1 Protein Immunome in Adults With Cholera in Bangladesh. <i>Journal of Infectious Diseases</i> , 2017, 216, 125-134.	4.0	20
57	Humans Surviving Cholera Develop Antibodies against <i>Vibrio cholerae</i> O-Specific Polysaccharide That Inhibit Pathogen Motility. <i>MBio</i> , 2020, 11, .	4.1	20
58	HIV Antibody Fc N-Linked Glycosylation Is Associated with Viral Rebound. <i>Cell Reports</i> , 2020, 33, 108502.	6.4	19
59	Disease characteristics and serological responses in patients with differing severity of COVID-19 infection: A longitudinal cohort study in Dhaka, Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010102.	3.0	18
60	Immunogenicity of the Bivalent Oral Cholera Vaccine Shanchol in Haitian Adults With HIV Infection. <i>Journal of Infectious Diseases</i> , 2015, 212, 779-783.	4.0	17
61	Fluorescence Polarization Based Nucleic Acid Testing for Rapid and Cost-Effective Diagnosis of Infectious Disease. <i>Chemistry - A European Journal</i> , 2015, 21, 16359-16363.	3.3	16
62	Immune responses to O-specific polysaccharide (OSP) in North American adults infected with <i>Vibrio cholerae</i> O1 Inaba. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007874.	3.0	13
63	Nanomagnetic System for Rapid Diagnosis of Acute Infection. <i>ACS Nano</i> , 2017, 11, 11425-11432.	14.6	12
64	Seroprevalence of SARS-CoV-2 antibodies in Bangladesh related to novel coronavirus infection. <i>IJID Regions</i> , 2022, 2, 198-203.	1.3	12
65	Structural basis for continued antibody evasion by the SARS-CoV-2 receptor binding domain. <i>Science</i> , 2021, , eabl6251.	12.6	12
66	A magneto-DNA nanoparticle system for the rapid and sensitive diagnosis of enteric fever. <i>Scientific Reports</i> , 2016, 6, 32878.	3.3	11
67	Induction of systemic, mucosal and memory antibody responses targeting <i>Vibrio cholerae</i> O1 O-specific polysaccharide (OSP) in adults following oral vaccination with an oral killed whole cell cholera vaccine in Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007634.	3.0	11
68	Evaluation of a Rapid Point-of-Care Multiplex Immunochromatographic Assay for the Diagnosis of Enteric Fever. <i>MSphere</i> , 2020, 5, .	2.9	11
69	<i>Vibrio cholerae</i> Sialidase-Specific Immune Responses Are Associated with Protection against Cholera. <i>MSphere</i> , 2021, 6, .	2.9	11
70	Posttranslational Regulation of IL-23 Production Distinguishes the Innate Immune Responses to Live Toxicogenic versus Heat-Inactivated <i>Vibrio cholerae</i> . <i>MSphere</i> , 2019, 4, .	2.9	10
71	Antibody Secreting Cell Responses following Vaccination with Bivalent Oral Cholera Vaccine among Haitian Adults. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004753.	3.0	10
72	Bivalent oral cholera vaccination induces a memory B cell response to the <i>V. cholerae</i> O1-polysaccharide antigen in Haitian adults. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007057.	3.0	8

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73	Impact of Immunoglobulin Isotype and Epitope on the Functional Properties of Vibrio cholerae O-Specific Polysaccharide-Specific Monoclonal Antibodies. <i>MBio</i> , 2021, 12, .	4.1	8
74	The Effect of Vaccine Type and SARS-CoV-2 Lineage on Commercial SARS-CoV-2 Serologic and Pseudotype Neutralization Assays in mRNA Vaccine Recipients. <i>Microbiology Spectrum</i> , 2022, 10, e0021122.	3.0	8
75	Repertoires of SARS-CoV-2 epitopes targeted by antibodies vary according to severity of COVID-19. <i>Virulence</i> , 2022, 13, 890-902.	4.4	8
76	Scalable production and immunogenicity of a cholera conjugate vaccine. <i>Vaccine</i> , 2021, 39, 6936-6946.	3.8	7
77	Case 11-2021: A 39-Year-Old Woman with Fever, Flank Pain, and Inguinal Lymphadenopathy. <i>New England Journal of Medicine</i> , 2021, 384, 1448-1456.	27.0	5
78	Parenteral Vaccination with a Cholera Conjugate Vaccine Boosts Vibriocidal and Anti-OSP Responses in Mice Previously Immunized with an Oral Cholera Vaccine. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, 104, 2024-2030.	1.4	5
79	Covishield vaccine induces robust immune responses in Bangladeshi adults. <i>IJID Regions</i> , 2022, 3, 211-217.	1.3	5
80	Systemic, Mucosal, and Memory Immune Responses following Cholera. <i>Tropical Medicine and Infectious Disease</i> , 2021, 6, 192.	2.3	4
81	Plasma Leptin Levels in Children Hospitalized with Cholera in Bangladesh. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 93, 244-249.	1.4	3
82	Defining Polysaccharide-Specific Antibody Targets against Vibrio cholerae O139 in Humans following O139 Cholera and following Vaccination with a Commercial Bivalent Oral Cholera Vaccine, and Evaluation of Conjugate Vaccines Targeting O139. <i>MSphere</i> , 2021, 6, e0011421.	2.9	3
83	Transcutaneous Vaccination with Conjugate Typhoid Vaccine Vi-DT Induces Systemic, Mucosal, and Memory Anti-Polysaccharide Responses. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 1032-1038.	1.4	1
84	396. Disparities in SARS-CoV-2 Antibody Prevalence: Findings from a Citywide Serosurvey in Holyoke, Massachusetts, November 2020–January 2021. <i>Open Forum Infectious Diseases</i> , 2021, 8, S299-S300.	0.9	0