

Carolyn Williamson

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

10,889
citations

76031

42
h-index

54771

88
g-index

103
all docs

103
docs citations

103
times ranked

13163
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. <i>Nature</i> , 2022, 603, 679-686.	13.7	1,210
2	Reduced amplification efficiency of the RNA-dependent-RNA-polymerase target enables tracking of the Delta SARS-CoV-2 variant using routine diagnostic tests. <i>Journal of Virological Methods</i> , 2022, 302, 114471.	1.0	8
3	Escape from recognition of SARS-CoV-2 variant spike epitopes but overall preservation of T cell immunity. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	77
4	Omicron extensively but incompletely escapes Pfizer BNT162b2 neutralization. <i>Nature</i> , 2022, 602, 654-656.	13.7	928
5	Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage. <i>Nature Communications</i> , 2022, 13, 1976.	5.8	27
6	Sixteen novel lineages of SARS-CoV-2 in South Africa. <i>Nature Medicine</i> , 2021, 27, 440-446.	15.2	326
7	Detection of a SARS-CoV-2 variant of concern in South Africa. <i>Nature</i> , 2021, 592, 438-443.	13.7	1,381
8	Cross-Reactive Neutralizing Antibody Responses Elicited by SARS-CoV-2 501Y.V2 (B.1.351). <i>New England Journal of Medicine</i> , 2021, 384, 2161-2163.	13.9	111
9	Immunological Correlates of the HIV-1 Replication-Competent Reservoir Size. <i>Clinical Infectious Diseases</i> , 2021, 73, 1528-1531.	2.9	4
10	Performance of saliva and mid-turbinate swabs for detection of the beta variant in South Africa. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 1354.	4.6	12
11	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. <i>Science</i> , 2021, 374, 423-431.	6.0	144
12	Prior infection with SARS-CoV-2 boosts and broadens Ad26.COVS immunogenicity in a variant-dependent manner. <i>Cell Host and Microbe</i> , 2021, 29, 1611-1619.e5.	5.1	106
13	ADCC-mediating non-neutralizing antibodies can exert immune pressure in early HIV-1 infection. <i>PLoS Pathogens</i> , 2021, 17, e1010046.	2.1	6
14	Antibody Isotype Switching as a Mechanism to Counter HIV Neutralization Escape. <i>Cell Reports</i> , 2020, 33, 108430.	2.9	16
15	HIV-1 Subtype C Tier 3 Viruses Have Increased Infectivity Compared to Tier 2 Viruses. <i>AIDS Research and Human Retroviruses</i> , 2020, 36, 1010-1019.	0.5	0
16	Effect of HIV Envelope Vaccination on the Subsequent Antibody Response to HIV Infection. <i>MSphere</i> , 2020, 5, .	1.3	3
17	Assessing the safety and pharmacokinetics of the anti-HIV monoclonal antibody CAP256V2LS alone and in combination with VRC07-523LS and PGT121 in South African women: study protocol for the first-in-human CAPRISA 012B phase I clinical trial. <i>BMJ Open</i> , 2020, 10, e042247.	0.8	25
18	Combining Viral Genetics and Statistical Modeling to Improve HIV-1 Time-of-Infection Estimation towards Enhanced Vaccine Efficacy Assessment. <i>Viruses</i> , 2019, 11, 607.	1.5	12

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19	The replication-competent HIV-1 latent reservoir is primarily established near the time of therapy initiation. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	141
20	Evidence for both Intermittent and Persistent Compartmentalization of HIV-1 in the Female Genital Tract. <i>Journal of Virology</i> , 2019, 93, .	1.5	9
21	Antibody-Dependent Cellular Cytotoxicity (ADCC)-Mediating Antibodies Constrain Neutralizing Antibody Escape Pathway. <i>Frontiers in Immunology</i> , 2019, 10, 2875.	2.2	20
22	Positive Selection at Key Residues in the HIV Envelope Distinguishes Broad and Strain-Specific Plasma Neutralizing Antibodies. <i>Journal of Virology</i> , 2019, 93, .	1.5	13
23	Integrin $\alpha 4 \beta 7$ expression on peripheral blood CD4 ⁺ T cells predicts HIV acquisition and disease progression outcomes. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	85
24	HIV Superinfection Drives De Novo Antibody Responses and Not Neutralization Breadth. <i>Cell Host and Microbe</i> , 2018, 24, 593-599.e3.	5.1	24
25	Case report: mechanisms of HIV elite control in two African women. <i>BMC Infectious Diseases</i> , 2018, 18, 54.	1.3	82
26	Replication Capacity of Viruses from Acute Infection Drives HIV-1 Disease Progression. <i>Journal of Virology</i> , 2017, 91, .	1.5	13
27	Panels of HIV-1 Subtype C Env Reference Strains for Standardized Neutralization Assessments. <i>Journal of Virology</i> , 2017, 91, .	1.5	23
28	Early evolution of human leucocyte antigen-associated escape mutations in variable Gag proteins predicts CD4 ⁺ decline in HIV-1 subtype C-infected women. <i>Aids</i> , 2017, 31, 191-197.	1.0	2
29	Cooperation between Strain-Specific and Broadly Neutralizing Responses Limited Viral Escape and Prolonged the Exposure of the Broadly Neutralizing Epitope. <i>Journal of Virology</i> , 2017, 91, .	1.5	35
30	Cervicovaginal Inflammation Facilitates Acquisition of Less Infectious HIV Variants. <i>Clinical Infectious Diseases</i> , 2017, 64, 79-82.	2.9	53
31	Structure and Recognition of a Novel HIV-1 gp120-gp41 Interface Antibody that Caused MPER Exposure through Viral Escape. <i>PLoS Pathogens</i> , 2017, 13, e1006074.	2.1	33
32	From Bench to Bedside: Lessons from HIV Natural History Cohort Studies. , 2017, , 137-152.		0
33	Optimal Combinations of Broadly Neutralizing Antibodies for Prevention and Treatment of HIV-1 Clade C Infection. <i>PLoS Pathogens</i> , 2016, 12, e1005520.	2.1	150
34	Structure of an N276-Dependent HIV-1 Neutralizing Antibody Targeting a Rare V5 Glycan Hole Adjacent to the CD4 Binding Site. <i>Journal of Virology</i> , 2016, 90, 10220-10235.	1.5	32
35	Metabolic Syndrome After HIV Acquisition in South African Women. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2016, 73, 438-445.	0.9	26
36	Approaches to the induction of HIV broadly neutralizing antibodies. <i>Current Opinion in HIV and AIDS</i> , 2016, 11, 569-575.	1.5	15

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37	Short Communication: A Recombinant Variant with Increased Envelope Entry Efficiency Emerged During Early Infection of an HIV-1 Subtype C Dual Infected Rapid Progressor. <i>AIDS Research and Human Retroviruses</i> , 2016, 32, 303-310.	0.5	3
38	Features of Recently Transmitted HIV-1 Clade C Viruses that Impact Antibody Recognition: Implications for Active and Passive Immunization. <i>PLoS Pathogens</i> , 2016, 12, e1005742.	2.1	81
39	South African HIV-1 subtype C transmitted variants with a specific V2 motif show higher dependence on $\hat{\pm}4^{27}$ for replication. <i>Retrovirology</i> , 2015, 12, 54.	0.9	19
40	HIV Disease Progression in Seroconvertors from the CAPRISA 004 Tenofovir Gel Pre-exposure Prophylaxis Trial. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2015, 68, 55-61.	0.9	10
41	Virological features associated with the development of broadly neutralizing antibodies to HIV-1. <i>Trends in Microbiology</i> , 2015, 23, 204-211.	3.5	77
42	HIV-1 Superinfection Resembles Primary Infection. <i>Journal of Infectious Diseases</i> , 2015, 212, 904-908.	1.9	13
43	Genital Inflammation and the Risk of HIV Acquisition in Women. <i>Clinical Infectious Diseases</i> , 2015, 61, 260-269.	2.9	354
44	Viral variants that initiate and drive maturation of V1V2-directed HIV-1 broadly neutralizing antibodies. <i>Nature Medicine</i> , 2015, 21, 1332-1336.	15.2	215
45	Differences in HIV Type 1 Neutralization Breadth in 2 Geographically Distinct Cohorts in Africa. <i>Journal of Infectious Diseases</i> , 2015, 211, 1461-1466.	1.9	7
46	Limited HIV-1 Superinfection in Seroconverters from the CAPRISA 004 Microbicide Trial. <i>Journal of Clinical Microbiology</i> , 2014, 52, 844-848.	1.8	14
47	Differential Impact of Magnitude, Polyfunctional Capacity, and Specificity of HIV-Specific CD8 ⁺ T Cell Responses on HIV Set Point. <i>Journal of Virology</i> , 2014, 88, 1819-1824.	1.5	36
48	Rapid Disease Progression in HIV-1 Subtype C ⁺ Infected South African Women. <i>Clinical Infectious Diseases</i> , 2014, 59, 1322-1331.	2.9	46
49	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. <i>Nature</i> , 2014, 509, 55-62.	13.7	681
50	Defining genital tract cytokine signatures of sexually transmitted infections and bacterial vaginosis in women at high risk of HIV infection: a cross-sectional study. <i>Sexually Transmitted Infections</i> , 2014, 90, 580-587.	0.8	173
51	Impact of Clade, Geography, and Age of the Epidemic on HIV-1 Neutralization by Antibodies. <i>Journal of Virology</i> , 2014, 88, 12623-12643.	1.5	75
52	Epidemiology of HIV-1 Subtypes Among Men Who Have Sex With Men in Cape Town, South Africa. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2014, 65, 473-480.	0.9	25
53	Comparison of Viral Env Proteins from Acute and Chronic Infections with Subtype C Human Immunodeficiency Virus Type 1 Identifies Differences in Glycosylation and CCR5 Utilization and Suggests a New Strategy for Immunogen Design. <i>Journal of Virology</i> , 2013, 87, 7218-7233.	1.5	119
54	Identification of broadly neutralizing antibody epitopes in the HIV-1 envelope glycoprotein using evolutionary models. <i>Virology Journal</i> , 2013, 10, 347.	1.4	14

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55	Viral Escape from HIV-1 Neutralizing Antibodies Drives Increased Plasma Neutralization Breadth through Sequential Recognition of Multiple Epitopes and Immunotypes. <i>PLoS Pathogens</i> , 2013, 9, e1003738.	2.1	190
56	Multiple Pathways of Escape from HIV Broadly Cross-Neutralizing V2-Dependent Antibodies. <i>Journal of Virology</i> , 2013, 87, 4882-4894.	1.5	65
57	Rapid, complex adaptation of transmitted HIV-1 full-length genomes in subtype C-infected individuals with differing disease progression. <i>Aids</i> , 2013, 27, 507-518.	1.0	14
58	Challenges of Diagnosing Acute HIV-1 Subtype C Infection in African Women: Performance of a Clinical Algorithm and the Need for Point-of-Care Nucleic-Acid Based Testing. <i>PLoS ONE</i> , 2013, 8, e62928.	1.1	13
59	Genital Tract Inflammation During Early HIV-1 Infection Predicts Higher Plasma Viral Load Set Point in Women. <i>Journal of Infectious Diseases</i> , 2012, 205, 194-203.	1.9	67
60	Intersubtype Differences in the Effect of a Rare p24 Gag Mutation on HIV-1 Replicative Fitness. <i>Journal of Virology</i> , 2012, 86, 13423-13433.	1.5	9
61	The HIV-1 Epidemic: Low- to Middle-Income Countries. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a007187-a007187.	2.9	89
62	Symptomatic Vaginal Discharge Is a Poor Predictor of Sexually Transmitted Infections and Genital Tract Inflammation in High-Risk Women in South Africa. <i>Journal of Infectious Diseases</i> , 2012, 206, 6-14.	1.9	171
63	Increased Memory Differentiation Is Associated with Decreased Polyfunctionality for HIV but Not for Cytomegalovirus-Specific CD8+ T Cells. <i>Journal of Immunology</i> , 2012, 189, 3838-3847.	0.4	18
64	Evolution of an HIV glycanâ€“dependent broadly neutralizing antibody epitope through immune escape. <i>Nature Medicine</i> , 2012, 18, 1688-1692.	15.2	273
65	The Neutralization Breadth of HIV-1 Develops Incrementally over Four Years and Is Associated with CD4 ⁺ T Cell Decline and High Viral Load during Acute Infection. <i>Journal of Virology</i> , 2011, 85, 4828-4840.	1.5	441
66	Potent and Broad Neutralization of HIV-1 Subtype C by Plasma Antibodies Targeting a Quaternary Epitope Including Residues in the V2 Loop. <i>Journal of Virology</i> , 2011, 85, 3128-3141.	1.5	151
67	Multiple HIV-1 infections with evidence of recombination in heterosexual partnerships in a low risk Rural Clinical Cohort in Uganda. <i>Virology</i> , 2011, 411, 113-131.	1.1	26
68	Short Communication Decreased Incidence of Dual Infections in South African Subtype C-Infected Women Compared to a Cohort Ten Years Earlier. <i>AIDS Research and Human Retroviruses</i> , 2011, 27, 1167-1172.	0.5	7
69	Plasma cytokine levels during acute HIV-1 infection predict HIV disease progression. <i>Aids</i> , 2010, 24, 819-831.	1.0	195
70	A rev1â€“vpu polymorphism unique to HIV-1 subtype A and C strains impairs envelope glycoprotein expression from revâ€“vpuâ€“env cassettes and reduces virion infectivity in pseudotyping assays. <i>Virology</i> , 2010, 397, 346-357.	1.1	20
71	Fluidity of HIV-1-Specific T-Cell Responses during Acute and Early Subtype C HIV-1 Infection and Associations with Early Disease Progression. <i>Journal of Virology</i> , 2010, 84, 12018-12029.	1.5	26
72	Association of HIV-Specific and Total CD8+ T Memory Phenotypes in Subtype C HIV-1 Infection with Viral Set Point. <i>Journal of Immunology</i> , 2009, 182, 4751-4761.	0.4	75

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73	Limited Neutralizing Antibody Specificities Drive Neutralization Escape in Early HIV-1 Subtype C Infection. <i>PLoS Pathogens</i> , 2009, 5, e1000598.	2.1	213
74	Human Immunodeficiency Virus-Specific Gamma Interferon Enzyme-Linked Immunospot Assay Responses Targeting Specific Regions of the Proteome during Primary Subtype C Infection Are Poor Predictors of the Course of Viremia and Set Point. <i>Journal of Virology</i> , 2009, 83, 470-478.	1.5	63
75	HIV molecular epidemiology: transmission and adaptation to human populations. <i>Current Opinion in HIV and AIDS</i> , 2009, 4, 247-252.	1.5	27
76	Conserved positive selection signals in gp41 across multiple subtypes and difference in selection signals detectable in gp41 sequences sampled during acute and chronic HIV-1 subtype C infection. <i>Virology Journal</i> , 2008, 5, 141.	1.4	4
77	The C3-V4 Region Is a Major Target of Autologous Neutralizing Antibodies in Human Immunodeficiency Virus Type 1 Subtype C Infection. <i>Journal of Virology</i> , 2008, 82, 1860-1869.	1.5	142
78	Anaemia in Acute HIV-1 Subtype C Infection. <i>PLoS ONE</i> , 2008, 3, e1626.	1.1	15
79	Establishing a Cohort at High Risk of HIV Infection in South Africa: Challenges and Experiences of the CAPRISA 002 Acute Infection Study. <i>PLoS ONE</i> , 2008, 3, e1954.	1.1	175
80	Utilizing nucleic acid amplification to identify acute HIV infection. <i>Aids</i> , 2007, 21, 653-655.	1.0	11
81	Longitudinal Analysis of HIV Type 1 Subtype C Envelope Sequences from South Africa. <i>AIDS Research and Human Retroviruses</i> , 2007, 23, 316-321.	0.5	25
82	Genetic characteristics of HIV-1 subtype C envelopes inducing cross-neutralizing antibodies. <i>Virology</i> , 2007, 368, 172-181.	1.1	45
83	Genetic and Neutralization Properties of Subtype C Human Immunodeficiency Virus Type 1 Molecular env Clones from Acute and Early Heterosexually Acquired Infections in Southern Africa. <i>Journal of Virology</i> , 2006, 80, 11776-11790.	1.5	334
84	Incidence of HIV-1 Dual Infection and Its Association with Increased Viral Load Set Point in a Cohort of HIV-1 Subtype C-Infected Female Sex Workers. <i>Journal of Infectious Diseases</i> , 2004, 190, 1355-1359.	1.9	119
85	Dual HIV-1 infection associated with rapid disease progression. <i>Lancet, The</i> , 2004, 363, 619-622.	6.3	189
86	Characterization and Selection of HIV-1 Subtype C Isolates for Use in Vaccine Development. <i>AIDS Research and Human Retroviruses</i> , 2003, 19, 133-144.	0.5	113
87	Regional Clustering of Shared Neutralization Determinants on Primary Isolates of Clade C Human Immunodeficiency Virus Type 1 from South Africa. <i>Journal of Virology</i> , 2002, 76, 2233-2244.	1.5	111
88	Restriction fragment length polymorphism analysis for rapid gag subtype determination of human immunodeficiency virus Type 1 in South Africa. <i>Journal of Virological Methods</i> , 1999, 78, 51-59.	1.0	17
89	An association between HIV-1 subtypes and mode of transmission in Cape Town, South Africa. <i>Aids</i> , 1997, 11, 81-87.	1.0	118
90	HIV-1 subtypes in different risk groups in South Africa. <i>Lancet, The</i> , 1995, 346, 782.	6.3	44

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91	HIV Coinfection Provides Insights for the Design of Vaccine Cocktails to Elicit Broadly Neutralizing Antibodies. Journal of Virology, 0, , .	1.5	0