

# Gert U Van Zyl

## List of Publications by Citations

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84  
papers

2,499  
citations

26  
h-index

49  
g-index

93  
ext. papers

3,473  
ext. citations

6.9  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
84	Detection of a SARS-CoV-2 variant of concern in South Africa. <i>Nature</i> , <b>2021</b> , 592, 438-443	50.4	685
83	Sixteen novel lineages of SARS-CoV-2 in South Africa. <i>Nature Medicine</i> , <b>2021</b> , 27, 440-446	50.5	206
82	HIV treatment adherence, drug resistance, virologic failure: evolving concepts. <i>Infectious Disorders - Drug Targets</i> , <b>2011</b> , 11, 167-74	1.1	149
81	Adult antiretroviral therapy guidelines 2017. <i>Southern African Journal of HIV Medicine</i> , <b>2017</b> , 18, 776	1.4	110
80	Emergence of HIV drug resistance during first- and second-line antiretroviral therapy in resource-limited settings. <i>Journal of Infectious Diseases</i> , <b>2013</b> , 207 Suppl 2, S49-56	7	95
79	Low lopinavir plasma or hair concentrations explain second-line protease inhibitor failures in a resource-limited setting. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2011</b> , 56, 333-9	3.1	91
78	Significantly diminished long-term specificity of the BED capture enzyme immunoassay among patients with HIV-1 with very low CD4 counts and those on antiretroviral therapy. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2010</b> , 53, 496-9	3.1	60
77	HIV-1 Drug Resistance Mutations: Potential Applications for Point-of-Care Genotypic Resistance Testing. <i>PLoS ONE</i> , <b>2015</b> , 10, e0145772	3.7	58
76	Trends in Genotypic HIV-1 Antiretroviral Resistance between 2006 and 2012 in South African Patients Receiving First- and Second-Line Antiretroviral Treatment Regimens. <i>PLoS ONE</i> , <b>2013</b> , 8, e67188	3.7	52
75	Deep sequencing reveals minor protease resistance mutations in patients failing a protease inhibitor regimen. <i>Journal of Virology</i> , <b>2012</b> , 86, 6231-7	6.6	51
74	No evidence of HIV replication in children on antiretroviral therapy. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 3827-3834	15.9	44
73	Pooling strategies to reduce the cost of HIV-1 RNA load monitoring in a resource-limited setting. <i>Clinical Infectious Diseases</i> , <b>2011</b> , 52, 264-70	11.6	42
72	Protease inhibitor resistance in South African children with virologic failure. <i>Pediatric Infectious Disease Journal</i> , <b>2009</b> , 28, 1125-7	3.4	42
71	Early Antiretroviral Therapy in South African Children Reduces HIV-1-Infected Cells and Cell-Associated HIV-1 RNA in Blood Mononuclear Cells. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 212, 39-43	7	40
70	HIV evolution and diversity in ART-treated patients. <i>Retrovirology</i> , <b>2018</b> , 15, 14	3.6	36
69	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. <i>Science</i> , <b>2021</b> , 374, 423-431	33.3	35
68	HIV drug resistance (HIVDR) in antiretroviral therapy-naïve patients in Tanzania not eligible for WHO threshold HIVDR survey is dramatically high. <i>PLoS ONE</i> , <b>2011</b> , 6, e23091	3.7	34

67	Antiretroviral resistance patterns and factors associated with resistance in adult patients failing NNRTI-based regimens in the Western Cape, South Africa. <i>Journal of Medical Virology</i> , <b>2011</b> , 83, 1764-9	19.7	33
66	Next generation sequencing improves detection of drug resistance mutations in infants after PMTCT failure. <i>Journal of Clinical Virology</i> , <b>2015</b> , 62, 48-53	14.5	31
65	Future technologies for monitoring HIV drug resistance and cure. <i>Current Opinion in HIV and AIDS</i> , <b>2017</b> , 12, 182-189	4.2	31
64	Moderate Levels of Pre-Treatment HIV-1 Antiretroviral Drug Resistance Detected in the First South African National Survey. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166305	3.7	31
63	A genomics network established to respond rapidly to public health threats in South Africa. <i>Lancet Microbe, The</i> , <b>2020</b> , 1, e229-e230	22.2	30
62	Zidovudine with nevirapine for the prevention of HIV mother-to-child transmission reduces nevirapine resistance in mothers from the Western Cape, South Africa. <i>Journal of Medical Virology</i> , <b>2008</b> , 80, 942-6	19.7	30
61	Nucleoside reverse transcriptase inhibitor resistance mutations associated with first-line stavudine-containing antiretroviral therapy: programmatic implications for countries phasing out stavudine. <i>Journal of Infectious Diseases</i> , <b>2013</b> , 207 Suppl 2, S70-7	7	28
60	HIV-1 antiretroviral drug resistance patterns in patients failing NNRTI-based treatment: results from a national survey in South Africa. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 210-219	5.1	27
59	Pitfalls with rapid HIV antibody testing in HIV-infected children in the Western Cape, South Africa. <i>Journal of Clinical Virology</i> , <b>2006</b> , 37, 68-71	14.5	27
58	Establishing diagnostic cut-off criteria for the COBAS AmpliPrep/COBAS TaqMan HIV-1 Qualitative test through validation against the Amplicor DNA test v1.5 for infant diagnosis using dried blood spots. <i>Journal of Clinical Virology</i> , <b>2012</b> , 53, 106-9	14.5	26
57	Mutational Correlates of Virological Failure in Individuals Receiving a WHO-Recommended Tenofovir-Containing First-Line Regimen: An International Collaboration. <i>EBioMedicine</i> , <b>2017</b> , 18, 225-235	8.8	25
56	Assessment of HIV transfusion transmission risk in South Africa: a 10-year analysis following implementation of individual donation nucleic acid amplification technology testing and donor demographics eligibility changes. <i>Transfusion</i> , <b>2019</b> , 59, 267-276	2.9	25
55	Collaborative update of a rule-based expert system for HIV-1 genotypic resistance test interpretation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181357	3.7	22
54	Prevalence of Antiretroviral Drug Resistance in Patients Who Are Not Responding to Protease Inhibitor-Based Treatment: Results From the First National Survey in South Africa. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 214, 1826-1830	7	19
53	Rapid decline of HIV-1 DNA and RNA in infants starting very early antiretroviral therapy may pose a diagnostic challenge. <i>Aids</i> , <b>2018</b> , 32, 629-634	3.5	17
52	Rapid replacement of the Beta variant by the Delta variant in South Africa		17
51	Virologic failure among children taking lopinavir/ritonavir-containing first-line antiretroviral therapy in South Africa. <i>Pediatric Infectious Disease Journal</i> , <b>2015</b> , 34, 175-9	3.4	16
50	Irreproducible positive results on the Cobas AmpliPrep/Cobas TaqMan HIV-1 Qual test are different qualitatively from confirmed positive results. <i>Journal of Medical Virology</i> , <b>2014</b> , 86, 82-7	19.7	15

49	It is time to consider third-line options in antiretroviral-experienced paediatric patients?. <i>Journal of the International AIDS Society</i> , <b>2011</b> , 14, 55	5.4	15
48	Paper-based detection of HIV-1 drug resistance using isothermal amplification and an oligonucleotide ligation assay. <i>Analytical Biochemistry</i> , <b>2018</b> , 544, 64-71	3.1	15
47	Mutational Heterogeneity in p6 Gag Late Assembly (L) Domains in HIV-1 Subtype C Viruses from South Africa. <i>AIDS Research and Human Retroviruses</i> , <b>2016</b> , 32, 80-4	1.6	13
46	Barriers to HIV remission research in low- and middle-income countries. <i>Journal of the International AIDS Society</i> , <b>2017</b> , 20, 21521	5.4	12
45	Lessons in diagnostic virology: expected and unexpected sources of error. <i>Reviews in Medical Virology</i> , <b>2019</b> , 29, e2052	11.7	12
44	HIV-1 DNA decay is faster in children who initiate ART shortly after birth than later. <i>Journal of the International AIDS Society</i> , <b>2019</b> , 22, e25368	5.4	10
43	Surveillance of transmitted resistance to antiretroviral drug classes among young children in the Western Cape Province of South Africa. <i>Pediatric Infectious Disease Journal</i> , <b>2010</b> , 29, 370-1	3.4	9
42	Intact HIV Proviruses Persist in Children Seven to Nine Years after Initiation of Antiretroviral Therapy in the First Year of Life. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	8
41	A qualitative PCR minipool strategy to screen for virologic failure and antiretroviral drug resistance in South African patients on first-line antiretroviral therapy. <i>Journal of Clinical Virology</i> , <b>2014</b> , 60, 387-91	14.5	8
40	CD4 count-based failure criteria combined with viral load monitoring may trigger worse switch decisions than viral load monitoring alone. <i>Tropical Medicine and International Health</i> , <b>2016</b> , 21, 219-23	2.3	8
39	Southern African Treatment Resistance Network (SATuRN) RegaDB HIV drug resistance and clinical management database: supporting patient management, surveillance and research in southern Africa. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2014</b> , 2014, bat082	5	7
38	A Clinical Prediction Rule for Protease Inhibitor Resistance in Patients Failing Second-Line Antiretroviral Therapy. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2019</b> , 80, 325-329	3.1	7
37	Pooled PCR testing of dried blood spots for infant HIV diagnosis is cost efficient and accurate. <i>BMC Infectious Diseases</i> , <b>2019</b> , 19, 136	4	6
36	Virologic efficacy of tenofovir, lamivudine and dolutegravir as second-line antiretroviral therapy in adults failing a tenofovir-based first-line regimen. <i>Aids</i> , <b>2021</b> , 35, 1423-1432	3.5	6
35	Pharmacogenetics and pharmacokinetics of CNS penetration of efavirenz and its metabolites. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 699-709	5.1	6
34	The effect of interventions on the transmission and spread of HIV in South Africa: a phylodynamic analysis. <i>Scientific Reports</i> , <b>2019</b> , 9, 2640	4.9	5
33	Moderate levels of pre-therapy drug resistance (PDR) in a generalised epidemic: time for better first-line ART?. <i>Aids</i> , <b>2017</b> , 31, 2387-2391	3.5	5
32	Emerging antiretroviral drug resistance in sub-Saharan Africa: novel affordable technologies are needed to provide resistance testing for individual and public health benefits. <i>Aids</i> , <b>2014</b> , 28, 2643-8	3.5	5

31	NucliSens EasyQ HIV-1 V1.2 system: Detection of human plasma-derived background signal. <i>Journal of Virological Methods</i> , <b>2010</b> , 165, 318-9	2.6	5
30	Extraction buffer contaminated bacterially as a cause of invalid HIV-1 viral load results on the NucliSens EasyQ system. <i>Journal of Virological Methods</i> , <b>2008</b> , 150, 80-1	2.6	5
29	Southern African HIV Clinicians Society Guidance on the use of dolutegravir in first-line antiretroviral therapy. <i>Southern African Journal of HIV Medicine</i> , <b>2018</b> , 19, 917	1.4	5
28	Early Emergence and Long-Term Persistence of HIV-Infected T-Cell Clones in Children. <i>MBio</i> , <b>2021</b> , 12,	7.8	5
27	Pooled testing: A tool to increase efficiency of infant HIV diagnosis and virological monitoring. <i>African Journal of Laboratory Medicine</i> , <b>2020</b> , 9, 1035	0.9	4
26	Neurodevelopment at 11 months after starting antiretroviral therapy within 3 weeks of life. <i>Southern African Journal of HIV Medicine</i> , <b>2019</b> , 20, 1008	1.4	4
25	What Should We Do When HIV-positive Children Fail First-line Combination Antiretroviral Therapy? A Comparison of 4 ART Management Strategies. <i>Pediatric Infectious Disease Journal</i> , <b>2019</b> , 38, 400-405	3.4	3
24	Late-Onset Hiv Encephalopathy In Children With Long-Standing Virologic Suppression Followed By Slow Spontaneous Recovery Despite no Change In Antiretroviral Therapy: 4 Case Reports. <i>Pediatric Infectious Disease Journal</i> , <b>2017</b> , 36, e264-e267	3.4	3
23	Antiretroviral therapy in children with tuberculosis: progress toward defining the issues. <i>Journal of Infectious Diseases</i> , <b>2010</b> , 201, 1113-4	7	3
22	Acute extrapyramidal dysfunction in two HIV-infected children. <i>Journal of Tropical Pediatrics</i> , <b>2011</b> , 57, 227-31	1.2	3
21	Young age a predictor of weak reactivity in a rapid antibody test in infants infected with HIV. <i>Journal of Medical Virology</i> , <b>2010</b> , 82, 1314-7	19.7	3
20	High positive HIV serology results can still be false positive. <i>IDCases</i> , <b>2020</b> , 21, e00849	2	2
19	Drug resistance, rather than low tenofovir levels in blood or urine, is associated with tenofovir, emtricitabine and efavirenz (TEE) failure in resource-limited settings. <i>AIDS Research and Human Retroviruses</i> , <b>2021</b> ,	1.6	2
18	Comparing mutational pathways to lopinavir resistance in HIV-1 subtypes B versus C		2
17	Viral suppression is associated with HIV-antibody level and HIV-1 DNA detectability in early treated children at 2 years of age. <i>Aids</i> , <b>2021</b> , 35, 1247-1252	3.5	2
16	PhyloPi: An affordable, purpose built phylogenetic pipeline for the HIV drug resistance testing facility. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213241	3.7	1
15	HIV-1 RNA testing of pooled dried blood spots is feasible to diagnose acute HIV infection in resource limited settings. <i>Southern African Journal of Infectious Diseases</i> , <b>2018</b> , 33, 50-53	0.4	1
14	Another milestone in minimizing risks to mothers exposed to single-dose nevirapine for prevention of vertical transmission of HIV-1 to infants: what next?. <i>Clinical Infectious Diseases</i> , <b>2010</b> , 50, 909-11	11.6	1

13	Prevalence and patterns of HIV drug resistance in patients with suspected virological failure in North-Western Tanzania.. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2022</b> , 77, 483-491	5.1	1
12	Appropriate clinical use of darunavir 800 mg. <i>Southern African Journal of HIV Medicine</i> , <b>2018</b> , 19, 918	1.4	1
11	Seroprevalence of infection among pregnant women in Windhoek, Namibia, in 2016. <i>Southern African Journal of Infectious Diseases</i> , <b>2020</b> , 35, 25	0.4	1
10	Novel Criteria for Diagnosing Acute and Early Human Immunodeficiency Virus Infection in a Multinational Study of Early Antiretroviral Therapy Initiation. <i>Clinical Infectious Diseases</i> , <b>2021</b> , 73, e643-e651	11.6	1
9	HIV-1 Persistence in Children during Suppressive ART. <i>Viruses</i> , <b>2021</b> , 13,	6.2	1
8	HIV false positive screening serology due to sample contamination reduced by a dedicated sample and platform in a high prevalence environment. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245189	3.7	1
7	Comparing mutational pathways to lopinavir resistance in HIV-1 subtypes B versus C. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008363	5	1
6	GOUSSARD et al."To the Editor"Fatal SARS-CoV-2 Omicron variant in a young infant: Autopsy findings.. <i>Pediatric Pulmonology</i> , <b>2022</b> ,	3.5	1
5	HIVIntact: a python-based tool for HIV-1 genome intactness inference. <i>Retrovirology</i> , <b>2021</b> , 18, 16	3.6	0
4	The Namibian poliomyelitis outbreak and its consequences for South Africa. <i>South African Family Practice: Official Journal of the South African Academy of Family Practice/Primary Care</i> , <b>2006</b> , 48, 3-6	0.6	
3	Rapid emergence of resistance to antiretroviral treatment after undisclosed prior exposure: A case report. <i>Southern African Journal of HIV Medicine</i> , <b>2019</b> , 20, 965	1.4	
2	Intrapartum human immunodeficiency virus transmission rate in a central hospital in the Western Cape province after universal antiretroviral therapy roll-out. <i>Southern African Journal of Infectious Diseases</i> , <b>2020</b> , 35, 192	0.4	
1	Is HIV-1C a risk factor for protease inhibitor failure?. <i>Lancet HIV,the</i> , <b>2016</b> , 3, e149-51	7.8	