Michael B Zwick

List of Publications by Year
in descending order

29 papers	2,603 citations	331670 21 h-index	477307 29 g-index
32 all docs	32 docs citations	32 times ranked	2583 citing authors

#	Article	IF	Citations
1	Broadly Neutralizing Anti-HIV Antibody 4E10 Recognizes a Helical Conformation of a Highly Conserved Fusion-Associated Motif in gp41. Immunity, 2005, 22, 163-173.	14.3	410
2	Broadly Neutralizing HIV Antibodies Define a Glycan-Dependent Epitope on the Prefusion Conformation of gp41 on Cleaved Envelope Trimers. Immunity, 2014, 40, 657-668.	14.3	342
3	A Limited Number of Antibody Specificities Mediate Broad and Potent Serum Neutralization in Selected HIV-1 Infected Individuals. PLoS Pathogens, 2010, 6, e1001028.	4.7	335
4	An Affinity-Enhanced Neutralizing Antibody against the Membrane-Proximal External Region of Human Immunodeficiency Virus Type 1 gp41 Recognizes an Epitope between Those of 2F5 and 4E10. Journal of Virology, 2007, 81, 4033-4043.	3.4	169
5	High-Density Array of Well-Ordered HIV-1 Spikes on Synthetic Liposomal Nanoparticles Efficiently Activate B Cells. Cell Reports, 2016, 15, 1986-1999.	6.4	127
6	The Long Third Complementarity-Determining Region of the Heavy Chain Is Important in the Activity of the Broadly Neutralizing Anti-Human Immunodeficiency Virus Type 1 Antibody 2F5. Journal of Virology, 2004, 78, 3155-3161.	3.4	111
7	Vaccination with Glycan-Modified HIV NFL Envelope Trimer-Liposomes Elicits Broadly Neutralizing Antibodies to Multiple Sites of Vulnerability. Immunity, 2019, 51, 915-929.e7.	14.3	111
8	Immune Tolerance Negatively Regulates B Cells in Knock-In Mice Expressing Broadly Neutralizing HIV Antibody 4E10. Journal of Immunology, 2013, 191, 3186-3191.	0.8	103
9	Molecular Features of the Broadly Neutralizing Immunoglobulin G1 b12 Required for Recognition of Human Immunodeficiency Virus Type 1 gp120. Journal of Virology, 2003, 77, 5863-5876.	3.4	100
10	Antibodies to a conformational epitope on gp41 neutralize HIV-1 by destabilizing the Env spike. Nature Communications, 2015, 6, 8167.	12.8	87
11	Covalent Linkage of HIV-1 Trimers to Synthetic Liposomes Elicits Improved B Cell and Antibody Responses. Journal of Virology, 2017, 91, .	3.4	71
12	A Novel Human Antibody against Human Immunodeficiency Virus Type 1 gp120 Is V1, V2, and V3 Loop Dependent and Helps Delimit the Epitope of the Broadly Neutralizing Antibody Immunoglobulin G1 b12. Journal of Virology, 2003, 77, 6965-6978.	3.4	67
13	HIV-1 Envelope and MPER Antibody Structures in Lipid Assemblies. Cell Reports, 2020, 31, 107583.	6.4	60
14	Increased Functional Stability and Homogeneity of Viral Envelope Spikes through Directed Evolution. PLoS Pathogens, 2013, 9, e1003184.	4.7	55
15	Antibody to gp41 MPER Alters Functional Properties of HIV-1 Env without Complete Neutralization. PLoS Pathogens, 2014, 10, e1004271.	4.7	54
16	Dense Array of Spikes on HIV-1 Virion Particles. Journal of Virology, 2017, 91, .	3.4	53
17	In-Solution Virus Capture Assay Helps Deconstruct Heterogeneous Antibody Recognition of Human Immunodeficiency Virus Type 1. Journal of Virology, 2010, 84, 3382-3395.	3.4	52
18	Antibody elicited against the gp41 N-heptad repeat (NHR) coiled-coil can neutralize HIV-1 with modest potency but non-neutralizing antibodies also bind to NHR mimetics. Virology, 2008, 377, 170-183.	2.4	50

#	Article	IF	Citations
19	Cryo-ET of Env on intact HIV virions reveals structural variation and positioning on the Gag lattice. Cell, 2022, 185, 641-653.e17.	28.9	50
20	An MPER antibody neutralizes HIV-1 using germline features shared among donors. Nature Communications, 2019, 10, 5389.	12.8	44
21	Functional Stability of Unliganded Envelope Glycoprotein Spikes among Isolates of Human Immunodeficiency Virus Type 1 (HIV-1). PLoS ONE, 2011, 6, e21339.	2.5	34
22	Immunogenic Display of Purified Chemically Cross-Linked HIV-1 Spikes. Journal of Virology, 2015, 89, 6725-6745.	3.4	24
23	Functional Optimization of Broadly Neutralizing HIV-1 Antibody 10E8 by Promotion of Membrane Interactions. Journal of Virology, 2018, 92, .	3.4	21
24	Trimerization of the HIV Transmembrane Domain in Lipid Bilayers Modulates Broadly Neutralizing Antibody Binding. Angewandte Chemie - International Edition, 2016, 55, 2688-2692.	13.8	20
25	Functional Stability of HIV-1 Envelope Trimer Affects Accessibility to Broadly Neutralizing Antibodies at Its Apex. Journal of Virology, 2017, 91, .	3.4	19
26	A V _H 1-69 antibody lineage from an infected Chinese donor potently neutralizes HIV-1 by targeting the V3 glycan supersite. Science Advances, 2020, 6, .	10.3	19
27	Affinity for the Interface Underpins Potency of Antibodies Operating In Membrane Environments. Cell Reports, 2020, 32, 108037.	6.4	10
28	Membrane Env Liposomes Facilitate Immunization with Multivalent Full-Length HIV Spikes. Journal of Virology, 2021, 95, e0000521.	3.4	4
29	Focal accumulation of aromaticity at the CDRH3 loop mitigates 4E10 polyreactivity without altering its HIV neutralization profile. IScience, 2021, 24, 102987.	4.1	1