

# Dennis R Burton

## List of Publications by Year in descending order

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250  
papers

47,908  
citations

1238

110  
h-index

2033

205  
g-index

285  
all docs

285  
docs citations

285  
times ranked

25965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad and Potent Neutralizing Antibodies from an African Donor Reveal a New HIV-1 Vaccine Target. <i>Science</i> , 2009, 326, 285-289.	12.6	1,614
2	Broad neutralization coverage of HIV by multiple highly potent antibodies. <i>Nature</i> , 2011, 477, 466-470.	27.8	1,397
3	Isolation of potent SARS-CoV-2 neutralizing antibodies and protection from disease in a small animal model. <i>Science</i> , 2020, 369, 956-963.	12.6	1,287
4	Sequence and Structural Convergence of Broad and Potent HIV Antibodies That Mimic CD4 Binding. <i>Science</i> , 2011, 333, 1633-1637.	12.6	1,046
5	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17033-17038.	7.1	1,039
6	Multiplex PCR method for MinION and Illumina sequencing of Zika and other virus genomes directly from clinical samples. <i>Nature Protocols</i> , 2017, 12, 1261-1276.	12.0	898
7	Crystal Structure of a Neutralizing Human IgG Against HIV-1: A Template for Vaccine Design. <i>Science</i> , 2001, 293, 1155-1159.	12.6	870
8	Fc receptor but not complement binding is important in antibody protection against HIV. <i>Nature</i> , 2007, 449, 101-104.	27.8	828
9	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. <i>Nature</i> , 2011, 480, 336-343.	27.8	794
10	Crystal Structure of a Soluble Cleaved HIV-1 Envelope Trimer. <i>Science</i> , 2013, 342, 1477-1483.	12.6	793
11	HIV vaccine design and the neutralizing antibody problem. <i>Nature Immunology</i> , 2004, 5, 233-236.	14.5	721
12	Structural definition of a conserved neutralization epitope on HIV-1 gp120. <i>Nature</i> , 2007, 445, 732-737.	27.8	715
13	Rational HIV Immunogen Design to Target Specific Germline B Cell Receptors. <i>Science</i> , 2013, 340, 711-716.	12.6	680
14	Cryo-EM Structure of a Fully Glycosylated Soluble Cleaved HIV-1 Envelope Trimer. <i>Science</i> , 2013, 342, 1484-1490.	12.6	662
15	Antibody Protects Macaques against Vaginal Challenge with a Pathogenic R5 Simian/Human Immunodeficiency Virus at Serum Levels Giving Complete Neutralization In Vitro. <i>Journal of Virology</i> , 2001, 75, 8340-8347.	3.4	649
16	A Potent and Broad Neutralizing Antibody Recognizes and Penetrates the HIV Glycan Shield. <i>Science</i> , 2011, 334, 1097-1103.	12.6	644
17	Complement Is Activated by IgG Hexamers Assembled at the Cell Surface. <i>Science</i> , 2014, 343, 1260-1263.	12.6	602
18	Therapeutic efficacy of potent neutralizing HIV-1-specific monoclonal antibodies in SHIV-infected rhesus monkeys. <i>Nature</i> , 2013, 503, 224-228.	27.8	593

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19	Antibodies, viruses and vaccines. <i>Nature Reviews Immunology</i> , 2002, 2, 706-713.	22.7	571
20	Human Immunodeficiency Virus Type 1 Elite Neutralizers: Individuals with Broad and Potent Neutralizing Activity Identified by Using a High-Throughput Neutralization Assay together with an Analytical Selection Algorithm. <i>Journal of Virology</i> , 2009, 83, 7337-7348.	3.4	538
21	Structural basis of a shared antibody response to SARS-CoV-2. <i>Science</i> , 2020, 369, 1119-1123.	12.6	536
22	Broad neutralization of SARS-related viruses by human monoclonal antibodies. <i>Science</i> , 2020, 369, 731-736.	12.6	534
23	Effective, low-titer antibody protection against low-dose repeated mucosal SHIV challenge in macaques. <i>Nature Medicine</i> , 2009, 15, 951-954.	30.7	509
24	Antibodies inhibit prion propagation and clear cell cultures of prion infectivity. <i>Nature</i> , 2001, 412, 739-743.	27.8	503
25	Broadly Neutralizing Antibodies to HIV and Their Role in Vaccine Design. <i>Annual Review of Immunology</i> , 2016, 34, 635-659.	21.8	500
26	HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015, 349, aac4223.	12.6	482
27	Broadly Neutralizing Human Anti-HIV Antibody 2G12 Is Effective in Protection against Mucosal SHIV Challenge Even at Low Serum Neutralizing Titers. <i>PLoS Pathogens</i> , 2009, 5, e1000433.	4.7	475
28	Prevention of virus transmission to macaque monkeys by a vaginally applied monoclonal antibody to HIV-1 gp120. <i>Nature Medicine</i> , 2003, 9, 343-346.	30.7	453
29	Highly potent HIV-specific antibody neutralization in vitro translates into effective protection against mucosal SHIV challenge in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18921-18925.	7.1	441
30	Conformational dynamics of single HIV-1 envelope trimers on the surface of native virions. <i>Science</i> , 2014, 346, 759-763.	12.6	439
31	Commonality despite exceptional diversity in the baseline human antibody repertoire. <i>Nature</i> , 2019, 566, 393-397.	27.8	419
32	Broadly Neutralizing Anti-HIV Antibody 4E10 Recognizes a Helical Conformation of a Highly Conserved Fusion-Associated Motif in gp41. <i>Immunity</i> , 2005, 22, 163-173.	14.3	410
33	Broadly Neutralizing Antibodies Present New Prospects to Counter Highly Antigenically Diverse Viruses. <i>Science</i> , 2012, 337, 183-186.	12.6	394
34	A robust, high-throughput assay to determine the phagocytic activity of clinical antibody samples. <i>Journal of Immunological Methods</i> , 2011, 366, 8-19.	1.4	393
35	HIV-1 broadly neutralizing antibody precursor B cells revealed by germline-targeting immunogen. <i>Science</i> , 2016, 351, 1458-1463.	12.6	382
36	Trimeric HIV-1-Env Structures Define Glycan Shields from Clades A, B, and G. <i>Cell</i> , 2016, 165, 813-826.	28.9	379

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37	Hepatitis C Virus E2 Envelope Glycoprotein Core Structure. <i>Science</i> , 2013, 342, 1090-1094.	12.6	374
38	Antibody responses to envelope glycoproteins in HIV-1 infection. <i>Nature Immunology</i> , 2015, 16, 571-576.	14.5	364
39	Priming a broadly neutralizing antibody response to HIV-1 using a germline-targeting immunogen. <i>Science</i> , 2015, 349, 156-161.	12.6	358
40	A Blueprint for HIV Vaccine Discovery. <i>Cell Host and Microbe</i> , 2012, 12, 396-407.	11.0	348
41	Broadly Neutralizing HIV Antibodies Define a Glycan-Dependent Epitope on the Prefusion Conformation of gp41 on Cleaved Envelope Trimers. <i>Immunity</i> , 2014, 40, 657-668.	14.3	342
42	A Limited Number of Antibody Specificities Mediate Broad and Potent Serum Neutralization in Selected HIV-1 Infected Individuals. <i>PLoS Pathogens</i> , 2010, 6, e1001028.	4.7	335
43	HIV Vaccine Design to Target Germline Precursors of Glycan-Dependent Broadly Neutralizing Antibodies. <i>Immunity</i> , 2016, 45, 483-496.	14.3	335
44	Multidonor Analysis Reveals Structural Elements, Genetic Determinants, and Maturation Pathway for HIV-1 Neutralization by VRC01-Class Antibodies. <i>Immunity</i> , 2013, 39, 245-258.	14.3	332
45	Recent progress in broadly neutralizing antibodies to HIV. <i>Nature Immunology</i> , 2018, 19, 1179-1188.	14.5	331
46	Recombinant HIV envelope trimer selects for quaternary-dependent antibodies targeting the trimer apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17624-17629.	7.1	324
47	Structural Delineation of a Quaternary, Cleavage-Dependent Epitope at the gp41-gp120 Interface on Intact HIV-1 Env Trimers. <i>Immunity</i> , 2014, 40, 669-680.	14.3	323
48	Supersite of immune vulnerability on the glycosylated face of HIV-1 envelope glycoprotein gp120. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 796-803.	8.2	314
49	Fusion peptide of HIV-1 as a site of vulnerability to neutralizing antibody. <i>Science</i> , 2016, 352, 828-833.	12.6	310
50	Nature of Nonfunctional Envelope Proteins on the Surface of Human Immunodeficiency Virus Type 1. <i>Journal of Virology</i> , 2006, 80, 2515-2528.	3.4	309
51	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. <i>Science</i> , 2021, 373, 818-823.	12.6	309
52	Human broadly neutralizing antibodies to the envelope glycoprotein complex of hepatitis C virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6205-6210.	7.1	306
53	Structural Repertoire of HIV-1-Neutralizing Antibodies Targeting the CD4 Supersite in 14 Donors. <i>Cell</i> , 2015, 161, 1280-1292.	28.9	305
54	The challenges of eliciting neutralizing antibodies to HIV-1 and to influenza virus. <i>Nature Reviews Microbiology</i> , 2008, 6, 143-155.	28.6	298

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55	Passive transfer of modest titers of potent and broadly neutralizing anti-HIV monoclonal antibodies block SHIV infection in macaques. <i>Journal of Experimental Medicine</i> , 2014, 211, 2061-2074.	8.5	297
56	Broadly Neutralizing Monoclonal Antibodies 2F5 and 4E10 Directed against the Human Immunodeficiency Virus Type 1 gp41 Membrane-Proximal External Region Protect against Mucosal Challenge by Simian-Human Immunodeficiency Virus SHIV <sub>Ba-L</sub> . <i>Journal of Virology</i> , 2010, 84, 1302-1313.	3.4	296
57	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019, 177, 1153-1171.e28.	28.9	293
58	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , 2017, 46, 1073-1088.e6.	14.3	286
59	Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody. <i>Science</i> , 2021, 371, 823-829.	12.6	285
60	Sequential Immunization Elicits Broadly Neutralizing Anti-HIV-1 Antibodies in Ig Knockin Mice. <i>Cell</i> , 2016, 166, 1445-1458.e12.	28.9	270
61	Antibody vs. HIV in a clash of evolutionary titans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14943-14948.	7.1	268
62	Broadly Neutralizing Antibody PGT121 Allosterically Modulates CD4 Binding via Recognition of the HIV-1 gp120 V3 Base and Multiple Surrounding Glycans. <i>PLoS Pathogens</i> , 2013, 9, e1003342.	4.7	267
63	AAV-expressed eCD4-Ig provides durable protection from multiple SHIV challenges. <i>Nature</i> , 2015, 519, 87-91.	27.8	265
64	Passive immunization with a human monoclonal antibody protects hu-PBL-SCID mice against challenge by primary isolates of HIV-1. <i>Nature Medicine</i> , 1997, 3, 1389-1393.	30.7	262
65	Anti-Human Immunodeficiency Virus Type 1 (HIV-1) Antibodies 2F5 and 4E10 Require Surprisingly Few Crucial Residues in the Membrane-Proximal External Region of Glycoprotein gp41 To Neutralize HIV-1. <i>Journal of Virology</i> , 2005, 79, 1252-1261.	3.4	259
66	Composition and Antigenic Effects of Individual Glycan Sites of a Trimeric HIV-1 Envelope Glycoprotein. <i>Cell Reports</i> , 2016, 14, 2695-2706.	6.4	250
67	A Native-Like SOSIP.664 Trimer Based on an HIV-1 Subtype B <i>env</i> Gene. <i>Journal of Virology</i> , 2015, 89, 3380-3395.	3.4	247
68	Limited or no protection by weakly or nonneutralizing antibodies against vaginal SHIV challenge of macaques compared with a strongly neutralizing antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11181-11186.	7.1	243
69	Strain-specified relative conformational stability of the scrapie prion protein. <i>Protein Science</i> , 2001, 10, 854-863.	7.6	239
70	Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. <i>Cell</i> , 2016, 166, 1459-1470.e11.	28.9	230
71	GP120: Biologic Aspects of Structural Features. <i>Annual Review of Immunology</i> , 2001, 19, 253-274.	21.8	226
72	Trispecific broadly neutralizing HIV antibodies mediate potent SHIV protection in macaques. <i>Science</i> , 2017, 358, 85-90.	12.6	225

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73	The antiviral activity of antibodies in vitro and in vivo. <i>Advances in Immunology</i> , 2001, 77, 195-262.	2.2	222
74	Variable Loop Glycan Dependency of the Broad and Potent HIV-1-Neutralizing Antibodies PG9 and PG16. <i>Journal of Virology</i> , 2010, 84, 10510-10521.	3.4	222
75	Passive immunotherapy of viral infections: 'super-antibodies' enter the fray. <i>Nature Reviews Immunology</i> , 2018, 18, 297-308.	22.7	220
76	Cross-reactive serum and memory B-cell responses to spike protein in SARS-CoV-2 and endemic coronavirus infection. <i>Nature Communications</i> , 2021, 12, 2938.	12.8	219
77	Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016, 16, 2327-2338.	6.4	216
78	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic $\beta^2$ -Hairpin Structure. <i>Immunity</i> , 2017, 46, 690-702.	14.3	216
79	Broadly neutralizing antibodies abrogate established hepatitis C virus infection. <i>Science Translational Medicine</i> , 2014, 6, 254ra129.	12.4	204
80	Structure and function of broadly reactive antibody PG16 reveal an H3 subdomain that mediates potent neutralization of HIV-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11483-11488.	7.1	201
81	Affinity Maturation of a Potent Family of HIV Antibodies Is Primarily Focused on Accommodating or Avoiding Glycans. <i>Immunity</i> , 2015, 43, 1053-1063.	14.3	200
82	Identification and specificity of broadly neutralizing antibodies against <scp>HIV</scp>. <i>Immunological Reviews</i> , 2017, 275, 11-20.	6.0	198
83	Isolation of potent neutralizing antibodies from a survivor of the 2014 Ebola virus outbreak. <i>Science</i> , 2016, 351, 1078-1083.	12.6	194
84	Autoantibodies to GPI in rheumatoid arthritis: linkage between an animal model and human disease. <i>Nature Immunology</i> , 2001, 2, 746-753.	14.5	187
85	Heterogeneity of Envelope Molecules Expressed on Primary Human Immunodeficiency Virus Type 1 Particles as Probed by the Binding of Neutralizing and Nonneutralizing Antibodies. <i>Journal of Virology</i> , 2003, 77, 353-365.	3.4	178
86	Identification of Common Features in Prototype Broadly Neutralizing Antibodies to HIV Envelope V2 Apex to Facilitate Vaccine Design. <i>Immunity</i> , 2015, 43, 959-973.	14.3	177
87	Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017, 8, 14954.	12.8	176
88	Electron-Microscopy-Based Epitope Mapping Defines Specificities of Polyclonal Antibodies Elicited during HIV-1 BG505 Envelope Trimer Immunization. <i>Immunity</i> , 2018, 49, 288-300.e8.	14.3	175
89	Manipulating the Selection Forces during Affinity Maturation to Generate Cross-Reactive HIV Antibodies. <i>Cell</i> , 2015, 160, 785-797.	28.9	173
90	Systematic Analysis of Monoclonal Antibodies against Ebola Virus GP Defines Features that Contribute to Protection. <i>Cell</i> , 2018, 174, 938-952.e13.	28.9	173

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91	A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. <i>Science</i> , 2019, 366, .	12.6	172
92	Engineered immunogen binding to alum adjuvant enhances humoral immunity. <i>Nature Medicine</i> , 2020, 26, 430-440.	30.7	172
93	Structural Evolution of Glycan Recognition by a Family of Potent HIV Antibodies. <i>Cell</i> , 2014, 159, 69-79.	28.9	161
94	Promiscuous Glycan Site Recognition by Antibodies to the High-Mannose Patch of gp120 Broadens Neutralization of HIV. <i>Science Translational Medicine</i> , 2014, 6, 236ra63.	12.4	160
95	Rapid elicitation of broadly neutralizing antibodies to HIV by immunization in cows. <i>Nature</i> , 2017, 548, 108-111.	27.8	154
96	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , 2019, 50, 241-252.e6.	14.3	153
97	Optimal Combinations of Broadly Neutralizing Antibodies for Prevention and Treatment of HIV-1 Clade C Infection. <i>PLoS Pathogens</i> , 2016, 12, e1005520.	4.7	150
98	Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. <i>Cell Reports</i> , 2016, 17, 2195-2209.	6.4	150
99	Murine Antibody Responses to Cleaved Soluble HIV-1 Envelope Trimers Are Highly Restricted in Specificity. <i>Journal of Virology</i> , 2015, 89, 10383-10398.	3.4	148
100	HIV-1 antibody " debris or virion?. <i>Nature Medicine</i> , 1997, 3, 366-367.	30.7	147
101	Priming HIV-1 broadly neutralizing antibody precursors in human Ig loci transgenic mice. <i>Science</i> , 2016, 353, 1557-1560.	12.6	147
102	Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. <i>Nature Communications</i> , 2016, 7, 12041.	12.8	146
103	An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2017, 2, 16199.	13.3	144
104	Multiple roles for HIV broadly neutralizing antibodies. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	144
105	Structure-based design of native-like HIV-1 envelope trimers to silence non-neutralizing epitopes and eliminate CD4 binding. <i>Nature Communications</i> , 2017, 8, 1655.	12.8	142
106	Early Antibody Lineage Diversification and Independent Limb Maturation Lead to Broad HIV-1 Neutralization Targeting the Env High-Mannose Patch. <i>Immunity</i> , 2016, 44, 1215-1226.	14.3	138
107	Structural basis of hepatitis C virus neutralization by broadly neutralizing antibody HCV1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9499-9504.	7.1	135
108	Structural Constraints Determine the Glycosylation of HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2015, 11, 1604-1613.	6.4	135

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109	Uncleaved prefusion-optimized gp140 trimers derived from analysis of HIV-1 envelope metastability. <i>Nature Communications</i> , 2016, 7, 12040.	12.8	134
110	Advancing an HIV vaccine; advancing vaccinology. <i>Nature Reviews Immunology</i> , 2019, 19, 77-78.	22.7	134
111	Antibody-mediated protection against SHIV challenge includes systemic clearance of distal virus. <i>Science</i> , 2016, 353, 1045-1049.	12.6	129
112	A Prominent Site of Antibody Vulnerability on HIV Envelope Incorporates a Motif Associated with CCR5 Binding and Its Camouflaging Glycans. <i>Immunity</i> , 2016, 45, 31-45.	14.3	129
113	Coexistence of potent HIV-1 broadly neutralizing antibodies and antibody-sensitive viruses in a viremic controller. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	128
114	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018, 9, 3693.	12.8	124
115	A human antibody reveals a conserved site on beta-coronavirus spike proteins and confers protection against SARS-CoV-2 infection. <i>Science Translational Medicine</i> , 2022, 14, eabi9215.	12.4	123
116	What Are the Most Powerful Immunogen Design Vaccine Strategies?. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a030262.	5.5	122
117	Comparison of Antibody-Dependent Cell-Mediated Cytotoxicity and Virus Neutralization by HIV-1 Env-Specific Monoclonal Antibodies. <i>Journal of Virology</i> , 2016, 90, 6127-6139.	3.4	117
118	Why do we not have an HIV vaccine and how can we make one?. <i>Nature Medicine</i> , 1998, 4, 495-498.	30.7	112
119	Rational Vaccine Design in the Time of COVID-19. <i>Cell Host and Microbe</i> , 2020, 27, 695-698.	11.0	107
120	Protection against a mixed SHIV challenge by a broadly neutralizing antibody cocktail. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	106
121	Strategies for a multi-stage neutralizing antibody-based HIV vaccine. <i>Current Opinion in Immunology</i> , 2018, 53, 143-151.	5.5	105
122	Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. <i>PLoS Pathogens</i> , 2016, 12, e1005815.	4.7	104
123	Immune Tolerance Negatively Regulates B Cells in Knock-In Mice Expressing Broadly Neutralizing HIV Antibody 4E10. <i>Journal of Immunology</i> , 2013, 191, 3186-3191.	0.8	103
124	Comprehensive Antigenic Map of a Cleaved Soluble HIV-1 Envelope Trimer. <i>PLoS Pathogens</i> , 2015, 11, e1004767.	4.7	100
125	Zika virus activates de novo and cross-reactive memory B cell responses in dengue-experienced donors. <i>Science Immunology</i> , 2017, 2, .	11.9	98
126	Toward a more accurate view of human B-cell repertoire by next-generation sequencing, unbiased repertoire capture and single-molecule barcoding. <i>Scientific Reports</i> , 2014, 4, 6778.	3.3	95



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127	Protein and Glycan Mimicry in HIV Vaccine Design. <i>Journal of Molecular Biology</i> , 2019, 431, 2223-2247.	4.2	91
128	HIV Envelope Glycoform Heterogeneity and Localized Diversity Govern the Initiation and Maturation of a V2 Apex Broadly Neutralizing Antibody Lineage. <i>Immunity</i> , 2017, 47, 990-1003.e9.	14.3	90
129	Developing an HIV vaccine. <i>Science</i> , 2017, 355, 1129-1130.	12.6	89
130	Neutralizing human monoclonal antibodies prevent Zika virus infection in macaques. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	89
131	A Meta-analysis of Passive Immunization Studies Shows that Serum-Neutralizing Antibody Titer Associates with Protection against SHIV Challenge. <i>Cell Host and Microbe</i> , 2019, 26, 336-346.e3.	11.0	88
132	Antibodies to a conformational epitope on gp41 neutralize HIV-1 by destabilizing the Env spike. <i>Nature Communications</i> , 2015, 6, 8167.	12.8	87
133	Broadly neutralizing antibodies targeting the HIV-1 envelope V2 apex confer protection against a clade C SHIV challenge. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	87
134	Rapid development of glycan-specific, broad, and potent anti-HIV-1 gp120 neutralizing antibodies in an R5 SIV/HIV chimeric virus infected macaque. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20125-20129.	7.1	83
135	Mapping Polyclonal Antibody Responses in Non-human Primates Vaccinated with HIV Env Trimer Subunit Vaccines. <i>Cell Reports</i> , 2020, 30, 3755-3765.e7.	6.4	81
136	Drug repurposing screens identify chemical entities for the development of COVID-19 interventions. <i>Nature Communications</i> , 2021, 12, 3309.	12.8	81
137	HIV-1 neutralizing antibodies: How full is the bottle?. <i>Nature Medicine</i> , 1999, 5, 142-144.	30.7	80
138	Two Classes of Broadly Neutralizing Antibodies within a Single Lineage Directed to the High-Mannose Patch of HIV Envelope. <i>Journal of Virology</i> , 2015, 89, 1105-1118.	3.4	80
139	Neutralizing Monoclonal Antibodies Block Human Immunodeficiency Virus Type 1 Infection of Dendritic Cells and Transmission to T Cells. <i>Journal of Virology</i> , 1998, 72, 9788-9794.	3.4	80
140	Incomplete Neutralization and Deviation from Sigmoidal Neutralization Curves for HIV Broadly Neutralizing Monoclonal Antibodies. <i>PLoS Pathogens</i> , 2015, 11, e1005110.	4.7	78
141	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018, 4, eaau6769.	10.3	75
142	A Broadly Neutralizing Human Monoclonal Antibody Exhibits In Vivo Efficacy Against Both Human Metapneumovirus and Respiratory Syncytial Virus. <i>Journal of Infectious Diseases</i> , 2015, 211, 216-225.	4.0	71
143	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018, 13, 1196-1212.	12.0	71
144	Rapid and Focused Maturation of a VRC01-Class HIV Broadly Neutralizing Antibody Lineage Involves Both Binding and Accommodation of the N276-Glycan. <i>Immunity</i> , 2019, 51, 141-154.e6.	14.3	71

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145	bNAber: database of broadly neutralizing HIV antibodies. <i>Nucleic Acids Research</i> , 2014, 42, D1133-D1139.	14.5	69
146	Reprogramming the antigen specificity of B cells using genome-editing technologies. <i>ELife</i> , 2019, 8, .	6.0	69
147	Fetal demise and failed antibody therapy during Zika virus infection of pregnant macaques. <i>Nature Communications</i> , 2018, 9, 1624.	12.8	68
148	Potential of conventional & bispecific broadly neutralizing antibodies for prevention of HIV-1 subtype A, C & D infections. <i>PLoS Pathogens</i> , 2018, 14, e1006860.	4.7	68
149	Scaffolding to build a rational vaccine design strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17859-17860.	7.1	67
150	Structure of 2G12 Fab <sub>2</sub> in Complex with Soluble and Fully Glycosylated HIV-1 Env by Negative-Stain Single-Particle Electron Microscopy. <i>Journal of Virology</i> , 2014, 88, 10177-10188.	3.4	67
151	A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. <i>Immunity</i> , 2018, 48, 500-513.e6.	14.3	66
152	A Boost for HIV Vaccine Design. <i>Science</i> , 2010, 329, 770-773.	12.6	65
153	Live Simian Immunodeficiency Virus Vaccine Correlate of Protection: Local Antibody Production and Concentration on the Path of Virus Entry. <i>Journal of Immunology</i> , 2014, 193, 3113-3125.	0.8	64
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