

# Rogier W Sanders

## List of Publications by Citations

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212  
papers

15,357  
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19,230  
ext. citations

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#	Paper	IF	Citations
212	Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability. <i>Science</i> , <b>2020</b> , 369, 643-650	33.3	724
211	Crystal structure of a soluble cleaved HIV-1 envelope trimer. <i>Science</i> , <b>2013</b> , 342, 1477-83	33.3	687
210	A next-generation cleaved, soluble HIV-1 Env trimer, BG505 SOSIP.664 gp140, expresses multiple epitopes for broadly neutralizing but not non-neutralizing antibodies. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003618	7.6	644
209	A potent and broad neutralizing antibody recognizes and penetrates the HIV glycan shield. <i>Science</i> , <b>2011</b> , 334, 1097-103	33.3	576
208	Cryo-EM structure of a fully glycosylated soluble cleaved HIV-1 envelope trimer. <i>Science</i> , <b>2013</b> , 342, 1484-90	33.3	573
207	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. <i>Nature</i> , <b>2014</b> , 509, 55-62	50.4	537
206	The mannose-dependent epitope for neutralizing antibody 2G12 on human immunodeficiency virus type 1 glycoprotein gp120. <i>Journal of Virology</i> , <b>2002</b> , 76, 7293-305	6.6	507
205	A recombinant human immunodeficiency virus type 1 envelope glycoprotein complex stabilized by an intermolecular disulfide bond between the gp120 and gp41 subunits is an antigenic mimic of the trimeric virion-associated structure. <i>Journal of Virology</i> , <b>2000</b> , 74, 627-43	6.6	453
204	HIV-1 VACCINES. HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , <b>2015</b> , 349, aac4223	33.3	394
203	Stabilization of the soluble, cleaved, trimeric form of the envelope glycoprotein complex of human immunodeficiency virus type 1. <i>Journal of Virology</i> , <b>2002</b> , 76, 8875-89	6.6	366
202	Broad and potent HIV-1 neutralization by a human antibody that binds the gp41-gp120 interface. <i>Nature</i> , <b>2014</b> , 515, 138-42	50.4	330
201	Broadly neutralizing HIV antibodies define a glycan-dependent epitope on the prefusion conformation of gp41 on cleaved envelope trimers. <i>Immunity</i> , <b>2014</b> , 40, 657-68	32.3	286
200	Supersite of immune vulnerability on the glycosylated face of HIV-1 envelope glycoprotein gp120. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 796-803	17.6	274
199	Structural delineation of a quaternary, cleavage-dependent epitope at the gp41-gp120 interface on intact HIV-1 Env trimers. <i>Immunity</i> , <b>2014</b> , 40, 669-80	32.3	267
198	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , <b>2015</b> , 163, 1702-15	56.2	251
197	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> , <b>2014</b> , 111, 17624-9	11.5	239
196	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> , <b>2013</b> , 9, e1003342	7.6	235

195	Asymmetric recognition of the HIV-1 trimer by broadly neutralizing antibody PG9. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4351-6	11.5	214
194	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , <b>2017</b> , 46, 1073-1088.e6	32.3	204
193	Immunization for HIV-1 Broadly Neutralizing Antibodies in Human Ig Knockin Mice. <i>Cell</i> , <b>2015</b> , 161, 1505-1512	16.2	197
192	Composition and Antigenic Effects of Individual Glycan Sites of a Trimeric HIV-1 Envelope Glycoprotein. <i>Cell Reports</i> , <b>2016</b> , 14, 2695-706	10.6	193
191	A native-like SOSIP.664 trimer based on an HIV-1 subtype B env gene. <i>Journal of Virology</i> , <b>2015</b> , 89, 3380-3395	6.5	191
190	SARS-CoV-2 variants of concern partially escape humoral but not T-cell responses in COVID-19 convalescent donors and vaccinees. <i>Science Immunology</i> , <b>2021</b> , 6,	28	185
189	Affinity Maturation of a Potent Family of HIV Antibodies Is Primarily Focused on Accommodating or Avoiding Glycans. <i>Immunity</i> , <b>2015</b> , 43, 1053-63	32.3	170
188	Native-like Env trimers as a platform for HIV-1 vaccine design. <i>Immunological Reviews</i> , <b>2017</b> , 275, 161-182	11.3	166
187	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6639-E6648	11.5	164
186	Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , <b>2016</b> , 16, 2327-38	10.6	163
185	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. <i>Science</i> , <b>2021</b> , 373, 818-823	33.3	148
184	Oligomeric and conformational properties of a proteolytically mature, disulfide-stabilized human immunodeficiency virus type 1 gp140 envelope glycoprotein. <i>Journal of Virology</i> , <b>2002</b> , 76, 7760-76	6.6	146
183	Differential transmission of human immunodeficiency virus type 1 by distinct subsets of effector dendritic cells. <i>Journal of Virology</i> , <b>2002</b> , 76, 7812-21	6.6	126
182	HIV-1 gp120 mannoses induce immunosuppressive responses from dendritic cells. <i>PLoS Pathogens</i> , <b>2007</b> , 3, e169	7.6	124
181	Differential binding of neutralizing and non-neutralizing antibodies to native-like soluble HIV-1 Env trimers, uncleaved Env proteins, and monomeric subunits. <i>Retrovirology</i> , <b>2014</b> , 11, 41	3.6	121
180	Enhancing the proteolytic maturation of human immunodeficiency virus type 1 envelope glycoproteins. <i>Journal of Virology</i> , <b>2002</b> , 76, 2606-16	6.6	120
179	The microanatomic segregation of selection by apoptosis in the germinal center. <i>Science</i> , <b>2017</b> , 358,	33.3	114
178	The effect of spike mutations on SARS-CoV-2 neutralization. <i>Cell Reports</i> , <b>2021</b> , 34, 108890	10.6	113

177	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , <b>2017</b> , 20, 1805-1817	10.6	112
176	Cross-Neutralization of a SARS-CoV-2 Antibody to a Functionally Conserved Site Is Mediated by Avidity. <i>Immunity</i> , <b>2020</b> , 53, 1272-1280.e5	32.3	112
175	Presenting native-like HIV-1 envelope trimers on ferritin nanoparticles improves their immunogenicity. <i>Retrovirology</i> , <b>2015</b> , 12, 82	3.6	111
174	Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. <i>Cell Reports</i> , <b>2016</b> , 17, 2195-2209	10.6	110
173	An Alternative Binding Mode of IGHV3-53 Antibodies to the SARS-CoV-2 Receptor Binding Domain. <i>Cell Reports</i> , <b>2020</b> , 33, 108274	10.6	107
172	Murine Antibody Responses to Cleaved Soluble HIV-1 Envelope Trimers Are Highly Restricted in Specificity. <i>Journal of Virology</i> , <b>2015</b> , 89, 10383-98	6.6	105
171	An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , <b>2016</b> , 2, 16199	26.6	103
170	CD4-induced activation in a soluble HIV-1 Env trimer. <i>Structure</i> , <b>2014</b> , 22, 974-84	5.2	101
169	Structural Constraints Determine the Glycosylation of HIV-1 Envelope Trimers. <i>Cell Reports</i> , <b>2015</b> , 11, 1604-13	10.6	101
168	Antibody potency relates to the ability to recognize the closed, pre-fusion form of HIV Env. <i>Nature Communications</i> , <b>2015</b> , 6, 6144	17.4	101
167	Sequential and Simultaneous Immunization of Rabbits with HIV-1 Envelope Glycoprotein SOSIP.664 Trimers from Clades A, B and C. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005864	7.6	101
166	Design and crystal structure of a native-like HIV-1 envelope trimer that engages multiple broadly neutralizing antibody precursors in vivo. <i>Journal of Experimental Medicine</i> , <b>2017</b> , 214, 2573-2590	16.6	100
165	Afucosylated IgG characterizes enveloped viral responses and correlates with COVID-19 severity. <i>Science</i> , <b>2021</b> , 371,	33.3	98
164	Design and structure of two HIV-1 clade C SOSIP.664 trimers that increase the arsenal of native-like Env immunogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11947-52	11.5	97
163	Coexistence of potent HIV-1 broadly neutralizing antibodies and antibody-sensitive viruses in a viremic controller. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	96
162	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , <b>2019</b> , 50, 241-252.e6	32.3	96
161	Cytokine-Independent Detection of Antigen-Specific Germinal Center T Follicular Helper Cells in Immunized Nonhuman Primates Using a Live Cell Activation-Induced Marker Technique. <i>Journal of Immunology</i> , <b>2016</b> , 197, 994-1002	5.3	89
160	Site-Specific Glycosylation of Virion-Derived HIV-1 Env Is Mimicked by a Soluble Trimeric Immunogen. <i>Cell Reports</i> , <b>2018</b> , 24, 1958-1966.e5	10.6	89

159	Broadly neutralizing antibodies against HIV-1: templates for a vaccine. <i>Virology</i> , <b>2013</b> , 435, 46-56	3.6	88
158	Comprehensive antigenic map of a cleaved soluble HIV-1 envelope trimer. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004767	7.6	85
157	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. <i>Nature Communications</i> , <b>2019</b> , 10, 4272	17.4	80
156	HIV-1 Envelope Trimer Design and Immunization Strategies To Induce Broadly Neutralizing Antibodies. <i>Trends in Immunology</i> , <b>2016</b> , 37, 221-232	14.4	78
155	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006913	7.6	78
154	Comparative assessment of multiple COVID-19 serological technologies supports continued evaluation of point-of-care lateral flow assays in hospital and community healthcare settings. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008817	7.6	72
153	Defining variant-resistant epitopes targeted by SARS-CoV-2 antibodies: A global consortium study. <i>Science</i> , <b>2021</b> , 374, 472-478	33.3	72
152	Structure and immunogenicity of a stabilized HIV-1 envelope trimer based on a group-M consensus sequence. <i>Nature Communications</i> , <b>2019</b> , 10, 2355	17.4	68
151	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , <b>2021</b> , 184, 1188-1200.e19	56.2	68
150	How can HIV-type-1-Env immunogenicity be improved to facilitate antibody-based vaccine development?. <i>AIDS Research and Human Retroviruses</i> , <b>2012</b> , 28, 1-15	1.6	67
149	Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , <b>2015</b> , 89, 12189-210	6.6	66
148	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006390	7.6	65
147	Detailed mechanistic insights into HIV-1 sensitivity to three generations of fusion inhibitors. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 26941-50	5.4	64
146	Lack of complex N-glycans on HIV-1 envelope glycoproteins preserves protein conformation and entry function. <i>Virology</i> , <b>2010</b> , 401, 236-47	3.6	64
145	Antibodies to a conformational epitope on gp41 neutralize HIV-1 by destabilizing the Env spike. <i>Nature Communications</i> , <b>2015</b> , 6, 8167	17.4	62
144	Incomplete Neutralization and Deviation from Sigmoidal Neutralization Curves for HIV Broadly Neutralizing Monoclonal Antibodies. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1005110	7.6	61
143	cGMP production and analysis of BG505 SOSIP.664, an extensively glycosylated, trimeric HIV-1 envelope glycoprotein vaccine candidate. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 885-899	4.9	56
142	Complete epitopes for vaccine design derived from a crystal structure of the broadly neutralizing antibodies PGT128 and 8ANC195 in complex with an HIV-1 Env trimer. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 2099-108		54

141	High titers and low fucosylation of early human anti-SARS-CoV-2 IgG promote inflammation by alveolar macrophages. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	54
140	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , <b>2020</b> , 9,	8.9	51
139	Vaccine Elicitation of High Mannose-Dependent Neutralizing Antibodies against the V3-Glycan Broadly Neutralizing Epitope in Nonhuman Primates. <i>Cell Reports</i> , <b>2017</b> , 18, 2175-2188	10.6	50
138	Immunogenicity in Rabbits of HIV-1 SOSIP Trimers from Clades A, B, and C, Given Individually, Sequentially, or in Combination. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	50
137	Closing and Opening Holes in the Glycan Shield of HIV-1 Envelope Glycoprotein SOSIP Trimers Can Redirect the Neutralizing Antibody Response to the Newly Unmasked Epitopes. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	50
136	Restriction of HIV-1 Escape by a Highly Broad and Potent Neutralizing Antibody. <i>Cell</i> , <b>2020</b> , 180, 471-489	6.22	47
135	Antibody Responses to SARS-CoV-2 mRNA Vaccines Are Detectable in Saliva. <i>Pathogens and Immunity</i> , <b>2021</b> , 6, 116-134	4.9	47
134	SARS-CoV-2 can recruit a heme metabolite to evade antibody immunity. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	46
133	Enzymatic removal of mannose moieties can increase the immune response to HIV-1 gp120 in vivo. <i>Virology</i> , <b>2009</b> , 389, 108-21	3.6	44
132	Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007920	7.6	41
131	In vivo protection by broadly neutralizing HIV antibodies. <i>Trends in Microbiology</i> , <b>2014</b> , 22, 550-1	12.4	41
130	Immunosilencing a highly immunogenic protein trimerization domain. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 7436-42	5.4	40
129	The carbohydrate at asparagine 386 on HIV-1 gp120 is not essential for protein folding and function but is involved in immune evasion. <i>Retrovirology</i> , <b>2008</b> , 5, 10	3.6	40
128	HIV-1 envelope glycoprotein immunogens to induce broadly neutralizing antibodies. <i>Expert Review of Vaccines</i> , <b>2016</b> , 15, 349-65	5.2	38
127	Only five of 10 strictly conserved disulfide bonds are essential for folding and eight for function of the HIV-1 envelope glycoprotein. <i>Molecular Biology of the Cell</i> , <b>2008</b> , 19, 4298-309	3.5	38
126	HIV-1 envelope glycoprotein signatures that correlate with the development of cross-reactive neutralizing activity. <i>Retrovirology</i> , <b>2013</b> , 10, 102	3.6	37
125	Optimization of human immunodeficiency virus type 1 envelope glycoproteins with V1/V2 deleted, using virus evolution. <i>Journal of Virology</i> , <b>2009</b> , 83, 368-83	6.6	37
124	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008753	7.6	37

123	A New Glycan-Dependent CD4-Binding Site Neutralizing Antibody Exerts Pressure on HIV-1 In Vivo. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1005238	7.6	36
122	Reducing V3 Antigenicity and Immunogenicity on Soluble, Native-Like HIV-1 Env SOSIP Trimers. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	33
121	Binding of inferred germline precursors of broadly neutralizing HIV-1 antibodies to native-like envelope trimers. <i>Virology</i> , <b>2015</b> , 486, 116-20	3.6	32
120	Inference of the HIV-1 VRC01 Antibody Lineage Unmutated Common Ancestor Reveals Alternative Pathways to Overcome a Key Glycan Barrier. <i>Immunity</i> , <b>2018</b> , 49, 1162-1174.e8	32.3	32
119	Chemical Cross-Linking Stabilizes Native-Like HIV-1 Envelope Glycoprotein Trimer Antigens. <i>Journal of Virology</i> , <b>2016</b> , 90, 813-28	6.6	30
118	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 1314-1325	12	30
117	Evolution of the HIV-1 envelope glycoproteins with a disulfide bond between gp120 and gp41. <i>Retrovirology</i> , <b>2004</b> , 1, 3	3.6	30
116	Anti-SARS-CoV-2 IgG from severely ill COVID-19 patients promotes macrophage hyper-inflammatory responses		30
115	Env Exceptionalism: Why Are HIV-1 Env Glycoproteins Atypical Immunogens?. <i>Cell Host and Microbe</i> , <b>2020</b> , 27, 507-518	23.4	27
114	Structure and topology around the cleavage site regulate post-translational cleavage of the HIV-1 gp160 signal peptide. <i>ELife</i> , <b>2017</b> , 6,	8.9	26
113	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants <b>2021</b> ,		26
112	Stabilization of the gp120 V3 loop through hydrophobic interactions reduces the immunodominant V3-directed non-neutralizing response to HIV-1 envelope trimers. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 1688-1701	5.4	26
111	Emerging SARS-CoV-2 variants of concern evade humoral immune responses from infection and vaccination. <i>Science Advances</i> , <b>2021</b> , 7, eabj5365	14.3	26
110	Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. <i>Cell Host and Microbe</i> , <b>2019</b> , 25, 873-883.e5	23.4	25
109	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008665	7.6	25
108	Virus vaccines: proteins prefer prolines. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 327-333	23.4	25
107	Stabilizing HIV-1 envelope glycoprotein trimers to induce neutralizing antibodies. <i>Retrovirology</i> , <b>2018</b> , 15, 63	3.6	25
106	Networks of HIV-1 Envelope Glycans Maintain Antibody Epitopes in the Face of Glycan Additions and Deletions. <i>Structure</i> , <b>2020</b> , 28, 897-909.e6	5.2	24



105	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	24
104	HIV: A stamp on the envelope. <i>Nature</i> , <b>2014</b> , 514, 437-8	50.4	24
103	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 806-818.e6	23.4	24
102	Structural and immunologic correlates of chemically stabilized HIV-1 envelope glycoproteins. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006986	7.6	22
101	ADS-J1 inhibits HIV-1 infection and membrane fusion by targeting the highly conserved pocket in the gp41 NHR-trimer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 1296-305	3.8	22
100	Evolutionary repair of HIV type 1 gp41 with a kink in the N-terminal helix leads to restoration of the six-helix bundle structure. <i>AIDS Research and Human Retroviruses</i> , <b>2004</b> , 20, 742-9	1.6	20
99	Site-Specific Steric Control of SARS-CoV-2 Spike Glycosylation. <i>Biochemistry</i> , <b>2021</b> , 60, 2153-2169	3.2	20
98	Improving the Expression and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers by Targeted Sequence Changes. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	19
97	What Do Chaotrope-Based Avidity Assays for Antibodies to HIV-1 Envelope Glycoproteins Measure?. <i>Journal of Virology</i> , <b>2015</b> , 89, 5981-95	6.6	19
96	Variable Domain -Linked Glycans Acquired During Antigen-Specific Immune Responses Can Contribute to Immunoglobulin G Antibody Stability. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 740	8.4	19
95	Protein promiscuity: drug resistance and native functions--HIV-1 case. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2005</b> , 22, 615-24	3.6	19
94	Neutralizing Antibody Induction by HIV-1 Envelope Glycoprotein SOSIP Trimers on Iron Oxide Nanoparticles May Be Impaired by Mannose Binding Lectin. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	18
93	Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. <i>Journal of Proteome Research</i> , <b>2018</b> , 17, 987-999	5.6	18
92	Early development of broadly reactive HIV-1 neutralizing activity in elite neutralizers. <i>Aids</i> , <b>2014</b> , 28, 1237-40	3.5	18
91	Human Milk from Previously COVID-19-Infected Mothers: The Effect of Pasteurization on Specific Antibodies and Neutralization Capacity. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	18
90	HIV-1 escapes from N332-directed antibody neutralization in an elite neutralizer by envelope glycoprotein elongation and introduction of unusual disulfide bonds. <i>Retrovirology</i> , <b>2016</b> , 13, 48	3.6	17
89	High-Throughput Protein Engineering Improves the Antigenicity and Stability of Soluble HIV-1 Envelope Glycoprotein SOSIP Trimers. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	17
88	Pandemic moves and countermoves: vaccines and viral variants. <i>Lancet, The</i> , <b>2021</b> , 397, 1326-1327	40	17



87	Presentation of HIV-1 envelope glycoprotein trimers on diverse nanoparticle platforms. <i>Current Opinion in HIV and AIDS</i> , <b>2019</b> , 14, 302-308	4.2	17
86	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. <i>Nature Communications</i> , <b>2021</b> , 12, 6097	17.4	15
85	Stabilization of the V2 loop improves the presentation of V2 loop-associated broadly neutralizing antibody epitopes on HIV-1 envelope trimers. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 5616-5631	5.4	14
84	Antibody responses to SARS-CoV-2 mRNA vaccines are detectable in saliva <b>2021</b> ,		14
83	Four SARS-CoV-2 vaccines induce quantitatively different antibody responses against SARS-CoV-2 variants		14
82	Capturing the inherent structural dynamics of the HIV-1 envelope glycoprotein fusion peptide. <i>Nature Communications</i> , <b>2019</b> , 10, 763	17.4	13
81	HIV-1-neutralizing antibody induced by simian adenovirus- and poxvirus MVA-vectored BG505 native-like envelope trimers. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181886	3.7	13
80	Cross-neutralization of a SARS-CoV-2 antibody to a functionally conserved site is mediated by avidity <b>2020</b> ,		13
79	Mapping the antigenic diversification of SARS-CoV-2		12
78	HIV-1 anchor inhibitors and membrane fusion inhibitors target distinct but overlapping steps in virus entry. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 5736-5746	5.4	11
77	Developability Assessment of Physicochemical Properties and Stability Profiles of HIV-1 BG505 SOSIP.664 and BG505 SOSIP.v4.1-GT1.1 gp140 Envelope Glycoprotein Trimers as Candidate Vaccine Antigens. <i>Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 108, 2264-2277	3.9	11
76	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike. <i>Cell Reports</i> , <b>2021</b> , 35, 108933	10.6	11
75	Antibody responses against SARS-CoV-2 variants induced by four different SARS-CoV-2 vaccines in health care workers in the Netherlands: A prospective cohort study.. <i>PLoS Medicine</i> , <b>2022</b> , 19, e1003991	11.6	11
74	Short Communication: Virion Aggregation by Neutralizing and Nonneutralizing Antibodies to the HIV-1 Envelope Glycoprotein. <i>AIDS Research and Human Retroviruses</i> , <b>2015</b> , 31, 1160-5	1.6	10
73	HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. <i>Science Advances</i> , <b>2020</b> , 6, eaba0512	14.3	10
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67	Antibody Responses Elicited by Immunization with BG505 Trimer Immune Complexes. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	9
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65	An alternative binding mode of IGHV3-53 antibodies to the SARS-CoV-2 receptor binding domain <b>2020</b> ,		8
64	SARS-CoV-2 recruits a haem metabolite to evade antibody immunity <b>2021</b> ,		8
63	Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. <i>Npj Vaccines</i> , <b>2021</b> , 6, 24	9.5	8
62	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , <b>2021</b> , 12, 4817	17.4	8
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60	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates		7
59	Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	7
58	Emerging SARS-CoV-2 variants of concern evade humoral immune responses from infection and vaccination <b>2021</b> ,		7
57	Short Communication: Protective Efficacy of Broadly Neutralizing Antibody PGDM1400 Against HIV-1 Challenge in Humanized Mice. <i>AIDS Research and Human Retroviruses</i> , <b>2018</b> , 34, 790-793	1.6	6
56	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike		6
55	Infection and transmission of SARS-CoV-2 depends on heparan sulfate proteoglycans		5
54	D-101 HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2016</b> , 71, 52	3.1	5
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43	Site-specific steric control of SARS-CoV-2 spike glycosylation <b>2021</b> ,		3
42	Cross-reactive antibodies after SARS-CoV-2 infection and vaccination		3
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40	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection <b>2021</b> ,		3
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25	Quantitative analysis of mRNA-1273 COVID-19 vaccination response in immunocompromised adult hematology patients.. <i>Blood Advances</i> , <b>2022</b> ,	7.8	1
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23	Probing Affinity, Avidity, Anti-Cooperativity, and Competition in Antibody and Receptor Binding to the SARS-CoV-2 Spike by Single Particle Mass Analyses		1
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1	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates <b>2020</b> , 16, e1008753		