

Andrew B Ward

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

337 papers	28,222 citations	89 h-index	162 g-index
394 ext. papers	35,136 ext. citations	16.3 avg, IF	7.15 L-index

#	Paper	IF	Citations
337	From structure to sequence: Antibody discovery using cryoEM.. <i>Science Advances</i> , 2022 , 8, eabk2039	14.3	2
336	Targeted isolation of panels of diverse human protective broadly neutralizing antibodies against SARS-like viruses. 2022 ,		3
335	Structural insights into the Venus flytrap mechanosensitive ion channel Flycatcher1.. <i>Nature Communications</i> , 2022 , 13, 850	17.4	1
334	High thermostability improves neutralizing antibody responses induced by native-like HIV-1 envelope trimers.. <i>Npj Vaccines</i> , 2022 , 7, 27	9.5	1
333	Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies.. <i>Cell Reports</i> , 2022 , 38, 110436	10.6	1
332	Structural definition of a pan-sarbecovirus neutralizing epitope on the spike S2 subunit.. <i>Communications Biology</i> , 2022 , 5, 342	6.7	4
331	A combination of potently neutralizing monoclonal antibodies isolated from an Indian convalescent donor protects against the SARS-CoV-2 Delta variant.. <i>PLoS Pathogens</i> , 2022 , 18, e1010465	7.6	1
330	Structural mapping of antibody landscapes to human betacoronavirus spike proteins.. <i>Science Advances</i> , 2022 , 8, eabn2911	14.3	1
329	Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120976119	11.5	2
328	Structural Biology Illuminates Molecular Determinants of Broad Ebolavirus Neutralization by Human Antibodies for Pan-Ebolavirus Therapeutic Development.. <i>Frontiers in Immunology</i> , 2021 , 12, 808047	8.4	0
327	The glycan hole area of HIV-1 envelope trimers contributes prominently to the induction of autologous neutralization. <i>Journal of Virology</i> , 2021 , JVI0155221	6.6	2
326	Broadly neutralizing antibodies target a hemagglutinin anchor epitope.. <i>Nature</i> , 2021 ,	50.4	7
325	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. <i>Cell Reports</i> , 2021 , 37, 109922	10.6	1
324	One dose of COVID-19 nanoparticle vaccine REVC-128 protects against SARS-CoV-2 challenge at two weeks post-immunization. <i>Emerging Microbes and Infections</i> , 2021 , 10, 2016-2029	18.9	4
323	Pan-ebolavirus protective therapy by two multifunctional human antibodies. <i>Cell</i> , 2021 , 184, 5593-5607.e18	56.2	7
322	A cross-neutralizing antibody between HIV-1 and influenza virus. <i>PLoS Pathogens</i> , 2021 , 17, e1009407	7.6	9
321	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , 2021 , 184, 1188-1200.e19	56.2	68

320	Ultrapotent bispecific antibodies neutralize emerging SARS-CoV-2 variants 2021 ,		6
319	Extremely potent human monoclonal antibodies from COVID-19 convalescent patients. <i>Cell</i> , 2021 , 184, 1821-1835.e16	56.2	90
318	Elicitation of potent serum neutralizing antibody responses in rabbits by immunization with an HIV-1 clade C trimeric Env derived from an Indian elite neutralizer. <i>PLoS Pathogens</i> , 2021 , 17, e1008977	7.6	0
317	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike. <i>Cell Reports</i> , 2021 , 35, 108933	10.6	11
316	Convergence of a common solution for broad ebolavirus neutralization by glycan cap-directed human antibodies. <i>Cell Reports</i> , 2021 , 35, 108984	10.6	7
315	Structure and immune recognition of the porcine epidemic diarrhea virus spike protein. <i>Structure</i> , 2021 , 29, 385-392.e5	5.2	13
314	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	17.4	110
313	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. <i>Science</i> , 2021 , 373, 818-823	33.3	148
312	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. <i>Cell Host and Microbe</i> , 2021 , 29, 806-818.e6	23.4	24
311	Mining HIV controllers for broad and functional antibodies to recognize and eliminate HIV-infected cells. <i>Cell Reports</i> , 2021 , 35, 109167	10.6	3
310	Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines. <i>Nature Communications</i> , 2021 , 12, 2633	17.4	8
309	First exposure to the pandemic H1N1 virus induced broadly neutralizing antibodies targeting hemagglutinin head epitopes. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	6
308	Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles. <i>MBio</i> , 2021 , 12, e0042921	7.8	1
307	Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization. <i>Science Advances</i> , 2021 , 7,	14.3	9
306	Polyclonal epitope mapping reveals temporal dynamics and diversity of human antibody responses to H5N1 vaccination. <i>Cell Reports</i> , 2021 , 34, 108682	10.6	8
305	Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. <i>Npj Vaccines</i> , 2021 , 6, 24	9.5	8
304	The C3/465 glycan hole cluster in BG505 HIV-1 envelope is the major neutralizing target involved in preventing mucosal SHIV infection. <i>PLoS Pathogens</i> , 2021 , 17, e1009257	7.6	9
303	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants 2021 ,		26

302	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. <i>PLoS Pathogens</i> , 2021 , 17, e1009282	7.6	23
301	Influenza hemagglutinin-specific IgA Fc-effector functionality is restricted to stalk epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
300	Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization 2021 ,		2
299	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection 2021 ,		3
298	Prominent Neutralizing Antibody Response Targeting the Glycoprotein Subunit Interface Elicited by Immunization. <i>Journal of Virology</i> , 2021 ,	6.6	4
297	Isolation and Characterization of Cross-Neutralizing Coronavirus Antibodies from COVID-19+ Subjects 2021 ,		4
296	Isolation and characterization of cross-neutralizing coronavirus antibodies from COVID-19+ subjects. <i>Cell Reports</i> , 2021 , 36, 109353	10.6	41
295	Human antibody recognition of H7N9 influenza virus HA following natural infection. <i>JCI Insight</i> , 2021 , 6,	9.9	1
294	Antibodies from Rabbits Immunized with HIV-1 Clade B SOSIP Trimers Can Neutralize Multiple Clade B Viruses by Destabilizing the Envelope Glycoprotein. <i>Journal of Virology</i> , 2021 , 95, e0009421	6.6	0
293	Antibody responses induced by SHIV infection are more focused than those induced by soluble native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , 2021 , 17, e1009736	7.6	3
292	Murine Monoclonal Antibodies against the Receptor Binding Domain of SARS-CoV-2 Neutralize Authentic Wild-Type SARS-CoV-2 as Well as B.1.1.7 and B.1.351 Viruses and Protect in a Mouse Model in a Neutralization-Dependent Manner. <i>MBio</i> , 2021 , 12, e0100221	7.8	2
291	Canonical features of human antibodies recognizing the influenza hemagglutinin trimer interface. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	4
290	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , 2021 , 12, 4817	17.4	8
289	Bispecific antibodies targeting distinct regions of the spike protein potently neutralize SARS-CoV-2 variants of concern. <i>Science Translational Medicine</i> , 2021 , 13, eabj5413	17.5	18
288	High-resolution mapping of the neutralizing and binding specificities of polyclonal sera post-HIV Env trimer vaccination. <i>ELife</i> , 2021 , 10,	8.9	3
287	A Strain-Specific Inhibitor of Receptor-Bound HIV-1 Targets a Pocket near the Fusion Peptide. <i>Cell Reports</i> , 2020 , 33, 108428	10.6	2
286	Quantification of the Resilience and Vulnerability of HIV-1 Native Glycan Shield at Atomistic Detail. <i>IScience</i> , 2020 , 23, 101836	6.1	8
285	Innovations in structure-based antigen design and immune monitoring for next generation vaccines. <i>Current Opinion in Immunology</i> , 2020 , 65, 50-56	7.8	26

284	HIV-1 Envelope and MPER Antibody Structures in Lipid Assemblies. <i>Cell Reports</i> , 2020 , 31, 107583	10.6	29
283	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. <i>Nature Communications</i> , 2020 , 11, 2688	17.4	174
282	Structural basis of broad HIV neutralization by a vaccine-induced cow antibody. <i>Science Advances</i> , 2020 , 6, eaba0468	14.3	14
281	Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability. <i>Science</i> , 2020 , 369, 643-650	33.3	724
280	HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. <i>Science Advances</i> , 2020 , 6, eaba0512	14.3	10
279	Harnessing Activin A Adjuvanticity to Promote Antibody Responses to BG505 HIV Envelope Trimers. <i>Frontiers in Immunology</i> , 2020 , 11, 1213	8.4	2
278	Mapping Polyclonal Antibody Responses in Non-human Primates Vaccinated with HIV Env Trimer Subunit Vaccines. <i>Cell Reports</i> , 2020 , 30, 3755-3765.e7	10.6	49
277	Structure and mechanism of monoclonal antibody binding to the junctional epitope of Plasmodium falciparum circumsporozoite protein. <i>PLoS Pathogens</i> , 2020 , 16, e1008373	7.6	15
276	Networks of HIV-1 Envelope Glycans Maintain Antibody Epitopes in the Face of Glycan Additions and Deletions. <i>Structure</i> , 2020 , 28, 897-909.e6	5.2	24
275	Engineered immunogen binding to alum adjuvant enhances humoral immunity. <i>Nature Medicine</i> , 2020 , 26, 430-440	50.5	80
274	Analysis of a Therapeutic Antibody Cocktail Reveals Determinants for Cooperative and Broad Ebolavirus Neutralization. <i>Immunity</i> , 2020 , 52, 388-403.e12	32.3	42
273	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. <i>Journal of Virology</i> , 2020 , 94,	6.6	24
272	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> , 2020 , 94,	6.6	18
271	Anti-influenza H7 human antibody targets antigenic site in hemagglutinin head domain interface. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4734-4739	15.9	9
270	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody. <i>PLoS Pathogens</i> , 2020 , 16, e1009089	7.6	33
269	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , 2020 , 9,	8.9	51
268	SARS-CoV-2 Infection Depends on Cellular Heparan Sulfate and ACE2 2020 ,		20
267	An alternative binding mode of IGHV3-53 antibodies to the SARS-CoV-2 receptor binding domain 2020 ,		8

266	Cross-neutralization of a SARS-CoV-2 antibody to a functionally conserved site is mediated by avidity 2020 ,		13
265	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate 2020 ,		8
264	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody 2020 ,		2
263	Cross-reactive serum and memory B cell responses to spike protein in SARS-CoV-2 and endemic coronavirus infection 2020 ,		40
262	Diverse Antibody Responses to Conserved Structural Motifs in Plasmodium falciparum Circumsporozoite Protein. <i>Journal of Molecular Biology</i> , 2020 , 432, 1048-1063	6.5	11
261	Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. <i>Journal of Virology</i> , 2020 , 94,	6.6	7
260	Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. <i>Science</i> , 2020 , 370, 1089-1094	33.3	153
259	Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>Cell Reports</i> , 2020 , 32, 108122	10.6	12
258	An Alternative Binding Mode of IGHV3-53 Antibodies to the SARS-CoV-2 Receptor Binding Domain. <i>Cell Reports</i> , 2020 , 33, 108274	10.6	107
257	Adjuvanted H5N1 influenza vaccine enhances both cross-reactive memory B cell and strain-specific naive B cell responses in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17957-17964	11.5	25
256	A Vaccine Displaying a Trimeric Influenza-A HA Stem Protein on Capsid-Like Particles Elicits Potent and Long-Lasting Protection in Mice. <i>Vaccines</i> , 2020 , 8,	5.3	6
255	Discoveries in structure and physiology of mechanically activated ion channels. <i>Nature</i> , 2020 , 587, 567-576.	36.4	84
254	Cross-Neutralization of a SARS-CoV-2 Antibody to a Functionally Conserved Site Is Mediated by Avidity. <i>Immunity</i> , 2020 , 53, 1272-1280.e5	32.3	112
253	Drivers of recombinant soluble influenza A virus hemagglutinin and neuraminidase expression in mammalian cells. <i>Protein Science</i> , 2020 , 29, 1975-1982	6.3	4
252	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. <i>PLoS Pathogens</i> , 2020 , 16, e1008665	7.6	25
251	Visualization of the HIV-1 Env glycan shield across scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28014-28025	11.5	29
250	Polyreactive Broadly Neutralizing B cells Are Selected to Provide Defense against Pandemic Threat Influenza Viruses. <i>Immunity</i> , 2020 , 53, 1230-1244.e5	32.3	27
249	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , 2020 , 16, e1008753	7.6	37

248	SARS-CoV-2 Infection Depends on Cellular Heparan Sulfate and ACE2. <i>Cell</i> , 2020 , 183, 1043-1057.e15	56.2	454
247	Human germinal centres engage memory and naive B cells after influenza vaccination. <i>Nature</i> , 2020 , 586, 127-132	50.4	73
246	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. <i>Npj Vaccines</i> , 2020 , 5, 72	9.5	20
245	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
244	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
243	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
242	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens 2020 , 16, e1008665		
241	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
240	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
239	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
238	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
237	Structural Definition of a Neutralization-Sensitive Epitope on the MERS-CoV S1-NTD. <i>Cell Reports</i> , 2019 , 28, 3395-3405.e6	10.6	53
236	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. <i>Nature Communications</i> , 2019 , 10, 4272	17.4	80
235	Potent anti-influenza H7 human monoclonal antibody induces separation of hemagglutinin receptor-binding head domains. <i>PLoS Biology</i> , 2019 , 17, e3000139	9.7	26
234	Structure of the SARS-CoV nsp12 polymerase bound to nsp7 and nsp8 co-factors. <i>Nature Communications</i> , 2019 , 10, 2342	17.4	466
233	Structure and immunogenicity of a stabilized HIV-1 envelope trimer based on a group-M consensus sequence. <i>Nature Communications</i> , 2019 , 10, 2355	17.4	68
232	Structures of the otopenin proton channels Otop1 and Otop3. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 518-525	17.6	28
231	Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. <i>Cell Host and Microbe</i> , 2019 , 25, 873-883.e5	23.4	25

230	Field-Based Affinity Optimization of a Novel Azabicyclohexane Scaffold HIV-1 Entry Inhibitor. <i>Molecules</i> , 2019 , 24,	4.8	7
229	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019 , 177, 1153-1171.e28	56.2	143
228	The Chimpanzee SIV Envelope Trimer: Structure and Deployment as an HIV Vaccine Template. <i>Cell Reports</i> , 2019 , 27, 2426-2441.e6	10.6	20
227	A Site of Vulnerability on the Influenza Virus Hemagglutinin Head Domain Trimer Interface. <i>Cell</i> , 2019 , 177, 1136-1152.e18	56.2	107
226	Cryo-EM structure of the Ebola virus nucleoprotein-RNA complex. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019 , 75, 340-347	1.1	8
225	Antibody responses to viral infections: a structural perspective across three different enveloped viruses. <i>Nature Microbiology</i> , 2019 , 4, 734-747	26.6	89
224	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> , 2019 , 108, 2264-2277	3.9	11
223	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> , 2019 , 294, 5616-5631	5.4	14
222	The HIV-1 Envelope Glycoprotein C3/V4 Region Defines a Prevalent Neutralization Epitope following Immunization. <i>Cell Reports</i> , 2019 , 27, 586-598.e6	10.6	24
221	Capturing the inherent structural dynamics of the HIV-1 envelope glycoprotein fusion peptide. <i>Nature Communications</i> , 2019 , 10, 763	17.4	13
220	Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics. <i>PLoS Pathogens</i> , 2019 , 15, e1007920	7.6	41
219	Differences in the Binding Affinity of an HIV-1 V2 Apex-Specific Antibody for the SIV Envelope Glycoprotein Uncouple Antibody-Dependent Cellular Cytotoxicity from Neutralization. <i>MBio</i> , 2019 , 10,	7.8	9
218	Antibody-dependent enhancement of influenza disease promoted by increase in hemagglutinin stem flexibility and virus fusion kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15194-15199	11.5	44
217	Human monoclonal antibodies against chikungunya virus target multiple distinct epitopes in the E1 and E2 glycoproteins. <i>PLoS Pathogens</i> , 2019 , 15, e1008061	7.6	12
216	A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. <i>Science</i> , 2019 , 366,	33.3	89
215	Playing Chess with HIV. <i>Immunity</i> , 2019 , 50, 283-285	32.3	
214	SOS and IP Modifications Predominantly Affect the Yield but Not Other Properties of SOSIP.664 HIV-1 Env Glycoprotein Trimers. <i>Journal of Virology</i> , 2019 , 94,	6.6	3
213	Vaccination with Glycan-Modified HIV NFL Envelope Trimer-Liposomes Elicits Broadly Neutralizing Antibodies to Multiple Sites of Vulnerability. <i>Immunity</i> , 2019 , 51, 915-929.e7	32.3	62

212	An MPER antibody neutralizes HIV-1 using germline features shared among donors. <i>Nature Communications</i> , 2019 , 10, 5389	17.4	23
211	Structural Basis of Protection against H7N9 Influenza Virus by Human Anti-N9 Neuraminidase Antibodies. <i>Cell Host and Microbe</i> , 2019 , 26, 729-738.e4	23.4	29
210	Influenza H7N9 Virus Neuraminidase-Specific Human Monoclonal Antibodies Inhibit Viral Egress and Protect from Lethal Influenza Infection in Mice. <i>Cell Host and Microbe</i> , 2019 , 26, 715-728.e8	23.4	30
209	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	32.3	96
208	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019 , 431, 842-856	6.5	24
207	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> , 2019 , 93,	6.6	50
206	Rational design of a trispecific antibody targeting the HIV-1 Env with elevated anti-viral activity. <i>Nature Communications</i> , 2018 , 9, 877	17.4	43
205	Effects of Adjuvants on HIV-1 Envelope Glycoprotein SOSIP Trimers. <i>Journal of Virology</i> , 2018 , 92,	6.6	26
204	Glycosylation of Human IgA Directly Inhibits Influenza A and Other Sialic-Acid-Binding Viruses. <i>Cell Reports</i> , 2018 , 23, 90-99	10.6	45
203	Envelope proteins of two HIV-1 clades induced different epitope-specific antibody response. <i>Vaccine</i> , 2018 , 36, 1627-1636	4.1	9
202	Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. <i>Journal of Proteome Research</i> , 2018 , 17, 987-999	5.6	18
201	Structure of the mechanically activated ion channel Piezo1. <i>Nature</i> , 2018 , 554, 481-486	50.4	224
200	Structure and Immune Recognition of the HIV Glycan Shield. <i>Annual Review of Biophysics</i> , 2018 , 47, 499-523	22.1	81
199	Development of Clinical-Stage Human Monoclonal Antibodies That Treat Advanced Ebola Virus Disease in Nonhuman Primates. <i>Journal of Infectious Diseases</i> , 2018 , 218, S612-S626	7	92
198	Structural and immunologic correlates of chemically stabilized HIV-1 envelope glycoproteins. <i>PLoS Pathogens</i> , 2018 , 14, e1006986	7.6	22
197	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	32.3	110
196	Cleavage-Independent HIV-1 Trimers From CHO Cell Lines Elicit Robust Autologous Tier 2 Neutralizing Antibodies. <i>Frontiers in Immunology</i> , 2018 , 9, 1116	8.4	19
195	Multifunctional Pan-ebolavirus Antibody Recognizes a Site of Broad Vulnerability on the Ebolavirus Glycoprotein. <i>Immunity</i> , 2018 , 49, 363-374.e10	32.3	47

194	A multifunctional human monoclonal neutralizing antibody that targets a unique conserved epitope on influenza HA. <i>Nature Communications</i> , 2018 , 9, 2669	17.4	44
193	Broadly neutralizing antibodies from human survivors target a conserved site in the Ebola virus glycoprotein HR2-MPER region. <i>Nature Microbiology</i> , 2018 , 3, 670-677	26.6	47
192	Systematic Analysis of Monoclonal Antibodies against Ebola Virus GP Defines Features that Contribute to Protection. <i>Cell</i> , 2018 , 174, 938-952.e13	56.2	126
191	Co-evolution of HIV Envelope and Apex-Targeting Neutralizing Antibody Lineage Provides Benchmarks for Vaccine Design. <i>Cell Reports</i> , 2018 , 23, 3249-3261	10.6	36
190	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , 2018 , 14, e1006913	7.6	78
189	Structure of the human volume regulated anion channel. <i>ELife</i> , 2018 , 7,	8.9	61
188	Author response: Structure of the human volume regulated anion channel 2018 ,		2
187	OSCA/TMEM63 are an Evolutionarily Conserved Family of Mechanically Activated Ion Channels. <i>ELife</i> , 2018 , 7,	8.9	121
186	Cryo-EM structure of the mechanically activated ion channel OSCA1.2. <i>ELife</i> , 2018 , 7,	8.9	64
185	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> , 2018 , 293, 1688-1701	5.4	26
184	cGMP production and analysis of BG505 SOSIP.664, an extensively glycosylated, trimeric HIV-1 envelope glycoprotein vaccine candidate. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 885-899	4.9	56
183	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018 , 4, eaau6769	14.3	43
182	Deception through Mimicry: A Cellular Antiviral Strategy. <i>Cell</i> , 2018 , 175, 1728-1729	56.2	
181	Development of Smartphone Accelerometer-Based Airfield Friction Assessment Tools. <i>Transportation Research Record</i> , 2018 , 2672, 95-105	1.7	1
180	Cryo-EM structure of circumsporozoite protein with a vaccine-elicited antibody is stabilized by somatically mutated inter-Fab contacts. <i>Science Advances</i> , 2018 , 4, eaau8529	14.3	33
179	Stabilized coronavirus spikes are resistant to conformational changes induced by receptor recognition or proteolysis. <i>Scientific Reports</i> , 2018 , 8, 15701	4.9	259
178	Universal protection against influenza infection by a multidomain antibody to influenza hemagglutinin. <i>Science</i> , 2018 , 362, 598-602	33.3	106
177	Structural Basis of Pan-Ebolavirus Neutralization by an Antibody Targeting the Glycoprotein Fusion Loop. <i>Cell Reports</i> , 2018 , 24, 2723-2732.e4	10.6	17

176	Rational Design of DNA-Expressed Stabilized Native-Like HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2018 , 24, 3324-3338.e5	10.6	33
175	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018 , 9, 3693	17.4	87
174	Structure of a cleavage-independent HIV Env recapitulates the glycoprotein architecture of the native cleaved trimer. <i>Nature Communications</i> , 2018 , 9, 1956	17.4	28
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30	Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics		1
29	Structure of the SARS-CoV NSP12 polymerase bound to NSP7 and NSP8 co-factors		4
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24	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens		4
23	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates		7
22	Structure and immune recognition of the porcine epidemic diarrhea virus spike protein		2
21	Targeting HIV Env immunogens to B cell follicles in non-human primates through immune complex or protein nanoparticle formulations		2
20	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation		13
19	Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability		41
18	Polyclonal epitope cartography reveals the temporal dynamics and diversity of human antibody responses to H5N1 vaccination		1
17	Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike		6
16	Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines		2
15	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins		2

14	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection	1
13	Slow delivery immunization enhances HIV neutralizing antibody and germinal center responses via modulation of immunodominance	4
12	Structure of the Ebola virus nucleoprotein RNA complex	1
11	HIV Envelope Trimer-Elicited Autologous Neutralizing Antibodies Bind a Region Overlapping the N332 Glycan Supersite	1
10	Mapping polyclonal antibody responses in non-human primates vaccinated with HIV Env trimer subunit vaccines	5
9	Visualization of the HIV-1 Env Glycan Shield Across Scales	3
8	Quantification of the Resilience and Vulnerability of HIV-1 Native Glycan Shield at Atomistic Detail	3
7	From Structure to Sequence: Identification of polyclonal antibody families using cryoEM	1
6	One dose of COVID-19 nanoparticle vaccine REVC-128 provides protection against SARS-CoV-2 challenge at two weeks post immunization	4
5	A public broadly neutralizing antibody class targets a membrane-proximal anchor epitope of influenza virus hemagglutinin	1
4	Broadly neutralizing antibodies to SARS-related viruses can be readily induced in rhesus macaques	4
3	Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody	1
2	Structural mapping of antibody landscapes to human betacoronavirus spike proteins	1
1	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM	1