

Ian A Wilson

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.

379
papers

44,686
citations

108
h-index

205
g-index

406
ext. papers

52,899
ext. citations

16
avg, IF

7.54
L-index

#	Paper	IF	Citations
379	N-glycolylneuraminic acid binding of avian and equine H7 influenza A viruses.. <i>Journal of Virology</i> , 2022 , jvi0212021	6.6	1
378	Amyloidogenic immunoglobulin light chain kinetic stabilizers comprising a simple urea linker module reveal a novel binding sub-site.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 128571	2.9	0
377	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	17.5	15
376	Targeted isolation of panels of diverse human protective broadly neutralizing antibodies against SARS-like viruses. 2022 ,		3
375	SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies.. <i>Science</i> , 2022 , 375, eabm5835	33.3	12
374	Broadly neutralizing anti-S2 antibodies protect against all three human betacoronaviruses that cause severe disease. 2022 ,		2
373	A broad and potent neutralization epitope in SARS-related coronaviruses. 2022 ,		2
372	A novel CSP C-terminal epitope targeted by an antibody with protective activity against Plasmodium falciparum.. <i>PLoS Pathogens</i> , 2022 , 18, e1010409	7.6	0
371	A large-scale systematic survey reveals recurring molecular features of public antibody responses to SARS-CoV-2.. <i>Immunity</i> , 2022 ,	32.3	2
370	Design of protein binding proteins from target structure alone.. <i>Nature</i> , 2022 ,	50.4	13
369	Targeted protein S-nitrosylation of ACE2 as potential treatment to prevent spread of SARS-CoV-2 infection. 2022 ,		1
368	Broadly neutralizing antibodies target the coronavirus fusion peptide. 2022 ,		3
367	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
366	Probing Affinity, Avidity, Anticooperativity, and Competition in Antibody and Receptor Binding to the SARS-CoV-2 Spike by Single Particle Mass Analyses. <i>ACS Central Science</i> , 2021 , 7, 1863-1873	16.8	2
365	A Novel Recombinant Influenza Virus Neuraminidase Vaccine Candidate Stabilized by a Measles Virus Phosphoprotein Tetramerization Domain Provides Robust Protection from Virus Challenge in the Mouse Model. <i>MBio</i> , 2021 , e0224121	7.8	2
364	A large-scale systematic survey of SARS-CoV-2 antibodies reveals recurring molecular features 2021 ,		3
363	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. <i>Nature Communications</i> , 2021 , 12, 6097	17.4	15

362	Structural and Biochemical Characterization of Cysteinylation in Broadly Neutralizing Antibodies to HIV-1. <i>Journal of Molecular Biology</i> , 2021 , 433, 167303	6.5	
361	Neutralizing Antibodies to SARS-CoV-2 Selected from a Human Antibody Library Constructed Decades Ago. <i>Advanced Science</i> , 2021 , e2102181	13.6	6
360	Dynamics of B-cell repertoires and emergence of cross-reactive responses in COVID-19 patients with different disease severity 2021 ,		2
359	Single-component, self-assembling, protein nanoparticles presenting the receptor binding domain and stabilized spike as SARS-CoV-2 vaccine candidates 2021 ,		8
358	A protective broadly cross-reactive human antibody defines a conserved site of vulnerability on beta-coronavirus spikes 2021 ,		26
357	A cross-neutralizing antibody between HIV-1 and influenza virus. <i>PLoS Pathogens</i> , 2021 , 17, e1009407	7.6	9
356	Single-component, self-assembling, protein nanoparticles presenting the receptor binding domain and stabilized spike as SARS-CoV-2 vaccine candidates. <i>Science Advances</i> , 2021 , 7,	14.3	32
355	Ultrapotent bispecific antibodies neutralize emerging SARS-CoV-2 variants 2021 ,		6
354	Functional convergence of a germline-encoded neutralizing antibody response in rhesus macaques immunized with HCV envelope glycoproteins. <i>Immunity</i> , 2021 , 54, 781-796.e4	32.3	10
353	Dynamics of B cell repertoires and emergence of cross-reactive responses in patients with different severities of COVID-19. <i>Cell Reports</i> , 2021 , 35, 109173	10.6	14
352	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. <i>Science</i> , 2021 , 373, 818-823	33.3	148
351	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
350	Selection of a picomolar antibody that targets CXCR2-mediated neutrophil activation and alleviates EAE symptoms. <i>Nature Communications</i> , 2021 , 12, 2547	17.4	2
349	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
348	NMR Based SARS-CoV-2 Antibody Screening. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7930-7934	16.4	3
347	Discovery of Potent Coumarin-Based Kinetic Stabilizers of Amyloidogenic Immunoglobulin Light Chains Using Structure-Based Design. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 6273-6299	8.3	7
346	Diverse immunoglobulin gene usage and convergent epitope targeting in neutralizing antibody responses to SARS-CoV-2. <i>Cell Reports</i> , 2021 , 35, 109109	10.6	7
345	Sequence signatures of two public antibody clonotypes that bind SARS-CoV-2 receptor binding domain. <i>Nature Communications</i> , 2021 , 12, 3815	17.4	15

344	Homologous and heterologous serological response to the N-terminal domain of SARS-CoV-2 in humans and mice. <i>European Journal of Immunology</i> , 2021 , 51, 2296-2305	6.1	2
343	Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles. <i>MBio</i> , 2021 , 12, e0042921	7.8	1
342	Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	5
341	Novel lamprey antibody recognizes terminal sulfated galactose epitopes on mammalian glycoproteins. <i>Communications Biology</i> , 2021 , 4, 674	6.7	6
340	Recognition of the SARS-CoV-2 receptor binding domain by neutralizing antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 538, 192-203	3.4	93
339	50 Years of structural immunology. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100745	5.4	3
338	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants 2021 ,		26
337	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models 2021 ,		10
336	Structural and biophysical correlation of anti-NANP antibodies with in vivo protection against <i>P. falciparum</i> . <i>Nature Communications</i> , 2021 , 12, 1063	17.4	7
335	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. <i>Science</i> , 2021 , 371,	33.3	149
334	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection 2021 ,		3
333	Structural basis for differential recognition of phosphohistidine-containing peptides by 1-pHis and 3-pHis monoclonal antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
332	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
331	Serological assays for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), March 2020. <i>Eurosurveillance</i> , 2020 , 25,	19.8	220
330	Cross-reactive Antibody Response between SARS-CoV-2 and SARS-CoV Infections. <i>Cell Reports</i> , 2020 , 31, 107725	10.6	263
329	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
328	HIV-1 Envelope and MPER Antibody Structures in Lipid Assemblies. <i>Cell Reports</i> , 2020 , 31, 107583	10.6	29
327	Inhibitory antibodies identify unique sites of therapeutic vulnerability in rhinovirus and other enteroviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13499-13508	11.5	4

326	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. <i>Nature Communications</i> , 2020 , 11, 2688	17.4	174
325	Structural basis of broad HIV neutralization by a vaccine-induced cow antibody. <i>Science Advances</i> , 2020 , 6, eaba0468	14.3	14
324	Isolation of potent SARS-CoV-2 neutralizing antibodies and protection from disease in a small animal model. <i>Science</i> , 2020 , 369, 956-963	33.3	906
323	Different genetic barriers for resistance to HA stem antibodies in influenza H3 and H1 viruses. <i>Science</i> , 2020 , 368, 1335-1340	33.3	22
322	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
321	Major antigenic site B of human influenza H3N2 viruses has an evolving local fitness landscape. <i>Nature Communications</i> , 2020 , 11, 1233	17.4	23
320	A highly conserved cryptic epitope in the receptor binding domains of SARS-CoV-2 and SARS-CoV. <i>Science</i> , 2020 , 368, 630-633	33.3	954
319	Structural basis for the stabilization of amyloidogenic immunoglobulin light chains by hydantoins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127356	2.9	5
318	Convergent Evolution in Breadth of Two V6-1-Encoded Influenza Antibody Clonotypes from a Single Donor. <i>Cell Host and Microbe</i> , 2020 , 28, 434-444.e4	23.4	8
317	The Impact of Sustained Immunization Regimens on the Antibody Response to Oligomannose Glycans. <i>ACS Chemical Biology</i> , 2020 , 15, 789-798	4.9	4
316	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
315	Proof of concept for rational design of hepatitis C virus E2 core nanoparticle vaccines. <i>Science Advances</i> , 2020 , 6, eaaz6225	14.3	23
314	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
313	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
312	Cross-reactive antibody response between SARS-CoV-2 and SARS-CoV infections 2020 ,		40
311	Structural basis of a public antibody response to SARS-CoV-2 2020 ,		14
310	An alternative binding mode of IGHV3-53 antibodies to the SARS-CoV-2 receptor binding domain 2020 ,		8
309	Cross-neutralization of a SARS-CoV-2 antibody to a functionally conserved site is mediated by avidity 2020 ,		13

308	A SARS-CoV-2 neutralizing antibody protects from lung pathology in a COVID-19 hamster model 2020 ,		15
307	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody 2020 ,		2
306	Vaccine innovations for emerging infectious diseases-a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1462, 14-26	6.5	10
305	Influenza Hemagglutinin Structures and Antibody Recognition. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020 , 10,	5.4	21
304	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
303	Structural Biology of Influenza Hemagglutinin: An Amaranthine Adventure. <i>Viruses</i> , 2020 , 12,	6.2	12
302	A Therapeutic Non-self-reactive SARS-CoV-2 Antibody Protects from Lung Pathology in a COVID-19 Hamster Model. <i>Cell</i> , 2020 , 183, 1058-1069.e19	56.2	182
301	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
300	An influenza A hemagglutinin small-molecule fusion inhibitor identified by a new high-throughput fluorescence polarization screen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18431-18438	11.5	13
299	Structural basis of a shared antibody response to SARS-CoV-2. <i>Science</i> , 2020 , 369, 1119-1123	33.3	338
298	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
297	An alternate conformation of HCV E2 neutralizing face as an additional vaccine target. <i>Science Advances</i> , 2020 , 6, eabb5642	14.3	9
296	A high-affinity antibody against the CSP N-terminal domain lacks Plasmodium falciparum inhibitory activity. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	5
295	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
294	A V1-69 antibody lineage from an infected Chinese donor potently neutralizes HIV-1 by targeting the V3 glycan supersite. <i>Science Advances</i> , 2020 , 6,	14.3	4
293	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
292	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
291	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		

290	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates 2020 , 16, e1008753		
289	Broadly protective human antibodies that target the active site of influenza virus neuraminidase. <i>Science</i> , 2019 , 366, 499-504	33.3	83
288	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
287	Exploitation of glycosylation in enveloped virus pathobiology. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 1480-1497	4	228
286	Structural Insights into the Lipid A Transport Pathway in MsbA. <i>Structure</i> , 2019 , 27, 1114-1123.e3	5.2	13
285	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
284	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility. <i>Cell Host and Microbe</i> , 2019 , 25, 836-844.e5	23.4	27
283	N-Glycolylneuraminic Acid as a Receptor for Influenza A Viruses. <i>Cell Reports</i> , 2019 , 27, 3284-3294.e6	10.6	49
282	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
281	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
280	A Site of Vulnerability on the Influenza Virus Hemagglutinin Head Domain Trimer Interface. <i>Cell</i> , 2019 , 177, 1136-1152.e18	56.2	107
279	Bacterial glycosyltransferase-mediated cell-surface chemoenzymatic glycan modification. <i>Nature Communications</i> , 2019 , 10, 1799	17.4	25
278	V1-69 antiviral broadly neutralizing antibodies: genetics, structures, and relevance to rational vaccine design. <i>Current Opinion in Virology</i> , 2019 , 34, 149-159	7.5	51
277	Antibody responses to viral infections: a structural perspective across three different enveloped viruses. <i>Nature Microbiology</i> , 2019 , 4, 734-747	26.6	89
276	A small-molecule fusion inhibitor of influenza virus is orally active in mice. <i>Science</i> , 2019 , 363,	33.3	69
275	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
274	Stabilization of amyloidogenic immunoglobulin light chains by small molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8360-8369	11.5	30
273	A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike. <i>Science Advances</i> , 2019 , 5, eaav4580	14.3	268

272	Oligomannose Glycopeptide Conjugates Elicit Antibodies Targeting the Glycan Core Rather than Its Extremities. <i>ACS Central Science</i> , 2019 , 5, 237-249	16.8	18
271	Capturing the inherent structural dynamics of the HIV-1 envelope glycoprotein fusion peptide. <i>Nature Communications</i> , 2019 , 10, 763	17.4	13
270	Structures of single-layer β sheet proteins evolved from β hairpin repeats. <i>Protein Science</i> , 2019 , 28, 1676-1689	6.3	1
269	A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. <i>Science</i> , 2019 , 366,	33.3	89
268	Identification of Antibodies Targeting the H3N2 Hemagglutinin Receptor Binding Site following Vaccination of Humans. <i>Cell Reports</i> , 2019 , 29, 4460-4470.e8	10.6	10
267	An MPER antibody neutralizes HIV-1 using germline features shared among donors. <i>Nature Communications</i> , 2019 , 10, 5389	17.4	23
266	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
265	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
264	A Dynamic Switch in Inactive p38 γ Leads to an Excited State on the Pathway to an Active Kinase. <i>Biochemistry</i> , 2019 , 58, 5160-5172	3.2	3
263	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
262	Immunodominance and Antigenic Variation of Influenza Virus Hemagglutinin: Implications for Design of Universal Vaccine Immunogens. <i>Journal of Infectious Diseases</i> , 2019 , 219, S38-S45	7	41
261	Genetic and structural insights into broad neutralization of hepatitis C virus by human V1-69 antibodies. <i>Science Advances</i> , 2019 , 5, eaav1882	14.3	46
260	Multistate design of influenza antibodies improves affinity and breadth against seasonal viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1597-1602	11.5	16
259	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
258	Structural insights into the design of novel anti-influenza therapies. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 115-121	17.6	64
257	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
256	"Inverse Drug Discovery" Strategy To Identify Proteins That Are Targeted by Latent Electrophiles As Exemplified by Aryl Fluorosulfates. <i>Journal of the American Chemical Society</i> , 2018 , 140, 200-210	16.4	127
255	Structure and Immune Recognition of the HIV Glycan Shield. <i>Annual Review of Biophysics</i> , 2018 , 47, 499-523	23.1	81

254	A complex epistatic network limits the mutational reversibility in the influenza hemagglutinin receptor-binding site. <i>Nature Communications</i> , 2018 , 9, 1264	17.4	38
253	A small-molecule fragment that emulates binding of receptor and broadly neutralizing antibodies to influenza A hemagglutinin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4240-4245	11.5	17
252	VLR Recognition of TLR5 Expands the Molecular Characterization of Protein Antigen Binding by Non-Ig-based Antibodies. <i>Journal of Molecular Biology</i> , 2018 , 430, 1350-1367	6.5	9
251	A public antibody lineage that potently inhibits malaria infection through dual binding to the circumsporozoite protein. <i>Nature Medicine</i> , 2018 , 24, 401-407	50.5	110
250	The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	62
249	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
248	The Neutralizing Face of Hepatitis C Virus E2 Envelope Glycoprotein. <i>Frontiers in Immunology</i> , 2018 , 9, 1315	8.4	31
247	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
246	A common antigenic motif recognized by naturally occurring human V5-51/V4-1 anti-tau antibodies with distinct functionalities. <i>Acta Neuropathologica Communications</i> , 2018 , 6, 43	7.3	10
245	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
244	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
243	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
242	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
241	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018 , 4, eaau6769	14.3	43
240	Recurring and Adaptable Binding Motifs in Broadly Neutralizing Antibodies to Influenza Virus Are Encoded on the D3-9 Segment of the Ig Gene. <i>Cell Host and Microbe</i> , 2018 , 24, 569-578.e4	23.4	25
239	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
238	Structural Basis for Recognition of a Unique Epitope by a Human Anti-tau Antibody. <i>Structure</i> , 2018 , 26, 1626-1634.e4	5.2	6
237	Universal protection against influenza infection by a multidomain antibody to influenza hemagglutinin. <i>Science</i> , 2018 , 362, 598-602	33.3	106

236	Structure-Activity Relationships in Metal-Binding Pharmacophores for Influenza Endonuclease. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 10206-10217	8.3	22
235	Crystal structure of the post-fusion core of the Human coronavirus 229E spike protein at 1.86 Å resolution. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 841-851	5.5	16
234	Structural basis for cooperative regulation of KIX-mediated transcription pathways by the HTLV-1 HBZ activation domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10040-10045	11.5	10
233	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
232	The Unusual Genetics and Biochemistry of Bovine Immunoglobulins. <i>Advances in Immunology</i> , 2018 , 137, 135-164	5.6	20
231	Immunogenetic and structural analysis of a class of HCV broadly neutralizing antibodies and their precursors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7569-7574	11.5	8
230	The HIV-1 envelope glycoprotein structure: nailing down a moving target. <i>Immunological Reviews</i> , 2017 , 275, 21-32	11.3	178
229	Unique Structural Features of Influenza Virus H15 Hemagglutinin. <i>Journal of Virology</i> , 2017 , 91,	6.6	11
228	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	11.5	27
227	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
226	In vitro evolution of an influenza broadly neutralizing antibody is modulated by hemagglutinin receptor specificity. <i>Nature Communications</i> , 2017 , 8, 15371	17.4	38
225	Glycine Substitution at Helix-to-Coil Transitions Facilitates the Structural Determination of a Stabilized Subtype C HIV Envelope Glycoprotein. <i>Immunity</i> , 2017 , 46, 792-803.e3	32.3	59
224	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	32.3	204
223	Role of the CBP catalytic core in intramolecular SUMOylation and control of histone H3 acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5335-E5342	11.5	33
222	Reducing V3 Antigenicity and Immunogenicity on Soluble, Native-Like HIV-1 Env SOSIP Trimers. <i>Journal of Virology</i> , 2017 , 91,	6.6	33
221	Semi-quantitative models for identifying potent and selective transthyretin amyloidogenesis inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3441-3449	2.9	8
220	Computational design of trimeric influenza-neutralizing proteins targeting the hemagglutinin receptor binding site. <i>Nature Biotechnology</i> , 2017 , 35, 667-671	44.5	84
219	Genetically encoding phosphotyrosine and its nonhydrolyzable analog in bacteria. <i>Nature Chemical Biology</i> , 2017 , 13, 845-849	11.7	72

218	Diversity of Functionally Permissive Sequences in the Receptor-Binding Site of Influenza Hemagglutinin. <i>Cell Host and Microbe</i> , 2017 , 21, 742-753.e8	23.4	40
217	Improving the Expression and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers by Targeted Sequence Changes. <i>Journal of Virology</i> , 2017 , 91,	6.6	19
216	Immunological memory to hyperphosphorylated tau in asymptomatic individuals. <i>Acta Neuropathologica</i> , 2017 , 133, 767-783	14.3	31
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13	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation		13
12	A highly conserved cryptic epitope in the receptor-binding domains of SARS-CoV-2 and SARS-CoV		32
11	Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines		2
10	Potent SARS-CoV-2 neutralizing antibodies selected from a human antibody library constructed decades ago		6
9	N-glycolylneuraminic acid binding of avian H7 influenza A viruses		1
8	Structure-based design of a highly stable, covalently-linked SARS-CoV-2 spike trimer with improved structural properties and immunogenicity		9
7	Probing Affinity, Avidity, Anti-Cooperativity, and Competition in Antibody and Receptor Binding to the SARS-CoV-2 Spike by Single Particle Mass Analyses		1
6	Broadly neutralizing antibodies to SARS-related viruses can be readily induced in rhesus macaques		4
5	Robust de novo design of protein binding proteins from target structural information alone		1
4	Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody		1
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