

Jason Gorman

List of Publications by Year in descending order

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73
papers

9,981
citations

94433

37
h-index

85541

71
g-index

81
all docs

81
docs citations

81
times ranked

10868
citing authors

#	ARTICLE	IF	CITATIONS
1	Potent neutralizing antibodies against multiple epitopes on SARS-CoV-2 spike. <i>Nature</i> , 2020, 584, 450-456.	27.8	1,337
2	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. <i>Nature</i> , 2011, 480, 336-343.	27.8	794
3	Structure and immune recognition of trimeric pre-fusion HIV-1 Env. <i>Nature</i> , 2014, 514, 455-461.	27.8	702
4	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. <i>Nature</i> , 2014, 509, 55-62.	27.8	681
5	Potent SARS-CoV-2 neutralizing antibodies directed against spike N-terminal domain target a single supersite. <i>Cell Host and Microbe</i> , 2021, 29, 819-833.e7.	11.0	444
6	Conformational dynamics of single HIV-1 envelope trimers on the surface of native virions. <i>Science</i> , 2014, 346, 759-763.	12.6	439
7	Vaccine Induction of Antibodies against a Structurally Heterogeneous Site of Immune Pressure within HIV-1 Envelope Protein Variable Regions 1 and 2. <i>Immunity</i> , 2013, 38, 176-186.	14.3	374
8	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 522-531.	8.2	333
9	Cryo-EM Structures of SARS-CoV-2 Spike without and with ACE2 Reveal a pH-Dependent Switch to Mediate Endosomal Positioning of Receptor-Binding Domains. <i>Cell Host and Microbe</i> , 2020, 28, 867-879.e5.	11.0	316
10	Fusion peptide of HIV-1 as a site of vulnerability to neutralizing antibody. <i>Science</i> , 2016, 352, 828-833.	12.6	310
11	AAV-expressed eCD4-Ig provides durable protection from multiple SHIV challenges. <i>Nature</i> , 2015, 519, 87-91.	27.8	265
12	Epitope-based vaccine design yields fusion peptide-directed antibodies that neutralize diverse strains of HIV-1. <i>Nature Medicine</i> , 2018, 24, 857-867.	30.7	256
13	Visualizing one-dimensional diffusion of proteins along DNA. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 768-774.	8.2	247
14	Dynamic Basis for One-Dimensional DNA Scanning by the Mismatch Repair Complex Msh2-Msh6. <i>Molecular Cell</i> , 2007, 28, 359-370.	9.7	215
15	Viral variants that initiate and drive maturation of V1V2-directed HIV-1 broadly neutralizing antibodies. <i>Nature Medicine</i> , 2015, 21, 1332-1336.	30.7	215
16	New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. <i>Journal of Virology</i> , 2016, 90, 76-91.	3.4	205
17	Visualizing one-dimensional diffusion of eukaryotic DNA repair factors along a chromatin lattice. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 932-938.	8.2	175
18	Envelope residue 375 substitutions in simian-human immunodeficiency viruses enhance CD4 binding and replication in rhesus macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3413-22.	7.1	170

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19	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 81-90.	8.2	162
20	Single-molecule imaging reveals target-search mechanisms during DNA mismatch repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3074-83.	7.1	156
21	Associating HIV-1 envelope glycoprotein structures with states on the virus observed by smFRET. <i>Nature</i> , 2019, 568, 415-419.	27.8	156
22	Real-Time Conformational Dynamics of SARS-CoV-2 Spikes on Virus Particles. <i>Cell Host and Microbe</i> , 2020, 28, 880-891.e8.	11.0	153
23	HIV-1 Env trimer opens through an asymmetric intermediate in which individual protomers adopt distinct conformations. <i>ELife</i> , 2018, 7, .	6.0	127
24	Single-Chain Soluble BG505.SOSIP gp140 Trimers as Structural and Antigenic Mimics of Mature Closed HIV-1 Env. <i>Journal of Virology</i> , 2015, 89, 5318-5329.	3.4	125
25	DNA Curtains for High-Throughput Single-Molecule Optical Imaging. <i>Methods in Enzymology</i> , 2010, 472, 293-315.	1.0	116
26	The promoter-search mechanism of Escherichia coli RNA polymerase is dominated by three-dimensional diffusion. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 174-181.	8.2	110
27	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , 2019, 178, 567-584.e19.	28.9	106
28	Structure-Based Design of a Soluble Prefusion-Closed HIV-1 Env Trimer with Reduced CD4 Affinity and Improved Immunogenicity. <i>Journal of Virology</i> , 2017, 91, .	3.4	81
29	Virus-like Particles Identify an HIV V1V2 Apex-Binding Neutralizing Antibody that Lacks a Protruding Loop. <i>Immunity</i> , 2017, 46, 777-791.e10.	14.3	81
30	Longitudinal Analysis Reveals Early Development of Three MPER-Directed Neutralizing Antibody Lineages from an HIV-1-Infected Individual. <i>Immunity</i> , 2019, 50, 677-691.e13.	14.3	77
31	A Short Segment of the HIV-1 gp120 V1/V2 Region Is a Major Determinant of Resistance to V1/V2 Neutralizing Antibodies. <i>Journal of Virology</i> , 2012, 86, 8319-8323.	3.4	76
32	Nanofabricated Racks of Aligned and Anchored DNA Substrates for Single-Molecule Imaging. <i>Langmuir</i> , 2010, 26, 1372-1379.	3.5	62
33	Structure-Based Design with Tag-Based Purification and In-Process Biotinylation Enable Streamlined Development of SARS-CoV-2 Spike Molecular Probes. <i>Cell Reports</i> , 2020, 33, 108322.	6.4	59
34	Subnanometer structures of HIV-1 envelope trimers on aldrithiol-2-inactivated virus particles. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 726-734.	8.2	55
35	Structure of Super-Potent Antibody CAP256-VRC26.25 in Complex with HIV-1 Envelope Reveals a Combined Mode of Trimer-Apex Recognition. <i>Cell Reports</i> , 2020, 31, 107488.	6.4	53
36	Targeted Isolation of Antibodies Directed against Major Sites of SIV Env Vulnerability. <i>PLoS Pathogens</i> , 2016, 12, e1005537.	4.7	51

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37	Transplanting Supersites of HIV-1 Vulnerability. PLoS ONE, 2014, 9, e99881.	2.5	51
38	Recapitulation of HIV-1 Env-antibody coevolution in macaques leading to neutralization breadth. Science, 2021, 371, .	12.6	49
39	Interdomain Stabilization Impairs CD4 Binding and Improves Immunogenicity of the HIV-1 Envelope Trimer. Cell Host and Microbe, 2018, 23, 832-844.e6.	11.0	43
40	N332-Directed Broadly Neutralizing Antibodies Use Diverse Modes of HIV-1 Recognition: Inferences from Heavy-Light Chain Complementation of Function. PLoS ONE, 2013, 8, e55701.	2.5	38
41	Somatic Hypermutation-Induced Changes in the Structure and Dynamics of HIV-1 Broadly Neutralizing Antibodies. Structure, 2016, 24, 1346-1357.	3.3	35
42	Structure and Recognition of a Novel HIV-1 gp120-gp41 Interface Antibody that Caused MPER Exposure through Viral Escape. PLoS Pathogens, 2017, 13, e1006074.	4.7	33
43	Structure of an N276-Dependent HIV-1 Neutralizing Antibody Targeting a Rare V5 Glycan Hole Adjacent to the CD4 Binding Site. Journal of Virology, 2016, 90, 10220-10235.	3.4	32
44	Structure of serine acetyltransferase from Haemophilus influenzae Rd. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1600-1605.	2.5	31
45	Blocking $\alpha 4 \beta 7$ integrin binding to SIV does not improve virologic control. Science, 2019, 365, 1033-1036.	12.6	31
46	Select gp120 V2 domain specific antibodies derived from HIV and SIV infection and vaccination inhibit gp120 binding to $\alpha 4 \beta 7$. PLoS Pathogens, 2018, 14, e1007278.	4.7	29
47	Ontogeny-based immunogens for the induction of V2-directed HIV broadly neutralizing antibodies. Immunological Reviews, 2017, 275, 217-229.	6.0	27
48	Crystal structures of the tryptophan repressor binding protein WrbA and complexes with flavin mononucleotide. Protein Science, 2005, 14, 3004-3012.	7.6	23
49	Rational design and in vivo selection of SHIVs encoding transmitted/founder subtype C HIV-1 envelopes. PLoS Pathogens, 2019, 15, e1007632.	4.7	20
50	Interprotomer disulfide-stabilized variants of the human metapneumovirus fusion glycoprotein induce high titer-neutralizing responses. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
51	Anti-V2 antibodies virus vulnerability revealed by envelope V1 deletion in HIV vaccine candidates. IScience, 2021, 24, 102047.	4.1	16
52	A single residue in influenza virus H2 hemagglutinin enhances the breadth of the B cell response elicited by H2 vaccination. Nature Medicine, 2022, 28, 373-382.	30.7	16
53	Isolation and Structure of an Antibody that Fully Neutralizes Isolate SIVmac239 Reveals Functional Similarity of SIV and HIV Glycan Shields. Immunity, 2019, 51, 724-734.e4.	14.3	13
54	Structure of Escherichia coli YfdW, a type III CoA transferase. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 507-511.	2.5	12

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55	Sequencing HIV-neutralizing antibody exons and introns reveals detailed aspects of lineage maturation. <i>Nature Communications</i> , 2018, 9, 4136.	12.8	11
56	A matrix of structure-based designs yields improved VRC01-class antibodies for HIV-1 therapy and prevention. <i>MAbs</i> , 2021, 13, 1946918.	5.2	11
57	Antigenic analysis of the HIV-1 envelope trimer implies small differences between structural states 1 and 2. <i>Journal of Biological Chemistry</i> , 2022, 298, 101819.	3.4	9
58	Highly protective antimalarial antibodies via precision library generation and yeast display screening. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	9
59	Structural basis of malaria RIFIN binding by LILRB1-containing antibodies. <i>Nature</i> , 2021, 592, 639-643.	27.8	8
60	Tyrosine O-sulfation proteoforms affect HIV-1 monoclonal antibody potency. <i>Scientific Reports</i> , 2022, 12, 8433.	3.3	8
61	Somatic hypermutation to counter a globally rare viral immunotype drove off-track antibodies in the CAP256-VRC26 HIV-1 V2-directed bNAbs lineage. <i>PLoS Pathogens</i> , 2019, 15, e1008005.	4.7	6
62	Disulfide stabilization of human norovirus GI.1 virus-like particles focuses immune response toward blockade epitopes. <i>Npj Vaccines</i> , 2020, 5, 110.	6.0	6
63	Broad coverage of neutralization-resistant SIV strains by second-generation SIV-specific antibodies targeting the region involved in binding CD4. <i>PLoS Pathogens</i> , 2022, 18, e1010574.	4.7	6
64	Single-Molecule FRET Delineates Asymmetric Trimer Conformations during HIV-1 Entry. <i>Biophysical Journal</i> , 2017, 112, 177a.	0.5	3
65	Extended antibody-framework-to-antigen distance observed exclusively with broad HIV-1-neutralizing antibodies recognizing glycan-dense surfaces. <i>Nature Communications</i> , 2021, 12, 6470.	12.8	3
66	Development of Neutralization Breadth against Diverse HIV-1 by Increasing Ab-Ag Interface on V2. <i>Advanced Science</i> , 2022, , 2200063.	11.2	3
67	Target search dynamics during post-replicative mismatch repair. <i>Cell Cycle</i> , 2013, 12, 537-538.	2.6	2
68	Structural basis of LAIR1 targeting by polymorphic Plasmodium RIFINs. <i>Nature Communications</i> , 2021, 12, 4226.	12.8	1
69	Structure of Antibody CAP256-VRC26.25 in Complex with HIV-1 Envelope Reveals a Combined Mode of Trimer-Apex Recognition. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
70	Structure of an influenza group 2-neutralizing antibody targeting the hemagglutinin stem supersite. <i>Structure</i> , 2022, , .	3.3	1
71	Conformational Dynamics of Single HIV-1 Envelope Proteins on the Surface of Native Virions. <i>Biophysical Journal</i> , 2015, 108, 362a-363a.	0.5	0
72	Conformational Changes in HIV-1 Env Trimer Induced by a Single CD4 as Revealed by Cryo-EM. <i>Microscopy and Microanalysis</i> , 2017, 23, 1190-1191.	0.4	0

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73	Sequence-Signature Optimization Enables Improved Identification of Human HV6-1-Derived Class Antibodies That Neutralize Diverse Influenza A Viruses. <i>Frontiers in Immunology</i> , 2021, 12, 662909.	4.8	0