

Jiang Zhu

List of Publications by Citations

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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.

52
papers

5,266
citations

32
h-index

57
g-index

57
ext. papers

6,226
ext. citations

14.2
avg, IF

4.75
L-index

#	Paper	IF	Citations
52	Structural basis for broad and potent neutralization of HIV-1 by antibody VRC01. <i>Science</i> , 2010 , 329, 811-7	33.3	871
51	Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. <i>Nature</i> , 2013 , 496, 469-76	50.4	759
50	Focused evolution of HIV-1 neutralizing antibodies revealed by structures and deep sequencing. <i>Science</i> , 2011 , 333, 1593-602	33.3	688
49	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. <i>Nature</i> , 2011 , 480, 336-43	50.4	682
48	Multidonor analysis reveals structural elements, genetic determinants, and maturation pathway for HIV-1 neutralization by VRC01-class antibodies. <i>Immunity</i> , 2013 , 39, 245-58	32.3	254
47	Infection with MERS-CoV causes lethal pneumonia in the common marmoset. <i>PLoS Pathogens</i> , 2014 , 10, e1004250	7.6	170
46	Host species restriction of Middle East respiratory syndrome coronavirus through its receptor, dipeptidyl peptidase 4. <i>Journal of Virology</i> , 2014 , 88, 9220-32	6.6	167
45	Mining the antibodyome for HIV-1-neutralizing antibodies with next-generation sequencing and phylogenetic pairing of heavy/light chains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6470-5	11.5	119
44	Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. <i>Nature Communications</i> , 2016 , 7, 12041	17.4	101
43	A Prominent Site of Antibody Vulnerability on HIV Envelope Incorporates a Motif Associated with CCR5 Binding and Its Camouflaging Glycans. <i>Immunity</i> , 2016 , 45, 31-45	32.3	97
42	Autocrine selection of a GLP-1R G-protein biased agonist with potent antidiabetic effects. <i>Nature Communications</i> , 2015 , 6, 8918	17.4	90
41	Uncleaved prefusion-optimized gp140 trimers derived from analysis of HIV-1 envelope metastability. <i>Nature Communications</i> , 2016 , 7, 12040	17.4	86
40	De novo identification of VRC01 class HIV-1-neutralizing antibodies by next-generation sequencing of B-cell transcripts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4088-97	11.5	80
39	Comparative study of generalized born models: Born radii and peptide folding. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3008-22	3.4	78
38	Toward a more accurate view of human B-cell repertoire by next-generation sequencing, unbiased repertoire capture and single-molecule barcoding. <i>Scientific Reports</i> , 2014 , 4, 6778	4.9	70
37	Refining homology models by combining replica-exchange molecular dynamics and statistical potentials. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 1171-88	4.2	65
36	Key gp120 Glycans Pose Roadblocks to the Rapid Development of VRC01-Class Antibodies in an HIV-1-Infected Chinese Donor. <i>Immunity</i> , 2016 , 44, 939-50	32.3	62

35	Somatic Populations of PGT135-137 HIV-1-Neutralizing Antibodies Identified by 454 Pyrosequencing and Bioinformatics. <i>Frontiers in Microbiology</i> , 2012 , 3, 315	5.7	53
34	Regulation of B-cell development and tolerance by different members of the miR-17~92 family microRNAs. <i>Nature Communications</i> , 2016 , 7, 12207	17.4	50
33	Computational tools for epitope vaccine design and evaluation. <i>Current Opinion in Virology</i> , 2015 , 11, 103-12	7.5	46
32	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
31	Transplanting supersites of HIV-1 vulnerability. <i>PLoS ONE</i> , 2014 , 9, e99881	3.7	45
30	HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018 , 4, eaau6769	14.3	43
29	Structural model of the TRPP2/PKD1 C-terminal coiled-coil complex produced by a combined computational and experimental approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10133-8	11.5	41
28	Approaching rational epitope vaccine design for hepatitis C virus with meta-server and multivalent scaffolding. <i>Scientific Reports</i> , 2015 , 5, 12501	4.9	40
27	Building and refining protein models within cryo-electron microscopy density maps based on homology modeling and multiscale structure refinement. <i>Journal of Molecular Biology</i> , 2010 , 397, 835-51	6.5	35
26	Clonify: unseeded antibody lineage assignment from next-generation sequencing data. <i>Scientific Reports</i> , 2016 , 6, 23901	4.9	35
25	Structural refinement of protein segments containing secondary structure elements: Local sampling, knowledge-based potentials, and clustering. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 65, 463-79	4.2	33
24	Rational Design of DNA-Expressed Stabilized Native-Like HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2018 , 24, 3324-3338.e5	10.6	33
23	Outer domain of HIV-1 gp120: antigenic optimization, structural malleability, and crystal structure with antibody VRC-PG04. <i>Journal of Virology</i> , 2013 , 87, 2294-306	6.6	32
22	Prevention of cell death by antibodies selected from intracellular combinatorial libraries. <i>Chemistry and Biology</i> , 2014 , 21, 274-83		32
21	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
20	High-Resolution Longitudinal Study of HIV-1 Env Vaccine-Elicited B Cell Responses to the Virus Primary Receptor Binding Site Reveals Affinity Maturation and Clonal Persistence. <i>Journal of Immunology</i> , 2016 , 196, 3729-43	5.3	24
19	Proof of concept for rational design of hepatitis C virus E2 core nanoparticle vaccines. <i>Science Advances</i> , 2020 , 6, eaaz6225	14.3	23
18	An MPER antibody neutralizes HIV-1 using germline features shared among donors. <i>Nature Communications</i> , 2019 , 10, 5389	17.4	23

17	Differential Antibody Responses to Conserved HIV-1 Neutralizing Epitopes in the Context of Multivalent Scaffolds and Native-Like gp140 Trimers. <i>MBio</i> , 2017 , 8,	7.8	22
16	Rhesus Macaque B-Cell Responses to an HIV-1 Trimer Vaccine Revealed by Unbiased Longitudinal Repertoire Analysis. <i>MBio</i> , 2015 , 6, e01375-15	7.8	21
15	Active evolution of memory B-cells specific to viral gH/gL/pUL128/130/131 pentameric complex in healthy subjects with silent human cytomegalovirus infection. <i>Oncotarget</i> , 2017 , 8, 73654-73669	3.3	19
14	Antibody Responses to Immunization With HCV Envelope Glycoproteins as a Baseline for B-Cell-Based Vaccine Development. <i>Gastroenterology</i> , 2020 , 158, 1058-1071.e6	13.3	18
13	Hidden Lineage Complexity of Glycan-Dependent HIV-1 Broadly Neutralizing Antibodies Uncovered by Digital Panning and Native-Like gp140 Trimer. <i>Frontiers in Immunology</i> , 2017 , 8, 1025	8.4	14
12	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
11	Single-component, self-assembling, protein nanoparticles presenting the receptor binding domain and stabilized spike as SARS-CoV-2 vaccine candidates 2021 ,		8
10	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
9	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
8	Development of a Potent and Protective Germline-Like Antibody Lineage Against Zika Virus in a Convalescent Human. <i>Frontiers in Immunology</i> , 2019 , 10, 2424	8.4	7
7	Mechanism of a COVID-19 nanoparticle vaccine candidate that elicits a broadly neutralizing antibody response to SARS-CoV-2 variants. <i>Science Advances</i> , 2021 , 7, eabj3107	14.3	7
6	Quantitative evaluation of protective antibody response induced by hepatitis E vaccine in humans. <i>Nature Communications</i> , 2020 , 11, 3971	17.4	6
5	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
4	Mechanism of a COVID-19 nanoparticle vaccine candidate that elicits a broadly neutralizing antibody response to SARS-CoV-2 variants 2021 ,		3
3	Identification of a novel broadly HIV-1-neutralizing antibody from a CRF01_AE-infected Chinese donor. <i>Emerging Microbes and Infections</i> , 2018 , 7, 174	18.9	3
2	Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines		2
1	Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles. <i>MBio</i> , 2021 , 12, e0042921	7.8	1