

Gwo-Yu Chuang

List of Publications by Year in descending order

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44
papers

6,983
citations

147801
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254184
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all docs

45
docs citations

45
times ranked

5799
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Based Design of a Fusion Glycoprotein Vaccine for Respiratory Syncytial Virus. <i>Science</i> , 2013, 342, 592-598.	12.6	797
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	Trimeric HIV-1-Env Structures Define Glycan Shields from Clades A, B, and G. <i>Cell</i> , 2016, 165, 813-826.	28.9	379
5	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
6	Multidonor Analysis Reveals Structural Elements, Genetic Determinants, and Maturation Pathway for HIV-1 Neutralization by VRC01-Class Antibodies. <i>Immunity</i> , 2013, 39, 245-258.	14.3	332
7	Fusion peptide of HIV-1 as a site of vulnerability to neutralizing antibody. <i>Science</i> , 2016, 352, 828-833.	12.6	310
8	Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. <i>Cell</i> , 2016, 165, 449-463.	28.9	305
9	Identification of a CD4-Binding-Site Antibody to HIV that Evolved Near-Pan Neutralization Breadth. <i>Immunity</i> , 2016, 45, 1108-1121.	14.3	304
10	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
11	Enhanced Potency of a Broadly Neutralizing HIV-1 Antibody <i>In Vitro</i> Improves Protection against Lentiviral Infection <i>In Vivo</i> . <i>Journal of Virology</i> , 2014, 88, 12669-12682.	3.4	248
12	Maturation and Diversity of the VRC01-Antibody Lineage over 15 Years of Chronic HIV-1 Infection. <i>Cell</i> , 2015, 161, 470-485.	28.9	226
13	Delineating Antibody Recognition in Polyclonal Sera from Patterns of HIV-1 Isolate Neutralization. <i>Science</i> , 2013, 340, 751-756.	12.6	213
14	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
15	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
16	DeepSol: a deep learning framework for sequence-based protein solubility prediction. <i>Bioinformatics</i> , 2018, 34, 2605-2613.	4.1	140
17	Crystal structures of trimeric HIV envelope with entry inhibitors BMS-378806 and BMS-626529. <i>Nature Chemical Biology</i> , 2017, 13, 1115-1122.	8.0	110
18	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , 2019, 178, 567-584.e19.	28.9	106

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19	Quaternary contact in the initial interaction of CD4 with the HIV-1 envelope trimer. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 370-378.	8.2	94
20	A Universal Approach to Optimize the Folding and Stability of Prefusion-Closed HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2018, 23, 584-595.	6.4	93
21	PaRSnIP: sequence-based protein solubility prediction using gradient boosting machine. <i>Bioinformatics</i> , 2018, 34, 1092-1098.	4.1	90
22	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
23	Soluble Prefusion Closed DS-SOSIP.664-Env Trimers of Diverse HIV-1 Strains. <i>Cell Reports</i> , 2017, 21, 2992-3002.	6.4	69
24	Structural Survey of Broadly Neutralizing Antibodies Targeting the HIV-1 Env Trimer Delineates Epitope Categories and Characteristics of Recognition. <i>Structure</i> , 2019, 27, 196-206.e6.	3.3	69
25	A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. <i>Immunity</i> , 2018, 48, 500-513.e6.	14.3	66
26	Residue-Level Prediction of HIV-1 Antibody Epitopes Based on Neutralization of Diverse Viral Strains. <i>Journal of Virology</i> , 2013, 87, 10047-10058.	3.4	64
27	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
28	Surface-Matrix Screening Identifies Semi-specific Interactions that Improve Potency of a Near Pan-reactive HIV-1-Neutralizing Antibody. <i>Cell Reports</i> , 2018, 22, 1798-1809.	6.4	52
29	Lattice engineering enables definition of molecular features allowing for potent small-molecule inhibition of HIV-1 entry. <i>Nature Communications</i> , 2019, 10, 47.	12.8	50
30	Recapitulation of HIV-1 Env-antibody coevolution in macaques leading to neutralization breadth. <i>Science</i> , 2021, 371, .	12.6	49
31	Consistent elicitation of cross-clade HIV-neutralizing responses achieved in guinea pigs after fusion peptide priming by repetitive envelope trimer boosting. <i>PLoS ONE</i> , 2019, 14, e0215163.	2.5	41
32	Automated Design by Structure-Based Stabilization and Consensus Repair to Achieve Prefusion-Closed Envelope Trimers in a Wide Variety of HIV Strains. <i>Cell Reports</i> , 2020, 33, 108432.	6.4	32
33	Accurate Prediction for Antibody Resistance of Clinical HIV-1 Isolates. <i>Scientific Reports</i> , 2019, 9, 14696.	3.3	30
34	Improvement of antibody functionality by structure-guided paratope engraftment. <i>Nature Communications</i> , 2019, 10, 721.	12.8	27
35	VRC34-Antibody Lineage Development Reveals How a Required Rare Mutation Shapes the Maturation of a Broad HIV-Neutralizing Lineage. <i>Cell Host and Microbe</i> , 2020, 27, 531-543.e6.	11.0	23
36	Mutational fitness landscapes reveal genetic and structural improvement pathways for a vaccine-elicited HIV-1 broadly neutralizing antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21

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37	Immune Monitoring Reveals Fusion Peptide Priming to Imprint Cross-Clade HIV-Neutralizing Responses with a Characteristic Early B Cell Signature. <i>Cell Reports</i> , 2020, 32, 107981.	6.4	15
38	Isolation and Structure of an Antibody that Fully Neutralizes Isolate SIVmac239 Reveals Functional Similarity of SIV and HIV Glycan Shields. <i>Immunity</i> , 2019, 51, 724-734.e4.	14.3	13
39	Blocking $\alpha 4 \beta 7$ integrin delays viral rebound in SHIV SF162P3-infected macaques treated with anti-HIV broadly neutralizing antibodies. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	11
40	Structural basis of glycan-dependent recognition by HIV-1 broadly neutralizing antibodies. <i>Cell Reports</i> , 2021, 37, 109922.	6.4	5
41	CRISPro: An Automated Pipeline for Protein Conformation Stabilization by Proline. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 2189-2192.	5.4	4
42	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
43	GLYCO: a tool to quantify glycan shielding of glycosylated proteins. <i>Bioinformatics</i> , 2022, 38, 1152-1154.	4.1	2
44	3-Symmetric Aromatic Core of Griffithsin Is Essential for Potent Anti-HIV Activity. <i>ACS Chemical Biology</i> , 2022, 17, 1450-1459.	3.4	1