M Alejandra Tortorici

List of Publications by Year
in descending order

45 papers	21,038 citations	109137 35 h-index	243296 44 g-index
57 all docs	57 docs citations	57 times ranked	27788 citing authors

#	Article	IF	Citations
1	Structure, receptor recognition, and antigenicity of the human coronavirus CCoV-HuPn-2018 spike glycoprotein. Cell, 2022, 185, 2279-2291.e17.	13.5	25
2	ACE2-binding exposes the SARS-CoV-2 fusion peptide to broadly neutralizing coronavirus antibodies. Science, 2022, 377, 735-742.	6.0	85
3	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. Nature, 2021, 593, 136-141.	13.7	648
4	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2. Cell, 2021, 184, 2332-2347.e16.	13.5	784
5	Structural basis for broad coronavirus neutralization. Nature Structural and Molecular Biology, 2021, 28, 478-486.	3.6	152
6	SARS-CoV-2 immune evasion by the B.1.427/B.1.429 variant of concern. Science, 2021, 373, 648-654.	6.0	385
7	Broad sarbecovirus neutralization by a human monoclonal antibody. Nature, 2021, 597, 103-108.	13.7	220
8	SARS-CoV-2 RBD antibodies that maximize breadth and resistance to escape. Nature, 2021, 597, 97-102.	13.7	385
9	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. Cell, 2021, 184, 5432-5447.e16.	13.5	131
10	Broad betacoronavirus neutralization by a stem helixâ€"specific human antibody. Science, 2021, 373, 1109-1116.	6.0	262
11	Mapping Neutralizing and Immunodominant Sites on the SARS-CoV-2 Spike Receptor-Binding Domain by Structure-Guided High-Resolution Serology. Cell, 2020, 183, 1024-1042.e21.	13.5	1,195
12	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. Cell, 2020, 182, 1295-1310.e20.	13.5	1,726
13	Ultrapotent human antibodies protect against SARS-CoV-2 challenge via multiple mechanisms. Science, 2020, 370, 950-957.	6.0	504
14	Protocol and Reagents for Pseudotyping Lentiviral Particles with SARS-CoV-2 Spike Protein for Neutralization Assays. Viruses, 2020, 12, 513.	1.5	641
15	Cross-neutralization of SARS-CoV-2 by a human monoclonal SARS-CoV antibody. Nature, 2020, 583, 290-295.	13.7	1,695
16	Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein. Cell, 2020, 181, 281-292.e6.	13.5	6,979
17	Structural Studies of Coronavirus Fusion Proteins. Microscopy and Microanalysis, 2019, 25, 1300-1301.	0.2	4
18	Structural insights into coronavirus entry. Advances in Virus Research, 2019, 105, 93-116.	0.9	669

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19	Unexpected Receptor Functional Mimicry Elucidates Activation of Coronavirus Fusion. Cell, 2019, 176, 1026-1039.e15.	13.5	558
20	Structural basis for human coronavirus attachment to sialic acid receptors. Nature Structural and Molecular Biology, 2019, 26, 481-489.	3.6	475
21	Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. Nature Structural and Molecular Biology, 2019, 26, 1151-1157.	3.6	218
22	Glycan Shield and Fusion Activation of a Deltacoronavirus Spike Glycoprotein Fine-Tuned for Enteric Infections. Journal of Virology, 2018, 92, .	1.5	124
23	The Ancient Gamete Fusogen HAP2 Is a Eukaryotic Class II Fusion Protein. Cell, 2017, 168, 904-915.e10.	13.5	151
24	A glycerophospholipid-specific pocket in the RVFV class II fusion protein drives target membrane insertion. Science, 2017, 358, 663-667.	6.0	66
25	Tectonic conformational changes of a coronavirus spike glycoprotein promote membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11157-11162.	3.3	501
26	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8508-E8517.	3.3	272
27	Crucial steps in the structure determination of a coronavirus spike glycoprotein using cryoâ€electron microscopy. Protein Science, 2017, 26, 113-121.	3.1	31
28	A positive-strand RNA virus uses alternative protein-protein interactions within a viral protease/cofactor complex to switch between RNA replication and virion morphogenesis. PLoS Pathogens, 2017, 13, e1006134.	2.1	21
29	Glycan shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. Nature Structural and Molecular Biology, 2016, 23, 899-905.	3.6	366
30	Cryo-electron microscopy structure of a coronavirus spike glycoprotein trimer. Nature, 2016, 531, 114-117.	13.7	453
31	Mechanistic Insight into Bunyavirus-Induced Membrane Fusion from Structure-Function Analyses of the Hantavirus Envelope Glycoprotein Gc. PLoS Pathogens, 2016, 12, e1005813.	2.1	66
32	X-Ray Structure of the Pestivirus NS3 Helicase and Its Conformation in Solution. Journal of Virology, 2015, 89, 4356-4371.	1.5	11
33	A Druggable Pocket at the Nucleocapsid/Phosphoprotein Interaction Site of Human Respiratory Syncytial Virus. Journal of Virology, 2015, 89, 11129-11143.	1.5	56
34	Functional and evolutionary insight from the crystal structure of rubella virus protein E1. Nature, 2013, 493, 552-556.	13.7	91
35	Autocatalytic Cleavage within Classical Swine Fever Virus NS3 Leads to a Functional Separation of Protease and Helicase. Journal of Virology, 2013, 87, 11872-11883.	1.5	31
36	Expression and Purification of Z Protein from JunÃn Virus. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-14.	3.0	4

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37	Mechanism for Coordinated RNA Packaging and Genome Replication by Rotavirus Polymerase VP1. Structure, 2008, 16, 1678-1688.	1.6	148
38	Coupling of Rotavirus Genome Replication and Capsid Assembly. Advances in Virus Research, 2006, 69, 167-201.	0.9	41
39	Rotavirus Genome Replication and Morphogenesis: Role of the Viroplasm. , 2006, 309, 169-187.		96
40	A base-specific recognition signal in the 5' consensus sequence of rotavirus plus-strand RNAs promotes replication of the double-stranded RNA genome segments. Rna, 2006, 12, 133-146.	1.6	45
41	Rotavirus Glycoprotein NSP4 Is a Modulator of Viral Transcription in the Infected Cell. Journal of Virology, 2005, 79, 15165-15174.	1.5	42
42	Cell-line-induced mutation of the rotavirus genome alters expression of an IRF3-interacting protein. EMBO Journal, 2004, 23, 4072-4081.	3.5	17
43	Rotavirus NSP2 interferes with the core lattice protein VP2 in initiation of minus-strand synthesis. Virology, 2003, 313, 261-273.	1.1	12
44	Template Recognition and Formation of Initiation Complexes by the Replicase of a Segmented Double-stranded RNA Virus. Journal of Biological Chemistry, 2003, 278, 32673-32682.	1.6	61
45	Arenavirus nucleocapsid protein displays a transcriptional antitermination activity in vivo. Virus Research, 2001, 73, 41-55.	1.1	49