

M Alejandra Tortorici

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.

55 papers	12,988 citations	36 h-index	57 g-index
57 ext. papers	17,664 ext. citations	24.8 avg, IF	7.45 L-index

#	Paper	IF	Citations
55	Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein. <i>Cell</i> , 2020 , 181, 281-292.e6	56.2	4571
54	Cross-neutralization of SARS-CoV-2 by a human monoclonal SARS-CoV antibody. <i>Nature</i> , 2020 , 583, 290-295.	39.4	1028
53	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. <i>Cell</i> , 2020 , 182, 1295-1310.e20	56.2	935
52	Mapping Neutralizing and Immunodominant Sites on the SARS-CoV-2 Spike Receptor-Binding Domain by Structure-Guided High-Resolution Serology. <i>Cell</i> , 2020 , 183, 1024-1042.e21	56.2	601
51	Structural insights into coronavirus entry. <i>Advances in Virus Research</i> , 2019 , 105, 93-116	10.7	479
50	Unexpected Receptor Functional Mimicry Elucidates Activation of Coronavirus Fusion. <i>Cell</i> , 2019 , 176, 1026-1039.e15	56.2	416
49	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2. <i>Cell</i> , 2021 , 184, 2332-2347.e16	56.2	316
48	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. <i>Nature</i> , 2021 , 593, 136-141	50.4	376
47	Protocol and Reagents for Pseudotyping Lentiviral Particles with SARS-CoV-2 Spike Protein for Neutralization Assays. <i>Viruses</i> , 2020 , 12,	6.2	360
46	Cryo-electron microscopy structure of a coronavirus spike glycoprotein trimer. <i>Nature</i> , 2016 , 531, 114-117.	50.4	354
45	Tectonic conformational changes of a coronavirus spike glycoprotein promote membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11157-11162	11.5	351
44	Structural basis for human coronavirus attachment to sialic acid receptors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 481-489	17.6	341
43	Ultrapotent human antibodies protect against SARS-CoV-2 challenge via multiple mechanisms. <i>Science</i> , 2020 , 370, 950-957	33.3	314
42	Glycan shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 899-905	17.6	252
41	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8508-E8517	11.5	216
40	SARS-CoV-2 immune evasion by the B.1.427/B.1.429 variant of concern. <i>Science</i> , 2021 , 373, 648-654	33.3	197
39	Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 1151-1157	17.6	161

38	Mechanism for coordinated RNA packaging and genome replication by rotavirus polymerase VP1. <i>Structure</i> , 2008 , 16, 1678-88	5.2	130
37	SARS-CoV-2 RBD antibodies that maximize breadth and resistance to escape. <i>Nature</i> , 2021 , 597, 97-102	50.4	118
36	The Ancient Gamete Fusogen HAP2 Is a Eukaryotic Class II Fusion Protein. <i>Cell</i> , 2017 , 168, 904-915.e10	56.2	109
35	Broad sarbecovirus neutralization by a human monoclonal antibody. <i>Nature</i> , 2021 , 597, 103-108	50.4	94
34	Glycan Shield and Fusion Activation of a Deltacoronavirus Spike Glycoprotein Fine-Tuned for Enteric Infections. <i>Journal of Virology</i> , 2018 , 92,	6.6	92
33	Broad betacoronavirus neutralization by a stem helix-specific human antibody. <i>Science</i> , 2021 , 373, 1109-1116	33.6	80
32	Rotavirus genome replication and morphogenesis: role of the viroplasm. <i>Current Topics in Microbiology and Immunology</i> , 2006 , 309, 169-87	3.3	79
31	Functional and evolutionary insight from the crystal structure of rubella virus protein E1. <i>Nature</i> , 2013 , 493, 552-6	50.4	69
30	SARS-CoV-2 B.1.1.7 sensitivity to mRNA vaccine-elicited, convalescent and monoclonal antibodies 2021 ,		69
29	Structural basis for broad coronavirus neutralization. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 478-486	17.6	65
28	SARS-CoV-2 immune evasion by variant B.1.427/B.1.429 2021 ,		62
27	Template recognition and formation of initiation complexes by the replicase of a segmented double-stranded RNA virus. <i>Journal of Biological Chemistry</i> , 2003 , 278, 32673-82	5.4	51
26	Arenavirus nucleocapsid protein displays a transcriptional antitermination activity in vivo. <i>Virus Research</i> , 2001 , 73, 41-55	6.4	46
25	Protocol and reagents for pseudotyping lentiviral particles with SARS-CoV-2 Spike protein for neutralization assays		45
24	Mechanistic Insight into Bunyavirus-Induced Membrane Fusion from Structure-Function Analyses of the Hantavirus Envelope Glycoprotein Gc. <i>PLoS Pathogens</i> , 2016 , 12, e1005813	7.6	43
23	Structural and functional analysis of a potent sarbecovirus neutralizing antibody 2020 ,		42
22	A base-specific recognition signal in the 5a consensus sequence of rotavirus plus-strand RNAs promotes replication of the double-stranded RNA genome segments. <i>Rna</i> , 2006 , 12, 133-46	5.8	38
21	Coupling of rotavirus genome replication and capsid assembly. <i>Advances in Virus Research</i> , 2007 , 69, 167-201	10.7	37

20	Rotavirus glycoprotein NSP4 is a modulator of viral transcription in the infected cell. <i>Journal of Virology</i> , 2005 , 79, 15165-74	6.6	37
19	A glycerophospholipid-specific pocket in the RVFV class II fusion protein drives target membrane insertion. <i>Science</i> , 2017 , 358, 663-667	33.3	35
18	A Druggable Pocket at the Nucleocapsid/Phosphoprotein Interaction Site of Human Respiratory Syncytial Virus. <i>Journal of Virology</i> , 2015 , 89, 11129-43	6.6	35
17	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2 2021 ,		34
16	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021 , 184, 5432-5447.e16	56.2	34
15	Deep mutational scanning of SARS-CoV-2 receptor binding domain reveals constraints on folding and ACE2 binding 2020 ,		33
14	Autocatalytic cleavage within classical swine fever virus NS3 leads to a functional separation of protease and helicase. <i>Journal of Virology</i> , 2013 , 87, 11872-83	6.6	30
13	Crucial steps in the structure determination of a coronavirus spike glycoprotein using cryo-electron microscopy. <i>Protein Science</i> , 2017 , 26, 113-121	6.3	28
12	A positive-strand RNA virus uses alternative protein-protein interactions within a viral protease/cofactor complex to switch between RNA replication and virion morphogenesis. <i>PLoS Pathogens</i> , 2017 , 13, e1006134	7.6	15
11	Cell-line-induced mutation of the rotavirus genome alters expression of an IRF3-interacting protein. <i>EMBO Journal</i> , 2004 , 23, 4072-81	13	15
10	Structural basis for broad sarbecovirus neutralization by a human monoclonal antibody 2021 ,		14
9	A human antibody that broadly neutralizes betacoronaviruses protects against SARS-CoV-2 by blocking the fusion machinery		13
8	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines 2021 ,		12
7	Rotavirus NSP2 interferes with the core lattice protein VP2 in initiation of minus-strand synthesis. <i>Virology</i> , 2003 , 313, 261-73	3.6	10
6	X-ray structure of the pestivirus NS3 helicase and its conformation in solution. <i>Journal of Virology</i> , 2015 , 89, 4356-71	6.6	8
5	SARS-CoV-2 spike conformation determines plasma neutralizing activity. 2021 ,		6
4	Expression and purification of Z protein from JunB virus. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 970491		4
3	Structural Studies of Coronavirus Fusion Proteins. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1300-1301	0.5	3

- 2 ACE2 engagement exposes the fusion peptide to pan-coronavirus neutralizing antibodies 3
- 1 Structure, receptor recognition and antigenicity of the human coronavirus CCoV-HuPn-2018 spike glycoprotein2