Thomas A Bowden

List of Publications by Citations

85 papers	4,982 citations	35 h-index	70 g-index
94 ext. papers	6,526 ext. citations	11.7 avg, IF	5.7 L-index

#	Paper	IF	Citations
85	Zika virus in the Americas: Early epidemiological and genetic findings. *Science*, **2016**, 352, 345-349	33.3	703
84	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. *Science*, **2021**, 372, 815-821	33.3	603
83	Case Study: Prolonged Infectious SARS-CoV-2 Shedding from an Asymptomatic Immunocompromised Individual with Cancer. *Cell*, **2020**, 183, 1901-1912.e9	56.2	344
82	Antibody evasion by the P.1 strain of SARS-CoV-2. *Cell*, **2021**, 184, 2939-2954.e9	56.2	281
81	Exploitation of glycosylation in enveloped virus pathobiology. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 1480-1497	4	228
80	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. *Nature Communications*, **2020**, 11, 2688	17.4	174
79	Toremifene interacts with and destabilizes the Ebola virus glycoprotein. *Nature*, **2016**, 535, 169-172	50.4	168
78	Structural basis of Nipah and Hendra virus attachment to their cell-surface receptor ephrin-B2. *Nature Structural and Molecular Biology*, **2008**, 15, 567-72	17.6	150
77	Evidence for henipavirus spillover into human populations in Africa. *Nature Communications*, **2014**, 5, 5342	17.4	102
76	Glycan clustering stabilizes the mannose patch of HIV-1 and preserves vulnerability to broadly neutralizing antibodies. *Nature Communications*, **2015**, 6, 7479	17.4	97
75	Arenavirus Glycan Shield Promotes Neutralizing Antibody Evasion and Protracted Infection. *PLoS Pathogens*, **2015**, 11, e1005276	7.6	96
74	Identification of Common Deletions in the Spike Protein of Severe Acute Respiratory Syndrome Coronavirus 2. *Journal of Virology*, **2020**, 94,	6.6	89
73	Crystal structure and carbohydrate analysis of Nipah virus attachment glycoprotein: a template for antiviral and vaccine design. *Journal of Virology*, **2008**, 82, 11628-36	6.6	89
72	Dimeric architecture of the Hendra virus attachment glycoprotein: evidence for a conserved mode of assembly. *Journal of Virology*, **2010**, 84, 6208-17	6.6	75
71	Crystal structure of sialylated IgG Fc: implications for the mechanism of intravenous immunoglobulin therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E3544-6	11.5	73
70	Structural plasticity of eph receptor A4 facilitates cross-class ephrin signaling. *Structure*, **2009**, 17, 1386-97	5.2	73
69	Engineering hydrophobic protein-carbohydrate interactions to fine-tune monoclonal antibodies. *Journal of the American Chemical Society*, **2013**, 135, 9723-32	16.4	71

68	Acidic pH-Induced Conformations and LAMP1 Binding of the Lassa Virus Glycoprotein Spike. *PLoS Pathogens*, **2016**, 12, e1005418	7.6	70
67	Evolutionary and molecular analysis of the emergent severe fever with thrombocytopenia syndrome virus. *Epidemics*, **2013**, 5, 1-10	5.1	65
66	Unusual molecular architecture of the machupo virus attachment glycoprotein. *Journal of Virology*, **2009**, 83, 8259-65	6.6	63
65	Carbohydrate and domain architecture of an immature antibody glycoform exhibiting enhanced effector functions. *Journal of Molecular Biology*, **2009**, 387, 1061-6	6.5	63
64	Chemical and structural analysis of an antibody folding intermediate trapped during glycan biosynthesis. *Journal of the American Chemical Society*, **2012**, 134, 17554-63	16.4	62
63	Structure of the Lassa virus glycan shield provides a model for immunological resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7320-7325	11.5	62
62	Neutralization potency of monoclonal antibodies recognizing dominant and subdominant epitopes on SARS-CoV-2 Spike is impacted by the B.1.1.7 variant. *Immunity*, **2021**, 54, 1276-1289.e6	32.3	60
61	Genome-wide evolutionary dynamics of influenza B viruses on a global scale. *PLoS Pathogens*, **2017**, 13, e1006749	7.6	55
60	Structure of a phleboviral envelope glycoprotein reveals a consolidated model of membrane fusion. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7154-9	11.5	54
59	Genomics and epidemiology of a novel SARS-CoV-2 lineage in Manaus, Brazil **2021**,		53
58	The Evolution and Transmission of Epidemic GII.17 Noroviruses. *Journal of Infectious Diseases*, **2016**, 214, 556-64	7	50
57	Shielding and activation of a viral membrane fusion protein. *Nature Communications*, **2018**, 9, 349	17.4	48
56	Selective deactivation of serum IgG: a general strategy for the enhancement of monoclonal antibody receptor interactions. *Journal of Molecular Biology*, **2012**, 420, 1-7	6.5	47
55	Orthobunyavirus ultrastructure and the curious tripodal glycoprotein spike. *PLoS Pathogens*, **2013**, 9, e1003374	7.6	45
54	A Molecular-Level Account of the Antigenic Hantaviral Surface. *Cell Reports*, **2016**, 15, 959-967	10.6	39
53	Hydrothermal syntheses and crystal structures of three zinc succinates: Zn(C4H4O4)-□ Zn(C4H4O4)-□and K2Zn(C4H4O4)2. *Dalton Transactions*, **2003**, 936-939	4.3	37
52	Molecular recognition of human ephrinB2 cell surface receptor by an emergent African henipavirus. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2156-65	11.5	36
51	Immune recruitment or suppression by glycan engineering of endogenous and therapeutic antibodies. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 1655-68	4	35

50	Rift Valley fever: biology and epidemiology. *Journal of General Virology*, **2019**, 100, 1187-1199	4.9	32
49	Timing of galectin-1 exposure differentially modulates Nipah virus entry and syncytium formation in endothelial cells. *Journal of Virology*, **2015**, 89, 2520-9	6.6	31
48	A Protective Monoclonal Antibody Targets a Site of Vulnerability on the Surface of Rift Valley Fever Virus. *Cell Reports*, **2018**, 25, 3750-3758.e4	10.6	29
47	Shared paramyxoviral glycoprotein architecture is adapted for diverse attachment strategies. *Biochemical Society Transactions*, **2010**, 38, 1349-55	5.1	28
46	Structural Transitions of the Conserved and Metastable Hantaviral Glycoprotein Envelope. *Journal of Virology*, **2017**, 91,	6.6	27
45	Cells under siege: viral glycoprotein interactions at the cell surface. *Journal of Structural Biology*, **2011**, 175, 120-6	3.4	27
44	Emerging Paramyxoviruses: Receptor Tropism and Zoonotic Potential. *PLoS Pathogens*, **2016**, 12, e1005390	7.4	26
43	A structural basis for antibody-mediated neutralization of Nipah virus reveals a site of vulnerability at the fusion glycoprotein apex. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 25057-25067	11.5	25
42	A single-dose ChAdOx1-vectored vaccine provides complete protection against Nipah Bangladesh and Malaysia in Syrian golden hamsters. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007462	4.8	24
41	Idiosyncratic M□□g virus attachment glycoprotein directs a host-cell entry pathway distinct from genetically related henipaviruses. *Nature Communications*, **2017**, 8, 16060	17.4	24
40	Crystal structure of Venezuelan hemorrhagic fever virus fusion glycoprotein reveals a class 1 postfusion architecture with extensive glycosylation. *Journal of Virology*, **2013**, 87, 13070-5	6.6	24
39	A dynamic three-step mechanism drives the HIV-1 pre-fusion reaction. *Nature Structural and Molecular Biology*, **2018**, 25, 814-822	17.6	23
38	Structural plasticity of the Semliki Forest virus glycome upon interspecies transmission. *Journal of Proteome Research*, **2014**, 13, 1702-12	5.6	23
37	Convergent immunological solutions to Argentine hemorrhagic fever virus neutralization. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 7031-7036	11.5	23
36	A naturally protective epitope of limited variability as□n influenza vaccine target. *Nature Communications*, **2018**, 9, 3859	17.4	23
35	Uukuniemi Phlebovirus assembly and secretion leave a functional imprint on the virion glycome. *Journal of Virology*, **2014**, 88, 10244-51	6.6	22
34	Averaging of viral envelope glycoprotein spikes from electron cryotomography reconstructions using Jsubtomo. *Journal of Visualized Experiments*, **2014**, e51714	1.6	21
33	Development of a Cost-effective Ovine Polyclonal Antibody-Based Product, EBOTAb, to Treat Ebola Virus Infection. *Journal of Infectious Diseases*, **2016**, 213, 1124-33	7	20

32	Overcoming Symmetry Mismatch in Vaccine Nanoassembly through Spontaneous Amidation. *Angewandte Chemie - International Edition*, **2021**, 60, 321-330	16.4	17
31	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation		13
30	Unraveling virus relationships by structure-based phylogenetic classification. *Virus Evolution*, **2020**, 6, veaa003	3.7	12
29	Native functionality and therapeutic targeting of arenaviral glycoproteins. *Current Opinion in Virology*, **2016**, 18, 70-5	7.5	11
28	A key region of molecular specificity orchestrates unique ephrin-B1 utilization by Cedar virus. *Life Science Alliance*, **2020**, 3,	5.8	11
27	Determination of N-linked Glycosylation in Viral Glycoproteins by Negative Ion Mass Spectrometry and Ion Mobility. *Methods in Molecular Biology*, **2015**, 1331, 93-121	1.4	9
26	Structure-Based Classification Defines the Discrete Conformational Classes Adopted by the Arenaviral GP1. *Journal of Virology*, **2019**, 93,	6.6	9
25	Parallel evolution in the emergence of highly pathogenic avian influenza A viruses. *Nature Communications*, **2020**, 11, 5511	17.4	8
24	Molecular rationale for antibody-mediated targeting of the hantavirus fusion glycoprotein. *ELife*, **2020**, 9,	8.9	8
23	Recent Advances in Bunyavirus Glycoprotein Research: Precursor Processing, Receptor Binding and Structure. *Viruses*, **2021**, 13,	6.2	8
22	Human antibody pieces together the puzzle of the trimeric Lassa virus surface antigen. *Nature Structural and Molecular Biology*, **2017**, 24, 559-560	17.6	6
21	Naturally Acquired Rift Valley Fever Virus Neutralizing Antibodies Predominantly Target the Gn Glycoprotein. *IScience*, **2020**, 23, 101669	6.1	6
20	Evolutionary Dynamics of Oropouche Virus in South America. *Journal of Virology*, **2020**, 94,	6.6	5
19	Structural Basis for a Neutralizing Antibody Response Elicited by a Recombinant Hantaan Virus Gn Immunogen. *MBio*, **2021**, 12, e0253120	7.8	5
18	Cross-Reactive and Cross-Neutralizing Activity of Human Mumps Antibodies Against a Novel Mumps Virus From Bats. *Journal of Infectious Diseases*, **2017**, 215, 209-213	7	4
17	Using cross-species vaccination approaches to counter emerging infectious diseases. *Nature Reviews Immunology*, **2021**, 21, 815-822	36.5	4
16	A structure-based rationale for sialic acid independent host-cell entry of Sosuga virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21514-21520	11.5	4
15	Characterization of Antigenic MHC-Class-I-Restricted T Cell Epitopes in the Glycoprotein of Ebolavirus. *Cell Reports*, **2019**, 29, 2537-2545.e3	10.6	4

14	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0009004	4.8	3
13	Overcoming Symmetry Mismatch in Vaccine Nanoassembly through Spontaneous Amidation. *Angewandte Chemie*, **2021**, 133, 325-334	3.6	3
12	Identification of site-specific evolutionary trajectories shared across human betacoronaviruses **2021**,		2
11	A key region of molecular specificity orchestrates unique ephrin-B1 utilization by Cedar virus		1
10	The evolutionary dynamics of Oropouche Virus (OROV) in South America		1
9	Insertion of atypical glycans into the tumor antigen-binding site identifies DLBCLs with distinct origin and behavior. *Blood*, **2021**, 138, 1570-1582	2.2	1
8	Contrasting Modes of New World Arenavirus Neutralization by Immunization-Elicited Monoclonal Antibodies.. *MBio*, **2022**, e0265021	7.8	1
7	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover **2020**, 14, e0009004		
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5	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover **2020**, 14, e0009004		
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