

# Thomas A Bowden

## List of Publications by Year in Descending Order

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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.

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	Contrasting Modes of New World Arenavirus Neutralization by Immunization-Elicited Monoclonal Antibodies.. <i>MBio</i> , <b>2022</b> , e0265021	7.8	1
84	Genomics and epidemiology of a novel SARS-CoV-2 lineage in Manaus, Brazil <b>2021</b> ,		53
83	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. <i>Science</i> , <b>2021</b> , 372, 815-821	33.3	603
82	Identification of site-specific evolutionary trajectories shared across human betacoronaviruses <b>2021</b> ,		2
81	Antibody evasion by the P.1 strain of SARS-CoV-2. <i>Cell</i> , <b>2021</b> , 184, 2939-2954.e9	56.2	281
80	Neutralization potency of monoclonal antibodies recognizing dominant and subdominant epitopes on SARS-CoV-2 Spike is impacted by the B.1.1.7 variant. <i>Immunity</i> , <b>2021</b> , 54, 1276-1289.e6	32.3	60
79	Using cross-species vaccination approaches to counter emerging infectious diseases. <i>Nature Reviews Immunology</i> , <b>2021</b> , 21, 815-822	36.5	4
78	Overcoming Symmetry Mismatch in Vaccine Nanoassembly through Spontaneous Amidation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 325-334	3.6	3
77	Overcoming Symmetry Mismatch in Vaccine Nanoassembly through Spontaneous Amidation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 321-330	16.4	17
76	Recent Advances in Bunyavirus Glycoprotein Research: Precursor Processing, Receptor Binding and Structure. <i>Viruses</i> , <b>2021</b> , 13,	6.2	8
75	Insertion of atypical glycans into the tumor antigen-binding site identifies DLBCLs with distinct origin and behavior. <i>Blood</i> , <b>2021</b> , 138, 1570-1582	2.2	1
74	Structural Basis for a Neutralizing Antibody Response Elicited by a Recombinant Hantaan Virus Gn Immunogen. <i>MBio</i> , <b>2021</b> , 12, e0253120	7.8	5
73	Parallel evolution in the emergence of highly pathogenic avian influenza A viruses. <i>Nature Communications</i> , <b>2020</b> , 11, 5511	17.4	8
72	Case Study: Prolonged Infectious SARS-CoV-2 Shedding from an Asymptomatic Immunocompromised Individual with Cancer. <i>Cell</i> , <b>2020</b> , 183, 1901-1912.e9	56.2	344
71	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. <i>Nature Communications</i> , <b>2020</b> , 11, 2688	17.4	174
70	Identification of Common Deletions in the Spike Protein of Severe Acute Respiratory Syndrome Coronavirus 2. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	89
69	Unraveling virus relationships by structure-based phylogenetic classification. <i>Virus Evolution</i> , <b>2020</b> , 6, veaa003	3.7	12

68	Evolutionary Dynamics of Oropouche Virus in South America. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	5
67	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0009004	4.8	3
66	A key region of molecular specificity orchestrates unique ephrin-B1 utilization by Cedar virus. <i>Life Science Alliance</i> , <b>2020</b> , 3,	5.8	11
65	Molecular rationale for antibody-mediated targeting of the hantavirus fusion glycoprotein. <i>ELife</i> , <b>2020</b> , 9,	8.9	8
64	Naturally Acquired Rift Valley Fever Virus Neutralizing Antibodies Predominantly Target the Gn Glycoprotein. <i>IScience</i> , <b>2020</b> , 23, 101669	6.1	6
63	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
62	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
61	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
60	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
59	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
58	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
57	A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover <b>2020</b> , 14, e0009004		
56	Exploitation of glycosylation in enveloped virus pathobiology. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 1480-1497	4	228
55	A single-dose ChAdOx1-vectored vaccine provides complete protection against Nipah Bangladesh and Malaysia in Syrian golden hamsters. <i>PLoS Neglected Tropical Diseases</i> , <b>2019</b> , 13, e0007462	4.8	24
54	Rift Valley fever: biology and epidemiology. <i>Journal of General Virology</i> , <b>2019</b> , 100, 1187-1199	4.9	32
53	A structural basis for antibody-mediated neutralization of Nipah virus reveals a site of vulnerability at the fusion glycoprotein apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 25057-25067	11.5	25
52	A structure-based rationale for sialic acid independent host-cell entry of Sosuga virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21514-21520	11.5	4
51	Characterization of Antigenic MHC-Class-I-Restricted T Cell Epitopes in the Glycoprotein of Ebolavirus. <i>Cell Reports</i> , <b>2019</b> , 29, 2537-2545.e3	10.6	4

50	Structure-Based Classification Defines the Discrete Conformational Classes Adopted by the Arenaviral GP1. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	9
49	Shielding and activation of a viral membrane fusion protein. <i>Nature Communications</i> , <b>2018</b> , 9, 349	17.4	48
48	A dynamic three-step mechanism drives the HIV-1 pre-fusion reaction. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 814-822	17.6	23
47	A Protective Monoclonal Antibody Targets a Site of Vulnerability on the Surface of Rift Valley Fever Virus. <i>Cell Reports</i> , <b>2018</b> , 25, 3750-3758.e4	10.6	29
46	A naturally protective epitope of limited variability as an influenza vaccine target. <i>Nature Communications</i> , <b>2018</b> , 9, 3859	17.4	23
45	Structure of the Lassa virus glycan shield provides a model for immunological resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7320-7325	11.5	62
44	Genome-wide evolutionary dynamics of influenza B viruses on a global scale. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006749	7.6	55
43	Cross-Reactive and Cross-Neutralizing Activity of Human Mumps Antibodies Against a Novel Mumps Virus From Bats. <i>Journal of Infectious Diseases</i> , <b>2017</b> , 215, 209-213	7	4
42	Structural Transitions of the Conserved and Metastable Hantaviral Glycoprotein Envelope. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	27
41	Idiosyncratic Mpox virus attachment glycoprotein directs a host-cell entry pathway distinct from genetically related henipaviruses. <i>Nature Communications</i> , <b>2017</b> , 8, 16060	17.4	24
40	Human antibody pieces together the puzzle of the trimeric Lassa virus surface antigen. <i>Nature Structural and Molecular Biology</i> , <b>2017</b> , 24, 559-560	17.6	6
39	Convergent immunological solutions to Argentine hemorrhagic fever virus neutralization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 7031-7036	11.5	23
38	Structure of a phleboviral envelope glycoprotein reveals a consolidated model of membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7154-9	11.5	54
37	Native functionality and therapeutic targeting of arenaviral glycoproteins. <i>Current Opinion in Virology</i> , <b>2016</b> , 18, 70-5	7.5	11
36	The Evolution and Transmission of Epidemic GII.17 Noroviruses. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 214, 556-64	7	50
35	Toremifene interacts with and destabilizes the Ebola virus glycoprotein. <i>Nature</i> , <b>2016</b> , 535, 169-172	50.4	168
34	Zika virus in the Americas: Early epidemiological and genetic findings. <i>Science</i> , <b>2016</b> , 352, 345-349	33.3	703
33	Development of a Cost-effective Ovine Polyclonal Antibody-Based Product, EBOTAb, to Treat Ebola Virus Infection. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 1124-33	7	20

32	Acidic pH-Induced Conformations and LAMP1 Binding of the Lassa Virus Glycoprotein Spike. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005418	7.6	70
31	Emerging Paramyxoviruses: Receptor Tropism and Zoonotic Potential. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005390	9.0	26
30	A Molecular-Level Account of the Antigenic Hantaviral Surface. <i>Cell Reports</i> , <b>2016</b> , 15, 959-967	10.6	39
29	Immune recruitment or suppression by glycan engineering of endogenous and therapeutic antibodies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 1655-68	4	35
28	Glycan clustering stabilizes the mannose patch of HIV-1 and preserves vulnerability to broadly neutralizing antibodies. <i>Nature Communications</i> , <b>2015</b> , 6, 7479	17.4	97
27	Molecular recognition of human ephrinB2 cell surface receptor by an emergent African henipavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E2156-65	11.5	36
26	Determination of N-linked Glycosylation in Viral Glycoproteins by Negative Ion Mass Spectrometry and Ion Mobility. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1331, 93-121	1.4	9
25	Arenavirus Glycan Shield Promotes Neutralizing Antibody Evasion and Protracted Infection. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1005276	7.6	96
24	Timing of galectin-1 exposure differentially modulates Nipah virus entry and syncytium formation in endothelial cells. <i>Journal of Virology</i> , <b>2015</b> , 89, 2520-9	6.6	31
23	Structural plasticity of the Semliki Forest virus glycome upon interspecies transmission. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 1702-12	5.6	23
22	Averaging of viral envelope glycoprotein spikes from electron cryotomography reconstructions using Jsubtomo. <i>Journal of Visualized Experiments</i> , <b>2014</b> , e51714	1.6	21
21	Evidence for henipavirus spillover into human populations in Africa. <i>Nature Communications</i> , <b>2014</b> , 5, 5342	17.4	102
20	Uukuniemi Phlebovirus assembly and secretion leave a functional imprint on the virion glycome. <i>Journal of Virology</i> , <b>2014</b> , 88, 10244-51	6.6	22
19	Evolutionary and molecular analysis of the emergent severe fever with thrombocytopenia syndrome virus. <i>Epidemics</i> , <b>2013</b> , 5, 1-10	5.1	65
18	Engineering hydrophobic protein-carbohydrate interactions to fine-tune monoclonal antibodies. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9723-32	16.4	71
17	Crystal structure of Venezuelan hemorrhagic fever virus fusion glycoprotein reveals a class 1 postfusion architecture with extensive glycosylation. <i>Journal of Virology</i> , <b>2013</b> , 87, 13070-5	6.6	24
16	Orthobunyavirus ultrastructure and the curious tripodal glycoprotein spike. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003374	7.6	45
15	Crystal structure of sialylated IgG Fc: implications for the mechanism of intravenous immunoglobulin therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E3544-6	11.5	73

14	Chemical and structural analysis of an antibody folding intermediate trapped during glycan biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 17554-63	16.4	62
13	Selective deactivation of serum IgG: a general strategy for the enhancement of monoclonal antibody receptor interactions. <i>Journal of Molecular Biology</i> , <b>2012</b> , 420, 1-7	6.5	47
12	Cells under siege: viral glycoprotein interactions at the cell surface. <i>Journal of Structural Biology</i> , <b>2011</b> , 175, 120-6	3.4	27
11	Dimeric architecture of the Hendra virus attachment glycoprotein: evidence for a conserved mode of assembly. <i>Journal of Virology</i> , <b>2010</b> , 84, 6208-17	6.6	75
10	Shared paramyxoviral glycoprotein architecture is adapted for diverse attachment strategies. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 1349-55	5.1	28
9	Unusual molecular architecture of the machupo virus attachment glycoprotein. <i>Journal of Virology</i> , <b>2009</b> , 83, 8259-65	6.6	63
8	Structural plasticity of eph receptor A4 facilitates cross-class ephrin signaling. <i>Structure</i> , <b>2009</b> , 17, 1386-92	3.7	73
7	Carbohydrate and domain architecture of an immature antibody glycoform exhibiting enhanced effector functions. <i>Journal of Molecular Biology</i> , <b>2009</b> , 387, 1061-6	6.5	63
6	Structural basis of Nipah and Hendra virus attachment to their cell-surface receptor ephrin-B2. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 567-72	17.6	150
5	Crystal structure and carbohydrate analysis of Nipah virus attachment glycoprotein: a template for antiviral and vaccine design. <i>Journal of Virology</i> , <b>2008</b> , 82, 11628-36	6.6	89
4	Hydrothermal syntheses and crystal structures of three zinc succinates: $Zn(C_4H_4O_4) \cdot nH_2O$ , $Zn(C_4H_4O_4) \cdot 2H_2O$ and $K_2Zn(C_4H_4O_4)_2$ . <i>Dalton Transactions</i> , <b>2003</b> , 936-939	4.3	37
3	A key region of molecular specificity orchestrates unique ephrin-B1 utilization by Cedar virus		1
2	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation		13
1	The evolutionary dynamics of Oropouche Virus (OROV) in South America		1