

Andrew James Thompson

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.

51
papers

1,847
citations

22
h-index

42
g-index

58
ext. papers

2,317
ext. citations

12.9
avg, IF

4.77
L-index

#	Paper	IF	Citations
51	Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. <i>Nature</i> , 2015 , 517, 165-169	30.9	307
50	A structural explanation for the low effectiveness of the seasonal influenza H3N2 vaccine. <i>PLoS Pathogens</i> , 2017 , 13, e1006682	7.6	143
49	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. <i>Cell Host and Microbe</i> , 2017 , 21, 23-34	23.4	121
48	An Atlas of Human Glycosylation Pathways Enables Display of the Human Glycome by Gene Engineered Cells. <i>Molecular Cell</i> , 2019 , 75, 394-407.e5	17.6	108
47	A Highly Pathogenic Avian H7N9 Influenza Virus Isolated from A Human Is Lethal in Some Ferrets Infected via Respiratory Droplets. <i>Cell Host and Microbe</i> , 2017 , 22, 615-626.e8	23.4	101
46	Dissecting conformational contributions to glycosidase catalysis and inhibition. <i>Current Opinion in Structural Biology</i> , 2014 , 28, 1-13	8.1	94
45	Mechanistic insights into a Ca ²⁺ -dependent family of alpha-mannosidases in a human gut symbiont. <i>Nature Chemical Biology</i> , 2010 , 6, 125-32	11.7	91
44	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017 , 13, e1006390	7.6	65
43	Virus recognition of glycan receptors. <i>Current Opinion in Virology</i> , 2019 , 34, 117-129	7.5	62
42	Structural and mechanistic insight into N-glycan processing by endo- β -mannosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 781-6	11.5	61
41	A complex gene locus enables xyloglucan utilization in the model saprophyte <i>Cellvibrio japonicus</i> . <i>Molecular Microbiology</i> , 2014 , 94, 418-33	4.1	51
40	The reaction coordinate of a bacterial GH47 β -mannosidase: a combined quantum mechanical and structural approach. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10997-1001	16.4	49
39	A complex epistatic network limits the mutational reversibility in the influenza hemagglutinin receptor-binding site. <i>Nature Communications</i> , 2018 , 9, 1264	17.4	38
38	Structural dissection of a complex <i>Bacteroides ovatus</i> gene locus conferring xyloglucan metabolism in the human gut. <i>Open Biology</i> , 2016 , 6,	7	35
37	Combined inhibitor free-energy landscape and structural analysis reports on the mannosidase conformational coordinate. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1087-91	16.4	34
36	Evidence for a boat conformation at the transition state of GH76 β 1,6-mannanases--key enzymes in bacterial and fungal mannoprotein metabolism. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5378-82	16.4	33
35	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1314-1325	12	30

34	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	24.5	27
33	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility. <i>Cell Host and Microbe</i> , 2019 , 25, 836-844.e5	23.4	27
32	Major antigenic site B of human influenza H3N2 viruses has an evolving local fitness landscape. <i>Nature Communications</i> , 2020 , 11, 1233	17.4	23
31	Site-Specific O-Glycosylation Analysis of SARS-CoV-2 Spike Protein Produced in Insect and Human Cells. <i>Viruses</i> , 2021 , 13,	6.2	23
30	In vivo tropism of Salmonella Typhi toxin to cells expressing a multiantennal glycan receptor. <i>Nature Microbiology</i> , 2018 , 3, 155-163	26.6	23
29	Different genetic barriers for resistance to HA stem antibodies in influenza H3 and H1 viruses. <i>Science</i> , 2020 , 368, 1335-1340	33.3	22
28	Metal-binding loop length and not sequence dictates structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5616-21	11.5	20
27	An Epoxide Intermediate in Glycosidase Catalysis. <i>ACS Central Science</i> , 2020 , 6, 760-770	16.8	20
26	Characterization of a Feline Influenza A(H7N2) Virus. <i>Emerging Infectious Diseases</i> , 2018 , 24, 75-86	10.2	19
25	Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15051-15055	16.4	19
24	Adaptation of influenza viruses to human airway receptors. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100017	5.4	18
23	Structure of the catalytic core module of the Chaetomium thermophilum family GH6 cellobiohydrolase Cel6A. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 875-82		17
22	Flexibility of Amino Acid 226 in the Receptor-Binding Site of an H9 Subtype Influenza A Virus and Its Effect on Virus Replication, Tropism, and Transmission. <i>Journal of Virology</i> , 2019 , 93,	6.6	17
21	Salmonella Typhoid Toxin PltB Subunit and Its Non-typhoidal Salmonella Ortholog Confer Differential Host Adaptation and Virulence. <i>Cell Host and Microbe</i> , 2020 , 27, 937-949.e6	23.4	14
20	Contribution of Shape and Charge to the Inhibition of a Family GH99 endo- β ,2-Mannanase. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1089-1097	16.4	12
19	Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins. <i>Cell Host and Microbe</i> , 2020 , 27, 725-735.e5	23.4	12
18	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13538-13541	16.4	12
17	Diversity of Influenza A(H5N1) Viruses in Infected Humans, Northern Vietnam, 2004-2010. <i>Emerging Infectious Diseases</i> , 2018 , 24, 1128-1238	10.2	11

16	Structural and kinetic dissection of the endo- α 1,2-mannanase activity of bacterial GH99 glycoside hydrolases from <i>Bacteroides</i> spp. <i>Chemistry - A European Journal</i> , 2015 , 21, 1966-77	4.8	11
15	Sialic Acid Ligands of CD28 Suppress Costimulation of T Cells. <i>ACS Central Science</i> , 2021 , 7, 1508-1515	16.8	10
14	The Reaction Coordinate of a Bacterial GH47 β Mannosidase: A Combined Quantum Mechanical and Structural Approach. <i>Angewandte Chemie</i> , 2012 , 124, 11159-11163	3.6	9
13	Plasticity of Amino Acid Residue 145 Near the Receptor Binding Site of H3 Swine Influenza A Viruses and Its Impact on Receptor Binding and Antibody Recognition. <i>Journal of Virology</i> , 2019 , 93,	6.6	8
12	Structure of the GH76 β mannanase homolog, BT2949, from the gut symbiont <i>Bacteroides thetaiotaomicron</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 408-15		7
11	<i>Bacteroides thetaiotaomicron</i> generates diverse β mannosidase activities through subtle evolution of a distal substrate-binding motif. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 394-404	5.5	5
10	Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie</i> , 2018 , 130, 15271-15275	3.6	5
9	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie</i> , 2018 , 130, 13726-13729	3.6	5
8	Structure of human endo- α 1,2-mannosidase (MANEA), an antiviral host-glycosylation target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29595-29601	11.5	4
7	Combined Inhibitor Free-Energy Landscape and Structural Analysis Reports on the Mannosidase Conformational Coordinate. <i>Angewandte Chemie</i> , 2014 , 126, 1105-1109	3.6	4
6	Fleetamine (3-O- β -glucopyranosyl-swainsonine): the synthesis of a hypothetical inhibitor of endo- β mannosidase. <i>Tetrahedron: Asymmetry</i> , 2012 , 23, 992-997		3
5	Sialic acid ligands of CD28 block co-stimulation of T cells		2
4	Site-specific O-glycosylation analysis of SARS-CoV-2 spike protein produced in insect and human cells 2021 ,		2
3	Evidence for a Boat Conformation at the Transition State of GH76 β 1,6-Mannanases Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. <i>Angewandte Chemie</i> , 2015 , 127, 5468-5472	3.6	1
2	Influenza H3 and H1 hemagglutinins have different genetic barriers for resistance to broadly neutralizing stem antibodies		1
1	Innenrücktitelbild: The Reaction Coordinate of a Bacterial GH47 β Mannosidase: A Combined Quantum Mechanical and Structural Approach (Angew. Chem. 44/2012). <i>Angewandte Chemie</i> , 2012 , 124, 11333-11333	3.6	