

Dominic S Alonzi

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.

44
papers

1,232
citations

21
h-index

34
g-index

46
ext. papers

1,397
ext. citations

6.7
avg, IF

3.86
L-index

#	Paper	IF	Citations
44	Antiviral effects of deoxynojirimycin (DNJ)-based iminosugars in dengue virus-infected primary dendritic cells.. <i>Antiviral Research</i> , 2022 , 105269	10.8	2
43	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. <i>ACS Central Science</i> , 2021 , 7, 586-593	16.8	26
42	Clamping, bending, and twisting inter-domain motions in the misfold-recognizing portion of UDP-glucose: Glycoprotein glucosyltransferase. <i>Structure</i> , 2021 , 29, 357-370.e9	5.2	5
41	Hepatitis C virus E2 envelope glycoprotein produced in <i>Nicotiana benthamiana</i> triggers humoral response with virus-neutralizing activity in vaccinated mice. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2027-2039	11.6	2
40	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
39	Targeting Endoplasmic Reticulum α -Glucosidase I with a Single-Dose Iminosugar Treatment Protects against Lethal Influenza and Dengue Virus Infections. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 4205-4214	8.3	19
38	ToP-DNJ, a Selective Inhibitor of Endoplasmic Reticulum α -Glucosidase II Exhibiting Antiflaviviral Activity. <i>ACS Chemical Biology</i> , 2018 , 13, 60-65	4.9	22
37	Structural Insights into the Broad-Spectrum Antiviral Target Endoplasmic Reticulum Alpha-Glucosidase II. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1062, 265-276	3.6	8
36	Iminosugar antivirals: the therapeutic sweet spot. <i>Biochemical Society Transactions</i> , 2017 , 45, 571-582	5.1	53
35	Interdomain conformational flexibility underpins the activity of UGGT, the eukaryotic glycoprotein secretion checkpoint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8544-8549	11.5	33
34	Structures of mammalian ER α -glucosidase II capture the binding modes of broad-spectrum iminosugar antivirals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4630-8	11.5	46
33	Inhibition of endoplasmic reticulum glucosidases is required for in vitro and in vivo dengue antiviral activity by the iminosugar UV-4. <i>Antiviral Research</i> , 2016 , 129, 93-98	10.8	38
32	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidases--Not Glycolipid Processing Enzymes. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0004524	4.8	51
31	Minimal In Vivo Efficacy of Iminosugars in a Lethal Ebola Virus Guinea Pig Model. <i>PLoS ONE</i> , 2016 , 11, e0167018	3.7	10
30	A Novel Iminosugar UV-12 with Activity against the Diverse Viruses Influenza and Dengue (Novel Iminosugar Antiviral for Influenza and Dengue). <i>Viruses</i> , 2015 , 7, 2404-27	6.2	20
29	Glycosphingolipid synthesis inhibition limits osteoclast activation and myeloma bone disease. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2279-92	15.9	29
28	Non-specific accumulation of glycosphingolipids in GNE myopathy. <i>Journal of Inherited Metabolic Disease</i> , 2014 , 37, 297-308	5.4	10

27	Glycoprotein misfolding in the endoplasmic reticulum: identification of released oligosaccharides reveals a second ER-associated degradation pathway for Golgi-retrieved proteins. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 2799-814	10.3	18
26	An iminosugar with potent inhibition of dengue virus infection in vivo. <i>Antiviral Research</i> , 2013 , 98, 35-43	10.8	75
25	Small molecule inhibitors of ER β glucosidases are active against multiple hemorrhagic fever viruses. <i>Antiviral Research</i> , 2013 , 98, 432-40	10.8	61
24	C-branched iminosugars: β glucosidase inhibition by enantiomers of isoDMDP, isoDGDP, and isoDAB-L-isoDMDP compared to miglitol and miglustat. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7380-97	4.2	40
23	Engineering hydrophobic protein-carbohydrate interactions to fine-tune monoclonal antibodies. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9723-32	16.4	71
22	Towards a stable neomycin analog with a D-manno configuration: synthesis and glycosidase inhibition of D-manno-like tri- and tetrahydroxylated azepanes. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 641-9	3.4	18
21	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
20	Hydrophilic interaction liquid chromatography of anthranilic acid-labelled oligosaccharides with a 4-aminobenzoic acid ethyl ester-labelled dextran hydrolysate internal standard. <i>Journal of Chromatography A</i> , 2012 , 1233, 66-70	4.5	17
19	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
18	Restricted processing of glycans by endomannosidase in mammalian cells. <i>Glycobiology</i> , 2012 , 22, 1282-8	3.8	5
17	Selection of the biological activity of DNJ neoglycoconjugates through click length variation of the side chain. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 5373-88	3.9	39
16	Amine-linked diglycosides: Synthesis facilitated by the enhanced reactivity of allylic electrophiles, and glycosidase inhibition assays. <i>Beilstein Journal of Organic Chemistry</i> , 2011 , 7, 1115-23	2.5	7
15	Therapeutic targets for inhibitors of glycosylation. <i>Chimia</i> , 2011 , 65, 35-9	1.3	16
14	Demonstration that endoplasmic reticulum-associated degradation of glycoproteins can occur downstream of processing by endomannosidase. <i>Biochemical Journal</i> , 2011 , 438, 133-42	3.8	14
13	Urinary glycan markers for disease. <i>Biochemical Society Transactions</i> , 2011 , 39, 393-8	5.1	7
12	Combination of β glucosidase inhibitor and ribavirin for the treatment of dengue virus infection in vitro and in vivo. <i>Antiviral Research</i> , 2011 , 89, 26-34	10.8	73
11	Synthesis and β glucosidase II inhibitory activity of valienamine pseudodisaccharides relevant to N-glycan biosynthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5219-23	2.9	6
10	4-C-Me-DAB and 4-C-Me-LAB - enantiomeric alkyl-branched pyrrolidine iminosugars - are specific and potent β glucosidase inhibitors; acetone as the sole protecting group. <i>Tetrahedron Letters</i> , 2011 , 52, 219-223	2	33

9	Inhibitors of endoplasmic reticulum alpha-glucosidases potently suppress hepatitis C virus virion assembly and release. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 1036-44	5.9	55
8	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. <i>Tetrahedron Letters</i> , 2010 , 51, 4170-4174	2	40
7	Synthesis and biological characterisation of novel N-alkyl-deoxynojirimycin alpha-glucosidase inhibitors. <i>ChemBioChem</i> , 2009 , 10, 1101-5	3.8	67
6	Improved cellular inhibitors for glycoprotein processing α -glucosidases: biological characterisation of alkyl- and arylalkyl-N-substituted deoxynojirimycins. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 897-901		21
5	Novel mannosidase inhibitors probe glycoprotein degradation pathways in cells. <i>Glycoconjugate Journal</i> , 2009 , 26, 1109-16	3	19
4	Carbasugar-thioether pseudodisaccharides related to N-glycan biosynthesis. <i>Carbohydrate Research</i> , 2009 , 344, 454-9	2.9	7
3	Glucosylated free oligosaccharides are biomarkers of endoplasmic- reticulum alpha-glucosidase inhibition. <i>Biochemical Journal</i> , 2008 , 409, 571-80	3.8	69
2	Clamping, bending, and twisting inter-domain motions in the misfold-recognising portion of UDP-glucose:glycoprotein glucosyl-transferase		1
1	Analysis of SARS-CoV-2 spike glycosylation reveals shedding of a vaccine candidate		10