

# Atsushi Kato

## List of Publications by Year in descending order

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192  
papers

6,969  
citations

53794

45  
h-index

79698

73  
g-index

208  
all docs

208  
docs citations

208  
times ranked

4962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyhydroxylated Alkaloids Isolated from Mulberry Trees ( <i>Morus alba</i> L.) and Silkworms ( <i>Bombyx mori</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 4208-4213.	5.2	342
2	Iminosugars as therapeutic agents: recent advances and promising trends. <i>Future Medicinal Chemistry</i> , 2011, 3, 1513-1521.	2.3	264
3	In vitro inhibition and intracellular enhancement of lysosomal $\beta$ -galactosidase activity in Fabry lymphoblasts by 1-deoxygalactonojirimycin and its derivatives. <i>FEBS Journal</i> , 2000, 267, 4179-4186.	0.2	226
4	Biological Properties of $\beta$ - and $\alpha$ -1-Deoxyazasugars. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2036-2044.	6.4	177
5	New polyhydroxylated pyrrolizidine alkaloids from <i>Muscari armeniacum</i> : structural determination and biological activity. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 1-8.	1.8	157
6	Protective Effects of Dietary Chamomile Tea on Diabetic Complications. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 8206-8211.	5.2	152
7	Involvement of increased expression of transient receptor potential melastatin 8 in oxaliplatin-induced cold allodynia in mice. <i>Neuroscience Letters</i> , 2009, 458, 93-95.	2.1	142
8	Antihyperglycemic Effects of N-Containing Sugars from <i>Xanthocercis zambesiaca</i> , <i>Morus bombycis</i> , <i>Aglaonema treubii</i> , and <i>Castanospermum australe</i> in Streptozotocin-Diabetic Mice. <i>Journal of Natural Products</i> , 1998, 61, 397-400.	3.0	138
9	Polyhydroxylated pyrrolidine and pyrrolizidine alkaloids from <i>Hyacinthoides non-scripta</i> and <i>Scilla campanulata</i> . <i>Carbohydrate Research</i> , 1999, 316, 95-103.	2.3	126
10	Alkaloidal Components in the Poisonous Plant, <i>Ipomoea carnea</i> (Convolvulaceae). <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4995-5000.	5.2	121
11	$\beta$ -1-C-Octyl-1-deoxynojirimycin as a pharmacological chaperone for Gaucher disease. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7736-7744.	3.0	106
12	Calystegins of <i>Physalis alkekengi</i> var. <i>Francheti</i> (Solanaceae). Structure Determination and their Glycosidase Inhibitory Activities. <i>FEBS Journal</i> , 1995, 229, 369-376.	0.2	103
13	Australine and related alkaloids: easy structural confirmation by $^{13}\text{C}$ NMR spectral data and biological activities. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 325-331.	1.8	100
14	In vitro inhibition of $\beta$ -glucosidases and glycogen phosphorylase by catechin gallates in green tea. <i>Food Chemistry</i> , 2010, 122, 1061-1066.	8.2	96
15	Specific $\alpha$ -Galactosidase Inhibitors, N-Methylcalystegines Structure/Activity Relationships of Calystegines from <i>Lycium Chinense</i> . <i>FEBS Journal</i> , 1997, 248, 296-303.	0.2	94
16	The L-enantiomers of d-sugar-mimicking iminosugars are noncompetitive inhibitors of d-glycohydrolase?. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 223-229.	1.8	93
17	Glycosidase-inhibiting pyrrolizidine alkaloids from <i>Hyacinthoides non-scripta</i> . <i>Phytochemistry</i> , 1997, 46, 255-259.	2.9	91
18	Nitrogen-Containing Furanose and Pyranose Analogues from <i>Hyacinthus orientalis</i> . <i>Journal of Natural Products</i> , 1998, 61, 625-628.	3.0	91

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19	Fagomine Isomers and Glycosides from <i>Xanthocercis zambesiaca</i> . <i>Journal of Natural Products</i> , 1997, 60, 312-314.	3.0	85
20	Homonojirimycin Isomers and N-Alkylated Homonojirimycins: A Structural and Conformational Basis of Inhibition of Glycosidases. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 2565-2571.	6.4	84
21	Asymmetric Synthesis of the Four Possible Fagomine Isomers. <i>Journal of Organic Chemistry</i> , 2003, 68, 3603-3607.	3.2	83
22	Mechanical Allodynia Induced by Paclitaxel, Oxaliplatin and Vincristine: Different Effectiveness of Gabapentin and Different Expression of Voltage-Dependent Calcium Channel .ALPHA.2.DELTA.-1 Subunit. <i>Biological and Pharmaceutical Bulletin</i> , 2009, 32, 732-734.	1.4	81
23	The effects of calystegines isolated from edible fruits and vegetables on mammalian liver glycosidases. <i>Glycobiology</i> , 1997, 7, 1085-1088.	2.5	79
24	New Sugar-Mimic Alkaloids from the Pods of <i>Angylocalyx pynaertii</i> . <i>Journal of Natural Products</i> , 2002, 65, 198-202.	3.0	77
25	Isolation of Glycosidase-Inhibiting Hyacinthacines and Related Alkaloids from <i>Scilla socialis</i> . <i>Journal of Natural Products</i> , 2007, 70, 993-997.	3.0	75
26	Asymmetric synthesis of fagomine and its congeners. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 817-819.	1.8	74
27	Effect of five-membered sugar mimics on mammalian glycogen-degrading enzymes and various glucosidases. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 2734-2740.	3.0	74
28	1-Butyl-1,4-dideoxy-1,4-imino-arabinitol as a Second-Generation Iminosugar-Based Oral Glucosidase Inhibitor for Improving Postprandial Hyperglycemia. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10347-10362.	6.4	72
29	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidases Not Glycolipid Processing Enzymes. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004524.	3.0	69
30	Asymmetric synthesis of 1-deoxynojirimycin and its congeners from a common chiral building block. <i>Tetrahedron</i> , 2004, 60, 8199-8205.	1.9	65
31	Novel 1-L-fucosidase inhibitors from the bark of <i>Angylocalyx pynaertii</i> (Leguminosae). <i>FEBS Journal</i> , 2001, 268, 35-41.	0.2	64
32	Inhibitory Effects of <i>Zingiber officinale</i> Roscoe Derived Components on Aldose Reductase Activity in Vitro and in Vivo. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 6640-6644.	5.2	63
33	Structure Activity Relationships of Flavonoids as Potential Inhibitors of Glycogen Phosphorylase. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4469-4473.	5.2	59
34	In vitro inhibition of glycogen-degrading enzymes and glycosidases by six-membered sugar mimics and their evaluation in cell cultures. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7330-7336.	3.0	58
35	Calystegine B4, a novel trehalase inhibitor from <i>Scopolia japonica</i> . <i>Carbohydrate Research</i> , 1996, 293, 195-204.	2.3	53
36	Inhibitory effect of rhesinine isolated from <i>Evodia rutaecarpa</i> on aldose reductase activity. <i>Phytomedicine</i> , 2009, 16, 258-261.	5.3	53

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37	Looking glass inhibitors: scalable syntheses of DNJ, DMDP, and (3R)-3-hydroxy-l-bulgecinine from d-glucuronolactone and of l-DNJ, l-DMDP, and (3S)-3-hydroxy-d-bulgecinine from l-glucuronolactone. DMDP inhibits $\beta$ -glucosidases and $\beta$ -galactosidases whereas l-DMDP is a potent and specific inhibitor of $\beta$ -glucosidases. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 311-319.	1.8	53
38	Therapeutic Applications of Sugar-Mimicking Glycosidase Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2001, 1, 145-154.	2.4	52
39	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.	4.1	52
40	Looking-Glass Synergistic Pharmacological Chaperones: DGJ and L-DGJ from the Enantiomers of Tagatose. <i>Organic Letters</i> , 2011, 13, 4064-4067.	4.6	51
41	Dihydroxynortropane alkaloids from calystegine-producing plants. <i>Phytochemistry</i> , 2001, 57, 721-726.	2.9	50
42	Synthesis and Glycosidase Inhibition of the Enantiomer of ( $\beta$ )-Steviamine, the First Example of a New Class of Indolizidine Alkaloid. <i>Organic Letters</i> , 2010, 12, 2562-2565.	4.6	48
43	Calystegin N1, a novel nortropane alkaloid with a bridgehead amino group from <i>Hyoscyamus niger</i> : structure determination and glycosidase inhibitory activities. <i>Carbohydrate Research</i> , 1996, 284, 169-178.	2.3	47
44	Effects of the Prostaglandin E1 Analog Limaprost on Mechanical Allodynia Caused by Chemotherapeutic Agents in Mice. <i>Journal of Pharmacological Sciences</i> , 2009, 109, 469-472.	2.5	47
45	l-DMDP, l-homoDMDP and their C-3 fluorinated derivatives: synthesis and glycosidase-inhibition. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3405.	2.8	47
46	Synthesis of Eight Stereoisomers of Pochonicine: Nanomolar Inhibition of $\beta$ -N-Acetylhexosaminidases. <i>Journal of Organic Chemistry</i> , 2013, 78, 10298-10309.	3.2	47
47	Synthetic Chemical Inducers and Genetic Decoupling Enable Orthogonal Control of the $\rho$ BAD Promoter. <i>ACS Synthetic Biology</i> , 2016, 5, 1136-1145.	3.8	47
48	Docking study and biological evaluation of pyrrolidine-based iminosugars as pharmacological chaperones for Gaucher disease. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1039-1048.	2.8	46
49	Synthesis of the naringinase inhibitors l-swainsonine and related 6-C-methyl-l-swainsonine analogues: (6R)-C-methyl-l-swainsonine is a more potent inhibitor of l-rhamnosidase by an order of magnitude than l-swainsonine. <i>Tetrahedron Letters</i> , 2008, 49, 179-184.	1.4	44
50	C-3-Branched Iminosugars: $\beta$ -Glucosidase Inhibition by Enantiomers of isoDMDP, isoDGDP, and isoDAB compared to Miglitol and Miglustat. <i>Journal of Organic Chemistry</i> , 2013, 78, 7380-7397.	3.2	44
51	Synthesis of Fully Substituted Polyhydroxylated Pyrrolizidines via Cope House Cyclization. <i>Organic Letters</i> , 2011, 13, 4414-4417.	4.6	43
52	Synthesis and Glycosidase Inhibition of Australine and Its Fluorinated Derivatives. <i>Organic Letters</i> , 2015, 17, 716-719.	4.6	43
53	Steviamine, a new indolizidine alkaloid from <i>Stevia rebaudiana</i> . <i>Phytochemistry Letters</i> , 2010, 3, 136-138.	1.2	42
54	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. <i>Tetrahedron Letters</i> , 2010, 51, 4170-4174.	1.4	42

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55	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.	2.8	42
56	Scalable Syntheses of Both Enantiomers of DNJNAc and DGJNAc from Glucuronolactone: The Effect of Alkylation on Hexosaminidase Inhibition. <i>Chemistry - A European Journal</i> , 2012, 18, 9341-9359.	3.3	42
57	General synthesis and biological evaluation of $\pm$ -1-C-substituted derivatives of fagomine (2-deoxynojirimycin- $\pm$ -C-glycosides). <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 2313-2324.	3.0	40
58	Looking glass inhibitors: both enantiomeric N-benzyl derivatives of 1,4-dideoxy-1,4-imino-d-lyxitol [a potent competitive inhibitor of $\pm$ -d-galactosidase] and of 1,4-dideoxy-1,4-imino-l-lyxitol [a weak competitive inhibitor of $\pm$ -d-galactosidase] inhibit naringinase, an $\pm$ -l-rhamnosidase competitively. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2368-2373.	1.8	40
59	Looking glass inhibitors: synthesis of a potent naringinase inhibitor l-DIM [1,4-dideoxy-1,4-imino-l-mannitol], the enantiomer of DIM [1,4-dideoxy-1,4-imino-d-mannitol] a potent $\pm$ -d-mannosidase inhibitor. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 282-289.	1.8	39
60	The synthesis and biological evaluation of 1-C-alkyl-l-arabinoiminofuranoses, a novel class of $\pm$ -glucosidase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 738-741.	2.2	39
61	Synthesis of both enantiomers of hydroxypipercolic acid derivatives equivalent to 5-azapyranuronic acids and evaluation of their inhibitory activities against glycosidases. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8273-8286.	3.0	38
62	Calystegine alkaloids from <i>Duboisia leichhardtii</i> . <i>Phytochemistry</i> , 1997, 45, 425-429.	2.9	37
63	Alkaloids from the Poisonous Plant <i>Pomoea carnea</i> : Effects on Intracellular Lysosomal Glycosidase Activities in Human Lymphoblast Cultures. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 7642-7646.	5.2	37
64	Glycosidase Inhibition by All 10 Stereoisomeric 2,5-Dideoxy-2,5-imino-hexitols Prepared from the Enantiomers of Glucuronolactone. <i>Journal of Organic Chemistry</i> , 2012, 77, 7777-7792.	3.2	37
65	Iminosugars from <i>Baphia nitida</i> Lodd.. <i>Phytochemistry</i> , 2008, 69, 1261-1265.	2.9	36
66	Design and Synthesis of Labystegines, Hybrid Iminosugars from LAB and Calystegine, as Inhibitors of Intestinal $\pm$ -Glucosidases: Binding Conformation and Interaction for ntSI. <i>Journal of Organic Chemistry</i> , 2015, 80, 4501-4515.	3.2	36
67	2,5-Dideoxy-2,5-imino-d-altritol as a new class of pharmacological chaperone for Fabry disease. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3790-3794.	3.0	35
68	4-C-Me-DAB and 4-C-Me-LAB "enantiomeric alkyl-branched pyrrolidine iminosugars" are specific and potent $\pm$ -glucosidase inhibitors; acetone as the sole protecting group. <i>Tetrahedron Letters</i> , 2011, 52, 219-223.	1.4	35
69	General Synthesis of Sugar-Derived Azepane Nitrones: Precursors of Azepane Iminosugars. <i>Journal of Organic Chemistry</i> , 2013, 78, 3208-3221.	3.2	35
70	Inhibition of Nonmammalian Glycosidases by Azetidine Iminosugars Derived from Stable 3,5-Di-O-triflates of Pentoses. <i>Organic Letters</i> , 2011, 13, 5834-5837.	4.6	34
71	Total Synthesis and Glycosidase Inhibition of Broussonetine I and J <sub>2</sub> . <i>Journal of Organic Chemistry</i> , 2013, 78, 7896-7902.	3.2	31
72	Evaluation of Amino Acid-Mustard Transport as L-Type Amino Acid Transporter 1 (LAT1)-Mediated Alkylating Agents. <i>Biological and Pharmaceutical Bulletin</i> , 2008, 31, 2126-2130.	1.4	30

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73	Nine of 16 Stereoisomeric Polyhydroxylated Proline Amides Are Potent $\beta$ -N-Acetylhexosaminidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2014, 79, 3398-3409.	3.2	30
74	Phytogenic Polyphenols as Glycogen Phosphorylase Inhibitors: The Potential of Triterpenes and Flavonoids for Glycaemic Control in Type 2 Diabetes. <i>Current Medicinal Chemistry</i> , 2017, 24, 384-403.	2.4	30
75	Sourcing the affinity of flavonoids for the glycogen phosphorylase inhibitor site via crystallography, kinetics and QM/MM-PBSA binding studies: Comparison of chrysin and flavopiridol. <i>Food and Chemical Toxicology</i> , 2013, 61, 14-27.	3.6	29
76	NHC-mediated cross-coupling of sugar-derived cyclic nitrones with enals: general and efficient synthesis of polyhydroxylated pyrrolizidines and indolizidines. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4622.	2.8	29
77	Synthesis of 1,2- <i>cis</i> -Homoiminosugars Derived from GlcNAc and GalNAc Exploiting a $\beta$ -Amino Alcohol Skeletal Rearrangement. <i>Organic Letters</i> , 2014, 16, 5512-5515.	4.6	29
78	Biological activities of 3,4,5-trihydropiperidines and their <i>N</i> - and <i>O</i> -derivatives. <i>Chemical Biology and Drug Design</i> , 2018, 92, 1171-1197.	3.2	29
79	Enzymatic synthesis of the glycosides of calystegines B1 and B2 and their glycosidase inhibitory activities. <i>Carbohydrate Research</i> , 1997, 304, 173-178.	2.3	28
80	First total synthesis of (+)-broussonetine W: glycosidase inhibition of natural product & analogs. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5157-5174.	2.8	28
81	Multivalency To Inhibit and Discriminate Hexosaminidases. <i>Chemistry - A European Journal</i> , 2017, 23, 9022-9025.	3.3	28
82	ToP-DNJ, a Selective Inhibitor of Endoplasmic Reticulum $\beta$ -Glucosidase II Exhibiting Antiflaviviral Activity. <i>ACS Chemical Biology</i> , 2018, 13, 60-65.	3.4	28
83	The inhibitory action of pyrrolidine alkaloid, 1,4-dideoxy-1,4-imino-d-ribitol, on eukaryotic DNA polymerases. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 78-85.	2.1	27
84	Synthesis of 2-acetamido-1,2-dideoxy-d-galacto-nojirimycin [DGJNAc] from d-glucuronolactone: the first sub-micromolar inhibitor of $\beta$ -N-acetylgalactosaminidases. <i>Tetrahedron Letters</i> , 2010, 51, 2222-2224.	1.4	27
85	Synthesis of uronic-Noeurostegine " a potent bacterial $\beta$ -glucuronidase inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7807.	2.8	27
86	Glucosylceramide Mimics: Highly Potent GCCase Inhibitors and Selective Pharmacological Chaperones for Mutations Associated with Types 1 and 2 Gaucher Disease. <i>ChemMedChem</i> , 2013, 8, 1805-1817.	3.2	27
87	N- and C-alkylation of seven-membered iminosugars generates potent glucocerebrosidase inhibitors and F508del-CFTR correctors. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8977-8996.	2.8	26
88	Azetidine Iminosugars from the Cyclization of 3,5-Di- <i>O</i> -triflates of $\beta$ -Furanosides and of 2,4-Di- <i>O</i> -triflates of $\beta$ -Pyranosides Derived from Glucose. <i>Organic Letters</i> , 2012, 14, 2142-2145.	4.6	25
89	Tuning of $\beta$ -glucosidase and $\beta$ -galactosidase inhibition by generation and in situ screening of a library of pyrrolidine-triazole hybrid molecules. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 532-542.	5.5	25
90	Total Synthesis of Natural Hyacinthacine C <sub>5</sub> and Six Related Hyacinthacine C <sub>5</sub> Epimers. <i>Journal of Organic Chemistry</i> , 2018, 83, 5558-5576.	3.2	25

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91	Docking and SAR studies of d- and l-isofagomine isomers as human $\beta$ -glucocerebrosidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 3558-3568.	3.0	24
92	lteamine, the first alkaloid isolated from <i>Itea virginica</i> L. inflorescence. <i>Phytochemistry</i> , 2014, 100, 126-131.	2.9	24
93	3-Fluoroazetidincarboxylic Acids and <i>trans,trans</i> -3,4-Difluoroproline as Peptide Scaffolds: Inhibition of Pancreatic Cancer Cell Growth by a Fluoroazetidine Iminosugar. <i>Journal of Organic Chemistry</i> , 2015, 80, 4244-4258.	3.2	24
94	Two Subsites on the Active Center of Pig Kidney Trehalase. <i>FEBS Journal</i> , 1996, 240, 692-698.	0.2	23
95	3-Hydroxyazetidine Carboxylic Acids: Non-Proteinogenic Amino Acids for Medicinal Chemists. <i>ChemMedChem</i> , 2013, 8, 658-666.	3.2	23
96	Effects of eugenol-reduced clove extract on glycogen phosphorylase b and the development of diabetes in db/db mice. <i>Food and Function</i> , 2014, 5, 214-219.	4.6	22
97	Homochiral carbon branched piperidines from carbon branched sugar lactones: 4-C-methyl-deoxyfuconojirimycin (DF) and its enantiomer's removal of glycosidase inhibition. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 500-512.	1.8	21
98	Synthesis from D-Altrose of (5 <i>R</i> ,6 <i>R</i> ,7 <i>R</i> ,8 <i>S</i> )-5,7-Dihydroxy-8-hydroxymethylconidine and 2,4-Dideoxy-2,4-imino-D-glucitol, Azetidine Analogues of Swainsonine and 1,4-Dideoxy-1,4-imino-D-mannitol. <i>Organic Letters</i> , 2012, 14, 4174-4177.	4.6	21
99	Synthesis of 1,2- <i>trans</i> -2-Acetamido-2-deoxyhomoimosugars. <i>Organic Letters</i> , 2014, 16, 5516-5519.	4.6	21
100	1 $\beta$ -amino-2,3,5-trihydroxycycloheptane from <i>Physalis alkekengi</i> var. <i>francheti</i> . <i>Phytochemistry</i> , 1996, 42, 719-721.	2.9	20
101	Synthesis of the enantiomers of XYLNAc and LYXNAc: comparison of $\beta$ -N-acetylhexosaminidase inhibition by the 8 stereoisomers of 2-N-acetylamino-1,2,4-trideoxy-1,4-iminopentitols. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3932.	2.8	20
102	Synthesis of all stereoisomers of 3-hydroxypipercolic acid and 3-hydroxy-4,5-dehydropipercolic acid and their evaluation as glycosidase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1810-1813.	2.2	19
103	Towards a stable noeuromycin 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, 641-649.	3.0	19
104	Synthetic deoxynojirimycin derivatives bearing a thiolated, fluorinated or unsaturated N-alkyl chain: identification of potent $\beta$ -glucosidase and trehalase inhibitors as well as F508del-CFTR correctors. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10734-10744.	2.8	19
105	Gem-difluoromethylated and trifluoromethylated derivatives of DMDP-related iminosugars: synthesis and glycosidase inhibition. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2249-2263.	2.8	19
106	An expeditious synthesis of an analogue of (â)-steviamine by way of the 1,3-dipolar cycloaddition of a nitrile oxide with a 1-C-allyl iminosugar. <i>Tetrahedron Letters</i> , 2011, 52, 6399-6402.	1.4	18
107	Fluorinated Radicamine A and B: Synthesis and Glycosidase Inhibition. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1429-1438.	2.4	18
108	<i>In silico</i> analyses of essential interactions of iminosugars with the Hex A active site and evaluation of their pharmacological chaperone effects for Tay-Sachs disease. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9297-9304.	2.8	18

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109	Isolation and SAR studies of bicyclic iminosugars from <i>Castanospermum australe</i> as glycosidase inhibitors. <i>Phytochemistry</i> , 2015, 111, 124-131.	2.9	17
110	Structural essentials for $\beta$ -N-acetylhexosaminidase inhibition by amides of prolines, pipercolic and azetidine carboxylic acids. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10371-10385.	2.8	17
111	Exploring substituent diversity on pyrrolidine-aryltriazole iminosugars: Structural basis of $\beta$ -glucocerebrosidase inhibition. <i>Bioorganic Chemistry</i> , 2019, 86, 652-664.	4.1	17
112	Synthesis and glycosidase inhibition of N-substituted derivatives of 1,4-dideoxy-1,4-imino-d-mannitol (DIM). <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 999-1011.	2.8	17
113	Alkaloids inhibiting l-histidine decarboxylase from <i>Sinomenium acutum</i> . <i>Phytochemistry Letters</i> , 2009, 2, 77-80.	1.2	16
114	6,7-Dihydroxy-4-phenylcoumarin as inhibitor of aldose reductase 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5630-5633.	2.2	16
115	Fluorinated and Conformationally Fixed Derivatives of $\beta$ -HomoDMDP: Synthesis and Glycosidase Inhibition. <i>Journal of Organic Chemistry</i> , 2015, 80, 5151-5158.	3.2	16
116	Synthesis of multimeric pyrrolidine iminosugar inhibitors of human $\beta$ -glucocerebrosidase and $\beta$ -galactosidase A: First example of a multivalent enzyme activity enhancer for Fabry disease. <i>European Journal of Medicinal Chemistry</i> , 2020, 192, 112173.	5.5	16
117	A concise stereoselective synthesis of ( $\beta$ )-erycibelline. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7713.	2.8	15
118	Eight Stereoisomers of Homonojirimycin from $\beta$ -Mannose. <i>Organic Letters</i> , 2012, 14, 2050-2053.	4.6	15
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