Inmaculada Robina

List of Publications by Year
in descending order

109	2,075	236925	330143
papers	citations	25 h-index	37 g-index

131	131	131	1854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discovery of human hexosaminidase inhibitors by in situ screening of a library of mono- and divalent pyrrolidine iminosugars. Bioorganic Chemistry, 2022, 120, 105650.	4.1	10
2	Structure-Based Identification and Biological Characterization of New NAPRT Inhibitors. Pharmaceuticals, 2022, 15, 855.	3.8	8
3	Differential modulation of SIRT6 deacetylase and deacylase activities by lysine-based small molecules. Molecular Diversity, 2020, 24, 655-671.	3.9	8
4	Regioselectivity of the 1,3-Dipolar Cycloaddition of Organic Azides to 7-Heteronorbornadienes. Synthesis of Î²-Substituted Furans/Pyrroles. Journal of Organic Chemistry, 2020, 85, 8923-8932.	3.2	8
5	Synthesis of multimeric pyrrolidine iminosugar inhibitors of human Î²-glucocerebrosidase and Î±-galactosidase A: First example of a multivalent enzyme activity enhancer for Fabry disease. European Journal of Medicinal Chemistry, 2020, 192, 112173.	5.5	16
6	Stable Pyrroleâ€Linked Bioconjugates through Tetrazineâ€Triggered Azanorbornadiene Fragmentation. Angewandte Chemie - International Edition, 2020, 59, 6196-6200.	13.8	15
7	Stable Pyrroleâ€Linked Bioconjugates through Tetrazineâ€Triggered Azanorbornadiene Fragmentation. Angewandte Chemie, 2020, 132, 6255-6259.	2.0	7
8	Exploring Multiâ€Subsite Binding Pockets in Proteins: DEEPâ€STD NMR Fingerprinting and Molecular Dynamics Unveil a Cryptic Subsite at the GM1 Binding Pocket of Cholera Toxinâ€...B. Chemistry - A European Journal, 2020, 26, 10024-10034.	3.3	7
9	Preparation of water-soluble glycopolymers derived from five-membered iminosugars. European Polymer Journal, 2019, 119, 213-221.	5.4	3
10	Structural basis of the inhibition of GH1 Î²-glucosidases by multivalent pyrrolidine iminosugars. Bioorganic Chemistry, 2019, 89, 103026.	4.1	12
11	Azabicyclic vinyl sulfones for residue-specific dual protein labelling. Chemical Science, 2019, 10, 4515-4522.	7.4	23
12	Exploring substituent diversity on pyrrolidine-aryltriazole iminosugars: Structural basis of Î²-glucocerebrosidase inhibition. Bioorganic Chemistry, 2019, 86, 652-664.	4.1	17
13	Induction of cell killing and autophagy by amphiphilic pyrrolidine derivatives on human pancreatic cancer cells. European Journal of Medicinal Chemistry, 2018, 150, 457-478.	5.5	6
14	Harnessing pyrrolidine iminosugars into dimeric structures for the rapid discovery of divalent glycosidase inhibitors. European Journal of Medicinal Chemistry, 2018, 151, 765-776.	5.5	13
15	Pyrrolidineâ€Based P,O Ligands from Carbohydrates: Easily Accessible and Modular Ligands for the Irâ€Catalyzed Asymmetric Hydrogenation of Minimally Functionalized Olefins. ChemCatChem, 2018, 10, 5414-5424.	3.7	11
16	Amino-P Ligands from Iminosugars: New Readily Available and Modular Ligands for Enantioselective Pd-Catalyzed Allylic Substitutions. Organometallics, 2018, 37, 1682-1694.	2.3	13
17	Discovery of a Potent Î±-Galactosidase Inhibitor by in Situ Analysis of a Library of Pyrrolizidineâ€“(Thio)urea Hybrid Molecules Generated via Click Chemistry. Journal of Organic Chemistry, 2018, 83, 8863-8873.	3.2	7
18	Epididymal Î±- l -fucosidase and its possible role in remodelling the surface of bull spermatozoa. Theriogenology, 2017, 104, 134-141.	2.1	2

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19	Mechanistic Insight into the Binding of Multivalent Pyrrolidines to Î±â€Mannosidases. Chemistry - A European Journal, 2017, 23, 14585-14596.	3.3	32
20	Tuning of Î²-glucosidase and Î±-galactosidase inhibition by generation and in situ screening of a library of pyrrolidine-triazole hybrid molecules. European Journal of Medicinal Chemistry, 2017, 138, 532-542.	5.5	25
21	Cycloadditions of Sugarâ€Derived ÂNitrones Targeting Polyhydroxylated Indolizidines. European Journal of Organic Chemistry, 2016, 2016, 1588-1598.	2.4	27
22	Expanding the library of divalent fucosidase inhibitors with polyamino and triazole-benzyl bridged bispyrrolidines. Organic and Biomolecular Chemistry, 2016, 14, 3212-3220.	2.8	10
23	Diels-Alder Approaches for the Synthesis of Bridged Bicyclic Systems: Synthetic Applications of (7-hetero)norbornadienes. Current Organic Chemistry, 2016, 20, 2393-2420.	1.6	7
24	Exploring architectures displaying multimeric presentations of a trihydroxypiperidine iminosugar. Beilstein Journal of Organic Chemistry, 2015, 11, 2631-2640.	2.2	12
25	Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. RSC Advances, 2015, 5, 95817-95822.	3.6	13
26	Reversibility of the interactions between a novel surfactant derived from lysine and biomolecules. Colloids and Surfaces B: Biointerfaces, 2015, 135, 346-356.	5.0	10
27	Rapid discovery of potent Î±-fucosidase inhibitors by in situ screening of a library of (pyrrolidin-2-yl)triazoles. Organic and Biomolecular Chemistry, 2014, 12, 5898-5904.	2.8	18
28	6-Azido hyacinthacine A₂gives a straightforward access to the first multivalent pyrrolizidine architectures. Organic and Biomolecular Chemistry, 2014, 12, 6250.	2.8	27
29	Polyhydroxyaminoâ€Piperidineâ€Type Iminosugars and Pipecolic Acid Analogues from a <scp>D</scp>â€Mannoseâ€Derived Aldehyde. European Journal of Organic Chemistry, 2014, 2014, 5419-5432.	2.4	32
30	Synthesis of Pyrrolidine 3,4-Diol Derivatives with Anticancer Activity on Pancreatic Tumor Cells. Heterocycles, 2014, 88, 1445.	0.7	3
31	Synthesis and cancer growth inhibitory activities of 2-fatty-alkylated pyrrolidine-3,4-diol derivatives. Arkivoc, 2014, 2014, 197-214.	0.5	11
32	Strain-promoted retro-Dieckmann-type condensation on [2.2.2]- and [2.2.1]bicyclic systems: a fragmentation reaction for the preparation of functionalized heterocycles and carbocycles. Organic and Biomolecular Chemistry, 2013, 11, 7016.	2.8	12
33	Synthesis, Biological Evaluation, WAC and NMR Studies of Sâ€Galactosides and Nonâ€Carbohydrate Ligands of Cholera Toxin Based on Polyhydroxyalkylfuroate Moieties. Chemistry - A European Journal, 2013, 19, 17989-18003.	3.3	15
34	Three dimensional structure of a bacterial Î±-l-fucosidase with a 5-membered iminocyclitol inhibitor. Bioorganic and Medicinal Chemistry, 2013, 21, 4751-4754.	3.0	18
35	Exploring a Multivalent Approach to Î±â€<scp>L</scp>â€Fucosidase Inhibition. European Journal of Organic Chemistry, 2013, 2013, 7328-7336.	2.4	26
36	Synthesis and Glycosidase Inhibition Studies of 5â€Methylâ€Substituted Tetrahydroxyindolizidines and â€pyrrolizidines Related to Natural Hyacinthacines B. European Journal of Organic Chemistry, 2013, 2013, 4047-4056.	2.4	31

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37	Synthesis and physicochemical characterization of alkanedyil-Î±-Ï‰-bis(dimethyldodecylammonium) bromide, 12-s-12, 2Brâ¯, surfactants with s= 7, 9, 11 in aqueous medium. Journal of Colloid and Interface Science, 2012, 386, 228-239.	9.4	19
38	Total Asymmetric Synthesis of Monosaccharides and Analogues. Chimia, 2011, 65, 85-90.	0.6	8
39	Exploiting the Ring Strain in Bicyclo[2.2.1]heptane Systems for the Stereoselective Preparation of Highly Functionalized Cyclopentene, Dihydrofuran, Pyrroline, and Pyrrolidine Scaffolds. Organic Letters, 2011, 13, 6244-6247.	4.6	14
40	Amine-linked diglycosides: Synthesis facilitated by the enhanced reactivity of allylic electrophiles, and glycosidase inhibition assays. Beilstein Journal of Organic Chemistry, 2011, 7, 1115-1123.	2.2	7
41	Syntheses and Biological Activities of Iminosugars as α-L-Fucosidase Inhibitors. Current Organic Synthesis, 2011, 8, 102-133.	1.3	24
42	Monosaccharides and Analogues from Simple Achiral Unsaturated Compounds. Chimia, 2011, 65, 91-96.	0.6	3
43	Syntheses and Biological Activities of 1,4-Iminoalditol Derivatives as Î±-L-Fucosidase Inhibitors. Chimia, 2011, 65, 40-44.	0.6	6
44	Diversity-oriented syntheses of 7-substituted lentiginosines. Tetrahedron, 2011, 67, 9555-9564.	1.9	18
45	Physicochemical characterization of bromide mono- and dimeric surfactants with phenyl and cyclohexyl rings in the head group. Journal of Colloid and Interface Science, 2011, 363, 284-294.	9.4	19
46	Total Synthesis of (+)â€Hyacinthacine A₁, (+)â€7aâ€epiâ€Hyacinthacine A₁, (6R)â€6â€Hydroxyhyacinthacine A₁ and (6S)â€6â€Hydroxyâ€7aâ€epiâ€hyacinthacine A₁. European Journal of Organic Chemistry, 2011, 2011, 7155-7162.	2.4	36
47	Synthesis and Biological Evaluation of Modified 2-Deoxystreptamine Dimers. Synthesis, 2011, 2011, 1759-1770.	2.3	1
48	New Methodology for the Stereoselective Synthesis of Î±â€Furfurylamines from Sugars: Application to the Synthesis of Furyl Amino Acids and 3â€Furylisoserines. European Journal of Organic Chemistry, 2010, 2010, 3110-3119.	2.4	4
49	Synthesis of a C₃â€Symmetric Furylâ€Cyclopeptide Platform with Anion Recognition Properties. European Journal of Organic Chemistry, 2010, 2010, 4049-4055.	2.4	9
50	The regioselectivity of the addition of benzeneselenyl chloride to 7-azanorborn-5-ene-2-yl derivatives is controlled by the 2-substituent: new entry into 3- and 4-hydroxy-5-substituted prolines. Tetrahedron, 2010, 66, 7309-7315.	1.9	9
51	Synthesis and inhibitory activities of novel C-3 substituted azafagomines: A new type of selective inhibitors of Î±-l-fucosidases. Bioorganic and Medicinal Chemistry, 2010, 18, 4648-4660.	3.0	16
52	Synthesis of Novel 3-Amino(Hydroxy)methyl-l-fuco-Azafagomines as Leads for Selective Inhibitors of Î±-l-Fucosidases. Synlett, 2010, 2010, 1367-1370.	1.8	0
53	Study of the Micellization and Micellar Growth in Pure Alkanediyl-Î±-Ï‰-Bis(dodecyldimethylammonium) Bromide and MEGA10 Surfactant Solutions and Their Mixtures. Influence of the Spacer on the Enthalpy Change Accompanying Sphere-to-Rod Transitions. Journal of Physical Chemistry B, 2010, 114, 7817-7829.	2.6	19
54	Allenyl Sulfones and Allenyl Sulfides in the Synthesis of 3-Pyrrolines. A Novel Nucleophilic [3 + 2] Cycloaddition on Allenyl Sulfones Giving Rearranged Cycloadducts. Organic Letters, 2009, 11, 4778-4781.	4.6	31

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55	Synthesis of novel pyrrolidine 3,4-diol derivatives as inhibitors of Î±-L-fucosidases. Organic and Biomolecular Chemistry, 2009, 7, 1192.	2.8	42
56	Synthesis and Biological Evaluation of Sâ€Neofucopeptides as Eâ€and Pâ€Selectin Inhibitors. European Journal of Organic Chemistry, 2008, 2008, 2973-2982.	2.4	22
57	De novo Synthesis of Monosaccharides. , 2008, , 857-956.		3
58	Glycosylation Methods in Oligosaccharide Synthesis. Part 1. Current Organic Synthesis, 2008, 5, 33-60.	1.3	21
59	Glycosylation Methods in Oligosaccharide Synthesis. Part 2. Current Organic Synthesis, 2008, 5, 81-116.	1.3	42
60	Synthesis and Conformational Analysis of Novel Trimeric Maleimide Cross-Linking Reagents. Journal of Organic Chemistry, 2007, 72, 6776-6785.	3.2	16
61	Stereoselective synthesis of novel five-membered homoazasugars. A convenient route to all-cis tetrasubstituted pyrrolidines. Tetrahedron Letters, 2007, 48, 159-162.	1.4	10
62	Synthesis and anti-HIV activity of trivalent CD4-mimetic miniproteins. Bioorganic and Medicinal Chemistry, 2007, 15, 4220-4228.	3.0	27
63	Effects of Ethylene Glycol Addition on the Aggregation and Micellar Growth of Gemini Surfactants. Langmuir, 2006, 22, 9519-9525.	3.5	98
64	Cyanodeoxy-Glycosyl Derivatives as Substrates for Enzymatic Reactions. European Journal of Organic Chemistry, 2006, 2006, 1876-1885.	2.4	5
65	Stereoselective Synthesis of Chiral Furan Amino Acid Analogues of d- and l-Serine from d-Sugars. Synlett, 2006, 2006, 1327-1330.	1.8	4
66	Glycosyl azideâ€”a novel substrate for enzymatic transglycosylations. Tetrahedron Letters, 2005, 46, 8715-8718.	1.4	45
67	Synthesis of Aza-C-disaccharides (Dideoxyimino-alditols C-Linked to Monosaccharides) and Analogues. Synthesis, 2005, 2005, 675-702.	2.3	7
68	Stereoselective synthesis of (2S,3S,4R,5S)-5-methylpyrrolidine-3,4-diol derivatives that are highly selective Î±-l-fucosidase inhibitors. Chemical Communications, 2005, , 4949.	4.1	35
69	Stereoselective synthesis of novel tetrahydroxypyrrolizidines. Tetrahedron: Asymmetry, 2004, 15, 323-333.	1.8	22
70	Synthesis ofd- andl-2,3-trans-3,4-cis-4,5-trans-3,4-Dihydroxy-5-hydroxymethylproline and Tripeptides Containing Them. Journal of Organic Chemistry, 2004, 69, 4487-4491.	3.2	23
71	Glycosidase Inhibitors as Potential HIV Entry Inhibitors?. Current Drug Metabolism, 2004, 5, 329-361.	1.2	115
72	Synthesis and Glycosidase Inhibitory Activities of 5-(1â€²,4â€²-Dideoxy-1â€²,4â€²-imino-D-erythrosyl)-2-methyl-3-furoic Acid (=5-[(3S,4R)-3,4-Dihydroxypyrrolidin-2-yl]-2-methylfuran-3-carboxylic Acid) Derivatives: New Leads as Selective -L-Fucosidase and -Galactosidase Inhibitors. Helvetica Chimica Acta, 2003, 86, 1894-1913.	1.6	26

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73	Synthesis and Glycosidase Inhibitory Activity of 7-Deoxycasuarine. Helvetica Chimica Acta, 2003, 86, 3066-3073.	1.6	74
74	The Synthesis of Disaccharides, Oligosaccharides and Analogues Containing Thiosugars. ChemInform, 2003, 34, no.	0.0	0
75	Synthesis and glycosidase inhibitory activities of 2-(aminoalkyl)pyrrolidine-3,4-diol derivatives. Bioorganic and Medicinal Chemistry, 2003, 11, 4897-4911.	3.0	33
76	Stereoselective Syntheses of 1,4-Dideoxy-1,4-imino-octitols and Novel Tetrahydroxyindolizidines. Journal of Organic Chemistry, 2003, 68, 3874-3883.	3.2	38
77	Hetaryleneaminopolyols and Hetarylenecarbopeptoids:â€‰ a New Type of Glyco- and Peptidomimetics. Syntheses and Studies on Solution Conformation and Dynamics. Journal of Organic Chemistry, 2003, 68, 4138-4150.	3.2	23
78	Specific activation of ERK pathways by chitin oligosaccharides in embryonic zebrafish cell lines. Glycobiology, 2003, 13, 725-732.	2.5	23
79	An Efficient Combinatorial Method for the Discovery of Glycosidase Inhibitors The concept and part of the text of this work were presented at the XIth Eurocarb Conference in Lisbon on September 7, 2001, under the title â€œAn Efficient Combinatorial Method for the Discovery of Glycosidase Inhibitors. Imines Equilibrating with (2R,3R,4S)-2-Aminomethyl pyrrolidine-3,4-diol and Aldehydes are Inhibitors of Î±-Mannosidases and Models for the Inhibitory Activity of Corresponding Aminesâ€•. ChemBioChem, 2002, 3, 466.	2.6	51
80	Synthesis of [(2S,3S,4R)-3,4-Dihydroxypyrrolidin-2-yl]-5-methylfuran-4-carboxylic Acid Derivatives: New Leads as Selective Î²-Galactosidase Inhibitors. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2335-2339.	2.2	27
81	Expeditious synthesis of cyclic isourea derivatives of Î²-d-glucopyranosylamine. Tetrahedron Letters, 2002, 43, 4313-4316.	1.4	15
82	A convenient stereoselective route to novel tetrahydroxyindolizidines. Tetrahedron Letters, 2002, 43, 8543-8546.	1.4	10
83	Synthesis and biological evaluation of oligosaccharides related to the molecule signals in plant defence and the Rhizobium-legume symbiosis. Tetrahedron, 2002, 58, 521-530.	1.9	5
84	The Synthesis of Disaccharides, Oligosaccharides and Analogues Containing Thiosugars. Current Organic Chemistry, 2002, 6, 471-491.	1.6	28
85	Synthesis of (1Ã†3)-C and Homo-(1Ã†3)-C-linked Imino-disaccharides Starting from Levoglucosenone and Isolevoglucosenone. Heterocycles, 2002, 56, 181.	0.7	12
86	Solution and solid phase synthesis of hetarylene-carbopeptoids. A new type of peptidomimetics. Tetrahedron Letters, 2001, 42, 1283-1285.	1.4	11
87	A practical one-pot synthesis of O-unprotected glycosyl thioureas. Tetrahedron Letters, 2001, 42, 5413-5416.	1.4	20
88	Reactivity of polyhydroxyalkyl-heterocycles towards Lewis acids. Tetrahedron: Asymmetry, 2001, 12, 3257-3266.	1.8	13
89	Derivatives of (2R,3R,4S)-2-Aminomethylpyrrolidine-3,4-diol are selective Î±-Mannosidase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2489-2493.	2.2	53
90	New leads for selective inhibitors of Î±-l-fucosidases. Synthesis and glycosidase inhibitory activities of [(2R,3S,4R)-3,4-Dihydroxypyrrolidin-2-yl]furan derivatives. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2555-2559.	2.2	43

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91	Synthesis and Biological Properties of Monothiosaccharides. Current Organic Chemistry, 2001, 5, 1177-1214.	1.6	61
92	Synthesis of (Z)-3-Deoxy-3-(1,2,3,6-Tetradeoxy-3,6-Imino-L-Arabino-Hexitol-1-C-Ylidene)-D-Xylo-Hexose Derivatives. First Examples Of Homo-(1â†'3)-C-Linked Iminodisaccharides.. Journal of Carbohydrate Chemistry, 2000, 19, 555-571.	1.1	15
93	Stereoselective synthesis of imidazolidine, imidazoline and imidazole C- and N-pseudonucleosides. Tetrahedron: Asymmetry, 1999, 10, 3011-3023.	1.8	20
94	Synthesis of five-membered homothiosugars derived from l-erythrose and d-mannose. Tetrahedron: Asymmetry, 1999, 10, 3391-3401.	1.8	13
95	Synthesis of 2-acylamino-2-deoxy-d-glucofuranoses and their transformation into hex-2-enofuranoses. Carbohydrate Research, 1999, 322, 284-290.	2.3	1
96	Oxidation of polyhydroxyalkyl - heterocycles by cerium (IV). A convenient route to pyrrole-2,5-dicarbaldehydes. Tetrahedron Letters, 1998, 39, 9271-9274.	1.4	20
97	Introduction ofC-Sulfonate Groups into Disaccharide Derivatives. Synthetic Communications, 1998, 28, 2379-2397.	2.1	11
98	Synthesis and conformational analysis of a lipotetrasaccharide related to the nodulation factor of Rhizobium bacteria. Tetrahedron: Asymmetry, 1997, 8, 1207-1224.	1.8	11
99	Fatty acylamino-trisaccharides. Synthesis and some stereochemical properties. Tetrahedron, 1996, 52, 10771-10784.	1.9	6
100	Synthesis of Glycosyl Acceptors by Regioselective Benzylations of a 2-Deoxy-2-phthalimido-D-glucoside.. Synthetic Communications, 1996, 26, 2847-2856.	2.1	6
101	Regioselective Glycosylation ofN-Protected l-Rhamno(fuco) pyranosylamines: Preparation and Spectroscopic Characterization of Building Blocks for Neoglycoconjugate Syntheses.. Journal of Carbohydrate Chemistry, 1995, 14, 79-93.	1.1	4
102	A d-ribofuranosylenamine as glycosyl acceptor. Carbohydrate Research, 1994, 257, 305-316.	2.3	6
103	Tri-O-benzoyl-Î²-l-rhamnopyranosyl and Î²-l-fucopyranosyl isothiocyanates. Partially protected Î²-l-rhamnopyranosylenamines. Carbohydrate Research, 1993, 247, 165-178.	2.3	9
104	Partially protected D-glucopyranosyl isothiocyanates. Synthesis and transformations into thiourea and heterocyclic derivatives.. Tetrahedron, 1992, 48, 6413-6424.	1.9	35
105	Glucosylenamines as glycosyl acceptors: synthesis of gentiobiosylenamines. Carbohydrate Research, 1992, 232, 47-57.	2.3	14
106	Preparation and properties of 2-deoxyglycosyl isothiocyanates. Tetrahedron, 1991, 47, 5797-5810.	1.9	18
107	Cyclodehydration of 3-(d-manno-pentitol-1-yl)pyrazoles: Synthesis of 3-(d-arabinofuranosyl)pyrazoles. Carbohydrate Research, 1990, 201, 233-240.	2.3	10
108	Diastereoselective conjugate addition of ammonia in the synthesis of chiral pyrrolidines. Journal of the Chemical Society Perkin Transactions 1, 1990, , 2622.	0.9	12

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109	New synthesis of 1-alkyl(aryl)-2,3-dihydro-2-thioxo-1H-imidazole-4-carboxaldehydes. Journal of Organic Chemistry, 1990, 55, 750-753.	3.2	3