Inmaculada Robina

List of Publications by Year in descending order

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236925 330143 2,075 109 25 37 citations h-index g-index papers 131 131 131 1854 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Glycosidase Inhibitors as Potential HIV Entry Inhibitors?. Current Drug Metabolism, 2004, 5, 329-361.	1.2	115
2	Effects of Ethylene Glycol Addition on the Aggregation and Micellar Growth of Gemini Surfactants. Langmuir, 2006, 22, 9519-9525.	3.5	98
3	Synthesis and Glycosidase Inhibitory Activity of 7-Deoxycasuarine. Helvetica Chimica Acta, 2003, 86, 3066-3073.	1.6	74
4	Synthesis and Biological Properties of Monothiosaccharides. Current Organic Chemistry, 2001, 5, 1177-1214.	1.6	61
5	Derivatives of (2R,3R,4S)-2-Aminomethylpyrrolidine-3,4-diol are selective α-Mannosidase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2489-2493. An Efficient Combinatorial Method for the Discovery of Glycosidase Inhibitors The concept and part	2.2	53
6	of the text of this work were presented at the XIth Éurocarb Conference in Lisbon on September 7, 2001, under the title "An 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 α-Mannosidases and Models for the Inhibitory Activity of Corresponding Aminesâ€. ChemBioChem, 2002,	2.6	51
7	3, 466. Glycosyl azide—a novel substrate for enzymatic transglycosylations. Tetrahedron Letters, 2005, 46, 8715-8718.	1.4	45
8	New leads for selective inhibitors of \hat{l}_{\pm} -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
9	Glycosylation Methods in Oligosaccharide Synthesis. Part 2. Current Organic Synthesis, 2008, 5, 81-116.	1.3	42
10	Synthesis of novel pyrrolidine 3,4-diol derivatives as inhibitors of \hat{l}_{\pm} -L-fucosidases. Organic and Biomolecular Chemistry, 2009, 7, 1192.	2.8	42
11	Stereoselective Syntheses of 1,4-Dideoxy-1,4-imino-octitols and Novel Tetrahydroxyindolizidines. Journal of Organic Chemistry, 2003, 68, 3874-3883.	3.2	38
12	Total Synthesis of (+)â€Hyacinthacine A ₁ , (+)â€7aâ€ <i>epi</i> à6€Hyacinthacine A ₁ , (6 <i>R</i>)â€6â€Hydroxyhyacinthacine A ₁ and (6 <i>S</i>)â€6â€Hydroxyâ€7aâ€ <i>epi</i> à6€hyacin A ₁ . European Journal of Organic Chemistry, 2011, 2011, 7155-7162.	th2a∉ine	36
13	Partially protected D-glucopyranosyl isothiocyanates. Synthesis and transformations into thiourea and heterocyclic derivatives Tetrahedron, 1992, 48, 6413-6424.	1.9	35
14	Stereoselective synthesis of (2S,3S,4R,5S)-5-methylpyrrolidine-3,4-diol derivatives that are highly selective \hat{l} ±-l-fucosidase inhibitors. Chemical Communications, 2005, , 4949.	4.1	35
15	Synthesis and glycosidase inhibitory activities of 2-(aminoalkyl)pyrrolidine-3,4-diol derivatives. Bioorganic and Medicinal Chemistry, 2003, 11, 4897-4911.	3.0	33
16	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
17	Mechanistic Insight into the Binding of Multivalent Pyrrolidines to αâ€Mannosidases. Chemistry - A European Journal, 2017, 23, 14585-14596.	3.3	32
18	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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19	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
20	The Synthesis of Disaccharides, Oligosaccharides and Analogues Containing Thiosugars. Current Organic Chemistry, 2002, 6, 471-491.	1.6	28
21	Synthesis of [(2S,3S,4R)-3,4-Dihydroxypyrrolidin-2-yl]-5-methylfuran-4-carboxylic Acid Derivatives: New Leads as Selective \hat{I}^2 -Galactosidase Inhibitors. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2335-2339.	2.2	27
22	Synthesis and anti-HIV activity of trivalent CD4-mimetic miniproteins. Bioorganic and Medicinal Chemistry, 2007, 15, 4220-4228.	3.0	27
23	6-Azido hyacinthacine A ₂ gives a straightforward access to the first multivalent pyrrolizidine architectures. Organic and Biomolecular Chemistry, 2014, 12, 6250.	2.8	27
24	Cycloadditions of Sugarâ€Derived ÂNitrones Targeting Polyhydroxylated Indolizidines. European Journal of Organic Chemistry, 2016, 2016, 1588-1598.	2.4	27
25	Synthesis and Glycosidase Inhibitory Activities of $5-(1\hat{a}\in ^2,4\hat{a}\in ^2-Dideoxy-1\hat{a}\in ^2,4\hat{a}\in ^2-Dideoxy-1\hat{a}\in ^2-Didooxy-1\hat{a}\in ^$	1.6	26
26	Exploring a Multivalent Approach to αâ€ <scp>L</scp> â€Fucosidase Inhibition. European Journal of Organic Chemistry, 2013, 2013, 7328-7336.	2.4	26
27	Tuning of \hat{l}^2 -glucosidase and $\hat{l}\pm$ -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
28	Syntheses and Biological Activities of Iminosugars as α-L-Fucosidase Inhibitors. Current Organic Synthesis, 2011, 8, 102-133.	1.3	24
29	Hetaryleneaminopolyols and Hetarylenecarbopeptoids:  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
30	Specific activation of ERK pathways by chitin oligosaccharides in embryonic zebrafish cell lines. Glycobiology, 2003, 13, 725-732.	2.5	23
31	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
32	Azabicyclic vinyl sulfones for residue-specific dual protein labelling. Chemical Science, 2019, 10, 4515-4522.	7.4	23
33	Stereoselective synthesis of novel tetrahydroxypyrrolizidines. Tetrahedron: Asymmetry, 2004, 15, 323-333.	1.8	22
34	Synthesis and Biological Evaluation of <i>S</i> â€Neofucopeptides as E―and Pâ€Selectin Inhibitors. European Journal of Organic Chemistry, 2008, 2008, 2973-2982.	2.4	22
35	Glycosylation Methods in Oligosaccharide Synthesis. Part 1. Current Organic Synthesis, 2008, 5, 33-60.	1.3	21
36	Oxidation of polyhydroxyalkyl - heterocycles by cerium (IV). A convenient route to pyrrole-2,5-dicarbaldehydes. Tetrahedron Letters, 1998, 39, 9271-9274.	1.4	20

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37	Stereoselective synthesis of imidazolidine, imidazoline and imidazole C- and N-pseudonucleosides. Tetrahedron: Asymmetry, 1999, 10, 3011-3023.	1.8	20
38	A practical one-pot synthesis of O-unprotected glycosyl thioureas. Tetrahedron Letters, 2001, 42, 5413-5416.	1.4	20
39	Study of the Micellization and Micellar Growth in Pure Alkanediyl-α-ω-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
40	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
41	Synthesis and physicochemical characterization of alkanedyil- $\hat{l}\pm\ddot{l}$ %-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
42	Preparation and properties of 2-deoxyglycosyl isothiocyanates. Tetrahedron, 1991, 47, 5797-5810.	1.9	18
43	Diversity-oriented syntheses of 7-substituted lentiginosines. Tetrahedron, 2011, 67, 9555-9564.	1.9	18
44	Three dimensional structure of a bacterial \hat{l} ±-l-fucosidase with a 5-membered iminocyclitol inhibitor. Bioorganic and Medicinal Chemistry, 2013, 21, 4751-4754.	3.0	18
45	Rapid discovery of potent α-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
46	Exploring substituent diversity on pyrrolidine-aryltriazole iminosugars: Structural basis of \hat{l}^2 -glucocerebrosidase inhibition. Bioorganic Chemistry, 2019, 86, 652-664.	4.1	17
47	Synthesis and Conformational Analysis of Novel Trimeric Maleimide Cross-Linking Reagents. Journal of Organic Chemistry, 2007, 72, 6776-6785.	3.2	16
48	Synthesis and inhibitory activities of novel C-3 substituted azafagomines: A new type of selective inhibitors of \hat{l}_{\pm} -l-fucosidases. Bioorganic and Medicinal Chemistry, 2010, 18, 4648-4660.	3.0	16
49	Synthesis of multimeric pyrrolidine iminosugar inhibitors of human \hat{l}^2 -glucocerebrosidase and \hat{l}_2 -galactosidase A: First example of a multivalent enzyme activity enhancer for Fabry disease. European Journal of Medicinal Chemistry, 2020, 192, 112173.	5.5	16
50	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- $(1\hat{a}^{\dagger})$ -C-Linked Iminodisaccharides Journal of Carbohydrate Chemistry, 2000, 19, 555-571.	1.1	15
51	Expeditious synthesis of cyclic isourea derivatives of \hat{l}^2 -d-glucopyranosylamine. Tetrahedron Letters, 2002, 43, 4313-4316.	1.4	15
52	Synthesis, Biological Evaluation, WAC and NMR Studies of <i>S</i> à€Galactosides and Nonâ€Carbohydrate Ligands of Cholera Toxin Based on Polyhydroxyalkylfuroate Moieties. Chemistry - A European Journal, 2013, 19, 17989-18003.	3.3	15
53	Stable Pyrroleâ€Linked Bioconjugates through Tetrazineâ€Triggered Azanorbornadiene Fragmentation. Angewandte Chemie - International Edition, 2020, 59, 6196-6200.	13.8	15
54	Glucosylenamines as glycosyl acceptors: synthesis of gentiobiosylenamines. Carbohydrate Research, 1992, 232, 47-57.	2.3	14

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55	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
56	Synthesis of five-membered homothiosugars derived from l-erythrose and d-mannose. Tetrahedron: Asymmetry, 1999, 10, 3391-3401.	1.8	13
57	Reactivity of polyhydroxyalkyl-heterocycles towards Lewis acids. Tetrahedron: Asymmetry, 2001, 12, 3257-3266.	1.8	13
58	Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. RSC Advances, 2015, 5, 95817-95822.	3.6	13
59	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
60	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
61	Diastereoselective conjugate addition of ammonia in the synthesis of chiral pyrrolidines. Journal of the Chemical Society Perkin Transactions 1, 1990, , 2622.	0.9	12
62	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
63	Exploring architectures displaying multimeric presentations of a trihydroxypiperidine iminosugar. Beilstein Journal of Organic Chemistry, 2015, 11, 2631-2640.	2.2	12
64	Structural basis of the inhibition of GH1 \hat{l}^2 -glucosidases by multivalent pyrrolidine iminosugars. Bioorganic Chemistry, 2019, 89, 103026.	4.1	12
65	Synthesis of $(1\tilde{A}\dagger 3)$ -C and Homo- $(1\tilde{A}\dagger 3)$ -C-linked Imino-disaccharides Starting from Levoglucosenone and Isolevoglucosenone. Heterocycles, 2002, 56, 181.	0.7	12
66	Synthesis and conformational analysis of a lipotetrasaccharide related to the nodulation factor of Rhizobium bacteria. Tetrahedron: Asymmetry, 1997, 8, 1207-1224.	1.8	11
67	Introduction of $\langle i \rangle C \langle j \rangle$ -Sulfonate Groups into Disaccharide Derivatives. Synthetic Communications, 1998, 28, 2379-2397.	2.1	11
68	Solution and solid phase synthesis of hetarylene-carbopeptoids. A new type of peptidomimetics. Tetrahedron Letters, 2001, 42, 1283-1285.	1.4	11
69	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
70	Synthesis and cancer growth inhibitory activities of 2-fatty-alkylated pyrrolidine-3,4-diol derivatives. Arkivoc, 2014, 2014, 197-214.	0.5	11
71	Cyclodehydration of 3-(d-manno-pentitol-1-yl)pyrazoles: Synthesis of 3-(d-arabinofuranosyl)pyrazoles. Carbohydrate Research, 1990, 201, 233-240.	2.3	10
72	A convenient stereoselective route to novel tetrahydroxyindolizidines. Tetrahedron Letters, 2002, 43, 8543-8546.	1.4	10

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73	Stereoselective synthesis of novel five-membered homoazasugars. A convenient route to all-cis tetrasubstituted pyrrolidines. Tetrahedron Letters, 2007, 48, 159-162.	1.4	10
74	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
75	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
76	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
77	Tri-O-benzoyl- \hat{l}^2 -l-rhamnopyranosyl and \hat{l}^2 -l-fucopyranosyl isothiocyanates. Partially protected \hat{l}^2 -l-rhamnopyranosylenamines. Carbohydrate Research, 1993, 247, 165-178.	2.3	9
78	Synthesis of a <i>C</i> ₃ ‧ymmetric Furyl yclopeptide Platform with Anion Recognition Properties. European Journal of Organic Chemistry, 2010, 2010, 4049-4055.	2.4	9
79	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
80	Total Asymmetric Synthesis of Monosaccharides and Analogues. Chimia, 2011, 65, 85-90.	0.6	8
81	Differential modulation of SIRT6 deacetylase and deacylase activities by lysine-based small molecules. Molecular Diversity, 2020, 24, 655-671.	3.9	8
82	Regioselectivity of the 1,3-Dipolar Cycloaddition of Organic Azides to 7-Heteronorbornadienes. Synthesis of \hat{l}^2 -Substituted Furans/Pyrroles. Journal of Organic Chemistry, 2020, 85, 8923-8932.	3.2	8
83	Structure-Based Identification and Biological Characterization of New NAPRT Inhibitors. Pharmaceuticals, 2022, 15, 855.	3.8	8
84	Synthesis of Aza-C-disaccharides (Dideoxyimino-alditols C-Linked to Monosaccharides) and Analogues. Synthesis, 2005, 2005, 675-702.	2.3	7
85	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
86	Discovery of a Potent α-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
87	Stable Pyrroleâ€Linked Bioconjugates through Tetrazineâ€Triggered Azanorbornadiene Fragmentation. Angewandte Chemie, 2020, 132, 6255-6259.	2.0	7
88	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
89	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
90	A d-ribofuranosylenamine as glycosyl acceptor. Carbohydrate Research, 1994, 257, 305-316.	2.3	6

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91	Fatty acylamino-trisaccharides. Synthesis and some stereochemical properties. Tetrahedron, 1996, 52, 10771-10784.	1.9	6
92	Synthesis of Glycosyl Acceptors by Regioselective Benzylations of a 2-Deoxy-2-phthalimido-D-glucoside Synthetic Communications, 1996, 26, 2847-2856.	2.1	6
93	Syntheses and Biological Activities of 1,4-Iminoalditol Derivatives as $\hat{l}\pm$ -L-Fucosidase Inhibitors. Chimia, 2011, 65, 40-44.	0.6	6
94	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
95	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
96	Cyanodeoxy-Glycosyl Derivatives as Substrates for Enzymatic Reactions. European Journal of Organic Chemistry, 2006, 2006, 1876-1885.	2.4	5
97	Regioselective Glycosylation of <i> N < /i > -Protected I-Rhamno (fuco) pyranosylamines: Preparation and Spectroscopic Characterization of Building Blocks for Neoglycoconjugate Syntheses Journal of Carbohydrate Chemistry, 1995, 14, 79-93.</i>	1.1	4
98	Stereoselective Synthesis of Chiral Furan Amino Acid Analogues of d- and l-Serine from d-Sugars. Synlett, 2006, 2006, 1327-1330.	1.8	4
99	New Methodology for the Stereoselective Synthesis of αâ€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
100	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
101	De novo Synthesis of Monosaccharides. , 2008, , 857-956.		3
102	Monosaccharides and Analogues from Simple Achiral Unsaturated Compounds. Chimia, 2011, 65, 91-96.	0.6	3
103	Preparation of water-soluble glycopolymers derived from five-membered iminosugars. European Polymer Journal, 2019, 119, 213-221.	5.4	3
104	Synthesis of Pyrrolidine 3,4-Diol Derivatives with Anticancer Activity on Pancreatic Tumor Cells. Heterocycles, 2014, 88, 1445.	0.7	3
105	Epididymal \hat{l}_{\pm} - l -fucosidase and its possible role in remodelling the surface of bull spermatozoa. Theriogenology, 2017, 104, 134-141.	2.1	2
106	Synthesis of 2-acylamino-2-deoxy-d-glucofuranoses and their transformation into hex-2-enofuranoses. Carbohydrate Research, 1999, 322, 284-290.	2.3	1
107	Synthesis and Biological Evaluation of Modified 2-Deoxystreptamine Dimers. Synthesis, 2011, 2011, 1759-1770.	2.3	1
108	The Synthesis of Disaccharides, Oligosaccharides and Analogues Containing Thiosugars. ChemInform, 2003, 34, no.	0.0	0

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109	Synthesis of Novel 3-Amino (Hydroxy) methyl-l-fuco-Azafagomines as Leads for Selective Inhibitors of \hat{l} ±-l-Fucosidases. Synlett, 2010, 2010, 1367-1370.	1.8	0