

Carmen Ortiz Mellet

List of Publications by Year in descending order

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281
docs citations

281
times ranked

6218
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Cyclodextrin-based gene delivery systems. Chemical Society Reviews, 2011, 40, 1586-1608. | 38.1 | 371 |
| 2 | Cyclodextrin-based multivalent glycodisplays: covalent and supramolecular conjugates to assess carbohydrate-protein interactions. Chemical Society Reviews, 2013, 42, 4746. | 38.1 | 227 |
| 3 | Optimizing Saccharide-Directed Molecular Delivery to Biological Receptors: A Design, Synthesis, and Biological Evaluation of Glycodendrimer-Cyclodextrin Conjugates. Journal of the American Chemical Society, 2004, 126, 10355-10363. | 13.7 | 216 |
| 4 | Glycosidase Inhibition with Fullerene Iminosugar Balls: A Dramatic Multivalent Effect. Angewandte Chemie - International Edition, 2010, 49, 5753-5756. | 13.8 | 174 |
| 5 | Multivalency in heterogeneous glycoenvironments: hetero-glycoclusters, -glycopolymers and -glycoassemblies. Chemical Society Reviews, 2013, 42, 4518-4531. | 38.1 | 143 |
| 6 | Probing Secondary Carbohydrate-Protein Interactions with Highly Dense Cyclodextrin-Centered Heteroglycoclusters: The Heterocluster Effect. Journal of the American Chemical Society, 2005, 127, 7970-7971. | 13.7 | 123 |
| 7 | Glycomimetic-based pharmacological chaperones for lysosomal storage disorders: lessons from Gaucher, GM1-gangliosidosis and Fabry diseases. Chemical Communications, 2016, 52, 5497-5515. | 4.1 | 122 |
| 8 | Multivalent iminosugars to modulate affinity and selectivity for glycosidases. Organic and Biomolecular Chemistry, 2009, 7, 357-363. | 2.8 | 121 |
| 9 | Preorganized, Macromolecular, Gene-Delivery Systems. Chemistry - A European Journal, 2010, 16, 6728-6742. | 3.3 | 108 |
| 10 | Pharmacological Chaperones and Coenzyme Q10 Treatment Improves Mutant β -Glucocerebrosidase Activity and Mitochondrial Function in Neuronopathic Forms of Gaucher Disease. Scientific Reports, 2015, 5, 10903. | 3.3 | 107 |
| 11 | Pharmacological chaperone therapy for Gaucher disease: a patent review. Expert Opinion on Therapeutic Patents, 2011, 21, 885-903. | 5.0 | 106 |
| 12 | Multivalent Cyclooligosaccharides: Versatile Carbohydrate Clusters with Dual Role as Molecular Receptors and Lectin Ligands. Chemistry - A European Journal, 2002, 8, 1982. | 3.3 | 102 |
| 13 | Polycationic Amphiphilic Cyclodextrins for Gene Delivery: Synthesis and Effect of Structural Modifications on Plasmid DNA Complex Stability, Cytotoxicity, and Gene Expression. Chemistry - A European Journal, 2009, 15, 12871-12888. | 3.3 | 96 |
| 14 | Mannosyl-coated nanocomplexes from amphiphilic cyclodextrins and pDNA for site-specific gene delivery. Biomaterials, 2011, 32, 7263-7273. | 11.4 | 96 |
| 15 | The Multivalent Effect in Glycosidase Inhibition: Probing the Influence of Architectural Parameters with Cyclodextrin-based Iminosugar Click Clusters. Chemistry - A European Journal, 2011, 17, 13825-13831. | 3.3 | 93 |
| 16 | Fullerene-C ₂ -Iminosugar Balls as Multimodal Ligands for Lectins and Glycosidases: A Mechanistic Hypothesis for the Inhibitory Multivalent Effect. Chemistry - A European Journal, 2013, 19, 16791-16803. | 3.3 | 90 |
| 17 | Isothiocyanates and cyclic thiocarbamates of β , β -trehalose, sucrose, and cyclomaltooligosaccharides. Carbohydrate Research, 1995, 268, 57-71. | 2.3 | 85 |
| 18 | Insights in cellular uptake mechanisms of pDNA-polycationic amphiphilic cyclodextrin nanoparticles (CDplexes). Journal of Controlled Release, 2010, 143, 318-325. | 9.9 | 85 |

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| 19 | Urea-, Thiourea-, and Guanidine-Linked Glycooligomers as Phosphate Binders in Water. <i>Journal of Organic Chemistry</i> , 2006, 71, 5136-5143. | 3.2 | 82 |
| 20 | Chaperone Activity of Bicyclic Nojirimycin Analogues for Gaucher Mutations in Comparison with α -nonyl)Deoxynojirimycin. <i>ChemBioChem</i> , 2009, 10, 2780-2792. | 2.6 | 82 |
| 21 | Carbohydrate-Based Receptors with Multiple Thiourea Binding Sites. Multipoint Hydrogen Bond Recognition of Dicarboxylates and Monosaccharides. <i>Journal of Organic Chemistry</i> , 2001, 66, 1366-1372. | 3.2 | 81 |
| 22 | Topological Effects and Binding Modes Operating with Multivalent Iminosugar-Based Glycoclusters and Mannosidases. <i>Journal of the American Chemical Society</i> , 2013, 135, 18427-18435. | 13.7 | 80 |
| 23 | Modulation of microglia polarization dynamics during diabetic retinopathy in db / db mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1663-1674. | 3.8 | 80 |
| 24 | Functional Evaluation of Carbohydrate-Centred Glycoclusters by Enzyme-Linked Lectin Assay: Ligands for Concanavalin A. <i>ChemBioChem</i> , 2004, 5, 771-777. | 2.6 | 79 |
| 25 | Rational design of cationic cyclooligosaccharides as efficient gene delivery systems. <i>Chemical Communications</i> , 2008, , 2001. | 4.1 | 79 |
| 26 | β -Cyclodextrin-Based Polycationic Amphiphilic "Click" Clusters: Effect of Structural Modifications in Their DNA Complexing and Delivery Properties. <i>Journal of Organic Chemistry</i> , 2011, 76, 5882-5894. | 3.2 | 78 |
| 27 | Preorganized macromolecular gene delivery systems: amphiphilic β -cyclodextrin "click clusters". <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2681. | 2.8 | 77 |
| 28 | Synthesis and comparative lectin-binding affinity of mannosyl-coated β -cyclodextrin-dendrimer constructs. <i>Chemical Communications</i> , 2000, , 1489-1490. | 4.1 | 76 |
| 29 | Neuronopathic Gaucher's disease: induced pluripotent stem cells for disease modelling and testing chaperone activity of small compounds. <i>Human Molecular Genetics</i> , 2013, 22, 633-645. | 2.9 | 75 |
| 30 | Iminosugar-based glycopolypeptides: glycosidase inhibition with bioinspired glycoprotein analogue micellar self-assemblies. <i>Chemical Communications</i> , 2014, 50, 3350-3352. | 4.1 | 75 |
| 31 | Multi-Mannosides Based on a Carbohydrate Scaffold: Synthesis, Force Field Development, Molecular Dynamics Studies, and Binding Affinities for Lectin Con A. <i>Journal of Organic Chemistry</i> , 2007, 72, 9032-9045. | 3.2 | 73 |
| 32 | 1,2,3-Triazoles and related glycoconjugates as new glycosidase inhibitors. <i>Tetrahedron</i> , 2005, 61, 9118-9128. | 1.9 | 72 |
| 33 | Probing Carbohydrate-Lectin Recognition in Heterogeneous Environments with Monodisperse Cyclodextrin-Based Glycoclusters. <i>Journal of Organic Chemistry</i> , 2012, 77, 1273-1288. | 3.2 | 72 |
| 34 | Synthesis of N-, S-, and C-glycoside castanospermine analogues with selective neutral α -glucosidase inhibitory activity as antitumour agents. <i>Chemical Communications</i> , 2010, 46, 5328. | 4.1 | 71 |
| 35 | A Bicyclic 1-Deoxygalactonojirimycin Derivative as a Novel Pharmacological Chaperone for GM1 Gangliosidosis. <i>Molecular Therapy</i> , 2013, 21, 526-532. | 8.2 | 70 |
| 36 | Carbohydrate supramolecular chemistry: beyond the multivalent effect. <i>Chemical Communications</i> , 2020, 56, 5207-5222. | 4.1 | 70 |

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| 38 | Generalized Anomeric Effect in Action: Synthesis and Evaluation of Stable Reducing Indolizidine Glycomimetics as Glycosidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2000, 65, 136-143. | 3.2 | 65 |
| 39 | Potent Glycosidase Inhibition with Heterovalent Fullerenes: Unveiling the Binding Modes Triggering Multivalent Inhibition. <i>Chemistry - A European Journal</i> , 2016, 22, 11450-11460. | 3.3 | 65 |
| 40 | Carbohydrate Microarrays. <i>ChemBioChem</i> , 2002, 3, 819-822. | 2.6 | 64 |
| 41 | Comparative studies on lectin-carbohydrate interactions in low and high density homo- and heteroglycoclusters. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1849. | 2.8 | 62 |
| 42 | Targeted gene delivery by new folate-polycationic amphiphilic cyclodextrin-DNA nanocomplexes in vitro and in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 390-397. | 4.3 | 62 |
| 43 | pH-Responsive Pharmacological Chaperones for Rescuing Mutant Glycosidases. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11696-11700. | 13.8 | 62 |
| 44 | Chiral 2-thioxotetrahydro-1,3-O,N-heterocycles from carbohydrates. 2. Stereocontrolled synthesis of oxazolidine pseudo-C-nucleosides and bicyclic oxazine-2-thiones. <i>Journal of Organic Chemistry</i> , 1993, 58, 5192-5199. | 3.2 | 61 |
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| 48 | Structural Basis of Pharmacological Chaperoning for Human β -Galactosidase. <i>Journal of Biological Chemistry</i> , 2014, 289, 14560-14568. | 3.4 | 56 |
| 49 | Sugar Thioureas as Anion Receptors. Effect of Intramolecular Hydrogen Bonding in the Carboxylate Binding Properties of Symmetric Sugar Thioureas. <i>Organic Letters</i> , 1999, 1, 1217-1220. | 4.6 | 54 |
| 50 | Tuning glycosidase inhibition through aglycone interactions: pharmacological chaperones for Fabry disease and GM1 gangliosidosis. <i>Chemical Communications</i> , 2012, 48, 6514. | 4.1 | 54 |
| 51 | Cyclodextrin-Scaffolded Glycoclusters. <i>Chemistry - A European Journal</i> , 1998, 4, 2523-2531. | 3.3 | 53 |
| 52 | Bicyclic (galacto)nojirimycin analogues as glycosidase inhibitors: Effect of structural modifications in their pharmacological chaperone potential towards β -glucocerebrosidase. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3698. | 2.8 | 53 |
| 53 | Multivalency as an action principle in multimodal lectin recognition and glycosidase inhibition: a paradigm shift driven by carbon-based glyconanomaterials. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6428-6436. | 5.8 | 53 |
| 54 | Synthesis and Evaluation of Calystegine B2 Analogues as Glycosidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2001, 66, 7604-7614. | 3.2 | 52 |

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| 55 | Polycationic amphiphilic cyclodextrin-based nanoparticles for therapeutic gene delivery. <i>Nanomedicine</i> , 2011, 6, 1697-1707. | 3.3 | 52 |
| 56 | Inhibition of type 1 fimbriae-mediated <i>Escherichia coli</i> adhesion and biofilm formation by trimeric cluster thiomannosides conjugated to diamond nanoparticles. <i>Nanoscale</i> , 2015, 7, 2325-2335. | 5.6 | 52 |
| 57 | N-Thiocarbonyl azasugars: a new family of carbohydrate mimics with controlled anomeric configuration. <i>Chemical Communications</i> , 1997, , 1969. | 4.1 | 51 |
| 58 | sp ² -Aminosugar <i>O</i> -, <i>S</i> -, and <i>N</i> -Glycosides as Conformational Mimics of β -Linked Disaccharides; Implications for Glycosidase Inhibition. <i>Chemistry - A European Journal</i> , 2012, 18, 8527-8539. | 3.3 | 51 |
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| 64 | Glycoligand-targeted core-shell nanospheres with tunable drug release profiles from calixarene-cyclodextrin heterodimers. <i>Chemical Communications</i> , 2014, 50, 7440-7443. | 4.1 | 47 |
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| 67 | Glycosidase inhibition by ring-modified castanospermine analogues: tackling enzyme selectivity by inhibitor tailoring. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2738. | 2.8 | 46 |
| 68 | Di- <i>scpd</i> -fructose Dianhydride-Enriched Caramels: Effect on Colon Microbiota, Inflammation, and Tissue Damage in Trinitrobenzenesulfonic Acid-Induced Colitic Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 6476-6484. | 5.2 | 46 |
| 69 | The Impact of Heteromultivalency in Lectin Recognition and Glycosidase Inhibition: An Integrated Mechanistic Study. <i>Chemistry - A European Journal</i> , 2017, 23, 6295-6304. | 3.3 | 46 |
| 70 | 6-Amino-6-deoxy-5,6-dia- <i>N</i> -(<i>N</i> -(octyliminomethylidene)nojirimycin: Synthesis, Biological Evaluation, and Crystal Structure in Complex with Acid β -Glucosidase. <i>ChemBioChem</i> , 2009, 10, 1480-1485. | 2.6 | 44 |
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| 75 | A mild and efficient procedure to remove acetal and dithioacetal protecting groups in carbohydrate derivatives using 2,3-dichloro-5,6-dicyano-1,4-benzoquinone. Carbohydrate Research, 1995, 274, 263-268. | 2.3 | 41 |
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| 81 | Host-Guest Mediated DNA Templatation of Polycationic Supramolecules for Hierarchical Nanocondensation and the Delivery of Gene Material. Chemistry - A European Journal, 2015, 21, 12093-12104. | 3.3 | 39 |
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| 83 | Di- α -fructose Dianhydride-Enriched Products by Acid Ion-Exchange Resin-Promoted Caramelization of α -Fructose: Chemical Analyses. Journal of Agricultural and Food Chemistry, 2010, 58, 1777-1787. | 5.2 | 38 |
| 84 | Influence of the configurational pattern of sp^2 -iminosugar pseudo N-, S-, O- and C-glycosides on their glycoside inhibitory and antitumor properties. Carbohydrate Research, 2016, 429, 113-122. | 2.3 | 38 |
| 85 | Development of polycationic amphiphilic cyclodextrin nanoparticles for anticancer drug delivery. Beilstein Journal of Nanotechnology, 2017, 8, 1457-1468. | 2.8 | 38 |
| 86 | Synthesis of High-Mannose Oligosaccharide Analogues through Click Chemistry: True Functional Mimics of Their Natural Counterparts Against Lectins?. Chemistry - A European Journal, 2015, 21, 1978-1991. | 3.3 | 37 |
| 87 | Docetaxel-Loaded Nanoparticles Assembled from β -Cyclodextrin/Calixarene Giant Surfactants: Physicochemical Properties and Cytotoxic Effect in Prostate Cancer and Glioblastoma Cells. Frontiers in Pharmacology, 2017, 8, 249. | 3.5 | 37 |
| 88 | Synthesis and Comparative Glycosidase Inhibitory Properties of Reducing Castanospermine Analogues. European Journal of Organic Chemistry, 2005, 2005, 2903-2913. | 2.4 | 36 |
| 89 | Difructose Dianhydrides (DFAs) and DFA-Enriched Products as Functional Foods. Topics in Current Chemistry, 2010, 294, 49-77. | 4.0 | 36 |
| 90 | Conformationally-Locked N -Glycosides with Selective β -Glucosidase Inhibitory Activity: Identification of a New Non-Iminosugar-Type Pharmacological Chaperone for Gaucher Disease. Journal of Medicinal Chemistry, 2012, 55, 6857-6865. | 6.4 | 36 |

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| 91 | A Practical Amine-Free Synthesis of Symmetric Ureas and Thioureas by Self-Condensation of Iso(thio)cyanates. <i>Synthesis</i> , 1999, 1999, 1907-1914. | 2.3 | 35 |
| 92 | (Pseudo)amide-linked oligosaccharide mimetics: molecular recognition and supramolecular properties. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 20. | 2.2 | 35 |
| 93 | Dynamic Self-Assembly of Polycationic Clusters Based on Cyclodextrins for pH-Sensitive DNA Nanocondensation and Delivery by Component Design. <i>Chemistry - A European Journal</i> , 2014, 20, 6622-6627. | 3.3 | 35 |
| 94 | Generalized Anomeric Effect in gem-Diamines: Stereoselective Synthesis of β -N-Linked Disaccharide Mimics. <i>Organic Letters</i> , 2009, 11, 3306-3309. | 4.6 | 34 |
| 95 | Fluorinated Chaperone- β -Cyclodextrin Formulations for β -Glucocerebrosidase Activity Enhancement in Neuronopathic Gaucher Disease. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 1829-1842. | 6.4 | 34 |
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| 104 | Enantiopure 2-Thioxotetrahydro-1,3-O,N-heterocycles from Carbohydrates. 3. Enantiopure C-4 Chiral Oxazine- and Oxazolidine-2-thiones from 3-Deoxy-3-isothiocyanato Sugars. <i>Journal of Organic Chemistry</i> , 1994, 59, 5565-5572. | 3.2 | 32 |
| 105 | Synthesis, conformational flexibility and preliminary complexation behaviour of β , β -trehalose-based macrocycles containing thiourea spacers. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, . | 2.0 | 32 |
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| 109 | Tn Antigen Mimics Based on α -Iminosugars with Affinity for an anti-MUC1 Antibody. <i>Organic Letters</i> , 2016, 18, 3890-3893. | 4.6 | 32 |
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| 120 | Synthesis and Biological Evaluation of Guanidine-Type Iminosugars. <i>Journal of Organic Chemistry</i> , 2008, 73, 1995-1998. | 3.2 | 28 |
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