# Pedro M Nieto

List of Publications by Year
in descending order



| 94 | 3,930 | 117571 | 128225 |
|---|---|---|---|
| papers | citations | 34 h-index | 60 g-index |

| 98 | 98 | 98 | 3833 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Carbon-13 NMR chemical shifts. A single rule to determine the conformation of calix[4]arenes. Journal of Organic Chemistry, 1991, 56, 3372-3376. | 1.7 | 563 |
| 2 | Tachykinins and Tachykinin Receptors: Structure and Activity Relationships. Current Medicinal Chemistry, 2004, 11, 2045-2081. | 1.2 | 274 |
| 3 | Ligandâ€“Receptor Binding Affinities from Saturation Transfer Difference (STD) NMR Spectroscopy: The Binding Isotherm of STD Initial Growth Rates. Chemistry - A European Journal, 2010, 16, 7803-7812. | 1.7 | 161 |
| 4 | STD-NMR: application to transient interactions between biomoleculesâ€”a quantitative approach. European Biophysics Journal, 2011, 40, 1357-1369. | 1.2 | 140 |
| 5 | Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevein domains. Chemistry and Biology, 2000, 7, 529-543. | 6.2 | 131 |
| 6 | Control of Calix[6]arene Conformations by Self-Inclusion of 1,3,5-Tri-O-alkyl Substituents: Synthesis and NMR Studies. Journal of the American Chemical Society, 1994, 116, 5814-5822. | 6.6 | 110 |
| 7 | The Activation of Fibroblast Growth Factors by Heparin: Synthesis, Structure, and Biological Activity of Heparin-Like Oligosaccharides. ChemBioChem, 2001, 2, 673-685. | 1.3 | 89 |
| 8 | Glycodendritic Structures Based on Boltorn Hyperbranched Polymers and Their Interactions with Lens culinaris Lectin. Bioconjugate Chemistry, 2003, 14, 817-823. | 1.8 | 82 |
| 9 | Procedures for the Selective Alkylation of Calix[6]arenes at the Lower Rim. Synthesis, 1993, 1993, 380-386. | 1.2 | 79 |
| 10 | Structure of a Glycomimetic Ligand in the Carbohydrate Recognition Domain of C-type Lectin DC-SIGN. Structural Requirements for Selectivity and Ligand Design. Journal of the American Chemical Society, 2013, 135, 2518-2529. | 6.6 | 75 |
| 11 | 1,2-Mannobioside Mimic: Synthesis, DC-SIGN Interaction by NMR and Docking, and Antiviral Activity. ChemMedChem, 2007, 2, 1030-1036. | 1.6 | 73 |
| 12 | Inositolphosphoglycan Mediators Structurally Related to Glycosyl Phosphatidylinositol Anchors: Synthesis, Structure and Biological Activity. Chemistry - A European Journal, 2000, 6, 3608-3621. | 1.7 | 72 |
| 13 | Nitration of tyrosine 74 prevents human cytochrome c to play a key role in apoptosis signaling by blocking caspase-9 activation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 981-993. | 0.5 | 72 |
| 14 | Mutants of the Arabidopsis thaliana Cation/H+ Antiporter AtNHX1 Conferring Increased Salt Tolerance in Yeast. Journal of Biological Chemistry, 2009, 284, 14276-14285. | 1.6 | 71 |
| 15 | Conformational Flexibility of a Synthetic Glycosylaminoglycan Bound to a Fibroblast Growth Factor. FGF-1 Recognizes Both the 1C4 and 2SO Conformations of a Bioactive Heparin-like Hexasaccharide. Journal of the American Chemical Society, 2005, 127, 5778-5779. | 6.6 | 69 |
| 16 | Saturation Transfer Difference (STD) NMR Spectroscopy Characterization of Dual Binding Mode of a Mannose Disaccharide to DCâ€SIGN. ChemBioChem, 2008, 9, 2225-2227. | 1.3 | 63 |
| 17 | Langerinâ€“Heparin Interaction: Two Binding Sites for Small and Large Ligands As Revealed by a Combination of NMR Spectroscopy and Cross-Linking Mapping Experiments. Journal of the American Chemical Society, 2015, 137, 4100-4110. | 6.6 | 61 |
| 18 | The Activation of Fibroblast Growth Factors (FGFs) by Glycosaminoglycans: Influence of the Sulfation Pattern on the Biological Activity of FGF-1. ChemBioChem, 2004, 5, 55-61. | 1.3 | 59 |

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| 19 | Synthesis of Novel DCâ€SIGN Ligands with an Î±â€Fucosylamide Anchor. ChemBioChem, 2008, 9, 1921-1930. | 1.3 | 58 |
| 20 | Solution NMR structure of a human FGF-1 monomer, activated by a hexasaccharide heparin-analogue. FEBS Journal, 2006, 273, 4716-4727. | 2.2 | 57 |
| 21 | Rational-Differential Design of Highly Specific Glycomimetic Ligands: Targeting DC-SIGN and Excluding Langerin Recognition. ACS Chemical Biology, 2018, 13, 600-608. | 1.6 | 56 |
| 22 | Solution structure and conformational equilibria of a symmetrical calix[6]arene. Complete sequential and cyclostereospecific assignment of the low-temperature NMR spectra of a cycloasymmetric molecule. Journal of Organic Chemistry, 1992, 57, 6924-6931. | 1.7 | 55 |
| 23 | sp<sup>2</sup>â€Iminosugar Oâ€, Sâ€, and Nâ€Glycosides as Conformational Mimics of Î±â€Linked Disaccharides; Implications for Glycosidase Inhibition. Chemistry - A European Journal, 2012, 18, 8527-8539. | 1.7 | 51 |
| 24 | Chondroitin Sulfate Tetrasaccharides: Synthesis, Threeâ€Dimensional Structure and Interaction with Midkine. Chemistry - A European Journal, 2016, 22, 2356-2369. | 1.7 | 45 |
| 25 | A stepwise synthesis of functionalized calix [4]arenes and a calix[6]arene with alternate electron-withdrawing substituents. Tetrahedron, 1990, 46, 671-682. | 1.0 | 42 |
| 26 | Correlated bond rotations in interactions of arginine residues with ligand carboxylate groups in protein ligand complexes. FEBS Letters, 1997, 405, 16-20. | 1.3 | 41 |
| 27 | Synthesis and structural study of two new heparin-like hexasaccharides. Organic and Biomolecular Chemistry, 2003, 1, 2253-2266. | 1.5 | 40 |
| 28 | Heparin Modulates the Mitogenic Activity of Fibroblast Growth Factor by Inducing Dimerization of its Receptor. A 3D View by Using NMR. ChemBioChem, 2013, 14, 1732-1744. | 1.3 | 40 |
| 29 | Synthesis of calix[6]arenes partially functionalized at the upper rim. Tetrahedron, 1995, 51, 12699-12720. | 1.0 | 38 |
| 30 | The activation of fibroblast growth factors by heparin: Synthesis and structural study of rationally modified heparin-like oligosaccharides. Canadian Journal of Chemistry, 2002, 80, 917-936. | 0.6 | 37 |
| 31 | NMR Analysis of the Transient Complex between Membrane Photosystem I and Soluble Cytochrome c6. Journal of Biological Chemistry, 2005, 280, 7925-7931. | 1.6 | 37 |
| 32 | Docking, synthesis, and NMR studies of mannosyl trisaccharide ligands for DC-SIGN lectin. Organic and Biomolecular Chemistry, 2008, 6, 2743. | 1.5 | 37 |
| 33 | Changes in the Expression of Tachykinin Receptors in the Rat Uterus During the Course of Pregnancy1. Biology of Reproduction, 2001, 65, 538-543. | 1.2 | 36 |
| 34 | The heparinâ€“Ca2+ interaction: the influence of the O-sulfation pattern on binding. Carbohydrate Research, 2004, 339, 975-983. | 1.1 | 36 |
| 35 | Synthesis of chondroitin/dermatan sulfate-like oligosaccharides and evaluation of their protein affinity by fluorescence polarization. Organic and Biomolecular Chemistry, 2013, 11, 3510. | 1.5 | 36 |
| 36 | The Interactions of Cyanobacterial Cytochromec6 and Cytochrome f, Characterized by NMR. Journal of Biological Chemistry, 2002, 277, 48685-48689. | 1.6 | 33 |

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| 37 | Dynamic properties of biologically active synthetic heparin-like hexasaccharides. Glycobiology, 2005, 15, 1008-1015. | 1.3 | 33 |
| 38 | Experimental Measurement of Carbohydrateâ€“Aromatic Stacking in Water by Using a Danglingâ€Ended DNA Model System. Chemistry - A European Journal, 2008, 14, 7828-7835. | 1.7 | 33 |
| 39 | Conformational Selection of the AGA*IA<sub>M</sub> Heparin Pentasaccharide when Bound to the Fibroblast Growth Factor Receptor. Chemistry - A European Journal, 2011, 17, 11204-11209. | 1.7 | 32 |
| 40 | Effect of the Substituents of the Neighboring Ring in the Conformational Equilibrium of Iduronate in Heparinâ€like Trisaccharides. Chemistry - A European Journal, 2012, 18, 16319-16331. | 1.7 | 32 |
| 41 | Mimicking Tyrosine Phosphorylation in Human Cytochromeâ€…c by the Evolved tRNA Synthetase Technique. Chemistry - A European Journal, 2015, 21, 15004-15012. | 1.7 | 32 |
| 42 | Calix[4]arene Sulfonates: Palladium-Catalyzed Intermolecular Migration of Sulfonyl Groups and Isolation of a Calix[4]arene in a Chiral 1,2-Alternate Conformation. Journal of Organic Chemistry, 1995, 60, 7419-7423. | 1.7 | 29 |
| 43 | Î±-Alkyl-Î±-Amino-Î²-Lactam Peptides: Design, Synthesis, and Conformational Features. Angewandte Chemie - International Edition, 1999, 38, 3056-3058. | 7.2 | 29 |
| 44 | Synthesis of amine-functionalized heparin oligosaccharides for the investigation of carbohydrateâ€“protein interactions in microtiter plates. Organic and Biomolecular Chemistry, 2012, 10, 2146. | 1.5 | 28 |
| 45 | Insights into the Glycosaminoglycan-Mediated Cytotoxic Mechanism of Eosinophil Cationic Protein Revealed by NMR. ACS Chemical Biology, 2013, 8, 144-151. | 1.6 | 27 |
| 46 | Conformations of the iduronate ring in short heparin fragments described by time-averaged distance restrained molecular dynamics. Glycobiology, 2013, 23, 1220-1229. | 1.3 | 27 |
| 47 | Synthesis of Chondroitin Sulfate Oligosaccharides Using Nâ€(Tetrachlorophthaloyl)â€•and Nâ€(Trifluoroacetyl)galactosamine Building Blocks. European Journal of Organic Chemistry, 2014, 2014, 3868-3884. | 1.2 | 27 |
| 48 | 1H/15N HSQC NMR Studies of Ligand Carboxylate Group Interactions with Arginine Residues in Complexes of Brodimoprim Analogues andLactobacilluscaseiDihydrofolate Reductaseâ€‚. Biochemistry, 1999, 38, 2127-2134. | 1.2 | 26 |
| 49 | The Heparinâˆ’Ca2+ Interaction: Structure of the Ca2+ Binding Site. European Journal of Organic Chemistry, 2002, 2002, 2367. | 1.2 | 26 |
| 50 | A molecular dynamics description of the conformational flexibility of thel-iduronate ring in glycosaminoglycans. Chemical Communications, 2003, , 1512-1513. | 2.2 | 26 |
| 51 | Glycodendrimers as Chondroitin Sulfate Mimetics: Synthesis and Binding to Growth Factor Midkine. Chemistry - A European Journal, 2017, 23, 11338-11345. | 1.7 | 26 |
| 52 | Importance of the polarity of the glycosaminoglycan chain on the interaction with FGF-1. Glycobiology, 2014, 24, 1004-1009. | 1.3 | 24 |
| 53 | 3D structure of a heparin mimetic analogue of a FGF-1 activator. A NMR and molecular modelling study. Organic and Biomolecular Chemistry, 2013, 11, 8269. | 1.5 | 22 |
| 54 | NMR Detection of Arginine-Ligand Interactions in Complexes of Lactobacillus casei Dihydrofolate Reductase. FEBS Journal, 1996, 238, 435-439. | 0.2 | 21 |

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| 55 | Structure and dynamics of the conserved protein GPI anchor core inserted into detergent micelles. Glycobiology, 2006, 16, 969-980. | 1.3 | 21 |
| 56 | Insights into molecular recognition of LewisX mimics by DC-SIGN using NMR and molecular modelling. Organic and Biomolecular Chemistry, 2011, 9, 7705. | 1.5 | 21 |
| 57 | Microwave-assisted sulfonation of heparin oligosaccharides. Tetrahedron Letters, 2011, 52, 441-443. | 0.7 | 21 |
| 58 | Backbone dynamics of a biologically active human FGF-1 monomer, complexed to a hexasaccharide heparin-analogue, by 15N NMR relaxation methods. Journal of Biomolecular NMR, 2006, 35, 225-239. | 1.6 | 20 |
| 59 | GENDER DIMORPHISM AND ALTITUDINAL VARIATION OF SECONDARY COMPOUNDS IN LEAVES OF THE GYNODIOECIOUS SHRUB Daphne laureola. Journal of Chemical Ecology, 2005, 31, 139-150. | 0.9 | 19 |
| 60 | Synthesis and Characterization of Linkerâ€Armed Fucoseâ€Based Glycomimetics. European Journal of Organic Chemistry, 2013, 2013, 5303-5314. | 1.2 | 18 |
| 61 | Synthesis of hyaluronic acid oligosaccharides and exploration of a fluorous-assisted approach. Carbohydrate Research, 2014, 394, 17-25. | 1.1 | 18 |
| 62 | Detection and quantitative analysis of two independent binding modes of a small ligand responsible for DC-SIGN clustering. Organic and Biomolecular Chemistry, 2016, 14, 335-344. | 1.5 | 18 |
| 63 | Interaction of heparin with Ca2+: A model study with a synthetic heparin-like hexasaccharide. Israel Journal of Chemistry, 2000, 40, 289-299. | 1.0 | 17 |
| 64 | Synthesis and Structure of 1-D-6-O-(2-Amino-2-deoxy-Î±- and -Î²-D-gluco- and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (-galactopyra 889-898. | 1.2 | 17 |
| 65 | Dipole moments can be used to determine the conformation of calix[4]arenes. Recueil Des Travaux Chimiques Des Pays-Bas, 1993, 112, 367-369. | 0.0 | 16 |
| 66 | Interplay of Steric Hindrance and Hydrogen Bonding To Restrict Mono-O-substitutedp-tert-Butylcalix[6]arenes in Cone Conformation. Journal of Organic Chemistry, 1998, 63, 1079-1085. | 1.7 | 15 |
| 67 | NMR Structural Studies of Oligosaccharides Related to Cancer Processes. Anti-Cancer Agents in Medicinal Chemistry, 2008, 8, 52-63. | 0.9 | 13 |
| 68 | Interactions between a Heparin Trisaccharide Library and FGF-1 Analyzed by NMR Methods. International Journal of Molecular Sciences, 2017, 18, 1293. | 1.8 | 13 |
| 69 | Synthesis of (1â†'3) Thiodisaccharides of GlcNAc and the Serendipitous Formation of 2,3-Dideoxy-(1â†'2)-thiodisaccharides through a Vinyl Azide Intermediate. Journal of Organic Chemistry, 2020, 85, 306-317. | 1.7 | 13 |
| 70 | The solution conformation of glycosyl inositols related to inositolphosphoglycan (IPG) mediators. Tetrahedron: Asymmetry, 2000, 11, 37-51. | 1.8 | 12 |
| 71 | Polymerâ€Supported Synthesis of Oligosaccharides Using a Diisopropylsiloxane Linker and Trichloroacetimidate Donors. European Journal of Organic Chemistry, 2010, 2010, 2138-2147. | 1.2 | 12 |
| 72 | Exploration of the use of an acylsulfonamide safety-catch linker for the polymer-supported synthesis of hyaluronic acid oligosaccharides. Carbohydrate Research, 2010, 345, 565-571. | 1.1 | 12 |

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| 73 | Improvement on binding of chondroitin sulfate derivatives to midkine by increasing hydrophobicity. Organic and Biomolecular Chemistry, 2016, 14, 3506-3509. | 1.5 | 12 |
| 74 | Fluorous-tag assisted synthesis of a glycosaminoglycan mimetic tetrasaccharide as a high-affinity FGF-2 and midkine ligand. Bioorganic and Medicinal Chemistry, 2018, 26, 1076-1085. | 1.4 | 12 |
| 75 | The Use of NMR to Study Transient Carbohydrateâ€"Protein Interactions. Frontiers in Molecular Biosciences, 2018, 5, 33. | 1.6 | 12 |
| 76 | Conformational Study of GPI Anchors: the Common Oligosaccharide GPI Anchor Backbone. European Journal of Organic Chemistry, 2005, 2005, 3489-3498. | 1.2 | 10 |
| 77 | A Nonâ€damaging Method to Analyze the Configuration and Dynamics of Nitrotyrosines in Proteins. Chemistry - A European Journal, 2012, 18, 3872-3878. | 1.7 | 9 |
| 78 | NMR of Sulfated Oligo- and Polysaccharides. , 0, , 189-229. | | 7 |
| 79 | Midkine Interaction with Chondroitin Sulfate Model Synthetic Tetrasaccharides and Their Mimetics: The Role of Aromatic Interactions. Chemistry - A European Journal, 2021, 27, 12395-12409. | 1.7 | 7 |
| 80 | Second-Generation Dendrimers with Chondroitin Sulfate Type-E Disaccharides as Multivalent Ligands for Langerin. Biomacromolecules, 2020, 21, 2726-2734. | 2.6 | 6 |
| 81 | GAG Multivalent Systems to Interact with Langerin. Current Medicinal Chemistry, 2022, 29, 1173-1192. | 1.2 | 6 |
| 82 | Structures of Glycans Bound to Receptors from Saturation Transfer Difference (STD) NMR Spectroscopy: Quantitative Analysis by Using CORCEMA-ST. Methods in Molecular Biology, 2015, 1273, 475-487. | 0.4 | 5 |
| 83 | NMR studies on carbohydrate interactions with DC-SIGN towards a quantitative STD analysis. Pure and Applied Chemistry, 2013, 85, 1771-1787. | 0.9 | 4 |
| 84 | Flavonoid glycosides from Persea caerulea. Unraveling their interactions with SDSâ€micelles through matrixâ€assisted DOSY, PGSE, mass spectrometry, and NOESY. Magnetic Resonance in Chemistry, 2016, 54, 718-728. | 1.1 | 4 |
| 85 | Synthesis of a Fluorous-Tagged Hexasaccharide and Interaction with Growth Factors Using Sugar-Coated Microplates. Molecules, 2019, 24, 1591. | 1.7 | 4 |
| 86 | Langerin-Heparin Interaction: Analysis of the Binding to the Non-Lectin Site. Natural Product Communications, 2019, 14, 1934578X1985159. | 0.2 | 3 |
| 87 | Unexpected loss of stereoselectivity in glycosylation reactions during the synthesis of chondroitin sulfate oligosaccharides. Beilstein Journal of Organic Chemistry, 2019, 15, 137-144. | 1.3 | 3 |
| 88 | Synthesis, structure and midkine binding of chondroitin sulfate oligosaccharide analogues. Organic and Biomolecular Chemistry, 2021, 19, 5312-5326. | 1.5 | 3 |
| 89 | Fluorous-Tag-Assisted Synthesis of GAG-Like Oligosaccharides. Methods in Molecular Biology, 2022, 2303, 37-47. | 0.4 | 3 |
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| 91 | A STD-NMR Study of the Interaction of the Anabaena Ferredoxin-NADP+ Reductase with the Coenzyme. Molecules, 2014, 19, 672-685. | 1.7 | 1 |
| 92 | Structural and functional changes induced by tyrosine nitration in cytochrome c, a bi-functional protein. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 70. | 0.5 | 0 |
| 93 | Synthesis, self-assembly and Langerin recognition studies of a resorcinarene-based glycocluster exposing a hyaluronic acid thiodisaccharide mimetic. Organic and Biomolecular Chemistry, 2021, 19, 6455-6467. | 1.5 | 0 |
| 94 | Pleiotrophin Interaction with Synthetic Glycosaminoglycan Mimetics. Pharmaceuticals, 2022, 15, 496. | 1.7 | 0 |