

Ana M Poveda

List of Publications by Year in descending order

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62
papers

2,039
citations

257450

24
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254184

43
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64
all docs

64
docs citations

64
times ranked

2504
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison and chemometric analysis of several molecular mechanics force fields and parameter sets applied to carbohydrates. <i>Carbohydrate Research</i> , 1998, 314, 141-155.	2.3	150
2	Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevain domains. <i>Chemistry and Biology</i> , 2000, 7, 529-543.	6.0	131
3	Free and protein-bound carbohydrate structures. <i>Current Opinion in Structural Biology</i> , 1999, 9, 549-555.	5.7	119
4	NMR studies of carbohydrate-protein interactions in solution. <i>Chemical Society Reviews</i> , 1998, 27, 133.	38.1	105
5	Galacto-oligosaccharide Synthesis from Lactose Solution or Skim Milk Using the β -Galactosidase from <i>Bacillus circulans</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 6391-6398.	5.2	96
6	Production of Galacto-oligosaccharides by the β -Galactosidase from <i>Kluyveromyces lactis</i> : Comparative Analysis of Permeabilized Cells versus Soluble Enzyme. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10477-10484.	5.2	92
7	Well-Defined Oligo- and Polysaccharides as Ideal Probes for Structural Studies. <i>Journal of the American Chemical Society</i> , 2018, 140, 5421-5426.	13.7	82
8	Regioselective Lipase-Catalyzed Synthesis of 3-O-Acyl Derivatives of Resveratrol and Study of Their Antioxidant Properties. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 807-813.	5.2	68
9	Levan versus fructooligosaccharide synthesis using the levansucrase from <i>Zymomonas mobilis</i> : Effect of reaction conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 119, 18-25.	1.8	66
10	Enzymatic Synthesis of β -Glucosides of Resveratrol with Surfactant Activity. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1077-1086.	4.3	64
11	Analysis of neofructooligosaccharides production mediated by the extracellular β -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Bioresource Technology</i> , 2012, 109, 123-130.	9.6	61
12	The conformation of C-glycosyl compounds. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2000, 56, 235-284.	0.9	59
13	Epoxide Opening versus Silica Condensation during Sol-Gel Hybrid Biomaterial Synthesis. <i>Chemistry - A European Journal</i> , 2013, 19, 7856-7864.	3.3	59
14	Carbonate hydroxyapatite functionalization: a comparative study towards (bio)molecules fixation. <i>Interface Focus</i> , 2014, 4, 20130040.	3.0	53
15	Solution conformation and dynamics of a tetrasaccharide related to the Lewis(x) antigen deduced by NMR relaxation measurements. <i>Journal of Biomolecular NMR</i> , 1997, 10, 29-43.	2.8	46
16	Asymmetric Synthesis of Indolines through Intramolecular Shifting of Aromatic Sulfinyl Groups. Role of the π - π -Stacking Interactions in these Unusual S_NAr Processes. <i>Journal of the American Chemical Society</i> , 2009, 131, 9432-9441.	13.7	38
17	Experimental and computational studies on the mechanism of the Pd-catalyzed $C(sp^3)$ - H β -arylation of amino acid derivatives assisted by the 2-pyridylsulfonyl group. <i>Chemical Science</i> , 2014, 5, 3873-3882.	7.4	38
18	Structure of complex cell wall polysaccharides isolated from <i>Trichoderma</i> and <i>Hypocrea</i> species. <i>Carbohydrate Research</i> , 1997, 304, 281-291.	2.3	37

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19	Light-Induced Aminocarbene to Imine Dyotropic Rearrangement in a Chromium(0) Center: An Unprecedented Reaction Pathway. <i>Journal of the American Chemical Society</i> , 2003, 125, 9572-9573.	13.7	37
20	Synthesis and Conformational Analysis of a Conformationally Constrained Trisaccharide, and Complexation Properties with Concanavalin A. <i>Chemistry - A European Journal</i> , 1999, 5, 2281-2294.	3.3	36
21	Production of fructooligosaccharides by mycelium-bound transfructosylation activity present in <i>Cladosporium cladosporioides</i> and <i>Penicillium sizovae</i> . <i>Process Biochemistry</i> , 2014, 49, 2174-2180.	3.7	36
22	New chiral crown ethers derived from camphor and their application to asymmetric Michael addition. First attempts to rationalize enantioselection by AM1 and AMBER calculations. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 935-948.	1.8	34
23	Enzymatic Synthesis of a Novel Neuroprotective Hydroxytyrosyl Glycoside. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10526-10533.	5.2	30
24	Interactions of Bacterial Cell Division Protein FtsZ with C8-Substituted Guanine Nucleotide Inhibitors. A Combined NMR, Biochemical and Molecular Modeling Perspective. <i>Journal of the American Chemical Society</i> , 2013, 135, 16418-16428.	13.7	28
25	Selective Synthesis of Galactooligosaccharides Containing $\beta(1\rightarrow3)$ Linkages with β -Galactosidase from <i>Bifidobacterium bifidum</i> (Saphera). <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4930-4938.	5.2	27
26	Conformational Behavior of C-Glycosyl Analogues of Sialyl- $\beta(2\rightarrow3)$ -Galactose. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 1805-1813.	2.4	24
27	Stereodivergent Quaternization of α -alkyl- α -tolylsulfanylacetonitriles: NMR Spectroscopic Evidence of Planar and Pyramidal Benzylic Carbanions. <i>Chemistry - A European Journal</i> , 2010, 16, 6317-6325.	3.3	24
28	Studies on the structure and the solution conformation of an acidic extracellular polysaccharide isolated from <i>Bradyrhizobium</i> . <i>Carbohydrate Research</i> , 1997, 304, 209-217.	2.3	21
29	Efficient β -Glucosylation of Epigallocatechin Gallate Catalyzed by Cyclodextrin Glucanotransferase from <i>Thermoanaerobacter</i> Species. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 7402-7408.	5.2	20
30	Optimization of Regioselective β -Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. <i>Molecules</i> , 2018, 23, 2885.	3.8	19
31	Enzymatic Synthesis of a Novel Pterostilbene β -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , 2018, 23, 1271.	3.8	19
32	Solution conformation dynamics of a tetrasaccharide related to the Lewisx antigen deduced by ^1H NMR NOESY, ROESY, and T-ROESY measurements. <i>Carbohydrate Research</i> , 1997, 300, 3-10.	2.3	18
33	NMR experiments for the detection of NOEs and scalar coupling constants between equivalent protons in trehalose-containing molecules. <i>Carbohydrate Research</i> , 1997, 301, 5-10.	2.3	18
34	Regioselective synthesis of neo-erlose by the β -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Process Biochemistry</i> , 2014, 49, 423-429.	3.7	18
35	Conformational Plasticity in Glycomimetics: Fluorocarbamethylidopyranosides Mimic the Intrinsic Dynamic Behaviour of Natural Idose Rings. <i>Chemistry - A European Journal</i> , 2015, 21, 10513-10521.	3.3	16
36	Exploring the transferase activity of Ffase from <i>Schwanniomyces occidentalis</i> , a β -fructofuranosidase showing high fructosyl-acceptor promiscuity. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8769-8778.	3.6	16

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37	Exploiting structure–activity relationships of QS-21 in the design and synthesis of streamlined saponin vaccine adjuvants. <i>Chemical Communications</i> , 2020, 56, 719-722.	4.1	16
38	Applications of nuclear magnetic resonance spectroscopy and molecular modeling to the study of protein-carbohydrate interactions. <i>Journal of Molecular Graphics and Modelling</i> , 1997, 15, 9-17.	2.4	15
39	Anti-inflammatory properties of phenolic lactones isolated from <i>Caesalpinia paraguariensis</i> stem bark. <i>Journal of Ethnopharmacology</i> , 2013, 147, 63-73.	4.1	15
40	Efficient production of isomelezitose by a glucosyltransferase activity in <i>Metschnikowia reukaufii</i> cell extracts. <i>Microbial Biotechnology</i> , 2019, 12, 1274-1285.	4.2	15
41	Fructosylation of Hydroxytyrosol by the Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> : Insights into the Molecular Basis of the Enzyme Specificity. <i>ChemCatChem</i> , 2018, 10, 4878-4887.	3.7	14
42	New one-step process for the synthesis of functionalized 1,6-dioxaspiro[4,5]decanes. <i>Tetrahedron</i> , 1995, 51, 8507-8524.	1.9	13
43	Glycans in Infectious Diseases. A Molecular Recognition Perspective. <i>Current Medicinal Chemistry</i> , 2017, 24, 4057-4080.	2.4	13
44	The Acidity of a Carbon Nucleophile Dictates Enantioselectivity and Reactivity in Michael Additions to Aromatic and Aliphatic Enals via Iminium Activation. <i>ACS Catalysis</i> , 2018, 8, 22-34.	11.2	13
45	Exploration of the conformational flexibility of the LeX-related oligosaccharide <i>Chemical Communications</i> , 1996, , 421-422.	4.1	12
46	Solution conformation and dynamics of an extracellular polysaccharide isolated from <i>Bradyrhizobium</i> as deduced from 1H-NMR off resonance ROESY and 13C-NMR relaxation measurements. <i>Carbohydrate Research</i> , 1997, 304, 219-228.	2.3	10
47	Solution conformation and dynamics of a fungal cell wall polysaccharide isolated from <i>Microsporium gypseum</i> . <i>Glycoconjugate Journal</i> , 1998, 15, 309-321.	2.7	10
48	Synthesis, Conformational Analysis, and Complexation Study of an Iminosugar-Aza-Crown, a Sweet Chiral Cyclam Analog. <i>Organic Letters</i> , 2020, 22, 2344-2349.	4.6	10
49	Isolation and characterization of an exopolymer produced by <i>Bacillus licheniformis</i> : In vitro antiviral activity against enveloped viruses. <i>Carbohydrate Polymers</i> , 2020, 248, 116737.	10.2	10
50	Enzymatic Synthesis of Phloretin Glucosides Using a Sucrose Phosphorylase Mutant and its Effect on Solubility, Antioxidant Properties and Skin Absorption. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3079-3089.	4.3	10
51	Electrophoretic behavior and size distribution of the acidic polysaccharides produced by the bacteria <i>Bradyrhizobium</i> (<i>Chamaecytisus</i>) strain BGA-1 and <i>Bradyrhizobium japonicum</i> USDA 110. <i>Electrophoresis</i> , 1998, 19, 2621-2624.	2.4	8
52	Control of disaccharide conformation by π -stacking. <i>Canadian Journal of Chemistry</i> , 2003, 81, 364-375.	1.1	8
53	Cooperative Hydrogen Bonding in Glyco-Oligoamides: DNA Minor Groove Binders in Aqueous Media. <i>Chemistry - A European Journal</i> , 2014, 20, 17640-17652.	3.3	8
54	The Flexibility of Oligosaccharides Unveiled Through Residual Dipolar Coupling Analysis. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 784318.	3.5	7

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55	Zwitterionic Polysaccharides of <i>Shigella sonnei</i> : Synthetic Study toward a Ready-for-Oligomerization Building Block Made of Two Rare Amino Sugars. <i>Synthesis</i> , 2018, 50, 4270-4282.	2.3	6
56	Polyglucosylation of Rutin Catalyzed by Cyclodextrin Glucanotransferase from <i>Geobacillus</i> sp.: Optimization and Chemical Characterization of Products. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18651-18659.	3.7	6
57	Introducing the Catalytic Amination of Silanes via Nitrene Insertion. <i>Journal of the American Chemical Society</i> , 2022, 144, 10608-10614.	13.7	6
58	Iminosugar C-glycosides Work as Pharmacological Chaperones of NAGLU, a Glycosidase Involved in MPS IIIB Rare Disease**. <i>Chemistry - A European Journal</i> , 2021, 27, 11291-11297.	3.3	4
59	Recent advances in the application of NMR methods to uncover the conformation and recognition features of glycans. <i>Carbohydrate Chemistry</i> , 0, , 47-82.	0.3	2
60	Synthesis and chelation study of a fluoroionophore and a glycopeptide based on an aza crown iminosugar structure. <i>Carbohydrate Research</i> , 2021, 501, 108258.	2.3	1
61	Diastereodivergent Synthesis of Benzylic Quaternary Centers Mediated by a Remote Sulfinyl Group: Spectroscopic Evidence of the Structure of the Carbanionic Intermediates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 1119-1129.	1.6	0
62	Recent advances in the application of NMR methodologies to analyze the conformation, dynamics, and interactions of saccharides. <i>Carbohydrate Chemistry</i> , 2020, , 170-194.	0.3	0