

Jesus Angulo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

2,158
citations

27
h-index

42
g-index

100
ext. papers

2,511
ext. citations

6
avg, IF

4.8
L-index

#	Paper	IF	Citations
92	Cross-reactivity of glycan-reactive HIV-1 broadly neutralizing antibodies with parasite glycans.. <i>Cell Reports</i> , 2022 , 38, 110611	10.6	0
91	Spin diffusion transfer difference (SDTD) NMR: An advanced method for the characterisation of water structuration within particle networks. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 217-227 ^{9.3}		2
90	Fucosidases from the human gut symbiont <i>Ruminococcus gnavus</i> . <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 675-693	10.3	17
89	Chemoenzymatic Synthesis of Fluorinated Cellodextrins Identifies a New Allomorph for Cellulose-Like Materials*. <i>Chemistry - A European Journal</i> , 2021 , 27, 1374-1382	4.8	10
88	Fucosyltransferase-specific inhibition via next generation of fucose mimetics. <i>Chemical Communications</i> , 2021 , 57, 1145-1148	5.8	0
87	Self-acetylation at the active site of phosphoenolpyruvate carboxykinase (PCK1) controls enzyme activity. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100205	5.4	1
86	FUT8-Directed Core Fucosylation of N-glycans Is Regulated by the Glycan Structure and Protein Environment. <i>ACS Catalysis</i> , 2021 , 11, 9052-9065	13.1	3
85	Molecular Recognition of Natural and Non-Natural Substrates by Cellodextrin Phosphorylase from <i>Ruminiclostridium Thermocellum</i> Investigated by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021 , 27, 15688-15698	4.8	2
84	Multifrequency STD NMR Unveils the Interactions of Antibiotics With Biofilm Exopolysaccharide. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 727980	5.6	1
83	Structural basis of trehalose recognition by the mycobacterial LpqY-SugABC transporter. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100307	5.4	3
82	NleB/SseK-catalyzed arginine-glycosylation and enteropathogen virulence are finely tuned by a single variable position contiguous to the catalytic machinery. <i>Chemical Science</i> , 2021 , 12, 12181-12191	9.4	2
81	The human gut symbiont <i>Ruminococcus gnavus</i> shows specificity to blood group A antigen during mucin glycan foraging: Implication for niche colonisation in the gastrointestinal tract.. <i>PLoS Biology</i> , 2021 , 19, e3001498	9.7	3
80	Hydrophobization of Cellulose Nanocrystals for Aqueous Colloidal Suspensions and Gels. <i>Biomacromolecules</i> , 2020 , 21, 1812-1823	6.9	18
79	Uncovering a novel molecular mechanism for scavenging sialic acids in bacteria. <i>Journal of Biological Chemistry</i> , 2020 , 295, 13724-13736	5.4	12
78	Multifunctional nanoassemblies target bacterial lipopolysaccharides for enhanced antimicrobial DNA delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 195, 111266	6	1
77	Saturation transfer difference NMR on the integral trimeric membrane transport protein GltPh determines cooperative substrate binding. <i>Scientific Reports</i> , 2020 , 10, 16483	4.9	4
76	Exploring Multi-Subsite Binding Pockets in Proteins: DEEP-STD NMR Fingerprinting and Molecular Dynamics Unveil a Cryptic Subsite at the GM1 Binding Pocket of Cholera Toxin B. <i>Chemistry - A European Journal</i> , 2020 , 26, 10024-10034	4.8	3

75	Bug Off Pain: An Educational Virtual Reality Game on Spider Venoms and Chronic Pain for Public Engagement. <i>Journal of Chemical Education</i> , 2019 , 96, 1486-1490	2.4	12
74	Identification of selective protein-protein interaction inhibitors using efficient peptide-directed ligand design. <i>Chemical Science</i> , 2019 , 10, 4502-4508	9.4	7
73	Mapping a novel positive allosteric modulator binding site in the central vestibule region of human P2X7. <i>Scientific Reports</i> , 2019 , 9, 3231	4.9	13
72	Tunable Supramolecular Gel Properties by Varying Thermal History. <i>Chemistry - A European Journal</i> , 2019 , 25, 7881-7887	4.8	19
71	Unravelling the Specificity of Laminaribiose Phosphorylase from <i>Paenibacillus</i> sp. YM-1 towards Donor Substrates Glucose/Mannose 1-Phosphate by Using X-ray Crystallography and Saturation Transfer Difference NMR Spectroscopy. <i>ChemBioChem</i> , 2019 , 20, 181-192	3.8	11
70	Structural Basis of Glycerophosphodiester Recognition by the Substrate-Binding Protein UgpB. <i>ACS Chemical Biology</i> , 2019 , 14, 1879-1887	4.9	8
69	Self-Correcting Method for the Measurement of Free Calcium and Magnesium Concentrations by H NMR. <i>Analytical Chemistry</i> , 2019 , 91, 14442-14450	7.8	2
68	Elucidation of a sialic acid metabolism pathway in mucus-foraging <i>Ruminococcus gnavus</i> unravels mechanisms of bacterial adaptation to the gut. <i>Nature Microbiology</i> , 2019 , 4, 2393-2404	26.6	47
67	Spatially Resolved STD-NMR Applied to the Study of Solute Transport in Biphasic Systems: Application to Protein-Ligand Interactions. <i>Natural Product Communications</i> , 2019 , 14, 1934578X1984978	8.9	1
66	STD NMR as a Technique for Ligand Screening and Structural Studies. <i>Methods in Enzymology</i> , 2019 , 615, 423-451	1.7	16
65	Serine-rich repeat protein adhesins from <i>Lactobacillus reuteri</i> display strain specific glycosylation profiles. <i>Glycobiology</i> , 2019 , 29, 45-58	5.8	8
64	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. <i>Cellulose</i> , 2019 , 26, 529-542	5.5	19
63	Deriving Ligand Orientation in Weak Protein-Ligand Complexes by DEEP-STD NMR Spectroscopy in the Absence of Protein Chemical-Shift Assignment. <i>ChemBioChem</i> , 2019 , 20, 340-344	3.8	12
62	Ginsenosides Act As Positive Modulators of P2X4 Receptors. <i>Molecular Pharmacology</i> , 2019 , 95, 210-221	4.3	16
61	Understanding heat driven gelation of anionic cellulose nanofibrils: Combining saturation transfer difference (STD) NMR, small angle X-ray scattering (SAXS) and rheology. <i>Journal of Colloid and Interface Science</i> , 2019 , 535, 205-213	9.3	21
60	Structural basis for the role of serine-rich repeat proteins from in gut microbe-host interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2706-E2715	11.5	24
59	Surfactant controlled zwitterionic cellulose nanofibril dispersions. <i>Soft Matter</i> , 2018 , 14, 7793-7800	3.6	13
58	Structural basis for arginine glycosylation of host substrates by bacterial effector proteins. <i>Nature Communications</i> , 2018 , 9, 4283	17.4	33

57	Discovery of Small Molecule WWP2 Ubiquitin Ligase Inhibitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 17677-17680	4.8	13
56	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19318-19322	9.5	23
55	Supramolecular Amino Acid Based Hydrogels: Probing the Contribution of Additive Molecules using NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2017 , 23, 8014-8024	4.8	28
54	Cytotoxicity of Pyrazine-Based Cyclometalated (C ^N C)Au(III) Carbene Complexes: Impact of the Nature of the Ancillary Ligand on the Biological Properties. <i>Inorganic Chemistry</i> , 2017 , 56, 5728-5740	5.1	42
53	Differential Epitope Mapping by STD NMR Spectroscopy To Reveal the Nature of Protein-Ligand Contacts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15289-15293	16.4	42
52	Differential Epitope Mapping by STD NMR Spectroscopy To Reveal the Nature of Protein-Ligand Contacts. <i>Angewandte Chemie</i> , 2017 , 129, 15491-15495	3.6	13
51	Unravelling the specificity and mechanism of sialic acid recognition by the gut symbiont Ruminococcus gnavus. <i>Nature Communications</i> , 2017 , 8, 2196	17.4	44
50	Spin Saturation Transfer Difference NMR (SSTD NMR): A New Tool to Obtain Kinetic Parameters of Chemical Exchange Processes. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	3
49	Unveiling the "Three-Finger Pharmacophore" Required for p53-MDM2 Inhibition by Saturation-Transfer Difference (STD) NMR Initial Growth-Rates Approach. <i>Chemistry - A European Journal</i> , 2016 , 22, 5858-62	4.8	7
48	Detection and quantitative analysis of two independent binding modes of a small ligand responsible for DC-SIGN clustering. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 335-44	3.9	13
47	Correction: Substituent interference on supramolecular assembly in urea gelators: synthesis, structure prediction and NMR. <i>Soft Matter</i> , 2016 , 12, 5489	3.6	1
46	Substituent interference on supramolecular assembly in urea gelators: synthesis, structure prediction and NMR. <i>Soft Matter</i> , 2016 , 12, 4034-43	3.6	19
45	Kinetics of intramolecular chemical exchange by initial growth rates of spin saturation transfer difference experiments (SSTD NMR). <i>Chemical Communications</i> , 2015 , 51, 10222-5	5.8	8
44	Langerin-heparin interaction: two binding sites for small and large ligands as revealed by a combination of NMR spectroscopy and cross-linking mapping experiments. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4100-10	16.4	51
43	Assembling different antennas of the gp120 high mannose-type glycans on gold nanoparticles provides superior binding to the anti-HIV antibody 2G12 than the individual antennas. <i>Carbohydrate Research</i> , 2015 , 405, 102-9	2.9	20
42	Structures of glycans bound to receptors from saturation transfer difference (STD) NMR spectroscopy: quantitative analysis by using CORCEMA-ST. <i>Methods in Molecular Biology</i> , 2015 , 1273, 475-87	1.4	5
41	A STD-NMR study of the interaction of the Anabaena ferredoxin-NADP ⁺ reductase with the coenzyme. <i>Molecules</i> , 2014 , 19, 672-85	4.8	1
40	Importance of the polarity of the glycosaminoglycan chain on the interaction with FGF-1. <i>Glycobiology</i> , 2014 , 24, 1004-9	5.8	24

39	The binding of TIA-1 to RNA C-rich sequences is driven by its C-terminal RRM domain. <i>RNA Biology</i> , 2014 , 11, 766-76	4.8	12
38	NMR Techniques for the Study of Transient Intermolecular Interactions 2014 , 325-360		1
37	Selective targeting of dendritic cell-specific intercellular adhesion molecule-3-grabbing nonintegrin (DC-SIGN) with mannose-based glycomimetics: synthesis and interaction studies of bis(benzylamide) derivatives of a pseudomannobioside. <i>Chemistry - A European Journal</i> , 2013 , 19, 4786-97	4.8	41
36	Synthesis, biological evaluation, WAC and NMR studies of S-galactosides and non-carbohydrate ligands of cholera toxin based on polyhydroxyalkylfuroate moieties. <i>Chemistry - A European Journal</i> , 2013 , 19, 17989-8003	4.8	8
35	Structure of a glycomimetic ligand in the carbohydrate recognition domain of C-type lectin DC-SIGN. Structural requirements for selectivity and ligand design. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2518-29	16.4	65
34	Synthesis of chondroitin/dermatan sulfate-like oligosaccharides and evaluation of their protein affinity by fluorescence polarization. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3510-25	3.9	33
33	Insights into the glycosaminoglycan-mediated cytotoxic mechanism of eosinophil cationic protein revealed by NMR. <i>ACS Chemical Biology</i> , 2013 , 8, 144-51	4.9	24
32	NMR studies on carbohydrate interactions with DC-SIGN towards a quantitative STD analysis. <i>Pure and Applied Chemistry</i> , 2013 , 85, 1771-1787	2.1	3
31	Conformations of the iduronate ring in short heparin fragments described by time-averaged distance restrained molecular dynamics. <i>Glycobiology</i> , 2013 , 23, 1220-9	5.8	22
30	3D structure of a heparin mimetic analogue of a FGF-1 activator. A NMR and molecular modelling study. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 8269-75	3.9	22
29	Synthesis of amine-functionalized heparin oligosaccharides for the investigation of carbohydrate-protein interactions in microtiter plates. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2146-63	3.9	27
28	Effect of the substituents of the neighboring ring in the conformational equilibrium of iduronate in heparin-like trisaccharides. <i>Chemistry - A European Journal</i> , 2012 , 18, 16319-31	4.8	27
27	STD NMR study of the interactions between antibody 2G12 and synthetic oligomannosides that mimic selected branches of gp120 glycans. <i>ChemBioChem</i> , 2012 , 13, 1357-65	3.8	10
26	sp ² -Iminosugar O-, S-, and N-glycosides as conformational mimics of linked disaccharides; implications for glycosidase inhibition. <i>Chemistry - A European Journal</i> , 2012 , 18, 8527-39	4.8	44
25	Insights into molecular recognition of Lewis(X) mimics by DC-SIGN using NMR and molecular modelling. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 7705-12	3.9	19
24	Gold nanoparticles coated with oligomannosides of HIV-1 glycoprotein gp120 mimic the carbohydrate epitope of antibody 2G12. <i>Journal of Molecular Biology</i> , 2011 , 410, 798-810	6.5	69
23	STD-NMR: application to transient interactions between biomolecules-a quantitative approach. <i>European Biophysics Journal</i> , 2011 , 40, 1357-69	1.9	110
22	A solution NMR study of the interactions of oligomannosides and the anti-HIV-1 2G12 antibody reveals distinct binding modes for branched ligands. <i>Chemistry - A European Journal</i> , 2011 , 17, 1547-60	4.8	42

21	Ligand-receptor binding affinities from saturation transfer difference (STD) NMR spectroscopy: the binding isotherm of STD initial growth rates. <i>Chemistry - A European Journal</i> , 2010 , 16, 7803-12	4.8	133
20	Carbohydrate-carbohydrate interaction prominence in 3D supramolecular self-assembly. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11595-600	3.4	16
19	Saturation transfer difference (STD) NMR spectroscopy characterization of dual binding mode of a mannose disaccharide to DC-SIGN. <i>ChemBioChem</i> , 2008 , 9, 2225-7	3.8	56
18	Fragment-based screening of the donor substrate specificity of human blood group B galactosyltransferase using saturation transfer difference NMR. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32728-40	5.4	25
17	NMR analysis of carbohydrate-protein interactions. <i>Methods in Enzymology</i> , 2006 , 416, 12-30	1.7	30
16	Blood group B galactosyltransferase: insights into substrate binding from NMR experiments. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13529-38	16.4	64
15	Solution NMR structure of a human FGF-1 monomer, activated by a hexasaccharide heparin-analogue. <i>FEBS Journal</i> , 2006 , 273, 4716-27	5.7	53
14	Backbone dynamics of a biologically active human FGF-1 monomer, complexed to a hexasaccharide heparin-analogue, by 15N NMR relaxation methods. <i>Journal of Biomolecular NMR</i> , 2006 , 35, 225-39	3	17
13	Conformational flexibility of a synthetic glycosylaminoglycan bound to a fibroblast growth factor. FGF-1 recognizes both the (1)C(4) and (2)S(O) conformations of a bioactive heparin-like hexasaccharide. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5778-9	16.4	67
12	Neutralization of a common cold virus by concatemers of the third ligand binding module of the VLDL-receptor strongly depends on the number of modules. <i>Virology</i> , 2005 , 338, 259-69	3.6	31
11	The conformational behaviour of trehalose-like disaccharides and their C-glycosyl, imino-C-glycosyl and carbagalactose analogues depends on the chemical nature of the modification: an NMR investigation. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 519-527		16
10	Dynamic properties of biologically active synthetic heparin-like hexasaccharides. <i>Glycobiology</i> , 2005 , 15, 1008-15	5.8	33
9	The activation of fibroblast growth factors (FGFs) by glycosaminoglycans: influence of the sulfation pattern on the biological activity of FGF-1. <i>ChemBioChem</i> , 2004 , 5, 55-61	3.8	57
8	The heparin-Ca(2+) interaction: the influence of the O-sulfation pattern on binding. <i>Carbohydrate Research</i> , 2004 , 339, 975-83	2.9	34
7	Synthesis and structural study of two new heparin-like hexasaccharides. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2253-66	3.9	35
6	A molecular dynamics description of the conformational flexibility of the L-iduronate ring in glycosaminoglycans. <i>Chemical Communications</i> , 2003 , 1512-3	5.8	25
5	The Heparin-Ca ²⁺ Interaction: Structure of the Ca ²⁺ Binding Site. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 2367	3.2	26
4	The activation of fibroblast growth factors by heparin: Synthesis and structural study of rationally modified heparin-like oligosaccharides. <i>Canadian Journal of Chemistry</i> , 2002 , 80, 917-936	0.9	30

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| 3 | The activation of fibroblast growth factors by heparin: synthesis, structure, and biological activity of heparin-like oligosaccharides. <i>ChemBioChem</i> , 2001 , 2, 673-85 | 3.8 | 83 |
| 2 | The solution conformation of glycosyl inositols related to inositolphosphoglycan (IPG) mediators. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 37-51 | | 11 |
| 1 | Interaction of heparin with Ca ²⁺ : A model study with a synthetic heparin-like hexasaccharide. <i>Israel Journal of Chemistry</i> , 2000 , 40, 289-299 | 3.4 | 16 |