

Jesus Angulo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1077057/jesus-angulo-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
91	STD-NMR: application to transient interactions between biomolecules-a quantitative approach. <i>European Biophysics Journal</i> , 2011 , 40, 1357-69	1.9	110
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	Unravelling the specificity and mechanism of sialic acid recognition by the gut symbiont <i>Ruminococcus gnavus</i> . <i>Nature Communications</i> , 2017 , 8, 2196	17.4	44
79	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
78	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
77	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
76	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

75	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
74	Synthesis and structural study of two new heparin-like hexasaccharides. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2253-66	3.9	35
73	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
72	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
71	Dynamic properties of biologically active synthetic heparin-like hexasaccharides. <i>Glycobiology</i> , 2005 , 15, 1008-15	5.8	33
70	Structural basis for arginine glycosylation of host substrates by bacterial effector proteins. <i>Nature Communications</i> , 2018 , 9, 4283	17.4	33
69	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
68	NMR analysis of carbohydrate-protein interactions. <i>Methods in Enzymology</i> , 2006 , 416, 12-30	1.7	30
67	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
66	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
65	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
64	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
63	The HeparinCa ²⁺ Interaction: Structure of the Ca ²⁺ Binding Site. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 2367	3.2	26
62	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
61	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
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}	11.5	24
59	Importance of the polarity of the glycosaminoglycan chain on the interaction with FGF-1. <i>Glycobiology</i> , 2014 , 24, 1004-9	5.8	24
58	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

57	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19318-19322	9.5	23
56	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
55	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
54	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
53	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
52	Tunable Supramolecular Gel Properties by Varying Thermal History. <i>Chemistry - A European Journal</i> , 2019 , 25, 7881-7887	4.8	19
51	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
50	Substituent interference on supramolecular assembly in urea gelators: synthesis, structure prediction and NMR. <i>Soft Matter</i> , 2016 , 12, 4034-43	3.6	19
49	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. <i>Cellulose</i> , 2019 , 26, 529-542	5.5	19
48	Hydrophobization of Cellulose Nanocrystals for Aqueous Colloidal Suspensions and Gels. <i>Biomacromolecules</i> , 2020 , 21, 1812-1823	6.9	18
47	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
46	Fucosidases from the human gut symbiont <i>Ruminococcus gnavus</i> . <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 675-693	10.3	17
45	Carbohydrate-carbohydrate interaction prominence in 3D supramolecular self-assembly. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11595-600	3.4	16
44	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
43	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
42	STD NMR as a Technique for Ligand Screening and Structural Studies. <i>Methods in Enzymology</i> , 2019 , 615, 423-451	1.7	16
41	Ginsenosides Act As Positive Modulators of P2X ₄ Receptors. <i>Molecular Pharmacology</i> , 2019 , 95, 210-221	4.3	16
40	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

39	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
38	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
37	Surfactant controlled zwitterionic cellulose nanofibril dispersions. <i>Soft Matter</i> , 2018 , 14, 7793-7800	3.6	13
36	Discovery of Small Molecule WWP2 Ubiquitin Ligase Inhibitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 17677-17680	4.8	13
35	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
34	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
33	Uncovering a novel molecular mechanism for scavenging sialic acids in bacteria. <i>Journal of Biological Chemistry</i> , 2020 , 295, 13724-13736	5.4	12
32	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
31	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
30	The solution conformation of glycosyl inositols related to inositolphosphoglycan (IPG) mediators. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 37-51		11
29	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
28	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
27	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
26	Structural Basis of Glycerophosphodiester Recognition by the Substrate-Binding Protein UgpB. <i>ACS Chemical Biology</i> , 2019 , 14, 1879-1887	4.9	8
25	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
24	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
23	Identification of selective protein-protein interaction inhibitors using efficient peptide-directed ligand design. <i>Chemical Science</i> , 2019 , 10, 4502-4508	9.4	7
22	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

21	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
20	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
19	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
18	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
17	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
16	Structural basis of trehalose recognition by the mycobacterial LpqY-SugABC transporter. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100307	5.4	3
15	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
14	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
13	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
12	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
11	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
10	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
9	A STD-NMR study of the interaction of the <i>Anabaena</i> ferredoxin-NADP ⁺ reductase with the coenzyme. <i>Molecules</i> , 2014 , 19, 672-85	4.8	1
8	NMR Techniques for the Study of Transient Intermolecular Interactions 2014 , 325-360		1
7	Multifunctional nanoassemblies target bacterial lipopolysaccharides for enhanced antimicrobial DNA delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 195, 111266	6	1
6	Correction: Substituent interference on supramolecular assembly in urea gelators: synthesis, structure prediction and NMR. <i>Soft Matter</i> , 2016 , 12, 5489	3.6	1
5	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
4	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

3	Multifrequency STD NMR Unveils the Interactions of Antibiotics With Biofilm Exopolysaccharide. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 727980	5.6	1
2	Fucosyltransferase-specific inhibition via next generation of fucose mimetics. <i>Chemical Communications</i> , 2021 , 57, 1145-1148	5.8	0
1	Cross-reactivity of glycan-reactive HIV-1 broadly neutralizing antibodies with parasite glycans.. <i>Cell Reports</i> , 2022 , 38, 110611	10.6	0