

# Ana Ardã;

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8630413/publications.pdf>

Version: 2024-02-01

50  
papers

1,717  
citations

279798

23  
h-index

289244

40  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2206  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Carbohydrate–Aromatic Interactions. <i>Accounts of Chemical Research</i> , 2013, 46, 946-954.   | 15.6 | 394       |
| 2  | The recognition of glycans by protein receptors. Insights from NMR spectroscopy. <i>Chemical Communications</i> , 2018, 54, 4761-4769.  | 4.1  | 86        |
| 3  | Structural Characterization of N-Linked Glycans in the Receptor Binding Domain of the SARS-CoV-2 Spike Protein and their Interactions with Human Lectins. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23763-23771. | 13.8 | 81        |
| 4  | Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. <i>Chemical Society Reviews</i> , 2020, 49, 3863-3888.   | 38.1 | 77        |
| 5  | Glycan structures and their interactions with proteins. A NMR view. <i>Current Opinion in Structural Biology</i> , 2020, 62, 22-30.   | 5.7  | 65        |
| 6  | Tetrafluorination of Sugars as Strategy for Enhancing Protein–Carbohydrate Affinity: Application to UDP-Galactose 4-Epimerase Inhibition. <i>Chemistry - A European Journal</i> , 2014, 20, 106-112.                                | 3.3  | 64        |
| 7  | Rules of Engagement of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. <i>ChemistryOpen</i> , 2016, 5, 274-296.  | 1.9  | 62        |
| 8  | Glycans in drug discovery. <i>MedChemComm</i> , 2019, 10, 1678-1691.  | 3.4  | 62        |
| 9  | Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Blood Group Antigens by Human Galectin-3. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7268-7272.            | 13.8 | 56        |
| 10 | Novel NMR Avenues to Explore the Conformation and Interactions of Glycans. <i>ACS Omega</i> , 2019, 4, 13618-13630.   | 3.5  | 52        |
| 11 | Molecular Recognition in Type Lectins: The Cases of DC-SIGN, Langerin, MGL, and Sectin. <i>ChemBioChem</i> , 2020, 21, 2999-3025.   | 2.6  | 49        |
| 12 | Glycosyl Oxocarbenium Ions: Structure, Conformation, Reactivity, and Interactions. <i>Accounts of Chemical Research</i> , 2021, 54, 2552-2564.  | 15.6 | 46        |
| 13 | Targeting Galectins With Glycomimetics. <i>Frontiers in Chemistry</i> , 2020, 8, 593.   | 3.6  | 43        |
| 14 | Structural and Computational Analysis of Halogeno-Glycosyl Cations in the Presence of a Superacid: An Expansive Platform. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13758-13762.                                 | 13.8 | 41        |
| 15 | Molecular Recognition of Complex-Type Biantennary N-Glycans by Protein Receptors: a Three-Dimensional View on Epitope Selection by NMR. <i>Journal of the American Chemical Society</i> , 2013, 135, 2667-2675.                     | 13.7 | 37        |
| 16 | Molecular Insights into DC-SIGN Binding to Self-Antigens: The Interaction with the Blood Group A/B Antigens. <i>ACS Chemical Biology</i> , 2019, 14, 1660-1671.   | 3.4  | 37        |
| 17 | NMR and Molecular Recognition of N-Glycans: Remote Modifications of the Saccharide Chain Modulate Binding Features. <i>ACS Chemical Biology</i> , 2017, 12, 1104-1112.  | 3.4  | 35        |
| 18 | Unraveling Sugar Binding Modes to DC-SIGN by Employing Fluorinated Carbohydrates. <i>Molecules</i> , 2019, 24, 2337.  | 3.8  | 34        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH <sup>π</sup> -π Stacking Interactions by Different Fluorination Patterns. <i>Chemistry - A European Journal</i> , 2017, 23, 3957-3965. | 3.3  | 33        |
| 20 | Glycoprofile Analysis of an Intact Glycoprotein As Inferred by NMR Spectroscopy. <i>ACS Central Science</i> , 2019, 5, 1554-1561.  | 11.3 | 31        |
| 21 | Synthesis and Structural Analysis of <i>Aspergillus fumigatus</i> Galactosaminogalactans Featuring β-Galactose, β-Galactosamine and α-N-Acetyl Galactosamine Linkages. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12746-12750.                           | 13.8 | 28        |
| 22 | Selectfluor and NFSI exo-Glycal Fluorination Strategies Applied to the Enhancement of the Binding Affinity of Galactofuranosyltransferase GlfT2 Inhibitors. <i>Chemistry - A European Journal</i> , 2014, 20, 15208-15215.   | 3.3  | 27        |
| 23 | The SARS-CoV-2 Spike Glycoprotein Directly Binds Exogeneous Sialic Acids: A NMR View. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 13.8 | 25        |
| 24 | Insight into the Ferrier Rearrangement by Combining Flash Chemistry and Superacids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2036-2041.  | 13.8 | 24        |
| 25 | Unravelling the Time Scale of Conformational Plasticity and Allostery in Glycan Recognition by Human Galectin-1. <i>Chemistry - A European Journal</i> , 2020, 26, 15643-15653.  | 3.3  | 22        |
| 26 | Structure of a protective epitope reveals the importance of acetylation of <i>Neisseria meningitidis</i> serogroup A capsular polysaccharide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29795-29802.             | 7.1  | 19        |
| 27 | Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH <sup>π</sup> -π Interactions. <i>Chemistry - A European Journal</i> , 2015, 21, 11408-11416.  | 3.3  | 17        |
| 28 | Regioselective Glycosylation Strategies for the Synthesis of Group Ia and Ib Streptococcus Related Glycans Enable Elucidating Unique Conformations of the Capsular Polysaccharides. <i>Chemistry - A European Journal</i> , 2019, 25, 16277-16287.                         | 3.3  | 15        |
| 29 | Selective <sup>13</sup> C-Labels on Repeating Glycan Oligomers to Reveal Protein Binding Epitopes through NMR: Polylactosamine Binding to Galectins. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18777-18782.   | 13.8 | 14        |
| 30 | NMR of glycoproteins: profiling, structure, conformation and interactions. <i>Current Opinion in Structural Biology</i> , 2021, 68, 9-17.  | 5.7  | 13        |
| 31 | Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Blood-Group Antigens by Human Galectin-3. <i>Angewandte Chemie</i> , 2019, 131, 7346-7350.  | 2.0  | 12        |
| 32 | The Interaction of Fluorinated Glycomimetics with DC-SIGN: Multiple Binding Modes Disentangled by the Combination of NMR Methods and MD Simulations. <i>Pharmaceuticals</i> , 2020, 13, 179.   | 3.8  | 12        |
| 33 | Chemoenzymatic Synthesis of Complex N-Glycans of the Parasite <i>S. mansoni</i> to Examine the Importance of Epitope Presentation on DC-SIGN recognition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19287-19296.  | 13.8 | 12        |
| 34 | Novel Dextran-Supported Biological Probes Decorated with Disaccharide Entities for Investigating the Carbohydrate-Protein Interactions of Gal-3. <i>ChemBioChem</i> , 2019, 20, 203-209.   | 2.6  | 11        |
| 35 | 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        |
| 36 | Structural Characterization of N-Linked Glycans in the Receptor Binding Domain of the SARS-CoV-2 Spike Protein and their Interactions with Human Lectins. <i>Angewandte Chemie</i> , 2020, 132, 23971-23979.   | 2.0  | 9         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Mono- and Di-fucosylated Glycans of the Parasitic Worm <i>S. mansoni</i> are Recognized Differently by the Innate Immune Receptor DC-SIGN. <i>Chemistry - A European Journal</i> , 2020, 26, 15605-15612.  | 3.3 | 8         |
| 38 | The two domains of human galectin-8 bind sialyl- and fucose-containing oligosaccharides in an independent manner. A 3D view by using NMR. <i>RSC Chemical Biology</i> , 2021, 2, 932-941.  | 4.1 | 8         |
| 39 | Cross-Linking Effects Dictate the Preference of Galectins to Bind LacNAc-Decorated HPMA Copolymers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6000.   | 4.1 | 7         |
| 40 | Environmental Effects Determine the Structure of Potential $\alpha$ -Amino Acid Based Foldamers. <i>Chemistry - A European Journal</i> , 2018, 24, 10625-10629.  | 3.3 | 6         |
| 41 | Galectin-4 N-Terminal Domain: Binding Preferences Toward A and B Antigens With Different Peripheral Core Presentations. <i>Frontiers in Chemistry</i> , 2021, 9, 664097.   | 3.6 | 6         |
| 42 | Bacterial polysaccharides: conformation, dynamics and molecular recognition by antibodies. <i>Drug Discovery Today: Technologies</i> , 2020, 35-36, 1-11.  | 4.0 | 5         |
| 43 | Synthesis and Structural Analysis of <i>Aspergillus fumigatus</i> Galactosaminogalactans Featuring $\beta$ -Galactose, $\beta$ -Galactosamine and $\beta$ -N-Acetyl Galactosamine Linkages. <i>Angewandte Chemie</i> , 2020, 132, 2.0 12846-12850. |     | 4         |
| 44 | Exploration of Galectin Ligands Displayed on Gram-Negative Respiratory Bacterial Pathogens with Different Cell Surface Architectures. <i>Biomolecules</i> , 2021, 11, 595.   | 4.0 | 4         |
| 45 | Kinetic Studies of Acetyl Group Migration between the Saccharide Units in an Oligomannoside Trisaccharide Model Compound and a Native Galactoglucomannan Polysaccharide. <i>ChemBioChem</i> , 2021, 22, 2986-2995.                                 | 2.6 | 4         |
| 46 | Oligosaccharide Presentation Modulates the Molecular Recognition of Glycolipids by Galectins on Membrane Surfaces. <i>Pharmaceuticals</i> , 2022, 15, 145.   | 3.8 | 4         |
| 47 | Selective $^{13}\text{C}$ Labels on Repeating Glycan Oligomers to Reveal Protein Binding Epitopes through NMR: Polylactosamine Binding to Galectins. <i>Angewandte Chemie</i> , 2021, 133, 18925-18930.  | 2.0 | 3         |
| 48 | 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         |
| 49 | Chemoenzymatic Synthesis of Complex N-Glycans of the Parasite <i>S. mansoni</i> to Examine the Importance of Epitope Presentation on DC-SIGN recognition. <i>Angewandte Chemie</i> , 2021, 133, 19436-19445.                                       | 2.0 | 1         |
| 50 | The SARS-CoV-2 Spike Glycoprotein Directly Binds Exogeneous Sialic Acids: A NMR View. <i>Angewandte Chemie</i> , 0, , .  | 2.0 | 1         |