

# Roberta Marchetti

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,172  
citations

430874

18  
h-index

395702

33  
g-index

47  
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47  
docs citations

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times ranked

1874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipopolysaccharide O-antigen molecular and supramolecular modifications of plant root microbiota are pivotal for host recognition. <i>Carbohydrate Polymers</i> , 2022, 277, 118839.	10.2	9
2	Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. <i>Carbohydrate Polymers</i> , 2022, 277, 118885.	10.2	49
3	Conformationally Constrained Sialyl Analogues as New Potential Binders of hâ€CD22. <i>ChemBioChem</i> , 2022, 23, .	2.6	3
4	Role of EPS in mitigation of plant abiotic stress: The case of <i>Methylobacterium extorquens</i> PA1. <i>Carbohydrate Polymers</i> , 2022, 295, 119863.	10.2	3
5	Investigation of protein-ligand complexes by ligand-based NMR methods. <i>Carbohydrate Research</i> , 2021, 503, 108313.	2.3	19
6	Solving the structural puzzle of bacterial glycome. <i>Current Opinion in Structural Biology</i> , 2021, 68, 74-83.	5.7	10
7	Chemical Synthesis of Sialyl <i>N</i> -Glycans and Analysis of Their Recognition by Neuraminidase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24686-24693.	13.8	6
8	Chemical Synthesis of Sialyl <i>N</i> -Glycans and Analysis of Their Recognition by Neuraminidase. <i>Angewandte Chemie</i> , 2021, 133, 24891.	2.0	0
9	Siglec-7 Mediates Immunomodulation by Colorectal Cancer-Associated <i>Fusobacterium nucleatum</i> ssp. <i>animalis</i> . <i>Frontiers in Immunology</i> , 2021, 12, 744184.	4.8	10
10	Behavior of glycolylated sialoglycans in the binding pockets of murine and human CD22. <i>IScience</i> , 2021, 24, 101998.	4.1	8
11	Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors. <i>RSC Chemical Biology</i> , 2021, 2, 1618-1630.	4.1	6
12	Characterization of Natural and Synthetic Sialoglycans Targeting the Hemagglutinin-Neuraminidase of Mumps Virus. <i>Frontiers in Chemistry</i> , 2021, 9, 711346.	3.6	0
13	Semisynthetic Isomers of Fucosylated Chondroitin Sulfate Polysaccharides with Fucosyl Branches at a Non-Natural Site. <i>Biomacromolecules</i> , 2021, 22, 5151-5161.	5.4	5
14	Characterisation of the Dynamic Interactions between Complex <i>N</i> -Glycans and Human CD22. <i>ChemBioChem</i> , 2020, 21, 129-140.	2.6	16
15	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. <i>IScience</i> , 2020, 23, 101231.	4.1	24
16	Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. <i>Scientific Reports</i> , 2020, 10, 1589.	3.3	19
17	Exploring the fascinating world of sialoglycans in the interplay with Siglecs. <i>Carbohydrate Chemistry</i> , 2020, , 31-55.	0.3	3
18	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectinâ€1. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18697-18702.	13.8	29

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19	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. <i>Angewandte Chemie</i> , 2019, 131, 18870-18875.	2.0	2
20	Human Macrophage Galactose- $\alpha$ -Type Lectin (MGL) Recognizes the Outer Core of <i>Escherichia coli</i> Lipooligosaccharide. <i>ChemBioChem</i> , 2019, 20, 1778-1782.	2.6	21
21	Solid State NMR Studies of Intact Lipopolysaccharide Endotoxin. <i>ACS Chemical Biology</i> , 2018, 13, 2106-2113.	3.4	18
22	<i>Zymomonas mobilis</i> exopolysaccharide structure and role in high ethanol tolerance. <i>Carbohydrate Polymers</i> , 2018, 201, 293-299.	10.2	17
23	<i>Rhodospseudomonas palustris</i> Strain CGA009 Produces an O-Antigen Built up by a C-4-Branched Monosaccharide: Structural and Conformational Studies. <i>Organic Letters</i> , 2018, 20, 3656-3660.	4.6	3
24	Enzymatic and acidic degradation of high molecular weight dextran into low molecular weight and its characterizations using novel Diffusion-ordered NMR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 744-750.	7.5	19
25	A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of <i>Mycobacterium tuberculosis</i> Ser/Thr Kinase PknB. <i>ChemBioChem</i> , 2017, 18, 2094-2098.	2.6	12
26	Deciphering minimal antigenic epitopes associated with <i>Burkholderia pseudomallei</i> and <i>Burkholderia mallei</i> lipopolysaccharide O-antigens. <i>Nature Communications</i> , 2017, 8, 115.	12.8	42
27	Multivalent ligand mimetics of LecA from <i>P. aeruginosa</i> : synthesis and NMR studies. <i>Carbohydrate Research</i> , 2016, 429, 23-28.	2.3	4
28	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
29	A Peptidoglycan-Remodeling Enzyme Is Critical for Bacteroid Differentiation in <i>Bradyrhizobium</i> spp. During Legume Symbiosis. <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 447-457.	2.6	29
30	NMR analysis of the binding mode of two fungal endo- $\beta$ -1,4-mannanases from GH5 and GH26 families. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 314-322.	2.8	5
31	Continuous degradation of maltose: improvement in stability and catalytic properties of maltase ( $\beta$ -glucosidase) through immobilization using agar-agar gel as a support. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 631-638.	3.4	21
32	NMR as a Tool to Unveil the Molecular Basis of Glycan-mediated Host-Pathogen Interactions. <i>RSC Drug Discovery Series</i> , 2015, , 21-37.	0.3	1
33	<i>Burkholderia pseudomallei</i> Capsular Polysaccharide Recognition by a Monoclonal Antibody Reveals Key Details toward a Biodefense Vaccine and Diagnostics against Melioidosis. <i>ACS Chemical Biology</i> , 2015, 10, 2295-2302.	3.4	36
34	Insect Gut Symbiont Susceptibility to Host Antimicrobial Peptides Caused by Alteration of the Bacterial Cell Envelope. <i>Journal of Biological Chemistry</i> , 2015, 290, 21042-21053.	3.4	45
35	The antibacterial toxin colicin <i>N</i> binds to the inner core of lipopolysaccharide and close to its translocator protein. <i>Molecular Microbiology</i> , 2014, 92, 440-452.	2.5	40
36	Covalently linked hopanoid-lipid A improves outer-membrane resistance of a <i>Bradyrhizobium</i> symbiont of legumes. <i>Nature Communications</i> , 2014, 5, 5106.	12.8	88

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37	Chitin-induced activation of immune signaling by the rice receptor CEBiP relies on a unique sandwich-type dimerization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E404-13.	7.1	271
38	Unraveling the Interaction between the LPS Oâ€Antigen of <i>Burkholderia anthina</i> and the 5D8 Monoclonal Antibody by Using a Multidisciplinary Chemical Approach, with Synthesis, NMR, and Molecular Modeling Methods. ChemBioChem, 2013, 14, 1485-1493.	2.6	8
39	NMR Spectroscopic Analysis Reveals Extensive Binding Interactions of Complex Xyloglucan Oligosaccharides with the <i>Cellvibrio japonicus</i> Glycoside Hydrolase Family 31 Î±â€Xylosidase. Chemistry - A European Journal, 2012, 18, 13395-13404.	3.3	25
40	Structural Study of Binding of Î±â€Mannosides to Mannanâ€Binding Lectins. European Journal of Organic Chemistry, 2012, 2012, 5275-5281.	2.4	4
41	Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. Glycobiology, 2012, 22, 1387-1398.	2.5	31
42	Chemical Basis of Peptidoglycan Discrimination by PrkC, a Key Kinase Involved in Bacterial Resuscitation from Dormancy. Journal of the American Chemical Society, 2011, 133, 20676-20679.	13.7	89
43	X-ray structural studies of the entire extracellular region of the serine/threonine kinase PrkC from Staphylococcus aureus. Biochemical Journal, 2011, 435, 33-41.	3.7	48
44	The structure of the carbohydrate backbone of the lipooligosaccharide from an alkaliphilic Halomonas sp.. Carbohydrate Research, 2010, 345, 1971-1975.	2.3	8