Roberta Marchetti

List of Publications by Year
in descending order

44 papers	1,172 citations	430874 18 h-index	395702 33 g-index
47 all docs	47 docs citations	47 times ranked	1874 citing authors

#	Article	IF	Citations
1	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
2	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
3	Covalently linked hopanoid-lipid A improves outer-membrane resistance of a Bradyrhizobium symbiont of legumes. Nature Communications, 2014, 5, 5106.	12.8	88
4	â€œRules of Engagementâ€•of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. ChemistryOpen, 2016, 5, 274-296.	1.9	62
5	Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. Carbohydrate Polymers, 2022, 277, 118885.	10.2	49
6	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
7	Insect Gut Symbiont Susceptibility to Host Antimicrobial Peptides Caused by Alteration of the Bacterial Cell Envelope. Journal of Biological Chemistry, 2015, 290, 21042-21053.	3.4	45
8	Deciphering minimal antigenic epitopes associated with Burkholderia pseudomallei and Burkholderia mallei lipopolysaccharide O-antigens. Nature Communications, 2017, 8, 115.	12.8	42
9	The antibacterial toxin colicin <scp>N</scp> binds to the inner core of lipopolysaccharide and close to its translocator protein. Molecular Microbiology, 2014, 92, 440-452.	2.5	40
10	Burkholderia pseudomallei Capsular Polysaccharide Recognition by a Monoclonal Antibody Reveals Key Details toward a Biodefense Vaccine and Diagnostics against Melioidosis. ACS Chemical Biology, 2015, 10, 2295-2302.	3.4	36
11	Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. Glycobiology, 2012, 22, 1387-1398.	2.5	31
12	A Peptidoglycan-Remodeling Enzyme Is Critical for Bacteroid Differentiation in Bradyrhizobium spp. During Legume Symbiosis. Molecular Plant-Microbe Interactions, 2016, 29, 447-457.	2.6	29
13	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectinâ€1. Angewandte Chemie - International Edition, 2019, 58, 18697-18702.	13.8	29
14	NMR Spectroscopic Analysis Reveals Extensive Binding Interactions of Complex Xyloglucan Oligosaccharides with the Cellvibrio japonicus Glycoside Hydrolase Family 31 Î±â€Xylosidase. Chemistry - A European Journal, 2012, 18, 13395-13404.	3.3	25
15	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. IScience, 2020, 23, 101231.	4.1	24
16	Continuous degradation of maltose: improvement in stability and catalytic properties of maltase (Î±-glucosidase) through immobilization using agar-agar gel as a support. Bioprocess and Biosystems Engineering, 2015, 38, 631-638.	3.4	21
17	Human Macrophage Galactoseâ€Type Lectin (MGL) Recognizes the Outer Core of Escherichia coli Lipooligosaccharide. ChemBioChem, 2019, 20, 1778-1782.	2.6	21
18	Enzymatic and acidic degradation of high molecular weight dextran into low molecular weight and its characterizations using novel Diffusion-ordered NMR spectroscopy. International Journal of Biological Macromolecules, 2017, 103, 744-750.	7.5	19

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19	Investigation of protein-ligand complexes by ligand-based NMR methods. Carbohydrate Research, 2021, 503, 108313.	2.3	19
20	Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. Scientific Reports, 2020, 10, 1589.	3.3	19
21	Solid State NMR Studies of Intact Lipopolysaccharide Endotoxin. ACS Chemical Biology, 2018, 13, 2106-2113.	3.4	18
22	Zymomonas mobilis exopolysaccharide structure and role in high ethanol tolerance. Carbohydrate Polymers, 2018, 201, 293-299.	10.2	17
23	Characterisation of the Dynamic Interactions between Complex Nâ€Glycans and Human CD22. ChemBioChem, 2020, 21, 129-140.	2.6	16
24	A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of Mycobacterium tuberculosis Ser/Thr Kinase PknB. ChemBioChem, 2017, 18, 2094-2098.	2.6	12
25	Solving the structural puzzle of bacterial glycome. Current Opinion in Structural Biology, 2021, 68, 74-83.	5.7	10
26	Siglec-7 Mediates Immunomodulation by Colorectal Cancer-Associated Fusobacterium nucleatum ssp. animalis. Frontiers in Immunology, 2021, 12, 744184.	4.8	10
27	Lipopolysaccharide O-antigen molecular and supramolecular modifications of plant root microbiota are pivotal for host recognition. Carbohydrate Polymers, 2022, 277, 118839.	10.2	9
28	The structure of the carbohydrate backbone of the lipooligosaccharide from an alkaliphilic Halomonas sp.. Carbohydrate Research, 2010, 345, 1971-1975.	2.3	8
29	Unraveling the Interaction between the LPS Oâ€Antigen of Burkholderia anthina 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
30	Behavior of glycolylated sialoglycans in the binding pockets of murine and human CD22. IScience, 2021, 24, 101998.	4.1	8
31	Chemical Synthesis of Sialyl Nâ€Glycans and Analysis of Their Recognition by Neuraminidase. Angewandte Chemie - International Edition, 2021, 60, 24686-24693.	13.8	6
32	Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors. RSC Chemical Biology, 2021, 2, 1618-1630.	4.1	6
33	NMR analysis of the binding mode of two fungal endo-Î²-1,4-mannanases from GH5 and GH26 families. Organic and Biomolecular Chemistry, 2016, 14, 314-322.	2.8	5
34	Semisynthetic Isomers of Fucosylated Chondroitin Sulfate Polysaccharides with Fucosyl Branches at a Non-Natural Site. Biomacromolecules, 2021, 22, 5151-5161.	5.4	5
35	Structural Study of Binding of Î±â€Mannosides to Mannanâ€Binding Lectins. European Journal of Organic Chemistry, 2012, 2012, 5275-5281.	2.4	4
36	Multivalent ligand mimetics of LecA from P.â€‰aeruginosa: synthesis and NMR studies. Carbohydrate Research, 2016, 429, 23-28.	2.3	4

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37	Rhodopseudomonas palustris Strain CGA009 Produces an O-Antigen Built up by a C-4-Branched Monosaccharide: Structural and Conformational Studies. Organic Letters, 2018, 20, 3656-3660.	4.6	3
38	Exploring the fascinating world of sialoglycans in the interplay with Siglecs. Carbohydrate Chemistry, 2020, , 31-55.	0.3	3
39	Conformationally Constrained Sialyl Analogues as New Potential Binders of hâ€CD22. ChemBioChem, 2022, 23, .	2.6	3
40	Role of EPS in mitigation of plant abiotic stress: The case of Methylobacterium extorquens PA1. Carbohydrate Polymers, 2022, 295, 119863.	10.2	3
41	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectinâ€1. Angewandte Chemie, 2019, 131, 18870-18875.	2.0	2
42	NMR as a Tool to Unveil the Molecular Basis of Glycan-mediated Hostâ€“Pathogen Interactions. RSC Drug Discovery Series, 2015, , 21-37.	0.3	1
43	Chemical Synthesis of Sialyl Nâ€Glycans and Analysis of Their Recognition by Neuraminidase. Angewandte Chemie, 2021, 133, 24891.	2.0	0
44	Characterization of Natural and Synthetic Sialoglycans Targeting the Hemagglutinin-Neuraminidase of Mumps Virus. Frontiers in Chemistry, 2021, 9, 711346.	3.6	0