Antonio Molinaro

List of Publications by Year
in descending order

333	12,609	31976 53	39675 94
papers	citations	h-index	g-index

350	350	350	15152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	European consensus conference on faecal microbiota transplantation in clinical practice. Gut, 2017, 66, 569-580.	12.1	793
2	Microbially Produced Imidazole Propionate Impairs Insulin Signaling through mTORC1. Cell, 2018, 175, 947-961.e17.	28.9	517
3	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
4	Arabidopsis lysin-motif proteins LYM1 LYM3 CERK1 mediate bacterial peptidoglycan sensing and immunity to bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19824-19829.	7.1	442
5	Microbiota-induced obesity requires farnesoid X receptor. Gut, 2017, 66, 429-437.	12.1	355
6	Role of Bile Acids in Metabolic Control. Trends in Endocrinology and Metabolism, 2018, 29, 31-41.	7.1	299
7	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
8	Functional Analysis of the Protein Machinery Required for Transport of Lipopolysaccharide to the Outer Membrane of Escherichia coli. Journal of Bacteriology, 2008, 190, 4460-4469.	2.2	218
9	Bacterial Polysaccharides Suppress Induced Innate Immunity by Calcium Chelation. Current Biology, 2008, 18, 1078-1083.	3.9	212
10	Chemistry of Lipidâ€…A: At the Heart of Innate Immunity. Chemistry - A European Journal, 2015, 21, 500-519.	3.3	193
11	The Elicitation of Plant Innate Immunity by Lipooligosaccharide of Xanthomonas campestris. Journal of Biological Chemistry, 2005, 280, 33660-33668.	3.4	168
12	Glyco-conjugates as elicitors or suppressors of plant innate immunity. Glycobiology, 2010, 20, 406-419.	2.5	162
13	Hopanoid lipids: from membranes to plantâ€“bacteria interactions. Nature Reviews Microbiology, 2018, 16, 304-315.	28.6	147
14	Cell surface polysaccharides of Bifidobacterium bifidum induce the generation of Foxp3 ⁺ regulatory T cells. Science Immunology, 2018, 3, .	11.9	145
15	Human caspase-4 detects tetra-acylated LPS and cytosolic Francisella and functions differently from murine caspase-11. Nature Communications, 2018, 9, 242.	12.8	144
16	Microbe-Associated Molecular Patterns in Innate Immunity. Methods in Enzymology, 2010, 480, 89-115.	1.0	140
17	Invited review: Priming, induction and modulation of plant defence responses by bacterial lipopolysaccharides. Journal of Endotoxin Research, 2007, 13, 69-84.	2.5	138
18	Peptidoglycan and Muropeptides from Pathogens Agrobacterium and Xanthomonas Elicit Plant Innate Immunity: Structure and Activity. Chemistry and Biology, 2008, 15, 438-448.	6.0	129

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19	Degradation of complex carbohydrate: Immobilization of pectinase from Bacillus licheniformis KIBGE-IB21 using calcium alginate as a support. Food Chemistry, 2013, 139, 1081-1086.	8.2	128
20	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. Nature Communications, 2020, 11, 5881.	12.8	122
21	PNPLA3 Gene Polymorphism Is Associated With Predisposition to and Severity of Alcoholic Liver Disease. American Journal of Gastroenterology, 2015, 110, 846-856.	0.4	120
22	Pseudomonas aeruginosa Exploits Lipid A and Muropeptides Modification as a Strategy to Lower Innate Immunity during Cystic Fibrosis Lung Infection. PLoS ONE, 2009, 4, e8439.	2.5	116
23	Structural analysis and characterization of dextran produced by wild and mutant strains of Leuconostoc mesenteroides. Carbohydrate Polymers, 2014, 99, 331-338.	10.2	102
24	Lipopolysaccharide structures of Gram-negative populations in the gut microbiota and effects on host interactions. FEMS Microbiology Reviews, 2019, 43, 257-272.	8.6	102
25	Aminoarabinose is essential for lipopolysaccharide export and intrinsic antimicrobial peptide resistance in Burkholderia cenocepacia^{â€}. Molecular Microbiology, 2012, 85, 962-974.	2.5	91
26	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
27	Ammonium hydroxide hydrolysis. Journal of Lipid Research, 2002, 43, 2188-2195.	4.2	88
28	Covalently linked hopanoid-lipid A improves outer-membrane resistance of a Bradyrhizobium symbiont of legumes. Nature Communications, 2014, 5, 5106.	12.8	88
29	IntracellularShigellaremodels its LPS to dampen the innate immune recognition and evade inflammasome activation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4345-54.	7.1	87
30	Microbial Imidazole Propionate Affects Responses to Metformin through p38Î³-Dependent Inhibitory AMPK Phosphorylation. Cell Metabolism, 2020, 32, 643-653.e4.	16.2	83
31	A Journey from Structure to Function of Bacterial Lipopolysaccharides. Chemical Reviews, 2022, 122, 15767-15821.	47.7	82
32	Lipopolysaccharide from Crypt-Specific Core Microbiota Modulates the Colonic Epithelial Proliferation-to-Differentiation Balance. MBio, 2017, 8, .	4.1	81
33	Glial fibrillary acidic protein as an early marker of hepatic stellate cell activation in chronic and posttransplant recurrent hepatitis C. Liver Transplantation, 2008, 14, 806-814.	2.4	80
34	Microbeâ€associated molecular pattern (MAMP) signatures, synergy, size and charge: influences on perception or mobility and host defence responses. Molecular Plant Pathology, 2009, 10, 375-387.	4.2	76
35	Lignans from Arum italicum. Phytochemistry, 1994, 35, 777-779.	2.9	75
36	Review: Chemical and biological features ofBurkholderia cepaciacomplex lipopolysaccharides. Innate Immunity, 2008, 14, 127-144.	2.4	70

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37	Weak Agonistic LPS Restores Intestinal Immune Homeostasis. Molecular Therapy, 2019, 27, 1974-1991.	8.2	70
38	Chemical synthesis of glycans up to a 128-mer relevant to the O-antigen of Bacteroides vulgatus. Nature Communications, 2020, 11, 4142.	12.8	70
39	Muramylpeptide shedding modulates cell sensing of Shigella flexneri. Cellular Microbiology, 2008, 10, 682-695.	2.1	67
40	The polysaccharide and low molecular weight components of Opuntia ficus indica cladodes: Structure and skin repairing properties. Carbohydrate Polymers, 2017, 157, 128-136.	10.2	66
41	Gut microbiota depletion exacerbates cholestatic liver injury via loss of FXR signalling. Nature Metabolism, 2021, 3, 1228-1241.	11.9	65
42	New conditions for matrix-assisted laser desorption/ionization mass spectrometry of native bacterial R-type lipopolysaccharides. Rapid Communications in Mass Spectrometry, 2005, 19, 1829-1834.	1.5	64
43	Identification of the Flagellin Glycosylation System in Burkholderia cenocepacia and the Contribution of Glycosylated Flagellin to Evasion of Human Innate Immune Responses. Journal of Biological Chemistry, 2014, 289, 19231-19244.	3.4	63
44	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
45	The Complete Structure and Pro-inflammatory Activity of the Lipooligosaccharide of the Highly Epidemic and Virulent Gram-Negative BacteriumBurkholderia cenocepacia ET-12 (Strain J2315). Chemistry - A European Journal, 2007, 13, 3501-3511.	3.3	61
46	Lipopolysaccharide structures from Agrobacterium and Rhizobiaceae species. Carbohydrate Research, 2008, 343, 1924-1933.	2.3	61
47	Specific Hopanoid Classes Differentially Affect Free-Living and Symbiotic States of Bradyrhizobium diazoefficiens. MBio, 2015, 6, e01251-15.	4.1	60
48	Os<scp>CERK</scp>1 plays a crucial role in the lipopolysaccharideâ€•induced immune response of rice. New Phytologist, 2018, 217, 1042-1049.	7.3	60
49	Chemical and biological properties of the novel exopolysaccharide produced by a probiotic strain of Bifidobacterium longum. Carbohydrate Polymers, 2017, 174, 1172-1180.	10.2	59
50	Molecular Structure of Endotoxins from Gram-negative Marine Bacteria: An Update. Marine Drugs, 2007, 5, 85-112.	4.6	58
51	Biosynthesis and Structure of the Burkholderia cenocepacia K56-2 Lipopolysaccharide Core Oligosaccharide. Journal of Biological Chemistry, 2009, 284, 21738-21751.	3.4	57
52	Lactobacillus crispatus L1: high cell density cultivation and exopolysaccharide structure characterization to highlight potentially beneficial effects against vaginal pathogens. BMC Microbiology, 2014, 14, 137.	3.3	57
53	Insulin-Driven PI3K-AKT Signaling in the Hepatocyte Is Mediated by Redundant PI3KÎ± and PI3KÎ² Activities and Is Promoted by RAS. Cell Metabolism, 2019, 29, 1400-1409.e5.	16.2	57
54	The Acylation and Phosphorylation Pattern of Lipid A from Xanthomonas Campestris Strongly Influence its Ability to Trigger the Innate Immune Response in Arabidopsis. ChemBioChem, 2008, 9, 896-904.	2.6	56

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55	Complete structural characterization of the lipid A fraction of a clinical strain of B. cepacia genomovar I lipopolysaccharide. Glycobiology, 2005, 15, 561-570.	2.5	55
56	Pairing Bacteroides vulgatus LPS Structure with Its Immunomodulatory Effects on Human Cellular Models. ACS Central Science, 2020, 6, 1602-1616.	11.3	55
57	Determination of fatty acid positions in native lipid A by positive and negative electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2004, 39, 378-383.	1.6	51
58	Structural Relationship of the Lipid A Acyl Groups to Activation of Murine Toll-Like Receptor 4 by Lipopolysaccharides from Pathogenic Strains of Burkholderia mallei, Acinetobacter baumannii, and Pseudomonas aeruginosa. Frontiers in Immunology, 2015, 6, 595.	4.8	51
59	An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxinâ€Producing Bacteria in Their Fungal Host. Angewandte Chemie - International Edition, 2010, 49, 7476-7480.	13.8	50
60	Comparative genomics and biological characterization of sequential Pseudomonas aeruginosa isolates from persistent airways infection. BMC Genomics, 2015, 16, 1105.	2.8	50
61	Patatin-like phospholipase domain containing 3 sequence variant and hepatocellular carcinoma. Hepatology, 2011, 53, 1776-1776.	7.3	49
62	Structure of N-linked oligosaccharides attached to chlorovirus PBCV-1 major capsid protein reveals unusual class of complex N-glycans. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13956-13960.	7.1	49
63	Chemical Synthesis of a Complex-Type N-Glycan Containing a Core Fucose. Journal of Organic Chemistry, 2016, 81, 10600-10616.	3.2	49
64	Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. Carbohydrate Polymers, 2022, 277, 118885.	10.2	49
65	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
66	Distinct carbohydrate and lipid-based molecular patterns within lipopolysaccharides fromBurkholderia cepaciacontribute to defense-associated differential gene expression inArabidopsis thaliana. Innate Immunity, 2012, 18, 140-154.	2.4	48
67	Structural elucidation of the O-chain of the lipopolysaccharide from Xanthomonas campestris strain 8004. Carbohydrate Research, 2003, 338, 277-281.	2.3	47
68	Activation of Human Toll-like Receptor 4 (TLR4)Â·Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of Burkholderia cenocepacia. Journal of Biological Chemistry, 2015, 290, 21305-21319.	3.4	47
69	Separation of early and late responses to herbivory in Arabidopsis by changing plasmodesmal function. Plant Journal, 2013, 73, 14-25.	5.7	46
70	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
71	The Diversity of the Core Oligosaccharide in Lipopolysaccharides. Sub-Cellular Biochemistry, 2010, 53, 69-99.	2.4	44
72	Capsular Polysaccharide Interferes with Biofilm Formation byPasteurella multocidaSerogroup A. MBio, 2017, 8, .	4.1	44

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73	Cancer Immunotherapy of TLR4 Agonistâ€“Antigen Constructs Enhanced with Pathogenâ€Mimicking Magnetite Nanoparticles and Checkpoint Blockade of PDâ€L1. Small, 2019, 15, e1803993.	10.0	44
74	Reflectron MALDI TOF and MALDI TOF/TOF mass spectrometry reveal novel structural details of native lipooligosaccharides. Journal of Mass Spectrometry, 2011, 46, 1135-1142.	1.6	43
75	Cytotoxic 9,10-Dihydrophenanthrenes from Juncus effusus L.. Tetrahedron, 1993, 49, 3425-3432.	1.9	42
76	PNPLA3 I148M (rs738409) genetic variant and age at onset of atâ€risk alcohol consumption are independent risk factors for alcoholic cirrhosis. Liver International, 2014, 34, 514-520.	3.9	41
77	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
78	Caryose: a carbocyclic monosaccharide from Pseudomonas caryophylli. Carbohydrate Research, 1996, 284, 111-118.	2.3	39
79	Chemical structure of two phytotoxic exopolysaccharides produced by Phomopsis foeniculi11Presented at the 18th International Carbohydrate Symposium, Milan, Italy, 1996.. Carbohydrate Research, 1998, 308, 349-357.	2.3	39
80	The Pleurotus ostreatus hydrophobin Vmh2 and its interaction with glucans. Glycobiology, 2010, 20, 594-602.	2.5	39
81	Synthesis of bradyrhizose, a unique inositol-fused monosaccharide relevant to a Nod-factor independent nitrogen fixation. Chemical Communications, 2015, 51, 6964-6967.	4.1	39
82	Review article: can bugs be drugs? The potential of probiotics and prebiotics as treatment for nonâ€alcoholic fatty liver disease. Alimentary Pharmacology and Therapeutics, 2019, 50, 628-639.	3.7	39
83	Giant DNA Virus Mimivirus Encodes Pathway for Biosynthesis of Unusual Sugar 4-Amino-4,6-dideoxy-d-glucose (Viosamine). Journal of Biological Chemistry, 2012, 287, 3009-3018.	3.4	38
84	A novel lipidâ€„A fromHalomonas magadiensis inhibits enteric LPS-induced human monocyte activation. European Journal of Immunology, 2006, 36, 354-360.	2.9	37
85	Comparative Genomics of Early-Diverging Brucella Strains Reveals a Novel Lipopolysaccharide Biosynthesis Pathway. MBio, 2012, 3, e00246-12.	4.1	37
86	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
87	The structures of glycolipids isolated from the highly thermophilic bacterium Thermus thermophilus Samu-SA1. Glycobiology, 2006, 16, 766-775.	2.5	35
88	Nâ€Linked Glycans of Chloroviruses Sharing a Core Architecture without Precedent. Angewandte Chemie - International Edition, 2016, 55, 654-658.	13.8	35
89	Bifidobacterium bifidum presents on the cell surface a complex mixture of glucans and galactans with different immunological properties. Carbohydrate Polymers, 2019, 218, 269-278.	10.2	35
90	Phenalene metabolites from eichhornia crassipes. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 311-314.	2.2	34

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91	Conformational Analysis of a Dermatan Sulfateâ€Derived Tetrasaccharide by NMR, Molecular Modeling, and Residual Dipolar Couplings. ChemBioChem, 2008, 9, 240-252.	2.6	34
92	Structural specificities of cell surface Î²-glucan polysaccharides determine commensal yeast mediated immuno-modulatory activities. Nature Communications, 2021, 12, 3611.	12.8	34
93	Phytotoxic extracellular polysaccharide fractions from Cryphonectria parasitica (Murr.) Barr strains. Carbohydrate Polymers, 1998, 37, 167-172.	10.2	33
94	Lipopolysaccharides Possessing Twol-Glycero-d-manno-heptopyranosyl-Î±-(1â†'5)-3-deoxy-d-manno-oct-2-ulopyranosonic Acid Moieties in the Core Region. Journal of Biological Chemistry, 2002, 277, 10058-10063.	3.4	33
95	Deciphering the structural and biological properties of the lipid A moiety of lipopolysaccharides from Burkholderia cepacia strain ASP B 2D, in Arabidopsis thaliana. Glycobiology, 2011, 21, 184-194.	2.5	33
96	Comparative Genomics of Early-Diverging Brucella Strains Reveals a Novel Lipopolysaccharide Biosynthesis Pathway. MBio, 2012, 3, e00246-11.	4.1	33
97	Three biologically active phenylpropanoid glucosides fromMyriophyllum verticillatum. Phytochemistry, 1992, 31, 109-111.	2.9	32
98	Characterization of liposomes formed by lipopolysaccharides from Burkholderia cenocepacia, Burkholderia multivorans and Agrobacterium tumefaciens: from the molecular structure to the aggregate architecture. Physical Chemistry Chemical Physics, 2010, 12, 13574.	2.8	32
99	Interaction of lipopolysaccharides at intermolecular sites of the periplasmic Lpt transport assembly. Scientific Reports, 2017, 7, 9715.	3.3	32
100	Structural determination of the phytotoxic mannan exopolysaccharide from Pseudomonas syringae pv. ciccaronei. Carbohydrate Research, 2001, 330, 271-277.	2.3	31
101	Structure Elucidation of the Highly Heterogeneous Lipid A from the Lipopolysaccharide of the Gram-Negative Extremophile BacteriumHalomonas Magadiensis Strain 21 M1. European Journal of Organic Chemistry, 2004, 2004, 2263-2271.	2.4	31
102	Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. Glycobiology, 2012, 22, 1387-1398.	2.5	31
103	The structure and proinflammatory activity of the lipopolysaccharide fromÂBurkholderiaÂmultivoransÂandÂthe differences between clonal strains colonizingÂpreÂandÂposttransplantedÂlungs. Glycobiology, 2008, 18, 871-881.	2.5	30
104	Identification, structure, and characterization of an exopolysaccharide produced by Histophilus somniduring biofilm formation. BMC Microbiology, 2011, 11, 186.	3.3	30
105	Persistent cystic fibrosis isolate Pseudomonas aeruginosa strain RP73 exhibits an under-acylated LPS structure responsible of its low inflammatory activity. Molecular Immunology, 2015, 63, 166-175.	2.2	30
106	Hostâ€"microbiota interaction induces bi-phasic inflammation and glucose intolerance in mice. Molecular Metabolism, 2017, 6, 1371-1380.	6.5	30
107	A bioactive dihydrodibenzoxepin from Juncus effusus. Phytochemistry, 1993, 34, 1182-1184.	2.9	29
108	The Structure of Lipid A of the Lipopolysaccharide from Burkholderia caryophylli with a 4-Amino-4-deoxy-L-arabinopyranose 1-Phosphate Residue Exclusively in Glycosidic Linkage. Chemistry - A European Journal, 2003, 9, 1542-1548.	3.3	29

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109	Structure of the chlorovirus PBCV-1 major capsid glycoprotein determined by combining crystallographic and carbohydrate molecular modeling approaches. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E44-E52.	7.1	29
110	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
111	Full structural characterization of the lipid A components from the Agrobacterium tumefaciens strain C58 lipopolysaccharide fraction. Glycobiology, 2004, 14, 805-815.	2.5	28
112	A general protein O-glycosylation machinery conserved in Burkholderia species improves bacterial fitness and elicits glycan immunogenicity in humans. Journal of Biological Chemistry, 2019, 294, 13248-13268.	3.4	27
113	A novel type of highly negatively charged lipooligosaccharide from Pseudomonas stutzeri OX1 possessing two 4,6-O-(1-carboxy)-ethylidene residues in the outer core region. FEBS Journal, 2004, 271, 2691-2704.	0.2	26
114	The Structures of Lipopolysaccharides from Plantâ€Associated Gramâ€Negative Bacteria. European Journal of Organic Chemistry, 2009, 2009, 5887-5896.	2.4	26
115	Neutrophil elastase-mediated increase in airway temperature during inflammation. Journal of Cystic Fibrosis, 2014, 13, 623-631.	0.7	26
116	The structure of the lipooligosaccharide from Xanthomonas oryzae pv. Oryzae: the causal agent of the bacterial leaf blight in rice. Carbohydrate Research, 2016, 427, 38-43.	2.3	26
117	Gramâ€Negative Extremophile Lipopolysaccharides: Promising Source of Inspiration for a New Generation of Endotoxin Antagonists. European Journal of Organic Chemistry, 2017, 2017, 4055-4073.	2.4	26
118	The Lipidâ€...A fromRhodopseudomonas palustrisStrain BisA53 LPS Possesses a Unique Structure and Low Immunostimulant Properties. Chemistry - A European Journal, 2017, 23, 3637-3647.	3.3	26
119	Lipopolysaccharide from Gutâ€Associated Lymphoidâ€Tissueâ€Resident Alcaligenes faecalis: Complete Structure Determination and Chemical Synthesis of Its Lipidâ€...A. Angewandte Chemie - International Edition, 2021, 60, 10023-10031.	13.8	26
120	Full Structural Characterisation of the Lipooligosaccharide of aBurkholderiapyrrocinia Clinical Isolate. European Journal of Organic Chemistry, 2006, 2006, 4874-4883.	2.4	25
121	Detailed characterization of the lipid A fraction from the nonpathogen Acinetobacter radioresistens strain S13. Journal of Lipid Research, 2007, 48, 1045-1051.	4.2	25
122	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
123	Structural features and immunological perception of the cell surface glycans of Lactobacillus plantarum: a novel rhamnose-rich polysaccharide and teichoic acids. Carbohydrate Polymers, 2020, 233, 115857.	10.2	25
124	Lipopolysaccharides. , 2010, , 133-153.		25
125	Improvement of nutritional status in malnourished cirrhotic patients one year after liver transplantation. European E-journal of Clinical Nutrition and Metabolism, 2011, 6, e142-e147.	0.4	24
126	A Unique Bicyclic Monosaccharide from the Bradyrhizobium Lipopolysaccharide and Its Role in the Molecular Interaction with Plants. Angewandte Chemie - International Edition, 2011, 50, 12610-12612.	13.8	24

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127	Chemistry and Biology of the Potent Endotoxin from a Burkholderia dolosa Clinical Isolate from a Cystic Fibrosis Patient. ChemBioChem, 2013, 14, 1105-1115.	2.6	24
128	Giant Virus Megavirus chilensis Encodes the Biosynthetic Pathway for Uncommon Acetamido Sugars. Journal of Biological Chemistry, 2014, 289, 24428-24439.	3.4	24
129	The lipopolysaccharide core oligosaccharide of Burkholderia plays a critical role in maintaining a proper gut symbiosis with the bean bug Riptortus pedestris. Journal of Biological Chemistry, 2017, 292, 19226-19237.	3.4	24
130	Carbohydrate-based adjuvants. Drug Discovery Today: Technologies, 2020, 35-36, 57-68.	4.0	24
131	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. IScience, 2020, 23, 101231.	4.1	24
132	(20S)-4Î±-methyl-24-methylenecholest-7-en-3Î²-ol, an allelopathic sterol from Typha latifoliaâ˜†. Phytochemistry, 1990, 29, 1797-1798.	2.9	23
133	Synthesis of Bradyrhizose Oligosaccharides Relevant to the Bradyrhizobium Oâ€Antigen. Angewandte Chemie - International Edition, 2017, 56, 2092-2096.	13.8	22
134	The complete structure of the lipooligosaccharide from the halophilic bacterium Pseudoalteromonas issachenkonii KMM 3549T. Carbohydrate Research, 2004, 339, 1985-1993.	2.3	21
135	Structural characterizations of lipids A by MS/MS of doubly charged ions on a hybrid linear ion trap/orbitrap mass spectrometer. Journal of Mass Spectrometry, 2008, 43, 478-484.	1.6	21
136	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
137	Structural determination of lipid A of the lipopolysaccharide from Pseudomonas reactans. FEBS Journal, 2002, 269, 2498-2505.	0.2	20
138	Complete Structural Elucidation of a Novel Lipooligosaccharide from the Outer Membrane of the Marine BacteriumShewanella pacifica. European Journal of Organic Chemistry, 2005, 2005, 2281-2291.	2.4	20
139	Structural elucidation of the core-lipid A backbone from the lipopolysaccharide of Acinetobacter radioresistens S13, an organic solvent tolerant Gram-negative bacterium. Carbohydrate Research, 2006, 341, 582-590.	2.3	20
140	Transcriptional responses of Burkholderia cenocepacia to polymyxin B in isogenic strains with diverse polymyxin B resistance phenotypes. BMC Genomics, 2011, 12, 472.	2.8	20
141	Thermophiles as Potential Source of Novel Endotoxin Antagonists: the Full Structure and Bioactivity of theLipoâ€oligosaccharide from Thermomonas hydrothermalis. ChemBioChem, 2014, 15, 2146-2155.	2.6	20
142	Lipopolysaccharide lipid A: A promising molecule for new immunity-based therapies and antibiotics. , 2022, 230, 107970.		20
143	NMR and MS evidences for a random assembled O-specific chain structure in the LPS of the bacterium Xanthomonas campestris pv. Vitians. FEBS Journal, 2002, 269, 4185-4193.	0.2	19
144	Structural characterization of the carbohydrate backbone of the lipooligosaccharide of the marine bacterium Arenibacter certesii strain KMM 3941T. Carbohydrate Research, 2005, 340, 2540-2549.	2.3	19

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145	Full structural characterization of Shigella flexneri M90T serotype 5 wild-type R-LPS and its ÂgalU mutant: glycine residue location in the inner core of the lipopolysaccharide. Glycobiology, 2007, 18, 260-269.	2.5	19
146	Structural Study and Conformational Behavior of the Two Different Lipopolysaccharide Oâ€Antigens Produced by the Cystic Fibrosis Pathogen Burkholderia multivorans. Chemistry - A European Journal, 2009, 15, 7156-7166.	3.3	19
147	Different sugar residues of the lipopolysaccharide outer core are required for early interactions of Salmonella enterica serovars Typhi and Typhimurium with epithelial cells. Microbial Pathogenesis, 2011, 50, 70-80.	2.9	19
148	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
149	Structure of O-Antigen and Hybrid Biosynthetic Locus in Burkholderia cenocepacia Clonal Variants Recovered from a Cystic Fibrosis Patient. Frontiers in Microbiology, 2017, 8, 1027.	3.5	19
150	Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry. Analytical Chemistry, 2021, 93, 4666-4675.	6.5	19
151	Investigation of protein-ligand complexes by ligand-based NMR methods. Carbohydrate Research, 2021, 503, 108313.	2.3	19
152	Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. Scientific Reports, 2020, 10, 1589.	3.3	19
153	Mesoscopic and microstructural characterization of liposomes formed by the lipooligosaccharide from Salmonella minnesota strain 595 (Re mutant). Physical Chemistry Chemical Physics, 2009, 11, 2314.	2.8	18
154	The O-specific polysaccharide structure and gene cluster of serotype O:12 of the Yersinia pseudotuberculosis complex, and the identification of a novel L-quinovose biosynthesis gene. Glycobiology, 2013, 23, 346-353.	2.5	18
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