

Alba Silipo

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166
papers

4,021
citations

34
h-index

54
g-index

178
ext. papers

4,762
ext. citations

5.8
avg. IF

5.19
L-index

#	Paper	IF	Citations
166	Chitin-induced activation of immune signaling by the rice receptor CEBiP relies on a unique sandwich-type dimerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E404-13	11.5	212
165	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , 2015 , 21, 500-19	4.8	147
164	The elicitation of plant innate immunity by lipooligosaccharide of <i>Xanthomonas campestris</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 33660-8	5.4	145
163	Glyco-conjugates as elicitors or suppressors of plant innate immunity. <i>Glycobiology</i> , 2010 , 20, 406-19	5.8	141
162	Peptidoglycan and muropeptides from pathogens <i>Agrobacterium</i> and <i>Xanthomonas</i> elicit plant innate immunity: structure and activity. <i>Chemistry and Biology</i> , 2008 , 15, 438-48		113
161	Degradation of complex carbohydrate: immobilization of pectinase from <i>Bacillus licheniformis</i> KIBGE-IB21 using calcium alginate as a support. <i>Food Chemistry</i> , 2013 , 139, 1081-6	8.5	107
160	<i>Pseudomonas aeruginosa</i> exploits lipid A and muropeptides modification as a strategy to lower innate immunity during cystic fibrosis lung infection. <i>PLoS ONE</i> , 2009 , 4, e8439	3.7	93
159	Hopanoid lipids: from membranes to plant-bacteria interactions. <i>Nature Reviews Microbiology</i> , 2018 , 16, 304-315	22.2	91
158	Chemical basis of peptidoglycan discrimination by PrkC, a key kinase involved in bacterial resuscitation from dormancy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20676-9	16.4	79
157	Structural analysis and characterization of dextran produced by wild and mutant strains of <i>Leuconostoc mesenteroides</i> . <i>Carbohydrate Polymers</i> , 2014 , 99, 331-8	10.3	76
156	Ammonium hydroxide hydrolysis: a valuable support in the MALDI-TOF mass spectrometry analysis of Lipid A fatty acid distribution. <i>Journal of Lipid Research</i> , 2002 , 43, 2188-95	6.3	73
155	Intracellular <i>Shigella</i> remodels its LPS to dampen the innate immune recognition and evade inflammasome activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4345-54	11.5	71
154	Bacteriophage-resistant <i>Staphylococcus aureus</i> mutant confers broad immunity against staphylococcal infection in mice. <i>PLoS ONE</i> , 2010 , 5, e11720	3.7	68
153	Covalently linked hopanoid-lipid A improves outer-membrane resistance of a <i>Bradyrhizobium</i> symbiont of legumes. <i>Nature Communications</i> , 2014 , 5, 5106	17.4	67
152	Chemical and biological features of <i>Burkholderia cepacia</i> complex lipopolysaccharides. <i>Innate Immunity</i> , 2008 , 14, 127-44	2.7	65
151	The complete structure and pro-inflammatory activity of the lipooligosaccharide of the highly epidemic and virulent gram-negative bacterium <i>Burkholderia cenocepacia</i> ET-12 (strain J2315). <i>Chemistry - A European Journal</i> , 2007 , 13, 3501-11	4.8	60
150	New conditions for matrix-assisted laser desorption/ionization mass spectrometry of native bacterial R-type lipopolysaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 1829-34	2.2	59

149	Lipopolysaccharide structures from Agrobacterium and Rhizobiaceae species. <i>Carbohydrate Research</i> , 2008 , 343, 1924-33	2.9	55
148	Complete structural characterization of the lipid A fraction of a clinical strain of B. cepacia genomovar I lipopolysaccharide. <i>Glycobiology</i> , 2005 , 15, 561-70	5.8	53
147	Lipopolysaccharide structures of Gram-negative populations in the gut microbiota and effects on host interactions. <i>FEMS Microbiology Reviews</i> , 2019 , 43, 257-272	15.1	51
146	Biosynthesis and structure of the Burkholderia cenocepacia K56-2 lipopolysaccharide core oligosaccharide: truncation of the core oligosaccharide leads to increased binding and sensitivity to polymyxin B. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21738-51	5.4	50
145	The acylation and phosphorylation pattern of lipid A from Xanthomonas campestris strongly influence its ability to trigger the innate immune response in Arabidopsis. <i>ChemBioChem</i> , 2008 , 9, 896-904	3.8	49
144	"Rules of Engagement" of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. <i>ChemistryOpen</i> , 2016 , 5, 274-96	2.3	49
143	Specific hopanoid classes differentially affect free-living and symbiotic states of Bradyrhizobium diazoefficiens. <i>MBio</i> , 2015 , 6, e01251-15	7.8	44
142	Molecular structure of endotoxins from Gram-negative marine bacteria: an update. <i>Marine Drugs</i> , 2007 , 5, 85-112	6	44
141	Determination of fatty acid positions in native lipid A by positive and negative electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 378-83	2.2	43
140	Reflectron MALDI TOF and MALDI TOF/TOF mass spectrometry reveal novel structural details of native lipooligosaccharides. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 1135-42	2.2	40
139	An unusual galactofuranose lipopolysaccharide that ensures the intracellular survival of toxin-producing bacteria in their fungal host. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7476-80	16.4	40
138	Structural elucidation of the O-chain of the lipopolysaccharide from Xanthomonas campestris strain 8004. <i>Carbohydrate Research</i> , 2003 , 338, 277-81	2.9	40
137	Chemical Synthesis of a Complex-Type N-Glycan Containing a Core Fucose. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10600-10616	4.2	39
136	The antibacterial toxin colicin N binds to the inner core of lipopolysaccharide and close to its translocator protein. <i>Molecular Microbiology</i> , 2014 , 92, 440-52	4.1	37
135	Activation of Human Toll-like Receptor 4 (TLR4) by Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of Burkholderia cenocepacia. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21305-19	5.4	36
134	Novel ACE2-Independent Carbohydrate-Binding of SARS-CoV-2 Spike Protein to Host Lectins and Lung Microbiota		36
133	The Pleurotus ostreatus hydrophobin Vmh2 and its interaction with glucans. <i>Glycobiology</i> , 2010 , 20, 594-602	5.8	35
132	The diversity of the core oligosaccharide in lipopolysaccharides. <i>Sub-Cellular Biochemistry</i> , 2010 , 53, 69-99	5	34

131	Versatility of the Burkholderia cepacia complex for the biosynthesis of exopolysaccharides: a comparative structural investigation. <i>PLoS ONE</i> , 2014 , 9, e94372	3.7	33
130	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	5.4	32
129	Conformational analysis of a dermatan sulfate-derived tetrasaccharide by NMR, molecular modeling, and residual dipolar couplings. <i>ChemBioChem</i> , 2008 , 9, 240-52	3.8	31
128	Cancer Immunotherapy of TLR4 Agonist-Antigen Constructs Enhanced with Pathogen-Mimicking Magnetite Nanoparticles and Checkpoint Blockade of PD-L1. <i>Small</i> , 2019 , 15, e1803993	11	30
127	Weak Agonistic LPS Restores Intestinal Immune Homeostasis. <i>Molecular Therapy</i> , 2019 , 27, 1974-1991	11.7	29
126	Deciphering minimal antigenic epitopes associated with Burkholderia pseudomallei and Burkholderia mallei lipopolysaccharide O-antigens. <i>Nature Communications</i> , 2017 , 8, 115	17.4	29
125	Synthesis of bradyrhizose, a unique inositol-fused monosaccharide relevant to a Nod-factor independent nitrogen fixation. <i>Chemical Communications</i> , 2015 , 51, 6964-7	5.8	29
124	The structure and proinflammatory activity of the lipopolysaccharide from Burkholderia multivorans and the differences between clonal strains colonizing pre and posttransplanted lungs. <i>Glycobiology</i> , 2008 , 18, 871-81	5.8	29
123	Structure Elucidation of the Highly Heterogeneous Lipid A from the Lipopolysaccharide of the Gram-Negative Extremophile Bacterium Halomonas Magadiensis Strain 21 M1. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 2263-2271	3.2	29
122	Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. <i>Glycobiology</i> , 2012 , 22, 1387-98	5.8	28
121	Characterization of liposomes formed by lipopolysaccharides from Burkholderia cenocepacia, Burkholderia multivorans and Agrobacterium tumefaciens: from the molecular structure to the aggregate architecture. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13574-85	3.6	28
120	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. <i>Chemistry - A European Journal</i> , 2003 , 9, 1542-8	4.8	28
119	Burkholderia pseudomallei 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, 2295-302	4.9	27
118	Full structural characterization of the lipid A components from the Agrobacterium tumefaciens strain C58 lipopolysaccharide fraction. <i>Glycobiology</i> , 2004 , 14, 805-15	5.8	27
117	A novel lipid A from Halomonas magadiensis inhibits enteric LPS-induced human monocyte activation. <i>European Journal of Immunology</i> , 2006 , 36, 354-60	6.1	26
116	Chemical synthesis of glycans up to a 128-mer relevant to the O-antigen of Bacteroides vulgatus. <i>Nature Communications</i> , 2020 , 11, 4142	17.4	26
115	Insights on the conformational properties of hyaluronic acid by using NMR residual dipolar couplings and MD simulations. <i>Glycobiology</i> , 2010 , 20, 1208-16	5.8	24
114	Full Structural Characterisation of the Lipooligosaccharide of a Burkholderia pyrrocinia Clinical Isolate. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 4874-4883	3.2	24

113	A novel type of highly negatively charged lipooligosaccharide from <i>Pseudomonas stutzeri</i> OX1 possessing two 4,6-O-(1-carboxy)-ethylidene residues in the outer core region. <i>FEBS Journal</i> , 2004 , 271, 2691-704		24
112	Lipopolysaccharides 2010 , 133-153		24
111	Pairing LPS Structure with Its Immunomodulatory Effects on Human Cellular Models. <i>ACS Central Science</i> , 2020 , 6, 1602-1616	16.8	23
110	The structure of the lipooligosaccharide from <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> : the causal agent of the bacterial leaf blight in rice. <i>Carbohydrate Research</i> , 2016 , 427, 38-43	2.9	23
109	Interaction of lipopolysaccharides at intermolecular sites of the periplasmic Lpt transport assembly. <i>Scientific Reports</i> , 2017 , 7, 9715	4.9	22
108	NMR spectroscopic analysis reveals extensive binding interactions of complex xyloglucan oligosaccharides with the <i>Cellvibrio japonicus</i> glycoside hydrolase family 31 <i>Exylosidase</i> . <i>Chemistry - A European Journal</i> , 2012 , 18, 13395-404	4.8	21
107	Persistent cystic fibrosis isolate <i>Pseudomonas aeruginosa</i> strain RP73 exhibits an under-acylated LPS structure responsible of its low inflammatory activity. <i>Molecular Immunology</i> , 2015 , 63, 166-75	4.3	20
106	A unique bicyclic monosaccharide from the <i>Bradyrhizobium</i> lipopolysaccharide and its role in the molecular interaction with plants. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12610-2	16.4	20
105	The complete structure of the lipooligosaccharide from the halophilic bacterium <i>Pseudoalteromonas issachenkonii</i> KMM 3549T. <i>Carbohydrate Research</i> , 2004 , 339, 1985-93	2.9	20
104	The Lipid A from <i>Rhodopseudomonas palustris</i> Strain BisA53 LPS Possesses a Unique Structure and Low Immunostimulant Properties. <i>Chemistry - A European Journal</i> , 2017 , 23, 3637-3647	4.8	19
103	Structural characterizations of lipids A by MS/MS of doubly charged ions on a hybrid linear ion trap/orbitrap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 478-84	2.2	19
102	Structural characterization of the carbohydrate backbone of the lipooligosaccharide of the marine bacterium <i>Arenibacter certesii</i> strain KMM 3941(T). <i>Carbohydrate Research</i> , 2005 , 340, 2540-9	2.9	19
101	Complete Structural Elucidation of a Novel Lipooligosaccharide from the Outer Membrane of the Marine Bacterium <i>Shewanella pacifica</i> . <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 2281-2291	3.2	19
100	Synthesis of Bradyrhizose Oligosaccharides Relevant to the <i>Bradyrhizobium</i> O-Antigen. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2092-2096	16.4	18
99	Gram-Negative Extremophile Lipopolysaccharides: Promising Source of Inspiration for a New Generation of Endotoxin Antagonists. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 4055-4073	3.2	18
98	Structural study and conformational behavior of the two different lipopolysaccharide O-antigens produced by the cystic fibrosis pathogen <i>Burkholderia multivorans</i> . <i>Chemistry - A European Journal</i> , 2009 , 15, 7156-66	4.8	18
97	Full structural characterization of <i>Shigella flexneri</i> M90T serotype 5 wild-type R-LPS and its delta galU mutant: glycine residue location in the inner core of the lipopolysaccharide. <i>Glycobiology</i> , 2008 , 18, 260-9	5.8	18
96	Chemistry and biology of the potent endotoxin from a <i>Burkholderia dolosa</i> clinical isolate from a cystic fibrosis patient. <i>ChemBioChem</i> , 2013 , 14, 1105-15	3.8	17

95	Mesoscopic and microstructural characterization of liposomes formed by the lipooligosaccharide from <i>Salmonella minnesota</i> strain 595 (Re mutant). <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2314-22 ^{3,6}	17
94	The lipopolysaccharide core oligosaccharide of plays a critical role in maintaining a proper gut symbiosis with the bean bug. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19226-19237	5.4 16
93	New tagged naplephos ligands for asymmetric allylic substitutions under traditional and unconventional conditions. <i>Tetrahedron</i> , 2011 , 67, 4826-4831	2.4 15
92	First structural characterization of <i>Burkholderia vietnamiensis</i> lipooligosaccharide from cystic fibrosis-associated lung transplantation strains. <i>Glycobiology</i> , 2009 , 19, 1214-23	5.8 15
91	A novel rhamno-mannan exopolysaccharide isolated from biofilms of <i>Burkholderia multivorans</i> C1576. <i>Carbohydrate Research</i> , 2015 , 411, 42-8	2.9 14
90	Structure and inflammatory activity of the LPS isolated from <i>Acetobacter pasteurianus</i> CIP103108. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 1027-1035	7.9 14
89	Different sugar residues of the lipopolysaccharide outer core are required for early interactions of <i>Salmonella enterica</i> serovars Typhi and Typhimurium with epithelial cells. <i>Microbial Pathogenesis</i> , 2011 , 50, 70-80	3.8 14
88	The lipid A of <i>Burkholderia multivorans</i> C1576 smooth-type lipopolysaccharide and its pro-inflammatory activity in a cystic fibrosis airways model. <i>Innate Immunity</i> , 2010 , 16, 354-65	2.7 14
87	The structure of the phosphorylated carbohydrate backbone of the lipopolysaccharide of the phytopathogen bacterium <i>Pseudomonas tolaasii</i> . <i>Carbohydrate Research</i> , 2004 , 339, 2241-8	2.9 14
86	Structural determination of lipid A of the lipopolysaccharide from <i>Pseudomonas reactans</i> . A pathogen of cultivated mushrooms. <i>FEBS Journal</i> , 2002 , 269, 2498-505	14
85	The O-chain structure from the LPS of marine halophilic bacterium <i>Pseudoalteromonas carrageenovora</i> -type strain IAM 12662T. <i>Carbohydrate Research</i> , 2005 , 340, 2693-7	2.9 14
84	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	7.9 13
83	Full Structural Characterization of an Extracellular Polysaccharide Produced by the Freshwater Cyanobacterium <i>Oscillatoria planktothrix</i> FP1. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 5594-5600 ^{3,2}	13
82	An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxin-Producing Bacteria in Their Fungal Host. <i>Angewandte Chemie</i> , 2010 , 122, 7638-7642	3.6 13
81	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. <i>iScience</i> , 2020 , 23, 101231	6.1 13
80	Lipopolysaccharide from Gut-Associated Lymphoid-Tissue-Resident <i>Alcaligenes faecalis</i> : Complete Structure Determination and Chemical Synthesis of Its Lipid A. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10023-10031	16.4 13
79	A Journey from Structure to Function of Bacterial Lipopolysaccharides. <i>Chemical Reviews</i> , 2021 ,	68.1 13
78	Chapter 3:Lipopolysaccharides as Microbe-associated Molecular Patterns: A Structural Perspective. <i>RSC Drug Discovery Series</i> , 2015 , 38-63	0.6 12

77	Zymomonas mobilis exopolysaccharide structure and role in high ethanol tolerance. <i>Carbohydrate Polymers</i> , 2018 , 201, 293-299	10.3	12
76	Structure, genetics and function of an exopolysaccharide produced by a bacterium living within fungal hyphae. <i>ChemBioChem</i> , 2015 , 16, 387-92	3.8	12
75	The complete structure of the core carbohydrate backbone from the LPS of marine halophilic bacterium Pseudoalteromonas carrageenovora type strain IAM 12662T. <i>Carbohydrate Research</i> , 2005 , 340, 1475-82	2.9	12
74	Characterisation of the Dynamic Interactions between Complex N-Glycans and Human CD22. <i>ChemBioChem</i> , 2020 , 21, 129-140	3.8	12
73	The Deep-Sea Polyextremophile Halobacteroides lacunaris TB21 Rough-Type LPS: Structure and Inhibitory Activity towards Toxic LPS. <i>Marine Drugs</i> , 2017 , 15,	6	11
72	Convergent Synthesis of a Bisecting N-Acetylglucosamine (GlcNAc)-Containing N-Glycan. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1544-1551	4.5	11
71	The Very Long Chain Fatty Acid (C:25OH) Linked to the Lipid A Is Important for the Fitness of the Photosynthetic Strain ORS278 and the Establishment of a Successful Symbiosis with Legumes. <i>Frontiers in Microbiology</i> , 2017 , 8, 1821	5.7	11
70	Structural characterization of two lipopolysaccharide O-antigens produced by the endofungal bacterium Burkholderia sp. HKI-402 (B4). <i>Carbohydrate Research</i> , 2012 , 347, 95-8	2.9	11
69	Lipid A Structure 2011 , 1-20		11
68	The structure of the O-specific polysaccharide from the lipopolysaccharide of Burkholderia anthina. <i>Carbohydrate Research</i> , 2009 , 344, 1697-700	2.9	11
67	Structural Analysis of a Novel Polysaccharide of the Lipopolysaccharide-Deficient Extremophile Gram-Negative Bacterium Thermus thermophilus HB8. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 5047-5054	3.2	11
66	Determination of the Structure of the Lipid A Fraction from the Lipopolysaccharide of Pseudomonas Cichorii by Means of NMR and MALDI-TOF Mass Spectrometry. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 3119-3125	3.2	11
65	Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. <i>Scientific Reports</i> , 2020 , 10, 1589	4.9	11
64	Adaptive defence-related changes in the metabolome of Sorghum bicolor cells in response to lipopolysaccharides of the pathogen Burkholderia andropogonis. <i>Scientific Reports</i> , 2020 , 10, 7626	4.9	10
63	Structural and conformational study of the O-polysaccharide produced by the metabolically versatile photosynthetic bacterium Rhodospseudomonas palustris strain BisA53. <i>Carbohydrate Polymers</i> , 2014 , 114, 384-391	10.3	10
62	Against the rules: a marine bacterium, Loktanella rosea, possesses a unique lipopolysaccharide. <i>Glycobiology</i> , 2010 , 20, 586-93	5.8	10
61	The structure of the carbohydrate backbone of the lipooligosaccharide from the halophilic bacterium Arcobacter halophilus. <i>Carbohydrate Research</i> , 2010 , 345, 850-3	2.9	10
60	A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of Mycobacterium tuberculosis Ser/Thr Kinase PknB. <i>ChemBioChem</i> , 2017 , 18, 2094-2098	3.8	9

59	Structure of the Lipopolysaccharide from the sp. ORS285 Mutant Strain. <i>ChemistryOpen</i> , 2017 , 6, 541-553.	3.3	9
58	Structure of O-Antigen and Hybrid Biosynthetic Locus in Clonal Variants Recovered from a Cystic Fibrosis Patient. <i>Frontiers in Microbiology</i> , 2017 , 8, 1027	5.7	9
57	The Structure of the O-Chain Polysaccharide from the Gram-Negative Endophytic Bacterium <i>Burkholderia phytofirmans</i> Strain PsJN. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 2303-2308	3.2	9
56	The Structures of the Lipid A Moieties from the Lipopolysaccharides of Two Phytopathogenic Bacteria, <i>Xanthomonas campestris</i> pv. <i>pruni</i> and <i>Xanthomonas fragariae</i> . <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 1336-1343	3.2	9
55	Investigation of protein-ligand complexes by ligand-based NMR methods. <i>Carbohydrate Research</i> , 2021 , 503, 108313	2.9	9
54	Solid State NMR Studies of Intact Lipopolysaccharide Endotoxin. <i>ACS Chemical Biology</i> , 2018 , 13, 2106-2113	4.3	9
53	<i>Xanthomonas citri</i> pv. <i>citri</i> Pathotypes: LPS Structure and Function as Microbe-Associated Molecular Patterns. <i>ChemBioChem</i> , 2017 , 18, 772-781	3.8	8
52	Structure of the unusual HH103 lipopolysaccharide and its role in symbiosis. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10969-10987	5.4	8
51	Unraveling the interaction between the LPS O-antigen of <i>Burkholderia anthina</i> and the 5D8 monoclonal antibody by using a multidisciplinary chemical approach, with synthesis, NMR, and molecular modeling methods. <i>ChemBioChem</i> , 2013 , 14, 1485-93	3.8	8
50	The structure of the carbohydrate backbone of the lipooligosaccharide from an alkaliphilic <i>Halomonas</i> sp. <i>Carbohydrate Research</i> , 2010 , 345, 1971-5	2.9	8
49	Recent advances on smart glycoconjugate vaccines in infections and cancer. <i>FEBS Journal</i> , 2021 ,	5.7	8
48	Structural Study of the Lipopolysaccharide O-Antigen Produced by the Emerging Cystic Fibrosis Pathogen <i>Pandoraea pulmonicola</i> . <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 2243-2249	3.2	7
47	A Unique Bicyclic Monosaccharide from the Bradyrhizobium Lipopolysaccharide and Its Role in the Molecular Interaction with Plants. <i>Angewandte Chemie</i> , 2011 , 123, 12818-12820	3.6	7
46	An antagonist of lipid A action in mammals has complex effects on lipid A induction of defence responses in the model plant <i>Arabidopsis thaliana</i> . <i>Microbes and Infection</i> , 2008 , 10, 571-4	9.3	7
45	Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 4666-4675	7.8	7
44	Understanding the Antibacterial Resistance: Computational Explorations in Bacterial Membranes. <i>ACS Omega</i> , 2021 , 6, 6041-6054	3.9	7
43	Synthesis of the tetrasaccharide outer core fragment of <i>Burkholderia multivorans</i> lipooligosaccharide. <i>Carbohydrate Research</i> , 2015 , 403, 182-91	2.9	6
42	Structure of the lipopolysaccharide isolated from the novel species <i>Uruburuella suis</i> . <i>Carbohydrate Research</i> , 2012 , 357, 75-82	2.9	6

41	Lipopolysaccharide structure and biological activity from the cystic fibrosis pathogens Burkholderia cepacia complex. <i>Carbohydrate Chemistry</i> , 2012 , 13-39	3	6
40	Structural Elucidation of a Novel B. cenocepacia ET-12 Lipooligosaccharide Isolated from a Cystic Fibrosis Patient after Lung Transplantation. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 1299-1306	3.2	6
39	Lipid A: Immunological Properties and Molecular Basis of Its Binding to the Myeloid Differentiation Protein-2/Toll-Like Receptor 4 Complex. <i>Frontiers in Immunology</i> , 2018 , 9, 1888	8.4	6
38	Lipid A Structure and Immunoinhibitory Effect of the Marine Bacterium Cobetia pacifica KMM 3879T. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 2707-2716	3.2	5
37	NMR analysis of the binding mode of two fungal endo- β 1,4-mannanases from GH5 and GH26 families. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 314-22	3.9	5
36	Synthesis of Forsythenethoside A, a Neuroprotective Macrocyclic Phenylethanoid Glycoside, and NMR Analysis of Conformers. <i>Journal of Organic Chemistry</i> , 2019 , 84, 13733-13743	4.2	5
35	Efficient synthesis of O-antigen fragments expressed by Burkholderia anthina by modular synthesis approach. <i>Carbohydrate Research</i> , 2015 , 404, 98-107	2.9	5
34	Current analytical methods to study plant water extracts: the example of two mushrooms species, Inonotus hispidus and Sparassis crispa. <i>Phytochemical Analysis</i> , 2007 , 18, 33-41	3.4	5
33	Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. <i>Carbohydrate Polymers</i> , 2022 , 277, 118885	10.3	5
32	Prevotella denticola Lipopolysaccharide from a Cystic Fibrosis Isolate Possesses a Unique Chemical Structure. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 1732-1738	3.2	5
31	Synthesis of Bradyrhizose Oligosaccharides Relevant to the Bradyrhizobium O-Antigen. <i>Angewandte Chemie</i> , 2017 , 129, 2124-2128	3.6	4
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