Alla Zamyatina

List of Publications by Year
in descending order

44 papers	1,451 citations	471061 17 h-index	344852 36 g-index
55 all docs	55 docs citations	55 times ranked	1627 citing authors

#	Article	IF	Citations
1	Lipopolysaccharide lipid A: A promising molecule for new immunity-based therapies and antibiotics. , 2022, 230, 107970.		20
2	Lipid A mimetics based on unnatural disaccharide scaffold as potent TLR4 agonists for prospective immunotherapeutics and adjuvants. Chemistry - A European Journal, 2022, , .	1.7	4
3	Tailored Modulation of Cellular Pro-inflammatory Responses With Disaccharide Lipid A Mimetics. Frontiers in Immunology, 2021, 12, 631797.	2.2	8
4	Rational Vaccine Design in Times of Emerging Diseases: The Critical Choices of Immunological Correlates of Protection, Vaccine Antigen and Immunomodulation. Pharmaceutics, 2021, 13, 501.	2.0	15
5	Lipopolysaccharide Recognition in the Crossroads of TLR4 and Caspase-4/11 Mediated Inflammatory Pathways. Frontiers in Immunology, 2020, 11, 585146.	2.2	94
6	Shortening the Lipid A Acyl Chains of Bordetella pertussis Enables Depletion of Lipopolysaccharide Endotoxic Activity. Vaccines, 2020, 8, 594.	2.1	13
7	Synthesis of bioactive lipid A and analogs. , 2020, , 51-102.		0
8	Synthetic glycan-based TLR4 agonists targeting caspase-4/11 for the development of adjuvants and immunotherapeutics. Chemical Science, 2018, 9, 3957-3963.	3.7	17
9	ADPâ€heptose is a newly identified pathogenâ€associated molecular pattern of <i>Shigella flexneri</i>. EMBO Reports, 2018, 19, .	2.0	34
10	Disaccharideâ€Based Anionic Amphiphiles as Potent Inhibitors of Lipopolysaccharideâ€Induced Inflammation. ChemMedChem, 2018, 13, 2317-2331.	1.6	15
11	Aminosugar-based immunomodulator lipid A: synthetic approaches. Beilstein Journal of Organic Chemistry, 2018, 14, 25-53.	1.3	19
12	Alpha-kinase 1 is a cytosolic innate immune receptor for bacterial ADP-heptose. Nature, 2018, 561, 122-126.	13.7	165
13	Chemical synthesis of the innate immune modulator â€“ bacterial d - glycero -Î²- d - manno-heptose-1,7-bisphosphate (HBP). Tetrahedron Letters, 2017, 58, 2826-2829.	0.7	15
14	Stereoselective Synthesis of Î±- and Î²-<scp>l</scp>-Ara4N Glycosyl H-Phosphonates and a Neoglycoconjugate Comprising Glycosyl Phosphodiester Linked Î²-<scp>l</scp>-Ara4N. Organic Letters, 2017, 19, 78-81.	2.4	5
15	ALPK1- and TIFA-Dependent Innate Immune Response Triggered by the Helicobacter pylori Type IV Secretion System. Cell Reports, 2017, 20, 2384-2395.	2.9	139
16	Chemical Synthesis of <i>Burkholderia</i> Lipidâ€…A Modified with Glycosyl Phosphodiesterâ€Linked 4â€Aminoâ€4â€deoxyâ€Î²â€<scp>L</scp>â€arabinose and Its Immunomodulatory Potential. Chemistry - A European Journal, 2015, 21, 4102-4114.	1.7	18
17	Anti-endotoxic activity and structural basis for human MD-2Â·TLR4 antagonism of tetraacylated lipid A mimetics based on Î²GlcN(1â†”1)Î±GlcN scaffold. Innate Immunity, 2015, 21, 490-503.	1.1	15
18	Species and mediator specific TLR4 antagonism in primary human and murine immune cells by Î²GlcN(1â†”1)Î±Glc based lipid A mimetics. Molecular Immunology, 2015, 67, 636-641.	1.0	10

#	Article	IF	Citations
19	Chemistry of Lipidâ€…A: At the Heart of Innate Immunity. Chemistry - A European Journal, 2015, 21, 477-477.	1.7	1
20	Chemistry of Lipidâ€…A: At the Heart of Innate Immunity. Chemistry - A European Journal, 2015, 21, 500-519.	1.7	193
21	Development of Î±GlcN(1â†”1)Î±Man-Based Lipid A Mimetics as a Novel Class of Potent Toll-like Receptor 4 Agonists. Journal of Medicinal Chemistry, 2014, 57, 8056-8071.	2.9	25
22	Synthesis of Zwitterionic 1,1â€²-Glycosylphosphodiester: A Partial Structure of Galactosamine-Modified Francisella Lipid A. Organic Letters, 2014, 16, 3772-3775.	2.4	9
23	An Iron-Containing Dodecameric Heptosyltransferase Family Modifies Bacterial Autotransporters in Pathogenesis. Cell Host and Microbe, 2014, 16, 351-363.	5.1	47
24	A structural mechanism for bacterial autotransporter glycosylation by a dodecameric heptosyltransferase family. ELife, 2014, 3, .	2.8	30
25	Conformationally Constrained Lipid A Mimetics for Exploration of Structural Basis of TLR4/MD-2 Activation by Lipopolysaccharide. ACS Chemical Biology, 2013, 8, 2423-2432.	1.6	45
26	Chemical Synthesis of Lipopolysaccharide Core. , 2011, , 131-161.		2
27	Crystal and molecular structure of methyl l-glycero-Î±-d-manno-heptopyranoside, and synthesis of 1â†’7 linked l-glycero-d-manno-heptobiose and its methyl Î±-glycoside. Carbohydrate Research, 2011, 346, 1739-1746.	1.1	11
28	Synthesis of lipid A and inner-core lipopolysaccharide (LPS) ligands containing 4-amino-4-deoxy-L-arabinose units. Pure and Applied Chemistry, 2011, 84, 11-21.	0.9	7
29	Efficient Synthesis of 4-Amino-4-deoxy-l-arabinose and Spacer-Equipped 4-Amino-4-deoxy-l-arabinopyranosides by Transglycosylation Reactions. Synthesis, 2010, 2010, 3143-3151.	1.2	10
30	Hemoglobin Enhances the Biological Activity of Synthetic and Natural Bacterial (Endotoxic) Virulence Factors: A General Principle. Medicinal Chemistry, 2008, 4, 520-525.	0.7	22
31	Investigation on the agonistic and antagonistic biological activities of synthetic Chlamydia lipid A and its use in in vitro enzymatic assays. Journal of Endotoxin Research, 2007, 13, 126-132.	2.5	17
32	Synthesis of C-glycosidically linked ADP glycero-Î²-d-manno-heptose analogues. Tetrahedron: Asymmetry, 2007, 18, 115-122.	1.8	11
33	Synthesis of a deoxy analogue of ADP l-glycero-d-manno-heptose. Carbohydrate Research, 2007, 342, 2537-2545.	1.1	11
34	Synthesis of C-glycosides related to glycero-Î²-d-manno-heptoses. Tetrahedron: Asymmetry, 2005, 16, 167-175.	1.8	19
35	Synthesis and purity assessment of tetra- and pentaacyl lipid A of Chlamydia containing (R)-3-hydroxyicosanoic acid. Tetrahedron, 2004, 60, 12113-12137.	1.0	15
36	A convenient synthesis of GDP d-glycero-Î±-d-manno-heptopyranose. Carbohydrate Research, 2004, 339, 147-151.	1.1	10

#	Article	IF	Citations
37	Efficient chemical synthesis of both anomers of ADP l-glycero- and d-glycero-d-manno-heptopyranose. Carbohydrate Research, 2003, 338, 2571-2589.	1.1	59
38	Biosynthesis Pathway of ADP-l-glycero-Î²-d-manno-Heptose in Escherichia coli. Journal of Bacteriology, 2002, 184, 363-369.	1.0	177
39	CHEMICAL SYNTHESIS AND BIOSYNTHETIC PATHWAYS OF NUCLEOTIDE-ACTIVATED HEPTOSES. , 2002, , .		0
40	Characterization of the physiological substrate for lipopolysaccharide heptosyltransferases I and II. Journal of Endotoxin Research, 2001, 7, 263-270.	2.5	2
41	Efficient Chemical Synthesis of the Two Anomers of ADP-L-glycero-andD-glycero-D-manno-Heptopyranose Allows the Determination of the Substrate Specificities of Bacterial Heptosyltransferases. Angewandte Chemie - International Edition, 2000, 39, 4150-4153.	7.2	56
42	Synthesis of Pseudomonasaeruginosa lipopolysaccharide core antigens containing 7-O-carbamoyl-l-glycero-Î±-d-manno-heptopyranosyl residues. Carbohydrate Research, 1999, 317, 39-52.	1.1	7
43	The synthesis of		