

Alla Zamyatina

List of Publications by Year in descending order

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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	Chemistry of Lipid A: At the Heart of Innate Immunity. <i>Chemistry - A European Journal</i> , 2015, 21, 500-519.	1.7	193
2	Biosynthesis Pathway of ADP-l-glycero- β -d-manno-Heptose in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2002, 184, 363-369.	1.0	177
3	Alpha-kinase 1 is a cytosolic innate immune receptor for bacterial ADP-heptose. <i>Nature</i> , 2018, 561, 122-126.	13.7	165
4	ALPK1- and TIFA-Dependent Innate Immune Response Triggered by the <i>Helicobacter pylori</i> Type IV Secretion System. <i>Cell Reports</i> , 2017, 20, 2384-2395.	2.9	139
5	Lipopolysaccharide Recognition in the Crossroads of TLR4 and Caspase-4/11 Mediated Inflammatory Pathways. <i>Frontiers in Immunology</i> , 2020, 11, 585146.	2.2	94
6	Efficient chemical synthesis of both anomers of ADP l-glycero- and d-glycero-d-manno-heptopyranose. <i>Carbohydrate Research</i> , 2003, 338, 2571-2589.	1.1	59
7	Efficient Chemical Synthesis of the Two Anomers of ADP-L-glycero- and D-glycero-D-manno-Heptopyranose Allows the Determination of the Substrate Specificities of Bacterial Heptosyltransferases. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4150-4153.	7.2	56
8	An Iron-Containing Dodecameric Heptosyltransferase Family Modifies Bacterial Autotransporters in Pathogenesis. <i>Cell Host and Microbe</i> , 2014, 16, 351-363.	5.1	47
9	Conformationally Constrained Lipid A Mimetics for Exploration of Structural Basis of TLR4/MD-2 Activation by Lipopolysaccharide. <i>ACS Chemical Biology</i> , 2013, 8, 2423-2432.	1.6	45
10	ADP-heptose is a newly identified pathogen-associated molecular pattern of <i>Shigella flexneri</i> . <i>EMBO Reports</i> , 2018, 19, .	2.0	34
11	A structural mechanism for bacterial autotransporter glycosylation by a dodecameric heptosyltransferase family. <i>ELife</i> , 2014, 3, .	2.8	30
12	Development of β -GlcN(1 \rightarrow 1) β -Man-Based Lipid A Mimetics as a Novel Class of Potent Toll-like Receptor 4 Agonists. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 8056-8071.	2.9	25
13	Hemoglobin Enhances the Biological Activity of Synthetic and Natural Bacterial (Endotoxic) Virulence Factors: A General Principle. <i>Medicinal Chemistry</i> , 2008, 4, 520-525.	0.7	22
14	Lipopolysaccharide lipid A: A promising molecule for new immunity-based therapies and antibiotics. , 2022, 230, 107970.		20
15	Synthesis of C-glycosides related to glycero- β -d-manno-heptoses. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 167-175.	1.8	19
16	Aminosugar-based immunomodulator lipid A: synthetic approaches. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 25-53.	1.3	19
17	Chemical Synthesis of <i>Burkholderia</i> Lipid A Modified with Glycosyl Phosphodiester-Linked 4-Amino-4-deoxy- β -L-rabinose and Its Immunomodulatory Potential. <i>Chemistry - A European Journal</i> , 2015, 21, 4102-4114.	1.7	18
18	Investigation on the agonistic and antagonistic biological activities of synthetic <i>Chlamydia</i> lipid A and its use in in vitro enzymatic assays. <i>Journal of Endotoxin Research</i> , 2007, 13, 126-132.	2.5	17

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19	Synthetic glycan-based TLR4 agonists targeting caspase-4/11 for the development of adjuvants and immunotherapeutics. <i>Chemical Science</i> , 2018, 9, 3957-3963.	3.7	17
20	Synthesis and purity assessment of tetra- and pentaacyl lipid A of <i>Chlamydia</i> containing (R)-3-hydroxyicosanoic acid. <i>Tetrahedron</i> , 2004, 60, 12113-12137.	1.0	15
21	Anti-endotoxic activity and structural basis for human MD-2-TLR4 antagonism of tetraacylated lipid A mimetics based on β -GlcN(1 \rightarrow 1) β -GlcN scaffold. <i>Innate Immunity</i> , 2015, 21, 490-503.	1.1	15
22	Chemical synthesis of the innate immune modulator α - bacterial d - glycerol - d - manno-heptose-1,7-bisphosphate (HBP). <i>Tetrahedron Letters</i> , 2017, 58, 2826-2829.	0.7	15
23	Disaccharide-Based Anionic Amphiphiles as Potent Inhibitors of Lipopolysaccharide-Induced Inflammation. <i>ChemMedChem</i> , 2018, 13, 2317-2331.	1.6	15
24	Rational Vaccine Design in Times of Emerging Diseases: The Critical Choices of Immunological Correlates of Protection, Vaccine Antigen and Immunomodulation. <i>Pharmaceutics</i> , 2021, 13, 501.	2.0	15
25	Shortening the Lipid A Acyl Chains of <i>Bordetella pertussis</i> Enables Depletion of Lipopolysaccharide Endotoxic Activity. <i>Vaccines</i> , 2020, 8, 594.	2.1	13
26	Synthesis of C-glycosidically linked ADP glycerol-d-manno-heptose analogues. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 115-122.	1.8	11
27	Synthesis of a deoxy analogue of ADP l-glycerol-d-manno-heptose. <i>Carbohydrate Research</i> , 2007, 342, 2537-2545.	1.1	11
28	Crystal and molecular structure of methyl l-glycerol-d-manno-heptopyranoside, and synthesis of 1 \rightarrow 7 linked l-glycerol-d-manno-heptobiose and its methyl β -glycoside. <i>Carbohydrate Research</i> , 2011, 346, 1739-1746.	1.1	11
29	A convenient synthesis of GDP d-glycerol-d-manno-heptopyranose. <i>Carbohydrate Research</i> , 2004, 339, 147-151.	1.1	10
30	Efficient Synthesis of 4-Amino-4-deoxy-l-arabinose and Spacer-Equipped 4-Amino-4-deoxy-l-arabinopyranosides by Transglycosylation Reactions. <i>Synthesis</i> , 2010, 2010, 3143-3151.	1.2	10
31	Species and mediator specific TLR4 antagonism in primary human and murine immune cells by β -GlcN(1 \rightarrow 1) β -Glc based lipid A mimetics. <i>Molecular Immunology</i> , 2015, 67, 636-641.	1.0	10
32	Synthesis of Zwitterionic 1,1 \rightarrow 2-Glycosylphosphodiester: A Partial Structure of Galactosamine-Modified <i>Francisella</i> Lipid A. <i>Organic Letters</i> , 2014, 16, 3772-3775.	2.4	9
33	Tailored Modulation of Cellular Pro-inflammatory Responses With Disaccharide Lipid A Mimetics. <i>Frontiers in Immunology</i> , 2021, 12, 631797.	2.2	8
34	The synthesis of		

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37	Stereoselective Synthesis of 1±- and 1²- Ara4N Glycosyl H-Phosphonates and a Neoglycoconjugate Comprising Glycosyl Phosphodiester Linked 1²- Ara4N. Organic Letters, 2017, 19, 78-81.	2.4	5
38	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
39	Chemical Synthesis of Lipopolysaccharide Core. , 2011, , 131-161.		2
40	Characterization of the physiological substrate for lipopolysaccharide heptosyltransferases I and II. Journal of Endotoxin Research, 2001, 7, 263-270.	2.5	2
41	Chemistry of Lipid A: At the Heart of Innate Immunity. Chemistry - A European Journal, 2015, 21, 477-477.	1.7	1
42	Synthesis of bioactive lipid A and analogs. , 2020, , 51-102.		0
43	CHEMICAL SYNTHESIS AND BIOSYNTHETIC PATHWAYS OF NUCLEOTIDE-ACTIVATED HEPTOSES. , 2002, , .		0
44	ALPK1 and TIFA Dependent Innate Immune Response Triggered by the <i></i>Helicobacter pylori <i></i>Type IV Secretion System. SSRN Electronic Journal, 0, , .	0.4	0