

Alexander Chizhov

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100 papers	1,337 citations	18 h-index	33 g-index
107 ext. papers	1,574 ext. citations	3 avg, IF	4.22 L-index

#	Paper	IF	Citations
100	Water-soluble polysaccharides of some far-eastern brown seaweeds. Distribution, structure, and their dependence on the developmental conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2003 , 294, 1-13	2.1	159
99	Mechanistic insight into organic and catalytic reactions by joint studies using mass spectrometry and NMR spectroscopy. <i>Mendeleev Communications</i> , 2010 , 20, 125-131	1.9	156
98	How sensitive and accurate are routine NMR and MS measurements?. <i>Mendeleev Communications</i> , 2015 , 25, 454-456	1.9	84
97	Structural analysis of laminarans by MALDI and FAB mass spectrometry. <i>Carbohydrate Research</i> , 1998 , 310, 203-210	2.9	78
96	Synthesis and molecular recognition studies of the HNK-1 trisaccharide and related oligosaccharides. The specificity of monoclonal anti-HNK-1 antibodies as assessed by surface plasmon resonance and STD NMR. <i>Journal of the American Chemical Society</i> , 2012 , 134, 426-35	16.4	70
95	Chemical structure and biological activity of a highly branched (1- α ,1- β)-D-glucan from <i>Isochrysis galbana</i> . <i>Carbohydrate Polymers</i> , 2014 , 111, 139-48	10.3	55
94	Synthesis, NMR, and Conformational Studies of Cyclic Oligo-(1- β)-D-Glucosamines. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 2465-2475	3.2	31
93	Structure and Function of the Branched Receptor-Binding Complex of Bacteriophage CBA120. <i>Journal of Molecular Biology</i> , 2019 , 431, 3718-3739	6.5	28
92	Polyalkoxybenzenes from plant raw materials 1. Isolation of polyalkoxybenzenes from CO ₂ extracts of Umbelliferae plant seeds. <i>Russian Chemical Bulletin</i> , 2007 , 56, 2448-2455	1.7	27
91	The use of O-trifluoroacetyl protection and profound influence of the nature of glycosyl acceptor in benzyl-free arabinofuranosylation. <i>Carbohydrate Research</i> , 2014 , 396, 25-36	2.9	25
90	Methylsulfanyl-Stabilized Rotamers of Cobalt Bis(dicarbollide). <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 4444-4451	2.3	24
89	Synthesis of 3-aminopropyl glycosides of linear α -(1- β)-D-glucooligosaccharides. <i>Carbohydrate Research</i> , 2016 , 419, 8-17	2.9	22
88	Chiral Primary Amine Tagged to Ionic Group as Reusable Organocatalyst for Asymmetric Michael Reactions of C-Nucleophiles with α -Unsaturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 3078-3086	5.6	22
87	Novel Benzyl-Free Glycosyl Donors for Highly Stereoselective 1,2-cis-Fucosylation. <i>Synlett</i> , 2015 , 26, 2267-2271	2.0	20
86	Branching of the galacturonan backbone of comaruman, a pectin from the marsh cinquefoil <i>Comarum palustre</i> L. <i>Biochemistry (Moscow)</i> , 2006 , 71, 538-42	2.9	20
85	Modification of the length and structure of the linker of N(6)-benzyladenosine modulates its selective antiviral activity against enterovirus 71. <i>European Journal of Medicinal Chemistry</i> , 2016 , 111, 84-94	6.8	19
84	Bimodal concentration-dependent reactivity pattern of a glycosyl donor: Is the solution structure involved?. <i>Carbohydrate Research</i> , 2017 , 437, 28-35	2.9	19

83	Stereochemistry of intramolecular cyclization of tetra- β (1-6)-D-glucosamines and related tetrasaccharides: the role of the conformational stereocontrol and the neighboring group participation. <i>Carbohydrate Research</i> , 2013 , 381, 161-78	2.9	18
82	Rapid synthesis of linear homologous oligoarabinofuranosides related to mycobacterial lipoarabinomannan and a neoglycoconjugate thereof. <i>Carbohydrate Research</i> , 2016 , 431, 25-32	2.9	17
81	Mechanisms of <i>Acinetobacter baumannii</i> Capsular Polysaccharide Cleavage by Phage Depolymerases. <i>Biochemistry (Moscow)</i> , 2020 , 85, 567-574	2.9	16
80	Structural studies on pectin from marsh cinquefoil <i>Comarum palustre</i> L. <i>Biochemistry (Moscow)</i> , 2005 , 70, 867-77	2.9	14
79	Specific Interaction of Novel Phages Encoding Tailspike Depolymerases with Corresponding Capsular Types. <i>Journal of Virology</i> , 2020 ,	6.6	14
78	Synthesis of hexasaccharide fragment of lipoarabinomannan from <i>Mycobacteria</i> : advantages of the benzyl-free approach. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1149-1162	1.7	13
77	gem-dichloro(alkyl)cyclopropanes in reactions with NOCl/SO_3 : Synthesis of alkyl-5-chloroisoxazoles. <i>Russian Chemical Bulletin</i> , 2011 , 60, 328-333	1.7	13
76	A Novel Glycosyl Donor with a Triisopropylsilyl Nonparticipating Group in Benzyl-Free Stereoselective 1,2-cis-Galactosylation. <i>Synlett</i> , 2017 , 28, 1608-1613	2.2	12
75	Synthesis of a disaccharide of phenolic glycolipid from <i>Mycobacterium leprae</i> (PGL-I) and its conjugates with bovine serum albumin. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1142-1148	1.7	12
74	4-(2-Chloroethoxy)phenol-terminated oligomerization of 3-O-benzoyl- β -arabinofuranose 1,2,5-ortho-benzoate. <i>Russian Chemical Bulletin</i> , 2014 , 63, 497-500	1.7	12
73	Conjugates of polyhedral boron compounds with carbohydrates 8. Synthesis and properties of nido-ortho-carborane glycoconjugates containing one to three β -lactosylamine residues. <i>Russian Chemical Bulletin</i> , 2011 , 60, 2359-2364	1.7	12
72	Structure of tanacetan, a pectic polysaccharide from tansy <i>Tanacetum vulgare</i> L. <i>Biochemistry (Moscow)</i> , 2002 , 67, 1371-6	2.9	12
71	Stereoselective sialylation with O-trifluoroacetylated thiosialosides: hydrogen bonding involved?. <i>Carbohydrate Research</i> , 2017 , 451, 12-28	2.9	11
70	Scaffold hopping: exploration of acetanilide-containing uracil analogues as potential NNRTIs. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1069-81	3.4	11
69	Structure of silenane, a pectic polysaccharide from <i>Campion Silene vulgaris</i> (Moench) Garcke. <i>Biochemistry (Moscow)</i> , 2003 , 68, 1360-8	2.9	11
68	Solvolysis with trifluoroacetic acid: an efficient method for selective cleavage of polysaccharides. <i>Mendeleev Communications</i> , 2016 , 26, 279-281	1.9	11
67	Structure elucidation of the O-specific polysaccharide by NMR spectroscopy and selective cleavage and genetic characterization of the O-antigen of <i>Escherichia albertii</i> O5. <i>Carbohydrate Research</i> , 2018 , 457, 25-31	2.9	10
66	Synthesis of 3,6-di-O-methyl- β -glucopyranose conjugates. <i>Russian Chemical Bulletin</i> , 2014 , 63, 501-506	1.7	10

65	Structure-activity evaluation of new uracil-based non-nucleoside inhibitors of HIV reverse transcriptase. <i>MedChemComm</i> , 2013 , 4, 1443	5	10
64	Reduction and diazotization of ethyl 7-amino-3-tert-butyl-4-oxo-4,6-dihydropyrazolo[5,1-c][1,2,4]triazine-8-carboxylate. <i>Russian Journal of Organic Chemistry</i> , 2017 , 53, 577-581	0.7	9
63	Conjugated oxidation of thiols and amines in the presence of copper complexes. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010 , 101, 267-278	1.6	9
62	Arabinofuranose 1,2,5-orthobenzoate as a single precursor of linear (1→5)-linked oligoarabinofuranosides. <i>Carbohydrate Research</i> , 2018 , 456, 35-44	2.9	8
61	Polysaccharides of algae 68. Sulfated polysaccharides from the Kamchatka brown alga <i>Laminaria bongardiana</i> . <i>Russian Chemical Bulletin</i> , 2016 , 65, 2729-2736	1.7	8
60	High-resolution mass spectra of biotinylated, HEG-spacered molecular probes with oligosaccharide fragments of the capsular polysaccharides from <i>Streptococcus pneumoniae</i> . <i>Mendeleev Communications</i> , 2015 , 25, 457-459	1.9	8
59	A highly facile approach to the synthesis of novel 2-(3-benzyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-1-yl)-N-phenylacetamides. <i>Tetrahedron Letters</i> , 2013 , 54, 576-578	2	8
58	An efficient multigram-scale synthesis of 4-(chloroalkoxy)phenols. <i>Russian Chemical Bulletin</i> , 2017 , 66, 304-312	1.7	8
57	Application of a Janus aglycon with dual function in benzyl-free synthesis of spacer-armed oligosaccharide fragments of polysaccharides from rhizobacterium <i>Azospirillum brasilense</i> sp7. <i>Carbohydrate Research</i> , 2018 , 464, 28-43	2.9	8
56	Gas-Phase Fragmentation of Cyclic Oligosaccharides in Tandem Mass Spectrometry. <i>Molecules</i> , 2019 , 24,	4.8	7
55	New Development in the Solid-State Isotope Exchange with Spillover Hydrogen in Organic Compounds. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16878-16884	3.8	7
54	Cross-coupling of polychloroarenes with phenylboronic acid and organozinc compounds catalyzed by palladium complexes. <i>Russian Chemical Bulletin</i> , 2005 , 54, 970-974	1.7	7
53	Atom- and Step-Economical Ruthenium-Catalyzed Synthesis of Esters from Aldehydes or Ketones and Carboxylic Acids. <i>Organic Letters</i> , 2018 , 20, 7856-7859	6.2	7
52	Janus glycosides of next generation: Synthesis of 4-(3-chloropropoxy)phenyl and 4-(3-azidopropoxy)phenyl glycosides. <i>Carbohydrate Research</i> , 2019 , 471, 95-104	2.9	6
51	Structural investigation and comparative cytotoxic activity of water-soluble polysaccharides from fruit bodies of the medicinal fungus <i>quinine conk</i> . <i>Phytochemistry</i> , 2020 , 175, 112313	4	6
50	Chiral Ionic Liquid/ESI-MS Methodology as an Efficient Tool for the Study of Transformations of Supported Organocatalysts. <i>Topics in Catalysis</i> , 2013 , 56, 923-932	2.3	6
49	Structure characterization of the mannofucogalactan isolated from fruit bodies of <i>Quinine conk</i> <i>Fomitopsis officinalis</i> . <i>Carbohydrate Polymers</i> , 2018 , 199, 161-169	10.3	6
48	Components of the extracts of the knot wood of <i>Dalbergia Sissoo</i> Linn. and their antioxidant activity. <i>Russian Chemical Bulletin</i> , 2019 , 68, 1756-1762	1.7	5

47	Toward the discovery of dual HCMV-VZV inhibitors: Synthesis, structure activity relationship analysis, and cytotoxicity studies of long chained 2-uracil-3-yl-N-(4-phenoxyphenyl)acetamides. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7035-44	3.4	5
46	High-resolution electrospray mass spectra of hexaethylene glycol connected biotinylated HNK-1 antigenic trisaccharide molecular probe and its non-sulfated analogue. <i>Carbohydrate Research</i> , 2015 , 417, 15-8	2.9	5
45	The synthesis, structure, and electron density distribution in crystals of 4,5-dihydroxyimidazolidine-2-thiones. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1353-1360	1.7	5
44	Structural studies of arabinogalactan and pectin from <i>Silene vulgaris</i> (M.) G. Callus. <i>Biochemistry (Moscow)</i> , 2006 , 71, 644-51	2.9	5
43	Novel Myovirus TaPaz Encoding Two Tailspike Depolymerases: Characterization and Host-Recognition Strategy. <i>Viruses</i> , 2021 , 13,	6.2	5
42	K106 and K112: Two Structurally and Genetically Related 6-Deoxy-L-talose-Containing Capsular Polysaccharides. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
41	1,6-Bis[(benzyloxy)methyl]uracil derivatives- Novel antivirals with activity against HIV-1 and influenza H1N1 virus. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 2476-85	3.4	5
40	Unforeseen Possibilities To Investigate the Regulation of Polyamine Metabolism Revealed by Novel C-Methylated Spermine Derivatives. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 11335-11347	8.3	5
39	A comparative study of the specificity of fucoidanases of marine microorganisms and invertebrates. <i>Doklady Biochemistry and Biophysics</i> , 2004 , 396, 187-9	0.8	4
38	Chemical constituents of the extracts of the knotwood of <i>Pinus roxburghii</i> Sarg. and their antioxidant activity. <i>Russian Chemical Bulletin</i> , 2019 , 68, 2298-2306	1.7	4
37	Gas-phase fragmentation studies of cyclic oligo-[(1-6)-D-glucosamines by electrospray ionization mass spectrometry using a hybrid high-resolution mass spectrometer. <i>Russian Chemical Bulletin</i> , 2018 , 67, 144-149	1.7	3
36	Structure of the O-polysaccharide from the lipopolysaccharide of <i>Providencia alcalifaciens</i> O33. <i>Carbohydrate Research</i> , 2014 , 390, 67-70	2.9	3
35	Synthesis of (5S*,4aS*,7aS*)-5-hydroxyhexahydro-cyclopenta[c]pyran-3(1H)-one. <i>Russian Chemical Bulletin</i> , 2011 , 60, 2331-2335	1.7	3
34	Conjugates of polyhedral boron compounds with carbohydrates 7. Hydrolytic stability of closo-ortho-carborane glycoconjugates containing from one to three lactosylamine and Ed-galactopyranosylamine residues; estimation of their galectin-binding efficiency with galectin RCA120. <i>Russian Chemical Bulletin</i> , 2018 , 67, 2297-2301	1.7	3
33	Addition of tetrachloromethane to oct-1-ene initiated by amino alcohols. <i>Russian Chemical Bulletin</i> , 2006 , 55, 1624-1630	1.7	3
32	The K26 capsular polysaccharide from <i>Acinetobacter baumannii</i> KZ-1098: Structure and cleavage by a specific phage depolymerase. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 182-191	7.9	3
31	Unusual Outcome of Glycosylation: Hydrogen-Bond Mediated Control of Stereoselectivity by N-Trifluoroacetyl Group?. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 4146-4160	3.2	2
30	New 5-modified 2'-deoxyuridine derivatives: synthesis and antituberculosis activity. <i>Russian Chemical Bulletin</i> , 2014 , 63, 1197-1200	1.7	2

29	Polyphenol components of the knotwood extracts of <i>Salix caprea</i> L. <i>Russian Chemical Bulletin</i> , 2020 , 69, 2390-2395	1.7	2
28	Structure of the capsular polysaccharide of <i>Acinetobacter baumannii</i> MAR 5586. <i>Russian Chemical Bulletin</i> , 2021 , 70, 592-599	1.7	2
27	Structure of the β -fucopyranosyl phosphate-containing O-specific polysaccharide of <i>Escherichia coli</i> O84. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 578-85	7.9	2
26	Structure of the O-polysaccharide of <i>Escherichia coli</i> O60. <i>Russian Chemical Bulletin</i> , 2018 , 67, 2131-2134	1.7	2
25	Capsule-Targeting Depolymerases Derived from Prophage Regions. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
24	Azidation of Partially Protected Carbohydrate Derivatives: Efficient Suppression of Acyl Migration. <i>Synlett</i> , 2020 , 31, 1491-1496	2.2	1
23	A comparison of electrospray tandem mass spectra of some sialic acid derivatives: Ion trap and high resolution QqToF mass spectrometers. <i>Journal of Analytical Chemistry</i> , 2016 , 71, 1392-1396	1.1	1
22	Diorganyl dichalcogenides with intramolecular coordination interactions: the synthesis and structure of bis(4,6-dimethylpyrimidin-2-yl) diselenide. <i>Russian Chemical Bulletin</i> , 2013 , 62, 2462-2466	1.7	1
21	Electrospray ionization mass spectra of derivatives of 2-phenylthio-N-trifluoroacetylneuraminic acid. <i>Journal of Analytical Chemistry</i> , 2015 , 70, 1664-1670	1.1	1
20	1,3-Benzothiazole-2-selenenyl chloride in the synthesis of 2,3-dihydrobenzo[d][1,3]selenazolo[2,3-b][1,3]thiazolium-4 derivatives. <i>Russian Chemical Bulletin</i> , 2012 , 61, 678-679	1.7	1
19	Diorganyl ditellurides with intramolecular coordination bonds: synthesis and structure of bis(4,6-dimethylpyrimidin-2-yl) ditelluride. <i>Russian Chemical Bulletin</i> , 2013 , 62, 1877-1881	1.7	1
18	Direct synthesis of N-acylpyrrolidines from tetrahydrofuran and nitriles of aliphatic and aromatic acids on zeolite catalysts under supercritical conditions. <i>Petroleum Chemistry</i> , 2009 , 49, 94-98	1.1	1
17	Solid-state chlorodecarboxylation of mono- and dicarboxylic acids with the Pb(OAc) ₄ -MCl system. <i>Russian Chemical Bulletin</i> , 2004 , 53, 2200-2204	1.7	1
16	The K139 capsular polysaccharide produced by <i>Acinetobacter baumannii</i> MAR17-1041 belongs to a group of related structures including K14, K37 and K116. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 2297-2297	7.9	1
15	A New Example of Rearrangement Observed in the Tandem Mass Spectra of Oligosaccharides. <i>Journal of Analytical Chemistry</i> , 2020 , 75, 1842-1845	1.1	1
14	4-(3-Methoxyphenyl)-5-(2-thienylmethyl)-2,4-dihydro-3H-1,2,4-triazole-3-selone: Synthesis, structural characteristics and reactions. <i>Journal of Molecular Structure</i> , 2021 , 1227, 129537	3.4	1
13	Structure of the O-polysaccharide of <i>Providencia alcalifaciens</i> O2 containing ascarylose and N-(L-alanyl)-D-glucosamine. <i>Carbohydrate Research</i> , 2015 , 401, 11-5	2.9	0
12	Gas-phase fragmentation studies of biotinylated oligomannuronopyranosides under conditions of collisionally activated dissociation. <i>Russian Chemical Bulletin</i> , 2017 , 66, 1686-1690	1.7	0

11	Tandem ESI mass spectrometry of 11 β - and 11 α -[4-[N,N-bis(2-chloroethyl)amino]phenyl]acetates of the estrane steroids. <i>Russian Chemical Bulletin</i> , 2008 , 57, 95-98	1.7	○
10	Isomeric Effects in Collisionally-induced Dissociation of β -(1-6)-linked Cyclic Tetrasaccharides of the Glcp2GlcPn2 Composition. <i>Journal of Analytical Chemistry</i> , 2019 , 74, 1320-1324	1.1	○
9	4-Phenyl-5-(2-Thienylmethyl)-2,4-Dihydro-3H-1,2,4-Triazole-3-Selone and 3,3 α -Di[4-Phenyl-5-(2-Thienylmethyl)-4H-1,2,4-Triazolyl] Diselenide: Synthesis, Structures, and Biocidal Properties. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2021 , 47, 32-42	1.6	○
8	Note Identification of 5,7-diacetamido-3,5,7,9-tetradexy-d-glycero-l-manno-non-2-ulosonic acid (di-N-acetyl-8-epipseudaminic acid) in the capsular polysaccharide of <i>Acinetobacter baumannii</i> Res546.. <i>Carbohydrate Research</i> , 2022 , 513, 108531	2.9	○
7	Gas-Phase Fragmentation Studies of Biotinylated, Hexaethylene Glycol β -Spaced Oligosaccharides Molecular Probes Using Electrospray Mass Spectrometry on a Hybrid High-Resolution Mass Spectrometer. <i>Journal of Analytical Chemistry</i> , 2017 , 72, 1312-1321	1.1	
6	Mass spectra of dalargin, a biologically active hexapeptide. <i>Journal of Analytical Chemistry</i> , 2012 , 67, 1096-1097	1.1	
5	Myxomycetes in forest parks of Moscow, Moscow region, and some areas of the Kaluga region. <i>Moscow University Biological Sciences Bulletin</i> , 2010 , 65, 116-118	0.5	
4	Kinetics and mechanism of hexafluoropropylene telomerization and polymerization in the presence of perfluoroethyl iodide at high pressures. <i>Doklady Physical Chemistry</i> , 2007 , 416, 250-252	0.8	
3	Identification of 4-sulfaminobutanoic acid in urine of a patient with nonketotic hyperglycinemia. <i>Russian Chemical Bulletin</i> , 1996 , 45, 1252-1253	1.7	
2	Synthesis of (3R,10R)- and (3S,10S)-Diastereomers of 3,10-Dimethylspermine. <i>Russian Journal of Bioorganic Chemistry</i> , 2020 , 46, 1061-1066	1	
1	Synthesis of androsteno[17,16-d]pyrazoles and androsteno[17,16-d]-2 π -pyrazolines with pyrazolo[3,4-d]pyrimidine fragments. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1088-1099	1.7	