

# Vadim B Krylov

## List of Publications by Citations

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65  
papers

1,079  
citations

21  
h-index

30  
g-index

69  
ext. papers

1,216  
ext. citations

3.5  
avg, IF

4.36  
L-index

#	Paper	IF	Citations
65	Identification of glycosyltransferase 8 family members as xylosyltransferases acting on O-glucosylated notch epidermal growth factor repeats. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 1582-8	5.4	94
64	Organic and hybrid systems: from science to practice. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 425-438	1.9	79
63	Molecular cloning of a xylosyltransferase that transfers the second xylose to O-glucosylated epidermal growth factor repeats of notch. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 2739-48	5.4	66
62	Synthesis of multivalent carbohydrate-centered glycoclusters as nanomolar ligands of the bacterial lectin LecA from <i>Pseudomonas aeruginosa</i> . <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9272-85	4.8	54
61	Influence of fucoidans on hemostatic system. <i>Marine Drugs</i> , <b>2013</b> , 11, 2444-58	6	54
60	Pyranoside-into-furanoside rearrangement: new reaction in carbohydrate chemistry and its application in oligosaccharide synthesis. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 16516-22	4.8	50
59	Convergent synthesis of isomeric heterosaccharides related to the fragments of galactomannan from <i>Aspergillus fumigatus</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 3255-67	3.9	44
58	Acid-promoted synthesis of per-O-sulfated fucooligosaccharides related to fucoidan fragments. <i>Carbohydrate Research</i> , <b>2011</b> , 346, 540-50	2.9	42
57	Efficient acid-promoted per-O-sulfation of organic polyols. <i>Tetrahedron Letters</i> , <b>2008</b> , 49, 5877-5879	2	31
56	The Use of Pyranoside-into-Furanoside Rearrangement and Controlled O(5) -tO(6) Benzoyl Migration as the Basis of a Synthetic Strategy To Assemble (1-5)- and (1-5)-Linked Galactofuranosyl Chains. <i>Organic Letters</i> , <b>2016</b> , 18, 5504-5507	6.2	28
55	Novel mouse monoclonal antibodies specifically recognizing $\beta$ (1-3)-D-glucan antigen. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215535	3.7	27
54	Expression and biochemical characterization and substrate specificity of the fucoidanase from <i>Formosa</i> algae. <i>Glycobiology</i> , <b>2017</b> , 27, 254-263	5.8	27
53	Definitive structural assessment of enterococcal diheteroglycan. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 1749-54	4.8	25
52	Synthesis of oligosaccharides related to galactomannans from <i>Aspergillus fumigatus</i> and their NMR spectral data. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 1188-1199	3.9	25
51	The synthesis of heterosaccharides related to the fucoidan from <i>Chordaria flagelliformis</i> bearing an $\beta$ -fucofuranosyl unit. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 598-611	3.9	24
50	Reinvestigation of carbohydrate specificity of EB-A2 monoclonal antibody used in the immune detection of galactomannan. <i>Heliyon</i> , <b>2019</b> , 5, e01173	3.6	23
49	Novel mouse monoclonal antibodies specifically recognize <i>Aspergillus fumigatus</i> galactomannan. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193938	3.7	23

48	Biotinylated Oligo- $\alpha$ (1-4)-d-galactosamines and Their N-Acetylated Derivatives: Stereoselective Synthesis and Immunology Application. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1175-1179	16.4	23
47	Chemical Synthesis and Application of Biotinylated Oligo- $\alpha$ (1-3)-d-Glucosides To Study the Antibody and Cytokine Response against the Cell Wall $\alpha$ (1-3)-d-Glucan of <i>Aspergillus fumigatus</i> . <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 12965-12976	4.2	23
46	Preliminary structural characterization, anti-inflammatory and anticoagulant activities of chondroitin sulfates from marine fish cartilage. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 746-753	1.7	22
45	The Pyranoside-into-Furanoside Rearrangement of Alkyl Glycosides: Scope and Limitations. <i>Synlett</i> , <b>2016</b> , 27, 1659-1664	2.2	21
44	Fucoidans as a platform for new anticoagulant drugs discovery. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1365-1375	2.1	18
43	Pyranoside-into-Furanoside Rearrangement of 4-Pentenyl Glycosides in the Synthesis of a Tetrasaccharide-Related to Galactan I of <i>Klebsiella pneumoniae</i> . <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 710-718	3.2	17
42	Lysozyme's lectin-like characteristics facilitates its immune defense function. <i>Quarterly Reviews of Biophysics</i> , <b>2017</b> , 50, e9	7	16
41	Potential of Chemically Synthesized Oligosaccharides To Define the Carbohydrate Moieties of the Fungal Cell Wall Responsible for the Human Immune Response, Using <i>Aspergillus fumigatus</i> Galactomannan as a Model. <i>MSphere</i> , <b>2020</b> , 5,	5	15
40	Synthesis, NMR and Conformational Studies of Fucoidan Fragments, 8: Convergent Synthesis of Branched and Linear Oligosaccharides. <i>Synthesis</i> , <b>2006</b> , 2006, 4017-4031	2.9	14
39	Monoclonal Antibody AP3 Binds Galactomannan Antigens Displayed by the Pathogens, and. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 234	5.9	12
38	Stereoselective Glycosylation with 3-O-Acetylated d-Gluco Donors. <i>Synlett</i> , <b>2006</b> , 2006, 921-923	2.2	12
37	Study of the Carbohydrate Specificity of Antibodies Against <i>Aspergillus fumigatus</i> Using the Library of Synthetic Mycoantigens. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2018</b> , 44, 80-89	1	11
36	Immunobiological Activity of Synthetically Prepared Immunodominant Galactomannosides Structurally Mimicking Galactomannan. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1273	8.4	11
35	Convergent Synthesis of Oligosaccharides Structurally Related to Galactan I and Galactan II of <i>Klebsiella pneumoniae</i> and their Use in Screening of Antibody Specificity. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 4226-4232	3.2	10
34	Importance of Antigenic Factors: Structure-Driven Immunomodulation Properties of Synthetically Prepared Mannoooligosaccharides in RAW264.7 Macrophages. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 378	5.9	10
33	Recent advances in the synthesis of fungal antigenic oligosaccharides. <i>Pure and Applied Chemistry</i> , <b>2017</b> , 89, 885-898	2.1	9
32	(13)C-NMR glycosylation effects in (1- $\beta$ )-linked furanosyl-pyranosides. <i>Carbohydrate Research</i> , <b>2015</b> , 417, 1-10	2.9	9
31	Synthetic carbohydrate based anti-fungal vaccines. <i>Drug Discovery Today: Technologies</i> , <b>2020</b> , 35-36, 35-43	3.1	9

30	Nanomaterial Relevance of the Intermolecular Interaction Dynamics-Examples from Lysozymes and Insulins. <i>ACS Omega</i> , <b>2019</b> , 4, 4206-4220	3.9	9
29	Modeling of polysaccharides with oligosaccharides: how large should the model be?. <i>Mendeleev Communications</i> , <b>2007</b> , 17, 57-62	1.9	8
28	Driving Force of the Pyranoside-into-Furanoside Rearrangement. <i>ACS Omega</i> , <b>2019</b> , 4, 1139-1143	3.9	7
27	Synthetic Oligomers Mimicking Capsular Polysaccharide Diheteroglycan are Potential Vaccine Candidates against Encapsulated Infections. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 1816-1826	5.5	6
26	Ring distortion in pyranosides caused by per-O-sulfation. <i>Carbohydrate Research</i> , <b>2016</b> , 436, 20-24	2.9	6
25	Characterization of a new $\beta$ -fucosidase isolated from <i>Fusarium proliferatum</i> LE1 that is regioselective to $\beta$ (1 $\rightarrow$ 4)-l-fucosidic linkage in the hydrolysis of $\beta$ -fucobiosides. <i>Biochimie</i> , <b>2017</b> , 132, 54-65	4.6	6
24	Preparative synthesis of selectively substituted 1,6-anhydro- $\beta$ -galactofuranose derivatives. <i>Mendeleev Communications</i> , <b>2014</b> , 24, 336-337	1.9	6
23	Stereoselective Synthesis of the 3-Aminopropyl Glycosides of $\beta$ -Xyl-(1- $\beta$ )- $\beta$ -Glc and $\beta$ -Xyl-(1- $\beta$ )- $\beta$ -Xyl-(1- $\beta$ )- $\beta$ -Glc and of Their Corresponding N-Octanoyl Derivatives. <i>Synthesis</i> , <b>2007</b> , 2007, 3147-3154	2.9	6
22	Carbohydrate Specificity of Antibodies against Phytopathogenic Fungi of the <i>Aspergillus</i> Genus. <i>Applied Biochemistry and Microbiology</i> , <b>2018</b> , 54, 522-527	1.1	6
21	Influence of per-O-sulfation upon the conformational behaviour of common furanosides. <i>Beilstein Journal of Organic Chemistry</i> , <b>2019</b> , 15, 685-694	2.5	5
20	Synthetic Oligosaccharides Mimicking Fungal Cell Wall Polysaccharides. <i>Current Topics in Microbiology and Immunology</i> , <b>2020</b> , 425, 1-16	3.3	5
19	Study of sulfated derivatives of polyhydroxy compounds as inhibitors of blood coagulation. <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 232-235	1.7	4
18	Application of computational methods for the studies of carbohydrate reactivity. <i>Carbohydrate Chemistry</i> , <b>2020</b> , 151-169	3	4
17	Conformational changes in common monosaccharides caused by per-O-sulfation. <i>Pure and Applied Chemistry</i> , <b>2019</b> , 91, 1223-1229	2.1	3
16	Synthesis of sulfated dendrimers and studies of their anticoagulant and antiinflammatory activity. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 2572-2578	1.7	2
15	Reinvestigation of Carbohydrate Specificity of EBCA-1 Monoclonal Antibody Used for the Detection of Mannan. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,	5.6	2
14	Potential of fluorescence polarization immunoassay for the detection of <i>Aspergillus fumigatus</i> galactomannan. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 2365-2369	1.7	2
13	The reaction of amidoximes with carboxylic acids or their esters under high-pressure conditions. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 347-350	1.7	1

12	Pyranoside-into-furanoside rearrangement of D-glucuronopyranoside derivatives. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 483-484	1.9	1
11	Choice of ab initio method for calculations of the key steps for the mechanism of rearrangement of sulfated pyranosides into furanosides. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 558-561	1.7	1
10	Synthesis and conformational analysis of vicinally branched trisaccharide $\beta$ -GalF-(1- $\alpha$ 2)-[ $\beta$ -GalF-(1- $\beta$ 3)- $\beta$ Galp from <i>Cryptococcus neoformans</i> galactoxylomannan. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 2923-2931	3.9	1
9	Carbohydrate Specificity of Antibodies Against Yeast Preparations of <i>Saccharomyces cerevisiae</i> and <i>Candida krusei</i> . <i>Applied Biochemistry and Microbiology</i> , <b>2018</b> , 54, 665-669	1.1	1
8	Biorecognition Layer Based On Biotin-Containing [1]Benzothieno[3,2-][1]benzothiophene Derivative for Biosensing by Electrolyte-Gated Organic Field-Effect Transistors.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
7	Acyl derivatives of ivermectin 5-oxime with antifungal activity. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 438-444	4.7	0
6	Gas-phase fragmentation studies of biotinylated oligomannuronopyranosides under conditions of collisionally activated dissociation. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 1686-1690	1.7	0
5	Synthesis of biotinylated pentasaccharide structurally related to a fragment of glucomannan from .. <i>Russian Chemical Bulletin</i> , <b>2021</b> , 70, 2208-2213	1.7	0
4	Gas-Phase Fragmentation Studies of Biotinylated, Hexaethylene Glycol Spaced Oligosaccharides Molecular Probes Using Electrospray Mass Spectrometry on a Hybrid High-Resolution Mass Spectrometer. <i>Journal of Analytical Chemistry</i> , <b>2017</b> , 72, 1312-1321	1.1	
3	Calculation of possible stabilization of glycosyl carbocations in furanosides by different theoretical methods. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 2763-2768	1.7	
2	Affinity characteristics of anti- $\beta$ (1- $\beta$ )-d-glucan monoclonal antibody 3G11 by fluorescence polarization immunoassay. <i>Russian Chemical Bulletin</i> , <b>2021</b> , 70, 975-981	1.7	
1	Computational and NMR Conformational Analysis of Galactofuranoside Cycles Presented in Bacterial and Fungal Polysaccharide Antigens. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 719396	5.6	