

Filip V Toukach

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,381
citations

23
h-index

47
g-index

90
ext. papers

2,848
ext. citations

5.5
avg, IF

5.13
L-index

#	Paper	IF	Citations
87	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
86	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019 , 29, 620-624	5.8	148
85	Carbohydrate structure database merged from bacterial, archaeal, plant and fungal parts. <i>Nucleic Acids Research</i> , 2016 , 44, D1229-36	20.1	109
84	Statistical analysis of the Bacterial Carbohydrate Structure Data Base (BCSDB): characteristics and diversity of bacterial carbohydrates in comparison with mammalian glycans. <i>BMC Structural Biology</i> , 2008 , 8, 35	2.7	96
83	Tertiary structure of Staphylococcus aureus cell wall murein. <i>Journal of Bacteriology</i> , 2004 , 186, 7141-8	3.5	96
82	Recent advances in computational predictions of NMR parameters for the structure elucidation of carbohydrates: methods and limitations. <i>Chemical Society Reviews</i> , 2013 , 42, 8376-415	58.5	93
81	Tertiary structure of bacterial murein: the scaffold model. <i>Journal of Bacteriology</i> , 2003 , 185, 3458-68	3.5	80
80	Bacterial carbohydrate structure database 3: principles and realization. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 159-70	6.1	67
79	Towards a comprehensive view of the bacterial cell wall. <i>Trends in Microbiology</i> , 2005 , 13, 569-74	12.4	60
78	Structure of the O-specific polysaccharide of Proteus mirabilis D52 and typing of this strain to Proteus serogroup O33. <i>FEBS Journal</i> , 2001 , 268, 4346-51		51
77	Sharing of worldwide distributed carbohydrate-related digital resources: online connection of the Bacterial Carbohydrate Structure DataBase and GLYCOSCIENCES.de. <i>Nucleic Acids Research</i> , 2007 , 35, D280-6	20.1	45
76	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013 , 4, 39	2.2	44
75	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015 , 31, 919-25	7.2	42
74	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 5	2.2	42
73	Structure of the O-polysaccharide and classification of Proteus mirabilis strain G1 in Proteus serogroup O3. <i>FEBS Journal</i> , 2002 , 269, 1406-12		42
72	Structural studies of arabinan-rich pectic polysaccharides from Abies sibirica L. Biological activity of pectins of A. sibirica. <i>Carbohydrate Polymers</i> , 2014 , 113, 515-24	10.3	41
71	Structural studies of the pectic polysaccharide from fruits of Punica granatum. <i>Carbohydrate Polymers</i> , 2020 , 235, 115978	10.3	30

70	Structural characteristics of water-soluble polysaccharides from <i>Heracleum sosnowskyi</i> Manden. <i>Carbohydrate Polymers</i> , 2014 , 102, 521-8	10.3	28
69	Structures of the O-antigens of <i>Proteus bacilli</i> belonging to OX group (serogroups O1-O3) used in Weil-Felix test. <i>FEBS Letters</i> , 1997 , 411, 221-4	3.8	28
68	Synthesis of chlorin-carbohydrate conjugates by click chemistry. <i>Mendeleev Communications</i> , 2008 , 18, 135-137	1.9	28
67	Improved Carbohydrate Structure Generalization Scheme for (1)H and (13)C NMR Simulations. <i>Analytical Chemistry</i> , 2015 , 87, 7006-10	7.8	27
66	Computer-assisted structural analysis of regular glycopolymers on the basis of 13C NMR data. <i>Carbohydrate Research</i> , 2001 , 335, 101-14	2.9	24
65	1,3-dipolar cycloaddition in the synthesis of glycoconjugates of natural chlorins and bacteriochlorins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 336-345	1.8	23
64	Structure of the O-polysaccharide of <i>Providencia stuartii</i> O49. <i>Carbohydrate Research</i> , 2004 , 339, 1557-60.	6.9	23
63	GRASS: semi-automated NMR-based structure elucidation of saccharides. <i>Bioinformatics</i> , 2018 , 34, 957-963	6.3	19
62	Expansion of coverage of Carbohydrate Structure Database (CSDB). <i>Carbohydrate Research</i> , 2014 , 389, 112-4	2.9	19
61	Carbohydrate structure generalization scheme for database-driven simulation of experimental observables, such as NMR chemical shifts. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2594-611	6.1	19
60	Structures of new acidic O-specific polysaccharides of the bacterium <i>Proteus mirabilis</i> serogroups O26 and O30. <i>FEBS Letters</i> , 1996 , 386, 247-51	3.8	19
59	Critical analysis of CCSD data quality. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2812-4	6.1	18
58	Glycoinformatics: Bridging Isolated Islands in the Sea of Data. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14986-14990	16.4	18
57	Structure of a 2-aminoethyl phosphate-containing O-specific polysaccharide of <i>Proteus penneri</i> 63 from a new serogroup O68. <i>FEBS Journal</i> , 2000 , 267, 601-5		17
56	Structure of the O-specific polysaccharide of a serologically separate strain <i>Proteus penneri</i> 2 from a new proposed serogroup O66. <i>FEBS Journal</i> , 1999 , 261, 392-7		16
55	Somatic antigens of pseudomonads: structure of the O-specific polysaccharide of the reference strain for <i>Pseudomonas fluorescens</i> (IMV 4125, ATCC 13525, biovar A). <i>Carbohydrate Research</i> , 1996 , 291, 217-24	2.9	15
54	Simulation of 2D NMR Spectra of Carbohydrates Using GODESS Software. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1100-4	6.1	15
53	Structure of the O-specific polysaccharide of <i>Proteus penneri</i> 103 containing ribitol and 2-aminoethanol phosphates. <i>Carbohydrate Research</i> , 2002 , 337, 1535-40	2.9	14

52	Structural and serological studies of the O-specific polysaccharide of the bacterium <i>Proteus mirabilis</i> O10 containing L-altruronic acid, a new component of O-antigens. <i>FEBS Letters</i> , 1996 , 398, 297-302	3.8	14
51	Bacterial, plant, and fungal carbohydrate structure databases: daily usage. <i>Methods in Molecular Biology</i> , 2015 , 1273, 55-85	1.4	14
50	New structures of the O-specific polysaccharides of bacteria of the genus <i>Proteus</i> . 1. Phosphate-containing polysaccharides. <i>Biochemistry (Moscow)</i> , 2002 , 67, 265-76	2.9	13
49	The O-polysaccharide from the lipopolysaccharide of <i>Providencia stuartii</i> O44 contains L-quinovose, a 6-deoxy sugar rarely occurring in bacterial polysaccharides. <i>Carbohydrate Research</i> , 2005 , 340, 1419-23	2.9	13
48	New structures of the O-specific polysaccharides of <i>Proteus</i> . 2. Polysaccharides containing O-acetyl groups. <i>Biochemistry (Moscow)</i> , 2002 , 67, 201-11	2.9	12
47	Structure of an abequose-containing O-polysaccharide from <i>Citrobacter freundii</i> O22 strain PCM 1555. <i>Carbohydrate Research</i> , 2009 , 344, 1724-8	2.9	11
46	Structure of a new neutral O-specific polysaccharide of <i>Proteus penneri</i> 34. <i>Carbohydrate Research</i> , 1998 , 312, 97-101	2.9	11
45	Structure of the O-specific polysaccharide of <i>Proteus mirabilis</i> O16 containing ethanolamine phosphate and ribitol phosphate. <i>Carbohydrate Research</i> , 2001 , 331, 213-8	2.9	11
44	Structure of the O-specific polysaccharide of <i>Proteus penneri</i> 71 and classification of cross-reactive <i>P. penneri</i> strains to a new proposed serogroup O64. <i>FEBS Journal</i> , 2000 , 267, 808-14		11
43	REStLESS: automated translation of glycan sequences from residue-based notation to SMILES and atomic coordinates. <i>Bioinformatics</i> , 2018 , 34, 2679-2681	7.2	10
42	Carbohydrate Structure Database: tools for statistical analysis of bacterial, plant and fungal glycomes. <i>Database: the Journal of Biological Databases and Curation</i> , 2015 , 2015,	5	10
41	New structure for the O-polysaccharide of <i>Providencia alcalifaciens</i> O27 and revised structure for the O-polysaccharide of <i>Providencia stuartii</i> O43. <i>Carbohydrate Research</i> , 2007 , 342, 1116-21	2.9	10
40	Structure of the O-polysaccharide of <i>Providencia alcalifaciens</i> O8 containing (2S,4R)-2,4-dihydroxypentanoic acid, a new non-sugar component of bacterial glycans. <i>Carbohydrate Research</i> , 2008 , 343, 2706-11	2.9	10
39	The structure of the O-polysaccharide from the lipopolysaccharide of <i>Providencia stuartii</i> O57 containing an amide of D-galacturonic acid with L-alanine. <i>Carbohydrate Research</i> , 2005 , 340, 775-80	2.9	10
38	Structural and serological studies of the related O-specific polysaccharides of <i>Proteus vulgaris</i> O21 and <i>Proteus mirabilis</i> O48 having oligosaccharide-phosphate repeating units. <i>FEBS Journal</i> , 2000 , 267, 6888-96		10
37	Bacteriochlorin-containing triad: Structure and photophysical properties. <i>Dyes and Pigments</i> , 2015 , 121, 21-29	4.6	9
36	Structure of a phosphoethanolamine-containing O-polysaccharide of <i>Citrobacter freundii</i> strain PCM 1443 from serogroup O39 and its relatedness to the <i>Klebsiella pneumoniae</i> O1 polysaccharide. <i>FEMS Immunology and Medical Microbiology</i> , 2008 , 53, 60-4		9
35	Structure of a new acidic O-antigen of <i>Proteus vulgaris</i> O22 containing O-acetylated 3-acetamido-3,6-dideoxy-D-glucose. <i>Carbohydrate Research</i> , 1999 , 318, 146-53	2.9	9

34	SugarSketcher: Quick and Intuitive Online Glycan Drawing. <i>Molecules</i> , 2018 , 23,	4.8	9
33	Expanding CSDB_GT glycosyltransferase database with Escherichia coli. <i>Glycobiology</i> , 2019 , 29, 285-287	5.8	8
32	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013 , 23, 1422-1424	5.8	8
31	New structures of the O-specific polysaccharides of Proteus. 3. Polysaccharides containing non-carbohydrate organic acids. <i>Biochemistry (Moscow)</i> , 2003 , 68, 446-57	2.9	8
30	Structure of the O-specific polysaccharide of Hafnia alvei PCM 1222 containing 2-aminoethyl phosphate. <i>Carbohydrate Research</i> , 1996 , 295, 117-26	2.9	8
29	Three-Dimensional Structures of Carbohydrates and Where to Find Them. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
28	Structure of the O-polysaccharide and serological cross-reactivity of the lipopolysaccharide of Providencia alcalifaciens O32 containing N-acetylismuramic acid. <i>Carbohydrate Research</i> , 2007 , 342, 268-73	2.9	7
27	New Features of Carbohydrate Structure Database Notation (CSDB Linear), As Compared to Other Carbohydrate Notations. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1276-1289	6.1	7
26	Structures of a unique O-polysaccharide of Edwardsiella tarda PCM 1153 containing an amide of galacturonic acid with 2-aminopropane-1,3-diol and an abequose-containing O-polysaccharide shared by E. tarda PCM 1145, PCM 1151 and PCM 1158. <i>Carbohydrate Research</i> , 2012 , 355, 56-62	2.9	6
25	Structure of the O-polysaccharide from the lipopolysaccharide of Providencia alcalifaciens O29. <i>Carbohydrate Research</i> , 2006 , 341, 1181-5	2.9	6
24	Structural and serological relatedness of the O-antigens of Proteus penneri 1 and 4 from a novel Proteus serogroup O72. <i>FEBS Journal</i> , 2002 , 269, 358-63		6
23	Structure of the O-polysaccharide of Proteus vulgaris O44: a new O-antigen that contains an amide of D-glucuronic acid with L-alanine. <i>Carbohydrate Research</i> , 2003 , 338, 1431-5	2.9	6
22	Novel cycloimides in the chlorophyll a series. <i>Mendeleev Communications</i> , 2003 , 13, 156-157	1.9	6
21	Structural and serological characterization of the lipopolysaccharide from Proteus penneri 20 and classification of the cross-reacting Proteus penneri strains 10, 16, 18, 20, 32 and 45 in Proteus serogroup O17. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2002 , 50, 345-50	4	6
20	Structure of the O-specific polysaccharide of Hafnia alvei PCM 1222 containing 2-aminoethyl phosphate. <i>Carbohydrate Research</i> , 1996 , 295, 117-126	2.9	5
19	Structural studies of O-specific polysaccharide(s) and biological activity toward plants of the lipopolysaccharide from Azospirillum brasilense SR8. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 246-253	7.9	5
18	Carbohydrate Structure Database (CSDB): new features. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1205-1210	1.7	4
17	Synthesis of donor-acceptor systems based on the derivatives of chlorophyll a and [60]fullerene. <i>Mendeleev Communications</i> , 2015 , 25, 32-33	1.9	4

16	Production and Characterization of the exopolysaccharide from strain Paenibacillus polymyxa 2020. <i>PLoS ONE</i> , 2021 , 16, e0253482	3.7	4
15	Synthesis of Chlorin-Fullerene Conjugate. <i>Macroheterocycles</i> , 2014 , 7, 196-198	2.2	3
14	Structures and serology of the O-antigens of Proteus strains classified into serogroup O17 and former serogroup O35. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2006 , 54, 277-82	4	2
13	Carbohydrate Structure Database (CSDB): Examples of Usage 2017 , 75-113		1
12	Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
11	Bacterial, Plant, and Fungal Carbohydrate Structure Database (CSDB) 2014 , 1-10		1
10	Bacterial, Plant, and Fungal Carbohydrate Structure Database (CSDB) 2015 , 241-250		1
9	CSDB_GT, a curated glycosyltransferase database with close-to-full coverage on three most studied nonanimal species. <i>Glycobiology</i> , 2021 , 31, 524-529	5.8	1
8	CSDB/SNFG Structure Editor: An Online Glycan Builder with 2D and 3D Structure Visualization. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4940-4948	6.1	1
7	Carbohydrate structure database (CSDB) oligosaccharide conformation tool.. <i>Glycobiology</i> , 2022 ,	5.8	1
6	Source files of the Carbohydrate Structure Database: the way to sophisticated analysis of natural glycans.. <i>Scientific Data</i> , 2022 , 9, 131	8.2	0
5	Structure elucidation and gene cluster characterization of the O-antigen of Yersinia kristensenii E134. <i>Carbohydrate Research</i> , 2019 , 481, 9-15	2.9	
4	2,4-Dihydroxypentanoic Acids: New Non-sugar Components of Bacterial Polysaccharides. <i>Natural Product Communications</i> , 2008 , 3, 1934578X0800301	0.9	
3	Epitope specificity of polyclonal rabbit antisera against Proteus vulgaris O-antigens. <i>Advances in Experimental Medicine and Biology</i> , 2000 , 485, 243-7	3.6	
2	Structure and gene cluster of the O-polysaccharide of Yersinia rohdei H274-36/78. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 555-561	7.9	
1	Glykoinformatik: Brücken zwischen isolierten Inseln im Datenmeer. <i>Angewandte Chemie</i> , 2018 , 130, 15202-15207	3.6	