

# Filip V Toukach

## List of Publications by Year in descending order

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87  
papers

3,174  
citations

257357

24  
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168321

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91  
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91  
docs citations

91  
times ranked

3517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	1.3	818
2	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	1.3	292
3	Carbohydrate structure database merged from bacterial, archaeal, plant and fungal parts. <i>Nucleic Acids Research</i> , 2016, 44, D1229-D1236.	6.5	158
4	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.	2.3	122
5	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.	18.7	113
6	Tertiary Structure of Staphylococcus aureus Cell Wall Murein. <i>Journal of Bacteriology</i> , 2004, 186, 7141-7148.	1.0	105
7	Tertiary Structure of Bacterial Murein: the Scaffold Model. <i>Journal of Bacteriology</i> , 2003, 185, 3458-3468.	1.0	90
8	Bacterial Carbohydrate Structure Database 3: Principles and Realization. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 159-170.	2.5	78
9	Towards a comprehensive view of the bacterial cell wall. <i>Trends in Microbiology</i> , 2005, 13, 569-574.	3.5	75
10	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, 4346-4351.	0.2	67
11	Structural studies of the pectic polysaccharide from fruits of Punica granatum. <i>Carbohydrate Polymers</i> , 2020, 235, 115978.	5.1	57
12	Structural studies of arabinan-rich pectic polysaccharides from Abies sibirica L. Biological activity of pectins of A. sibirica. <i>Carbohydrate Polymers</i> , 2014, 113, 515-524.	5.1	54
13	Structure of the O-polysaccharide and classification of Proteus mirabilis strain G1 in Proteus serogroup O3. <i>FEBS Journal</i> , 2002, 269, 1406-1412.	0.2	53
14	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015, 31, 919-925.	1.8	51
15	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-D286.	6.5	50
16	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.	0.9	47
17	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	0.9	46
18	Structures of the O-antigens of Proteus bacilli belonging to OX group (serogroups O1-O3) used in Weil-Felix test. <i>FEBS Letters</i> , 1997, 411, 221-224.	1.3	34

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19	Improved Carbohydrate Structure Generalization Scheme for <sup>1</sup> H and <sup>13</sup> C NMR Simulations. <i>Analytical Chemistry</i> , 2015, 87, 7006-7010.	3.2	34
20	GRASS: semi-automated NMR-based structure elucidation of saccharides. <i>Bioinformatics</i> , 2018, 34, 957-963.	1.8	31
21	Synthesis of chlorinâ€“carbohydrate conjugates by â€“click chemistryâ€™. <i>Mendeleev Communications</i> , 2008, 18, 135-137.	0.6	30
22	Structural characteristics of water-soluble polysaccharides from <i>Heracleum sosnowskyi</i> Manden. <i>Carbohydrate Polymers</i> , 2014, 102, 521-528.	5.1	29
23	Glycoinformatics: Bridging Isolated Islands in the Sea of Data. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14986-14990.	7.2	29
24	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, 2594-2611.	2.5	26
25	Computer-assisted structural analysis of regular glycopolymers on the basis of <sup>13</sup> C NMR data. <i>Carbohydrate Research</i> , 2001, 335, 101-114.	1.1	25
26	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.	0.4	25
27	Structures of new acidic O-specific polysaccharides of the bacterium <i>Proteus mirabilis</i> serogroups O26 and O30. <i>FEBS Letters</i> , 1996, 386, 247-251.	1.3	24
28	Structure of the O-polysaccharide of <i>Providencia stuartii</i> O49. <i>Carbohydrate Research</i> , 2004, 339, 1557-1560.	1.1	24
29	Expansion of coverage of Carbohydrate Structure Database (CSDB). <i>Carbohydrate Research</i> , 2014, 389, 112-114.	1.1	23
30	CSDB_GT: a new curated database on glycosyltransferases. <i>Glycobiology</i> , 2017, 27, 285-290.	1.3	22
31	Simulation of 2D NMR Spectra of Carbohydrates Using CODESS Software. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1100-1104.	2.5	22
32	Three-Dimensional Structures of Carbohydrates and Where to Find Them. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7702.	1.8	22
33	Critical Analysis of CCSD Data Quality. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2812-2814.	2.5	21
34	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.	1.3	19
35	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, 217-224.	1.1	18
36	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, 601-605.	0.2	18

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37	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, 265-276.	0.7	18
38	Bacterial, Plant, and Fungal Carbohydrate Structure Databases: Daily Usage. <i>Methods in Molecular Biology</i> , 2015, 1273, 55-85.	0.4	18
39	Production and Characterization of the exopolysaccharide from strain <i>Paenibacillus polymyxa</i> 2020. <i>PLoS ONE</i> , 2021, 16, e0253482.	1.1	17
40	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, 392-397.	0.2	16
41	Structure of the O-specific polysaccharide of <i>Proteus penneri</i> 103 containing ribitol and 2-aminoethanol phosphates. <i>Carbohydrate Research</i> , 2002, 337, 1535-1540.	1.1	16
42	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, 808-814.	0.2	15
43	REStLESS: automated translation of glycan sequences from residue-based notation to SMILES and atomic coordinates. <i>Bioinformatics</i> , 2018, 34, 2679-2681.	1.8	14
44	SugarSketcher: Quick and Intuitive Online Glycan Drawing. <i>Molecules</i> , 2018, 23, 3206.	1.7	14
45	New structures of the O-specific polysaccharides of <i>Proteus</i> . 2. Polysaccharides containing O-acetyl groups. <i>Biochemistry (Moscow)</i> , 2002, 67, 201-211.	0.7	13
46	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, 1419-1423.	1.1	13
47	Structure of an abequeose-containing O-polysaccharide from <i>Citrobacter freundii</i> O22 strain PCM 1555. <i>Carbohydrate Research</i> , 2009, 344, 1724-1728.	1.1	13
48	Structure of the O-specific polysaccharide of <i>Proteus mirabilis</i> O16 containing ethanolamine phosphate and ribitol phosphate. <i>Carbohydrate Research</i> , 2001, 331, 213-218.	1.1	12
49	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, bav073.	1.4	12
50	Structure of a new neutral O-specific polysaccharide of <i>Proteus penneri</i> 34. <i>Carbohydrate Research</i> , 1998, 312, 97-101.	1.1	11
51	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, 146-153.	1.1	11
52	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, 6888-6896.	0.2	11
53	Expanding CSDB_GT glycosyltransferase database with <i>Escherichia coli</i> . <i>Glycobiology</i> , 2019, 29, 285-287.	1.3	11
54	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.	2.5	11

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55	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, 775-780.	1.1	10
56	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, 1116-1121.	1.1	10
57	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, 2706-2711.	1.1	10
58	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, 60-64.	2.7	9
59	Bacteriochlorin-containing triad: Structure and photophysical properties. <i>Dyes and Pigments</i> , 2015, 121, 21-29.	2.0	9
60	Structure of the O-specific polysaccharide of <i>Hafnia alvei</i> PCM 1222 containing 2-aminoethyl phosphate. <i>Carbohydrate Research</i> , 1996, 295, 117-126.	1.1	8
61	New structures of the O-specific polysaccharides of <i>Proteus</i> . 3. Polysaccharides containing non-carbohydrate organic acids. <i>Biochemistry (Moscow)</i> , 2003, 68, 446-457.	0.7	8
62	Structure of the O-polysaccharide of <i>Proteus vulgaris</i> O44: a new O-antigen that contains an amide of d-glucuronic acid with l-alanine. <i>Carbohydrate Research</i> , 2003, 338, 1431-1435.	1.1	8
63	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013, 23, 1422-1424.	1.3	8
64	Structural and serological relatedness of the O-antigen of <i>Proteus penneri</i> 1 and 4 from a novel <i>Proteus</i> serogroup O72. <i>FEBS Journal</i> , 2002, 269, 358-363.	0.2	7
65	Novel cycloimides in the chlorophyll a series. <i>Mendeleev Communications</i> , 2003, 13, 156-157.	0.6	7
66	Structure of the O-polysaccharide from the lipopolysaccharide of <i>Providencia alcalifaciens</i> O29. <i>Carbohydrate Research</i> , 2006, 341, 1181-1185.	1.1	7
67	Structure of the O-polysaccharide and serological cross-reactivity of the lipopolysaccharide of <i>Providencia alcalifaciens</i> O32 containing N-acetylismuramic acid. <i>Carbohydrate Research</i> , 2007, 342, 268-273.	1.1	7
68	Structures of a unique O-polysaccharide of <i>Edwardsiella tarda</i> PCM 1153 containing an amide of galacturonic acid with 2-aminopropane-1,3-diol and an abequose-containing O-polysaccharide shared by <i>E. tarda</i> PCM 1145, PCM 1151 and PCM 1158. <i>Carbohydrate Research</i> , 2012, 355, 56-62.	1.1	7
69	Structural studies of O-specific polysaccharide(s) and biological activity toward plants of the lipopolysaccharide from <i>Azospirillum brasilense</i> SR8. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 246-253.	3.6	7
70	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.	2.5	7
71	CSDB_GT, a curated glycosyltransferase database with close-to-full coverage on three most studied nonanimal species. <i>Glycobiology</i> , 2021, 31, 524-529.	1.3	6
72	Structural and serological characterization of the lipopolysaccharide from <i>Proteus penneri</i> 20 and classification of the cross-reacting <i>Proteus penneri</i> strains 10, 16, 18, 20, 32 and 45 in <i>Proteus</i> serogroup O17. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2002, 50, 345-50.	1.0	6

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73	Structure of the O-specific polysaccharide of <i>Hafnia alvei</i> PCM 1222 containing 2-aminoethyl phosphate. <i>Carbohydrate Research</i> , 1996, 295, 117-126.	1.1	5
74	Carbohydrate Structure Database (CSDB): new features. <i>Russian Chemical Bulletin</i> , 2015, 64, 1205-1210.	0.4	4
75	Synthesis of donor-acceptor systems based on the derivatives of chlorophyll a and [60]fullerene. <i>Mendeleev Communications</i> , 2015, 25, 32-33.	0.6	4
76	Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7626.	1.8	4
77	Source files of the Carbohydrate Structure Database: the way to sophisticated analysis of natural glycans. <i>Scientific Data</i> , 2022, 9, 131.	2.4	4
78	Structures and serology of the O-antigens of <i>Proteus</i> strains classified into serogroup O17 and former serogroup O35. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2006, 54, 277-282.	1.0	3
79	Carbohydrate Structure Database (CSDB): Examples of Usage. , 2017, , 75-113.		3
80	Synthesis of Chlorin-Fullerene Conjugate. <i>Macroheterocycles</i> , 2014, 7, 196-198.	0.9	3
81	Bacterial, Plant, and Fungal Carbohydrate Structure Database (CSDB). , 2015, , 241-250.		2
82	Carbohydrate Structure Database oligosaccharide conformation tool. <i>Glycobiology</i> , 2022, 32, 460-468.	1.3	2
83	Epitope Specificity of Polyclonal Rabbit Antisera Against <i>Proteus Vulgaris</i> O-Antigens. , 2000, 485, 243-247.		0
84	2,4-Dihydroxypentanoic Acids: New Non-sugar Components of Bacterial Polysaccharides. <i>Natural Product Communications</i> , 2008, 3, 1934578X0800301.	0.2	0
85	Glykoinformatik: Brücken zwischen isolierten Inseln im Datenmeer. <i>Angewandte Chemie</i> , 2018, 130, 15202-15207.	1.6	0
86	Structure elucidation and gene cluster characterization of the O-antigen of <i>Yersinia kristensenii</i> Dj-134. <i>Carbohydrate Research</i> , 2019, 481, 9-15.	1.1	0
87	Structure and gene cluster of the O-polysaccharide of <i>Yersinia rohdei</i> H274-36/78. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 555-561.	3.6	0