

Filip V Toukach

List of Publications by Year in descending order

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88
papers

3,174
citations

257450

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168389

53
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91
docs citations

91
times ranked

3517
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbohydrate Structure Database oligosaccharide conformation tool. <i>Glycobiology</i> , 2022, 32, 460-468.	2.5	2
2	Source files of the Carbohydrate Structure Database: the way to sophisticated analysis of natural glycans. <i>Scientific Data</i> , 2022, 9, 131.	5.3	4
3	CSDB_GT, a curated glycosyltransferase database with close-to-full coverage on three most studied nonanimal species. <i>Glycobiology</i> , 2021, 31, 524-529.	2.5	6
4	Production and Characterization of the exopolysaccharide from strain <i>Paenibacillus polymyxa</i> 2020. <i>PLoS ONE</i> , 2021, 16, e0253482.	2.5	17
5	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.	5.4	7
6	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.	5.4	11
7	Three-Dimensional Structures of Carbohydrates and Where to Find Them. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7702.	4.1	22
8	Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7626.	4.1	4
9	Structural studies of the pectic polysaccharide from fruits of <i>Punica granatum</i> . <i>Carbohydrate Polymers</i> , 2020, 235, 115978.	10.2	57
10	Structure elucidation and gene cluster characterization of the O-antigen of <i>Yersinia kristensenii</i> D _j -134. <i>Carbohydrate Research</i> , 2019, 481, 9-15.	2.3	0
11	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	2.5	292
12	Expanding CSDB_GT glycosyltransferase database with <i>Escherichia coli</i> . <i>Glycobiology</i> , 2019, 29, 285-287.	2.5	11
13	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.	7.5	7
14	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.	7.5	0
15	GRASS: semi-automated NMR-based structure elucidation of saccharides. <i>Bioinformatics</i> , 2018, 34, 957-963.	4.1	31
16	REStLESS: automated translation of glycan sequences from residue-based notation to SMILES and atomic coordinates. <i>Bioinformatics</i> , 2018, 34, 2679-2681.	4.1	14
17	SugarSketcher: Quick and Intuitive Online Glycan Drawing. <i>Molecules</i> , 2018, 23, 3206.	3.8	14
18	Glykoinformatik: Brücken zwischen isolierten Inseln im Datenmeer. <i>Angewandte Chemie</i> , 2018, 130, 15202-15207.	2.0	0

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19	Glycoinformatics: Bridging Isolated Islands in the Sea of Data. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14986-14990.	13.8	29
20	CSDB_GT: a new curated database on glycosyltransferases. <i>Glycobiology</i> , 2017, 27, 285-290.	2.5	22
21	Carbohydrate Structure Database (CSDB): Examples of Usage. , 2017, , 75-113.		3
22	Simulation of 2D NMR Spectra of Carbohydrates Using GODESS Software. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1100-1104.	5.4	22
23	Carbohydrate structure database merged from bacterial, archaeal, plant and fungal parts. <i>Nucleic Acids Research</i> , 2016, 44, D1229-D1236.	14.5	158
24	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.	3.0	12
25	Bacteriochlorin-containing triad: Structure and photophysical properties. <i>Dyes and Pigments</i> , 2015, 121, 21-29.	3.7	9
26	Carbohydrate Structure Database (CSDB): new features. <i>Russian Chemical Bulletin</i> , 2015, 64, 1205-1210.	1.5	4
27	Synthesis of donor-acceptor systems based on the derivatives of chlorophyll a and [60]fullerene. <i>Mendeleev Communications</i> , 2015, 25, 32-33.	1.6	4
28	Improved Carbohydrate Structure Generalization Scheme for ¹ H and ¹³ C NMR Simulations. <i>Analytical Chemistry</i> , 2015, 87, 7006-7010.	6.5	34
29	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	2.5	818
30	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015, 31, 919-925.	4.1	51
31	Bacterial, Plant, and Fungal Carbohydrate Structure Databases: Daily Usage. <i>Methods in Molecular Biology</i> , 2015, 1273, 55-85.	0.9	18
32	Bacterial, Plant, and Fungal Carbohydrate Structure Database (CSDB). , 2015, , 241-250.		2
33	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.	1.6	47
34	Structural characteristics of water-soluble polysaccharides from <i>Heracleum sosnowskyi</i> Manden. <i>Carbohydrate Polymers</i> , 2014, 102, 521-528.	10.2	29
35	Expansion of coverage of Carbohydrate Structure Database (CSDB). <i>Carbohydrate Research</i> , 2014, 389, 112-114.	2.3	23
36	Structural studies of arabinan-rich pectic polysaccharides from <i>Abies sibirica</i> L. Biological activity of pectins of <i>A. sibirica</i> . <i>Carbohydrate Polymers</i> , 2014, 113, 515-524.	10.2	54

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37	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.	5.4	26
38	Synthesis of Chlorin-Fullerene Conjugate. <i>Macroheterocycles</i> , 2014, 7, 196-198.	0.5	3
39	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.	38.1	113
40	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	1.6	46
41	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013, 23, 1422-1424.	2.5	8
42	Critical Analysis of CCSD Data Quality. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2812-2814.	5.4	21
43	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.	2.3	7
44	Bacterial Carbohydrate Structure Database 3: Principles and Realization. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 159-170.	5.4	78
45	Structure of an abequose-containing O-polysaccharide from <i>Citrobacter freundii</i> O22 strain PCM 1555. <i>Carbohydrate Research</i> , 2009, 344, 1724-1728.	2.3	13
46	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.	0.8	25
47	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
48	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.	2.3	10
49	Synthesis of chlorin-carbohydrate conjugates by click chemistry™. <i>Mendeleev Communications</i> , 2008, 18, 135-137.	1.6	30
50	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
51	2,4-Dihydroxypentanoic Acids: New Non-sugar Components of Bacterial Polysaccharides. <i>Natural Product Communications</i> , 2008, 3, 1934578X0800301.	0.5	0
52	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.	14.5	50
53	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.	2.3	7
54	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.	2.3	10

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55	Structure of the O-polysaccharide from the lipopolysaccharide of <i>Providencia alcalifaciens</i> O29. <i>Carbohydrate Research</i> , 2006, 341, 1181-1185.	2.3	7
56	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.	2.3	3
57	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.	2.3	13
58	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.	2.3	10
59	Towards a comprehensive view of the bacterial cell wall. <i>Trends in Microbiology</i> , 2005, 13, 569-574.	7.7	75
60	Tertiary Structure of <i>Staphylococcus aureus</i> Cell Wall Murein. <i>Journal of Bacteriology</i> , 2004, 186, 7141-7148.	2.2	105
61	Structure of the O-polysaccharide of <i>Providencia stuartii</i> O49. <i>Carbohydrate Research</i> , 2004, 339, 1557-1560.	2.3	24
62	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.	1.5	8
63	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.	2.3	8
64	Novel cycloimides in the chlorophyll a series. <i>Mendeleev Communications</i> , 2003, 13, 156-157.	1.6	7
65	Tertiary Structure of Bacterial Murein: the Scaffold Model. <i>Journal of Bacteriology</i> , 2003, 185, 3458-3468.	2.2	90
66	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
67	Structure of the O-polysaccharide and classification of <i>Proteus mirabilis</i> strain G1 in <i>Proteus</i> serogroup O3. <i>FEBS Journal</i> , 2002, 269, 1406-1412.	0.2	53
68	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.	2.3	16
69	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.	1.5	13
70	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.	1.5	18
71	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.	2.3	6
72	Structure of the O-specific polysaccharide of <i>Proteus mirabilis</i> D52 and typing of this strain to <i>Proteus</i> serogroup O33. <i>FEBS Journal</i> , 2001, 268, 4346-4351.	0.2	67

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73	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.	2.3	12
74	Computer-assisted structural analysis of regular glycopolymers on the basis of ¹³ C NMR data. <i>Carbohydrate Research</i> , 2001, 335, 101-114.	2.3	25
75	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
76	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
77	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
78	Epitope Specificity of Polyclonal Rabbit Antisera Against <i>Proteus Vulgaris</i> O-Antigens. , 2000, 485, 243-247.		0
79	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	0
80	Structure of a new acidic O-antigen of <i>Proteusvulgaris</i> O22 containing O-acetylated 3-acetamido-3,6-dideoxy-d-glucose. <i>Carbohydrate Research</i> , 1999, 318, 146-153.	2.3	11
81	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
82	Structure of a new neutral O-specific polysaccharide of <i>Proteus penneri</i> 34. <i>Carbohydrate Research</i> , 1998, 312, 97-101.	2.3	11
83	Structures of the O-antigens of <i>Proteus</i> bacilli belonging to OX group (serogroups O1-O3) used in Weil-Felix test. <i>FEBS Letters</i> , 1997, 411, 221-224.	2.8	34
84	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.	2.8	24
85	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.	2.8	19
86	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.	2.3	18
87	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.	2.3	8
88	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.	2.3	5