Filip V Toukach

List of Publications by Year
in descending order

88 papers	3,174 citations	257450 24 h-index	168389 53 g-index
91 all docs	91 docs citations	91 times ranked	3517 citing authors

#	Article	IF	Citations
1	Symbol Nomenclature for Graphical Representations of Glycans. Glycobiology, 2015, 25, 1323-1324.	2.5	818
2	Updates to the Symbol Nomenclature for Glycans guidelines. Glycobiology, 2019, 29, 620-624.	2.5	292
3	Carbohydrate structure database merged from bacterial, archaeal, plant and fungal parts. Nucleic Acids Research, 2016, 44, D1229-D1236.	14.5	158
4	Statistical analysis of the Bacterial Carbohydrate Structure Data Base (BCSDB): Characteristics and diversity of bacterial carbohydrates in comparison with mammalian glycans. BMC Structural Biology, 2008, 8, 35.	2.3	122
5	Recent advances in computational predictions of NMR parameters for the structure elucidation of carbohydrates: methods and limitations. Chemical Society Reviews, 2013, 42, 8376.	38.1	113
6	Tertiary Structure of Staphylococcus aureus Cell Wall Murein. Journal of Bacteriology, 2004, 186, 7141-7148.	2.2	105
7	Tertiary Structure of Bacterial Murein: the Scaffold Model. Journal of Bacteriology, 2003, 185, 3458-3468.	2.2	90
8	Bacterial Carbohydrate Structure Database 3: Principles and Realization. Journal of Chemical Information and Modeling, 2011, 51, 159-170.	5.4	78
9	Towards a comprehensive view of the bacterial cell wall. Trends in Microbiology, 2005, 13, 569-574.	7.7	75
10	Structure of the O-specific polysaccharide of Proteus mirabilis D52 and typing of this strain to Proteus serogroup O33. FEBS Journal, 2001, 268, 4346-4351.	0.2	67
11	Structural studies of the pectic polysaccharide from fruits of Punica granatum. Carbohydrate Polymers, 2020, 235, 115978.	10.2	57
12	Structural studies of arabinan-rich pectic polysaccharides from Abies sibirica L. Biological activity of pectins of A. sibirica. Carbohydrate Polymers, 2014, 113, 515-524.	10.2	54
13	Structure of the O-polysaccharide and classification of Proteus mirabilis strain G1 in Proteus serogroup O3. FEBS Journal, 2002, 269, 1406-1412.	0.2	53
14	GlycoRDF: an ontology to standardize glycomics data in RDF. Bioinformatics, 2015, 31, 919-925.	4.1	51
15	Sharing of worldwide distributed carbohydrate-related digital resources: online connection of the Bacterial Carbohydrate Structure DataBase and GLYCOSCIENCES.de. Nucleic Acids Research, 2007, 35, D280-D286.	14.5	50
16	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. Journal of Biomedical Semantics, 2014, 5, 5.	1.6	47
17	Introducing glycomics data into the Semantic Web. Journal of Biomedical Semantics, 2013, 4, 39.	1.6	46
18	Structures of the O-antigens ofProteusbacilli belonging to OX group (serogroups O1-O3) used in Weil-Felix test. FEBS Letters, 1997, 411, 221-224.	2.8	34

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19	Improved Carbohydrate Structure Generalization Scheme for ¹H and ¹³C NMR Simulations. Analytical Chemistry, 2015, 87, 7006-7010.	6.5	34
20	GRASS: semi-automated NMR-based structure elucidation of saccharides. Bioinformatics, 2018, 34, 957-963.	4.1	31
21	Synthesis of chlorinâ€“carbohydrate conjugates by â€˜click chemistryâ€™. Mendeleev Communications, 2008, 18, 135-137.	1.6	30
22	Structural characteristics of water-soluble polysaccharides from Heracleum sosnowskyi Manden. Carbohydrate Polymers, 2014, 102, 521-528.	10.2	29
23	Glycoinformatics: Bridging Isolated Islands in the Sea of Data. Angewandte Chemie - International Edition, 2018, 57, 14986-14990.	13.8	29
24	Carbohydrate Structure Generalization Scheme for Database-Driven Simulation of Experimental Observables, Such as NMR Chemical Shifts. Journal of Chemical Information and Modeling, 2014, 54, 2594-2611.	5.4	26
25	Computer-assisted structural analysis of regular glycopolymers on the basis of 13C NMR data. Carbohydrate Research, 2001, 335, 101-114.	2.3	25
26	1,3-dipolar cycloaddition in the synthesis of glycoconjugates of natural chlorins and bacteriochlorins. Journal of Porphyrins and Phthalocyanines, 2009, 13, 336-345.	0.8	25
27	Structures of new acidic O-specific polysaccharides of the bacterium Proteus mirabilis serogroups O26 and O30. FEBS Letters, 1996, 386, 247-251.	2.8	24
28	Structure of the O-polysaccharide of Providencia stuartii O49. Carbohydrate Research, 2004, 339, 1557-1560.	2.3	24
29	Expansion of coverage of Carbohydrate Structure Database (CSDB). Carbohydrate Research, 2014, 389, 112-114.	2.3	23
30	CSDB_GT: a new curated database on glycosyltransferases. Glycobiology, 2017, 27, 285-290.	2.5	22
31	Simulation of 2D NMR Spectra of Carbohydrates Using GODESS Software. Journal of Chemical Information and Modeling, 2016, 56, 1100-1104.	5.4	22
32	Three-Dimensional Structures of Carbohydrates and Where to Find Them. International Journal of Molecular Sciences, 2020, 21, 7702.	4.1	22
33	Critical Analysis of CCSD Data Quality. Journal of Chemical Information and Modeling, 2012, 52, 2812-2814.	5.4	21
34	Structural and serological studies of the O-specific polysaccharide of the bacteriumProteus mirabilisO10 containingL-altruronic acid, a new component of O-antigens. FEBS Letters, 1996, 398, 297-302.	2.8	19
35	Somatic antigens of pseudomonads: Structure of the O-specific polysaccharide of the reference strain for Pseudomonas fluorescens (IMV 4125, ATCC 13525, biovar A). Carbohydrate Research, 1996, 291, 217-224.	2.3	18
36	Structure of a 2-aminoethyl phosphate-containing O-specific polysaccharide of Proteus penneri 63 from a new serogroup O68. FEBS Journal, 2000, 267, 601-605.	0.2	18

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37	New structures of the O-specific polysaccharides of bacteria of the genus Proteus. 1. Phosphate-containing polysaccharides. Biochemistry (Moscow), 2002, 67, 265-276.	1.5	18
38	Bacterial, Plant, and Fungal Carbohydrate Structure Databases: Daily Usage. Methods in Molecular Biology, 2015, 1273, 55-85.	0.9	18
39	Production and Ñharacterization of the exopolysaccharide from strain Paenibacillus polymyxa 2020. PLoS ONE, 2021, 16, e0253482.	2.5	17
40	Structure of the O-specific polysaccharide of a serologically separate strain Proteus penneri 2 from a new proposed serogroup O66. FEBS Journal, 1999, 261, 392-397.	0.2	16
41	Structure of the O-specific polysaccharide of Proteus penneri 103 containing ribitol and 2-aminoethanol phosphates. Carbohydrate Research, 2002, 337, 1535-1540.	2.3	16
42	Structure of the O-specific polysaccharide of Proteus penneri 71 and classification of cross-reactive P.â€ƒpenneri strains to a new proposed serogroup O64. FEBS Journal, 2000, 267, 808-814.	0.2	15
43	REStLESS: automated translation of glycan sequences from residue-based notation to SMILES and atomic coordinates. Bioinformatics, 2018, 34, 2679-2681.	4.1	14
44	SugarSketcher: Quick and Intuitive Online Glycan Drawing. Molecules, 2018, 23, 3206.	3.8	14
45	New structures of the O-specific polysaccharides of Proteus. 2. Polysaccharides containing O-acetyl groups. Biochemistry (Moscow), 2002, 67, 201-211.	1.5	13
46	The O-polysaccharide from the lipopolysaccharide of Providencia stuartii O44 contains l-quinovose, a 6-deoxy sugar rarely occurring in bacterial polysaccharides. Carbohydrate Research, 2005, 340, 1419-1423.	2.3	13
47	Structure of an abequose-containing O-polysaccharide from Citrobacter freundii O22 strain PCM 1555. Carbohydrate Research, 2009, 344, 1724-1728.	2.3	13
48	Structure of the O-specific polysaccharide of Proteus mirabilis O16 containing ethanolamine phosphate and ribitol phosphate. Carbohydrate Research, 2001, 331, 213-218.	2.3	12
49	Carbohydrate Structure Database: tools for statistical analysis of bacterial, plant and fungal glycomes. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav073.	3.0	12
50	Structure of a new neutral O-specific polysaccharide of Proteus penneri 34. Carbohydrate Research, 1998, 312, 97-101.	2.3	11
51	Structure of a new acidic O-antigen of Proteusvulgaris O22 containing O-acetylated 3-acetamido-3,6-dideoxy-d-glucose. Carbohydrate Research, 1999, 318, 146-153.	2.3	11
52	Structural and serological studies of the related O-specific polysaccharides of Proteus vulgaris O21 and Proteus mirabilis O48 having oligosaccharide-phosphate repeating units. FEBS Journal, 2000, 267, 6888-6896.	0.2	11
53	Expanding CSDB_GT glycosyltransferase database with Escherichia coli. Glycobiology, 2019, 29, 285-287.	2.5	11
54	New Features of Carbohydrate Structure Database Notation (CSDB Linear), As Compared to Other Carbohydrate Notations. Journal of Chemical Information and Modeling, 2020, 60, 1276-1289.	5.4	11

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55	The structure of the O-polysaccharide from the lipopolysaccharide of Providencia stuartii O57 containing an amide of d-galacturonic acid with l-alanine. Carbohydrate Research, 2005, 340, 775-780.	2.3	10
56	New structure for the O-polysaccharide of Providencia alcalifaciens O27 and revised structure for the O-polysaccharide of Providencia stuartii O43. Carbohydrate Research, 2007, 342, 1116-1121.	2.3	10
57	Structure of the O-polysaccharide of Providencia alcalifaciens O8 containing (2S,4R)-2,4-dihydroxypentanoic acid, a new non-sugar component of bacterial glycans. Carbohydrate Research, 2008, 343, 2706-2711.	2.3	10
58	Structure of a phosphoethanolamine-containing O-polysaccharide ofCitrobacter freundiistrain PCM 1443 from serogroup O39 and its relatedness to theKlebsiella pneumoniaeO1 polysaccharide. FEMS Immunology and Medical Microbiology, 2008, 53, 60-64.	2.7	9
59	Bacteriochlorin-containing triad: Structure and photophysical properties. Dyes and Pigments, 2015, 121, 21-29.	3.7	9
60	Structure of the O-specific polysaccharide of Hafnia alvei PCM 1222 containing 2-aminoethyl phosphate. Carbohydrate Research, 1996, 295, 117-126.	2.3	8
61	New structures of the O-specific polysaccharides of Proteus. 3. Polysaccharides containing non-carbohydrate organic acids. Biochemistry (Moscow), 2003, 68, 446-457.	1.5	8
62	Structure of the O-polysaccharide of Proteusvulgaris O44: a new O-antigen that contains an amide of d-glucuronic acid with l-alanine. Carbohydrate Research, 2003, 338, 1431-1435.	2.3	8
63	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. Glycobiology, 2013, 23, 1422-1424.	2.5	8
64	Structural and serological relatedness of the O-antigensof Proteus penneri 1 and 4 from a novel Proteus serogroup O72. FEBS Journal, 2002, 269, 358-363.	0.2	7
65	Novel cycloimides in the chlorophyll a series. Mendeleev Communications, 2003, 13, 156-157.	1.6	7
66	Structure of the O-polysaccharide from the lipopolysaccharide of Providencia alcalifaciens O29. Carbohydrate Research, 2006, 341, 1181-1185.	2.3	7
67	Structure of the O-polysaccharide and serological cross-reactivity of the lipopolysaccharide of Providencia alcalifaciens O32 containing N-acetylisomuramic acid. Carbohydrate Research, 2007, 342, 268-273.	2.3	7
68	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. Carbohydrate Research, 2012, 355, 56-62.	2.3	7
69	Structural studies of O-specific polysaccharide(s) and biological activity toward plants of the lipopolysaccharide from Azospirillum brasilense SR8. International Journal of Biological Macromolecules, 2019, 126, 246-253.	7.5	7
70	CSDB/SNFG Structure Editor: An Online Glycan Builder with 2D and 3D Structure Visualization. Journal of Chemical Information and Modeling, 2021, 61, 4940-4948.	5.4	7
71	CSDB_GT, a curated glycosyltransferase database with close-to-full coverage on three most studied nonanimal species. Glycobiology, 2021, 31, 524-529.	2.5	6
72	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. Archivum Immunologiae Et Therapiae Experimentalis, 2002, 50, 345-50.	2.3	6

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73	Structure of the O-specific polysaccharide of Hafnia alvei PCM 1222 containing 2-aminoethyl phosphate. Carbohydrate Research, 1996, 295, 117-126.	2.3	5
74	Carbohydrate Structure Database (CSDB): new features. Russian Chemical Bulletin, 2015, 64, 1205-1210.	1.5	4
75	Synthesis of donorâ€“acceptor systems based on the derivatives of chlorophyll a and [60]fullerene. Mendeleev Communications, 2015, 25, 32-33.	1.6	4
76	Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. International Journal of Molecular Sciences, 2020, 21, 7626.	4.1	4
77	Source files of the Carbohydrate Structure Database: the way to sophisticated analysis of natural glycans. Scientific Data, 2022, 9, 131.	5.3	4
78	Structures and serology of the O-antigens of Proteus strains classified into serogroup O17 and former serogroup O35. Archivum Immunologiae Et Therapiae Experimentalis, 2006, 54, 277-282.	2.3	3
79	Carbohydrate Structure Database (CSDB): Examples of Usage. , 2017, , 75-113.		3
80	Synthesis of Chlorin-Fullerene Conjugate. Macroheterocycles, 2014, 7, 196-198.	0.5	3
81	Bacterial, Plant, and Fungal Carbohydrate Structure Database (CSDB). , 2015, , 241-250.		2
82	Carbohydrate Structure Database oligosaccharide conformation tool. Glycobiology, 2022, 32, 460-468.	2.5	2
83	Epitope Specificity of Polyclonal Rabbit Antisera Against Proteus Vulgaris O-Antigens. , 2000, 485, 243-247.		0
84	2,4-Dihydroxypentanoic Acids: New Non-sugar Components of Bacterial Polysaccharides. Natural Product Communications, 2008, 3, 1934578X0800301.	0.5	0
85	Glykoinformatik: BrÃ¼cken zwischen isolierten Inseln im Datenmeer. Angewandte Chemie, 2018, 130, 15202-15207.	2.0	0
86	Structure elucidation and gene cluster characterization of the O-antigen of Yersinia kristensenii Đ¡-134. Carbohydrate Research, 2019, 481, 9-15.	2.3	0
87	Structure and gene cluster of the O-polysaccharide of Yersinia rohdei H274-36/78. International Journal of Biological Macromolecules, 2019, 122, 555-561.	7.5	0
88	Structural and serological studies of the related O-specific polysaccharides of Proteus vulgaris O21 and Proteus mirabilis O48 having oligosaccharide-phosphate repeating units. FEBS Journal, 2000, 267, 6888-6896.	0.2	0