

Andrei V Perepelov

List of Publications by Year in descending order

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citations

566801

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101
all docs

101
docs citations

101
times ranked

956
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and genetics of <i>Shigella</i> O antigens. FEMS Microbiology Reviews, 2008, 32, 627-653.	3.9	305
2	Structure and genetics of <i>Escherichia coli</i> O antigens. FEMS Microbiology Reviews, 2020, 44, 655-683.	3.9	143
3	<i>Shigella flexneri</i> O-antigens revisited: final elucidation of the O-acetylation profiles and a survey of the O-antigen structure diversity. FEMS Immunology and Medical Microbiology, 2012, 66, 201-210.	2.7	75
4	A group of <i>Escherichia coli</i> and <i>Salmonella enterica</i> O antigens sharing a common backbone structure. Microbiology (United Kingdom), 2007, 153, 2159-2167.	0.7	59
5	A similarity in the O-acetylation pattern of the O-antigens of <i>Shigella flexneri</i> types 1a, 1b, and 2a. Carbohydrate Research, 2009, 344, 687-692.	1.1	39
6	Structural and genetic evidence that the <i>Escherichia coli</i> O148 O antigen is the precursor of the <i>Shigella dysenteriae</i> type 1 O antigen and identification of a glucosyltransferase gene. Microbiology (United Kingdom), 2007, 153, 139-147.	0.7	36
7	Structures of the O-antigens of <i>Escherichia coli</i> O13, O129, and O135 related to the O-antigens of <i>Shigella flexneri</i> . Carbohydrate Research, 2010, 345, 1594-1599.	1.1	29
8	Structural studies of the O-specific polysaccharide of <i>Vibrio cholerae</i> O8 using solvolysis with triflic acid. Carbohydrate Research, 2001, 330, 83-92.	1.1	23
9	A gene cluster at an unusual chromosomal location responsible for the novel O-antigen synthesis in <i>Escherichia coli</i> O62 by the ABC transporter-dependent pathway. Glycobiology, 2017, 27, 669-676.	1.3	20
10	Structure and genetics of the O-antigen of <i>Enterobacter cloacae</i> C6285 containing di-N-acetylglucosaminic acid. Carbohydrate Research, 2014, 392, 21-24.	1.1	19
11	First application of triflic acid for selective cleavage of glycosidic linkages in structural studies of a bacterial polysaccharide from <i>Pseudoalteromonas</i> sp. KMM 634. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 363-366.	1.3	18
12	Structural and genetic characterization of <i>Escherichia coli</i> O99 antigen. FEMS Immunology and Medical Microbiology, 2009, 57, 80-87.	2.7	18
13	Structure of a teichoic acid-like O-polysaccharide of <i>Escherichia coli</i> O29. Carbohydrate Research, 2006, 341, 2176-2180.	1.1	17
14	Structural and serological studies on the O-antigen of <i>Proteus mirabilis</i> O14, a new polysaccharide containing 2-[(R)-1-carboxyethylamino]ethyl phosphate. FEBS Journal, 1999, 261, 347-353.	0.2	16
15	Structure and genetics of the O-antigen of <i>Enterobacter cloacae</i> G3054 containing di-N-acetylglucosaminic acid. Carbohydrate Research, 2015, 407, 59-62.	1.1	16
16	A new ethanolamine phosphate-containing variant of the O-antigen of <i>Shigella flexneri</i> type 4a. Carbohydrate Research, 2009, 344, 1588-1591.	1.1	15
17	A pseudoaminic acid-containing O-specific polysaccharide from a marine bacterium <i>Cellulophaga fucicola</i> . Carbohydrate Research, 2007, 342, 1378-1381.	1.1	14
18	Structure of the O-polysaccharide of <i>Escherichia coli</i> O112ab containing l-iduronic acid. Carbohydrate Research, 2008, 343, 571-575.	1.1	13

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19	The O-polysaccharide of <i>Escherichia coli</i> O112ac has the same structure as that of <i>Shigella dysenteriae</i> type 2 but is devoid of O-acetylation: a revision of the <i>S. dysenteriae</i> type 2 O-polysaccharide structure. <i>Carbohydrate Research</i> , 2008, 343, 977-981.	1.1	13
20	Structure of the O-antigen of <i>Salmonella</i> O66 and the genetic basis for similarity and differences between the closely related O-antigens of <i>Escherichia coli</i> O166 and <i>Salmonella</i> O66. <i>Microbiology (United Kingdom)</i> , 2010, 156, 1642-1649.	0.7	13
21	Structural and genetic characterization of the closely related O-antigens of <i>Escherichia coli</i> O85 and <i>Salmonella enterica</i> O17. <i>Innate Immunity</i> , 2011, 17, 164-173.	1.1	13
22	Structure elucidation and gene cluster annotation of the O-antigen of <i>Escherichia coli</i> O39; application of anhydrous trifluoroacetic acid for selective cleavage of glycosidic linkages. <i>Carbohydrate Research</i> , 2014, 388, 30-36.	1.1	13
23	Structure and genetics of the O-antigen of <i>Escherichia coli</i> O169 related to the O-antigen of <i>Shigella boydii</i> type 6. <i>Carbohydrate Research</i> , 2015, 414, 46-50.	1.1	13
24	Structure and genetics of the O-antigens of <i>Escherichia coli</i> O182 and O187. <i>Carbohydrate Research</i> , 2016, 435, 58-67.	1.1	13
25	Relatedness of the O-polysaccharide structures of <i>Escherichia coli</i> O123 and <i>Salmonella enterica</i> O58, both containing 4,6-dideoxy-4-{N-[(S)-3-hydroxybutanoyl]-d-alanyl}amino-d-glucose; revision of the <i>E. coli</i> O123 O-polysaccharide structure. <i>Carbohydrate Research</i> , 2010, 345, 825-829.	1.1	12
26	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O43. <i>Carbohydrate Research</i> , 2015, 416, 32-36.	1.1	12
27	Structure of the O-polysaccharide of <i>Escherichia coli</i> O132. <i>Carbohydrate Research</i> , 2016, 427, 44-47.	1.1	12
28	Structures and genetics of biosynthesis of glycerol 1-phosphate-containing O-polysaccharides of <i>Escherichia coli</i> O28ab, O37, and O100. <i>Carbohydrate Research</i> , 2016, 426, 26-32.	1.1	12
29	Structure and gene cluster of the O-antigen of <i>Enterobacter cloacae</i> G3421. <i>Carbohydrate Research</i> , 2016, 427, 55-59.	1.1	12
30	Structure and gene cluster of the O-polysaccharide from <i>Pseudomonas veronii</i> A-6-5 and its uranium bonding. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2197-2204.	3.6	12
31	Structure of a glycerol teichoic acid-like O-specific polysaccharide of <i>Proteus vulgaris</i> O12. <i>FEBS Journal</i> , 2000, 267, 788-793.	0.2	11
32	Close relation of the O-polysaccharide structure of <i>Escherichia coli</i> O168 and revised structure of the O-polysaccharide of <i>Shigella dysenteriae</i> type 4. <i>Carbohydrate Research</i> , 2007, 342, 2676-2681.	1.1	11
33	Solvolytic cleavage with trifluoroacetic acid: an efficient method for selective cleavage of polysaccharides. <i>Mendeleev Communications</i> , 2016, 26, 279-281.	0.6	11
34	Structural and genetic characterization of the O-antigen of <i>Enterobacter cloacae</i> C5529 related to the O-antigen of <i>E. cloacae</i> G3054. <i>Carbohydrate Research</i> , 2017, 443-444, 49-52.	1.1	11
35	Structure of the O-polysaccharide of <i>Escherichia coli</i> O150 containing 2-acetamido-4-O-[(S)-1-carboxyethyl]-2-deoxy-d-glucose. <i>Carbohydrate Research</i> , 2007, 342, 648-652.	1.1	10
36	Structural and genetic studies of the O-antigen of <i>Enterobacter cloacae</i> G2277. <i>Carbohydrate Research</i> , 2014, 387, 10-13.	1.1	10

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37	Correlation of <i>Acinetobacter baumannii</i> K144 and K86 capsular polysaccharide structures with genes at the K locus reveals the involvement of a novel multifunctional rhamnosyltransferase for structural synthesis. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1294-1300.	3.6	10
38	Structure and gene cluster of the O-antigen of <i>Salmonella enterica</i> O60 containing 3-formamido-3,6-dideoxy-d-galactose. <i>Carbohydrate Research</i> , 2010, 345, 1632-1634.	1.1	9
39	The O-antigen of <i>Salmonella enterica</i> O13 and its relation to the O-antigen of <i>Escherichia coli</i> O127. <i>Carbohydrate Research</i> , 2010, 345, 1808-1811.	1.1	9
40	Structures of the O-polysaccharides of <i>Salmonella enterica</i> O59 and <i>Escherichia coli</i> O15. <i>Carbohydrate Research</i> , 2011, 346, 381-383.	1.1	9
41	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O68. <i>Carbohydrate Research</i> , 2014, 397, 27-30.	1.1	9
42	Structure of the O-specific polysaccharide of <i>Proteus vulgaris</i> O45 containing 3-acetamido-3,6-dideoxy-d-galactose. <i>Carbohydrate Research</i> , 2003, 338, 327-331.	1.1	8
43	Structure of the O-polysaccharide and serological studies of the lipopolysaccharide of <i>Proteus mirabilis</i> 2002. <i>Carbohydrate Research</i> , 2005, 340, 2305-2310.	1.1	8
44	Structure of the O-polysaccharide of <i>Escherichia coli</i> O61, Another E. coli O-antigen That Contains 5,7-Diacetamido-3,5,7,9-tetradecyloxy-l-glycero-D-galacto-non-2-ulosonic (Di-N-acetyl-8-epilegionaminic) Acid. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 463-472.	0.4	8
45	Structural and genetic characterization of the O-antigen of <i>Salmonella enterica</i> O56 containing a novel derivative of 4-amino-4,6-dideoxy-d-glucose. <i>Carbohydrate Research</i> , 2010, 345, 1891-1895.	1.1	8
46	Structure of the O-polysaccharide and characterization of the O-antigen gene cluster of <i>Salmonella enterica</i> O53. <i>Carbohydrate Research</i> , 2011, 346, 373-376.	1.1	8
47	Structure of the β -l-fucopyranosyl phosphate-containing O-specific polysaccharide of <i>Escherichia coli</i> O84. <i>International Journal of Biological Macromolecules</i> , 2016, 88, 578-585.	3.6	8
48	Structure and gene cluster of the O-antigen of <i>Enterobacter cloacae</i> C4115. <i>Carbohydrate Research</i> , 2017, 448, 110-114.	1.1	8
49	Structure of the O-polysaccharide of <i>Proteus</i> serogroup O34 containing 2-acetamido-2-deoxy-l-d-galactosyl phosphate. <i>Carbohydrate Research</i> , 2004, 339, 2145-2149.	1.1	7
50	Structure and gene cluster of the O-antigen of <i>Salmonella enterica</i> O44. <i>Carbohydrate Research</i> , 2010, 345, 2099-2101.	1.1	7
51	Structure of the O-polysaccharide of <i>Salmonella enterica</i> O41. <i>Carbohydrate Research</i> , 2010, 345, 971-973.	1.1	7
52	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O109; chemical and genetic evidences of the presence of l-RhaN3N derivatives in the O-antigens of E. coli O109 and O119. <i>FEMS Immunology and Medical Microbiology</i> , 2011, 61, 47-53.	2.7	7
53	Structure of the O-polysaccharide of <i>Vibrio cholerae</i> O43 containing a new monosaccharide derivative, 4-(N-acetyl-l-allothreonyl)amino-4,6-dideoxy-d-glucose. <i>Carbohydrate Research</i> , 2011, 346, 430-433.	1.1	7
54	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O120. <i>Carbohydrate Research</i> , 2012, 353, 106-110.	1.1	7

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55	Structure of the O-specific polysaccharide from a marine bacterium <i>Cellulophaga pacifica</i> containing rarely occurred sugars, Fuc4NAc and ManNAcA. <i>Carbohydrate Research</i> , 2013, 372, 69-72.	1.1	7
56	Structure elucidation and analysis of biosynthesis genes of the O-antigen of <i>Escherichia coli</i> O131 containing N-acetylneuraminic acid. <i>Carbohydrate Research</i> , 2016, 436, 41-44.	1.1	7
57	Structures of the O-specific polysaccharides and a serological cross-reactivity of the lipopolysaccharides of <i>Proteus mirabilis</i> O24 and O29. <i>FEBS Letters</i> , 1999, 456, 227-231.	1.3	6
58	Structure of the O-specific polysaccharide of <i>Proteus vulgaris</i> O15 containing a novel regioisomer of N-acetylmuramic acid, 2-acetamido-4-O-[(R)-1-carboxyethyl]-2-deoxy-d-glucose. <i>Carbohydrate Research</i> , 2002, 337, 2463-2468.	1.1	6
59	Structure and genetics of the O-antigen of <i>Escherichia coli</i> O158. <i>Carbohydrate Research</i> , 2011, 346, 2274-2277.	1.1	6
60	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O165 containing 5-N-acetyl-7-N-[(R)-3-hydroxybutanoyl]pseudaminic acid. <i>Glycobiology</i> , 2016, 26, 335-342.	1.3	6
61	Structure and genetics of the O-specific polysaccharide of <i>Escherichia coli</i> O27. <i>Carbohydrate Research</i> , 2018, 456, 1-4.	1.1	6
62	O-antigen structure and gene clusters of <i>Escherichia coli</i> O51 and <i>Salmonella enterica</i> O57; another instance of identical O-antigens in the two species. <i>Carbohydrate Research</i> , 2011, 346, 828-832.	1.1	5
63	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O102. <i>Carbohydrate Research</i> , 2012, 361, 73-77.	1.1	5
64	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O110 containing an amide of d-galacturonic acid with d-allothreonine. <i>Carbohydrate Research</i> , 2013, 368, 57-60.	1.1	5
65	Structure elucidation and biosynthesis gene cluster organization of the O-antigen of <i>Escherichia coli</i> O170. <i>Carbohydrate Research</i> , 2015, 417, 11-14.	1.1	5
66	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O156 containing a pyruvic acid acetal. <i>Carbohydrate Research</i> , 2016, 430, 24-28.	1.1	5
67	Structural studies on the O-polysaccharide of <i>Escherichia coli</i> O57. <i>Carbohydrate Research</i> , 2018, 465, 1-3.	1.1	5
68	Structure elucidation and gene cluster annotation of the O-antigen of <i>Vibrio cholerae</i> O100 containing two rarely occurred amino sugar derivatives. <i>Carbohydrate Research</i> , 2019, 472, 98-102.	1.1	5
69	Structure of the O-polysaccharide of <i>Proteus mirabilis</i> CCUG 10701 (OB) classified into a new <i>Proteus</i> serogroup, O74. <i>Carbohydrate Research</i> , 2004, 339, 1395-1398.	1.1	4
70	Structure of the O-polysaccharide of <i>Proteus mirabilis</i> CCUG 10705 (OF) containing an amide of d-galacturonic acid with l-alanine. <i>Carbohydrate Research</i> , 2006, 341, 1969-1974.	1.1	4
71	Structure and genetics of biosynthesis of the glycosyl phosphate-containing O-polysaccharide of <i>Escherichia coli</i> O160. <i>Carbohydrate Research</i> , 2015, 417, 89-93.	1.1	4
72	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O133. <i>Carbohydrate Research</i> , 2016, 430, 82-84.	1.1	4

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73	Structure and genetics of a glycerol 2-phosphate-containing O-specific polysaccharide of <i>Escherichia coli</i> O33. <i>Carbohydrate Research</i> , 2018, 460, 47-50.	1.1	4
74	Structure of the O-polysaccharide of <i>Proteus mirabilis</i> O19 and reclassification of certain <i>Proteus</i> strains that were formerly classified in serogroup O19. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2004, 52, 188-96.	1.0	4
75	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O19ab. <i>Carbohydrate Research</i> , 2011, 346, 2812-2815.	1.1	3
76	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O154. <i>Carbohydrate Research</i> , 2013, 379, 51-54.	1.1	3
77	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O76. <i>Carbohydrate Research</i> , 2013, 377, 14-17.	1.1	3
78	Structure elucidation and gene cluster characterization of the O-antigen of <i>Escherichia coli</i> O80. <i>Carbohydrate Research</i> , 2016, 432, 83-87.	1.1	3
79	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O54. <i>Carbohydrate Research</i> , 2018, 462, 34-38.	1.1	3
80	Structure of ðž-polysaccharide of <i>Escherichia coli</i> O95: a disaccharide repeating unit containing d-fucose and d-threo-pent-2-ulose (xylulose). <i>Russian Chemical Bulletin</i> , 2018, 67, 1931-1933.	0.4	3
81	NoteIdentification of 5,7-diacetamido-3,5,7,9-tetradeoxy-d-glycero-l-manno-non-2-ulosonic acid (di-N-acetyl-8-epipseudaminic acid) in the capsular polysaccharide of <i>Acinetobacter baumannii</i> Res546. <i>Carbohydrate Research</i> , 2022, 513, 108531.	1.1	3
82	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O36. <i>Carbohydrate Research</i> , 2014, 390, 46-49.	1.1	2
83	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O30. <i>Carbohydrate Research</i> , 2014, 389, 196-198.	1.1	2
84	Structural and genetic studies of the O-antigen of <i>Escherichia coli</i> O163. <i>Carbohydrate Research</i> , 2015, 404, 34-38.	1.1	2
85	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O140. <i>Carbohydrate Research</i> , 2015, 411, 33-36.	1.1	2
86	Structures and gene clusters of the closely related O-antigens of <i>Escherichia coli</i> O46 and O134, both containing d-glucuronoyl-d-allothreonine. <i>Carbohydrate Research</i> , 2015, 409, 20-24.	1.1	2
87	Structures and gene clusters of the O-specific polysaccharides of the lipopolysaccharides of <i>Escherichia coli</i> O69 and O146 containing glycolactilic acids: ether conjugates of d-GlcNAc and d-Glc with (R)- and (S)-lactic acid. <i>Glycoconjugate Journal</i> , 2017, 34, 71-84.	1.4	2
88	Structural and genetic relatedness of the O-antigens of <i>Escherichia coli</i> O50 and O2. <i>Carbohydrate Research</i> , 2018, 464, 8-11.	1.1	2
89	Structure and gene cluster of the O-antigen of <i>Enterobacter cloacae</i> G3422. <i>Carbohydrate Research</i> , 2021, 510, 108440.	1.1	2
90	Structure of a glucosyl phosphate-containing O-polysaccharide of <i>Proteus vulgaris</i> O42. <i>Carbohydrate Research</i> , 2007, 342, 2826-2831.	1.1	1

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91	Structure and gene cluster of the O-antigen of Escherichia coli O137. Carbohydrate Research, 2016, 422, 13-16.	1.1	1
92	Structure and gene cluster of the O-antigen of Escherichia coli O96. Carbohydrate Research, 2016, 420, 1-5.	1.1	1
93	Escherichia coli O106, a new member of a group of enteric bacteria sharing an O-polysaccharide backbone structure. Russian Chemical Bulletin, 2018, 67, 1538-1541.	0.4	1
94	Structure and gene cluster of the O-antigen of Escherichia coli strain SDLZB008. Carbohydrate Research, 2020, 498, 108154.	1.1	1
95	Structure and genetics of the O-antigen of Enterobacter cloacae K7 containing di-N-acetylpsuedaminic acid. Carbohydrate Research, 2021, 508, 108392.	1.1	1
96	Structure elucidation and gene cluster characterization of the O-antigen of Vibrio cholerae O68 containing (2S,4R)-2,4-dihydroxypentanoic acid. Carbohydrate Research, 2019, 484, 107766.	1.1	0
97	Structure elucidation and gene cluster characterization of the O-antigen of Vibrio cholerae O14. Carbohydrate Research, 2019, 474, 67-71.	1.1	0
98	Structure elucidation and gene cluster annotation of the O-antigen of Pseudomonas veronii SHC-8-1 containing 2-acetamido-2,4,6-trideoxy-4-(3,5-dihydroxyhexanoylamino)-d-glucose. Carbohydrate Research, 2021, 504, 108306.	1.1	0
99	Structure of the O-antigen of a halophilic bacterium Salinicola salarius HO-14. Carbohydrate Research, 2020, 497, 108149.	1.1	0