

Irina Sadovskaya

List of Publications by Year in descending order

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53
papers

3,667
citations

147801

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168389

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docs citations

53
times ranked

4229
citing authors

#	ARTICLE	IF	CITATIONS
1	Pel is a cationic exopolysaccharide that cross-links extracellular DNA in the <i>Pseudomonas aeruginosa</i> biofilm matrix. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11353-11358.	7.1	485
2	Genetic and biochemical analyses of the <i>Pseudomonas aeruginosa</i> Psl exopolysaccharide reveal overlapping roles for polysaccharide synthesis enzymes in Psl and LPS production. Molecular Microbiology, 2009, 73, 622-638.	2.5	326
3	Susceptibility of staphylococcal biofilms to enzymatic treatments depends on their chemical composition. Applied Microbiology and Biotechnology, 2007, 75, 125-132.	3.6	236
4	Extracellular Carbohydrate-Containing Polymers of a Model Biofilm-Producing Strain, <i>Staphylococcus epidermidis</i> RP62A. Infection and Immunity, 2005, 73, 3007-3017.	2.2	168
5	Recombinant human DNase I decreases biofilm and increases antimicrobial susceptibility in staphylococci. Journal of Antibiotics, 2012, 65, 73-77.	2.0	161
6	Cell Surface of <i>Lactococcus lactis</i> Is Covered by a Protective Polysaccharide Pellicle. Journal of Biological Chemistry, 2010, 285, 10464-10471.	3.4	148
7	Poly-N-acetylglucosamine mediates biofilm formation and antibiotic resistance in <i>Actinobacillus pleuropneumoniae</i> . Microbial Pathogenesis, 2007, 43, 1-9.	2.9	143
8	Biofilms of clinical strains of <i>Staphylococcus</i> that do not contain polysaccharide intercellular adhesin. FEMS Microbiology Letters, 2006, 255, 11-16.	1.8	118
9	Effect of berberine on <i>Staphylococcus epidermidis</i> biofilm formation. International Journal of Antimicrobial Agents, 2009, 34, 60-66.	2.5	118
10	High-level antibiotic resistance in <i>Pseudomonas aeruginosa</i> biofilm: the ndvB gene is involved in the production of highly glycerol-phosphorylated (1->3)-glucans, which bind aminoglycosides. Glycobiology, 2010, 20, 895-904.	2.5	101
11	Poly-N-acetylglucosamine mediates biofilm formation and detergent resistance in <i>Aggregatibacter actinomycetemcomitans</i> . Microbial Pathogenesis, 2008, 44, 52-60.	2.9	99
12	Differences in Lactococcal Cell Wall Polysaccharide Structure Are Major Determining Factors in Bacteriophage Sensitivity. MBio, 2014, 5, e00880-14.	4.1	98
13	Structural elucidation of the extracellular and cell-wall teichoic acids of <i>Staphylococcus epidermidis</i> RP62A, a reference biofilm-positive strain. Carbohydrate Research, 2004, 339, 1467-1473.	2.3	90
14	Structure, Adsorption to Host, and Infection Mechanism of Virulent Lactococcal Phage p2. Journal of Virology, 2013, 87, 12302-12312.	3.4	85
15	Structural characterization of the outer core and the O-chain linkage region of lipopolysaccharide from <i>Pseudomonas aeruginosa</i> serotype O5. FEBS Journal, 2000, 267, 1640-1650.	0.2	79
16	Structural elucidation of the lipopolysaccharide core regions of the wild-type strain PAO1 and O-chain-deficient mutant strains AK1401 and AK1012 from <i>Pseudomonas aeruginosa</i> serotype O5. FEBS Journal, 1998, 255, 673-684.	0.2	75
17	Characterization of lipopolysaccharide-deficient mutants of <i>Pseudomonas aeruginosa</i> derived from serotypes O3, O5, and O6. Infection and Immunity, 1994, 62, 809-817.	2.2	75
18	Quantification of the extracellular matrix of the <i>Listeria monocytogenes</i> biofilms of different phylogenetic lineages with optimization of culture conditions. Journal of Applied Microbiology, 2013, 114, 1120-1131.	3.1	71

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19	Chemical structure and biological activity of a highly branched (1 \rightarrow 3,1 \rightarrow 6)- β -d-glucan from <i>Isochrysis galbana</i> . <i>Carbohydrate Polymers</i> , 2014, 111, 139-148.	10.2	70
20	Structural Characterization of the Extracellular Polysaccharide from <i>Vibrio cholerae</i> O1 El-Tor. <i>PLoS ONE</i> , 2014, 9, e86751.	2.5	66
21	Structural elucidation of the extracellular and cell-wall teichoic acids of <i>Staphylococcus aureus</i> MN8m, a biofilm forming strain. <i>Carbohydrate Research</i> , 2006, 341, 738-743.	2.3	57
22	Chemical Analysis of Cellular and Extracellular Carbohydrates of a Biofilm-Forming Strain <i>Pseudomonas aeruginosa</i> PA14. <i>PLoS ONE</i> , 2010, 5, e14220.	2.5	56
23	Extracellular DNA-dependent biofilm formation by <i>Staphylococcus epidermidis</i> RP62A in response to subminimal inhibitory concentrations of antibiotics. <i>Research in Microbiology</i> , 2011, 162, 535-541.	2.1	55
24	Molecular Insights on the Recognition of a <i>Lactococcus lactis</i> Cell Wall Pellicle by the Phage 1358 Receptor Binding Protein. <i>Journal of Virology</i> , 2014, 88, 7005-7015.	3.4	53
25	Structural studies of the cell wall polysaccharides from three strains of <i>Lactobacillus helveticus</i> with different autolytic properties: DPC4571, BRO1, and LH1. <i>Carbohydrate Research</i> , 2013, 379, 7-12.	2.3	44
26	<i>Staphylococcus epidermidis</i> polysaccharide intercellular adhesin induces IL-8 expression in human astrocytes via a mechanism involving TLR2. <i>Cellular Microbiology</i> , 2009, 11, 421-432.	2.1	42
27	Another Brick in the Wall: a Rhamnan Polysaccharide Trapped inside Peptidoglycan of <i>Lactococcus lactis</i> . <i>MBio</i> , 2017, 8, .	4.1	42
28	Structural studies of the rhamnose-rich cell wall polysaccharide of <i>Lactobacillus casei</i> BL23. <i>Carbohydrate Research</i> , 2016, 435, 156-161.	2.3	40
29	Structural elucidation of the lipopolysaccharide core region of the O-chain-deficient mutant strain A28 from <i>Pseudomonas aeruginosa</i> serotype O6 (International Antigenic Typing Scheme). <i>Journal of Bacteriology</i> , 1995, 177, 6718-6726.	2.2	39
30	Enhancement of sample loadings for the analysis of oligosaccharides isolated from <i>Pseudomonas aeruginosa</i> using transient isotachopheresis and capillary zone electrophoresis- μ electrospray-mass spectrometry. <i>Electrophoresis</i> , 1998, 19, 2665-2676.	2.4	38
31	Evolved distal tail carbohydrate binding modules of <i>Lactobacillus</i> phage ϕ 1: a novel type of anti-receptor widespread among lactic acid bacteria phages. <i>Molecular Microbiology</i> , 2017, 104, 608-620.	2.5	35
32	Complete Structure of the Enterococcal Polysaccharide Antigen (EPA) of Vancomycin-Resistant <i>Enterococcus faecalis</i> V583 Reveals that EPA Decorations Are Teichoic Acids Covalently Linked to a Rhamnopolysaccharide Backbone. <i>MBio</i> , 2020, 11, .	4.1	33
33	Structural studies of the lipopolysaccharide O-antigen and capsular polysaccharide of <i>Vibrio anguillarum</i> serotype O:2. <i>Carbohydrate Research</i> , 1996, 283, 111-127.	2.3	32
34	Structural characterization of the lipopolysaccharide O-antigen and capsular polysaccharide of <i>Vibrio ordalii</i> serotype O : 2. <i>FEBS Journal</i> , 1998, 253, 319-327.	0.2	29
35	Assessment of the fecundity, population growth and fatty acid composition of <i>Apocyclops royi</i> (Cyclopoida, Copepoda) fed on different microalgal diets. <i>Aquaculture Nutrition</i> , 2018, 24, 970-978.	2.7	25
36	The absence of N-acetylglucosamine in wall teichoic acids of <i>Listeria monocytogenes</i> modifies biofilm architecture and tolerance to rinsing and cleaning procedures. <i>PLoS ONE</i> , 2018, 13, e0190879.	2.5	25

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37	Lipopolysaccharides of anaerobic beer spoilage bacteria of the genus <i>Pectinatus</i> lipopolysaccharides of a Gram-positive genus. <i>FEMS Microbiology Reviews</i> , 2004, 28, 543-552.	8.6	24
38	A cell wall-associated polysaccharide is required for bacteriophage adsorption to the <i>Streptococcus thermophilus</i> cell surface. <i>Molecular Microbiology</i> , 2020, 114, 31-45.	2.5	22
39	Determination of the cell wall polysaccharide and teichoic acid structures from <i>Lactococcus lactis</i> IL1403. <i>Carbohydrate Research</i> , 2018, 462, 39-44.	2.3	21
40	Effects of cold selective breeding on the body length, fatty acid content, and productivity of the tropical copepod <i>Apocyclops royi</i> (Cyclopoida, Copepoda). <i>Journal of Plankton Research</i> , 2017, 39, 994-1003.	1.8	19
41	The CWPS Rubik's cube: Linking diversity of cell wall polysaccharide structures with the encoded biosynthetic machinery of selected <i>Lactococcus lactis</i> strains. <i>Molecular Microbiology</i> , 2020, 114, 582-596.	2.5	19
42	Potential Use of Poly-N-Acetyl- β -(1,6)-Glucosamine as an Antigen for Diagnosis of Staphylococcal Orthopedic-Prosthesis-Related Infections. <i>Vaccine Journal</i> , 2007, 14, 1609-1615.	3.1	18
43	Structural studies of the cell wall polysaccharide from <i>Lactococcus lactis</i> UC509.9. <i>Carbohydrate Research</i> , 2018, 461, 25-31.	2.3	16
44	Three distinct glycosylation pathways are involved in the decoration of <i>Lactococcus lactis</i> cell wall glycopolymers. <i>Journal of Biological Chemistry</i> , 2020, 295, 5519-5532.	3.4	13
45	The Baseplate of <i>Lactobacillus delbrueckii</i> Bacteriophage Ld17 Harbors a Glycerophosphodiesterase. <i>Journal of Biological Chemistry</i> , 2016, 291, 16816-16827.	3.4	11
46	Poly-N-acetylglucosamine and poly(glycerol phosphate) teichoic acid identification from staphylococcal biofilm extracts using excitation sculptured TOCSY NMR. <i>Molecular BioSystems</i> , 2008, 4, 170-174.	2.9	10
47	Structural investigation of cell wall polysaccharides of <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> 17. <i>Carbohydrate Research</i> , 2015, 413, 93-99.	2.3	10
48	Changes in fatty acids profile, monosaccharide profile and protein content during batch growth of <i>Isochrysis galbana</i> (T.iso). <i>Aquaculture Research</i> , 2017, 48, 4982-4990.	1.8	10
49	Egg hatching rate and fatty acid composition of <i>Acartia bilobata</i> (Calanoida, Copepoda) across cold storage durations. <i>Aquaculture Research</i> , 2019, 50, 483-489.	1.8	6
50	Structure of the exceptionally large nonrepetitive carbohydrate backbone of the lipopolysaccharide of <i>Pectinatus frisingensis</i> strain VTT E-82164. <i>FEBS Journal</i> , 2003, 270, 3036-3046.	0.2	5
51	Simple Protocol to Purify Cell Wall Polysaccharide from Gram-Positive Bacteria and Assess Its Structural Integrity. <i>Methods in Molecular Biology</i> , 2019, 1954, 37-45.	0.9	4
52	The structure of the carbohydrate backbone of the lipopolysaccharide of <i>Pectinatus frisingensis</i> strain VTT E-79104. <i>Carbohydrate Research</i> , 2004, 339, 1637-1637.	2.3	1
53	A comparative study of antibodies against proteins extracted from staphylococcal biofilm for the diagnosis of orthopedic prosthesis-related infections in an animal model and in humans. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013, 75, 124-129.	1.8	1