Irina Sadovskaya

List of Publications by Year
in descending order

53 papers	3,667 citations	147801 31 h-index	168389 53 g-index
53 all docs	53 docs citations	53 times ranked	4229 citing authors

#	Article	IF	Citations
1	The CWPS Rubikâ€™s cube: Linking diversity of cell wall polysaccharide structures with the encoded biosynthetic machinery of selected <i>Lactococcus lactis</i> strains. Molecular Microbiology, 2020, 114, 582-596.	2.5	19
2	Three distinct glycosylation pathways are involved in the decoration of Lactococcus lactis cell wall glycopolymers. Journal of Biological Chemistry, 2020, 295, 5519-5532.	3.4	13
3	A cell wallâ€associated polysaccharide is required for bacteriophage adsorption to the <i>Streptococcus thermophilus</i> cell surface. Molecular Microbiology, 2020, 114, 31-45.	2.5	22
4	Complete Structure of the Enterococcal Polysaccharide Antigen (EPA) of Vancomycin-Resistant Enterococcus faecalis V583 Reveals that EPA Decorations Are Teichoic Acids Covalently Linked to a Rhamnopolysaccharide Backbone. MBio, 2020, 11, .	4.1	33
5	Simple Protocol to Purify Cell Wall Polysaccharide from Gram-Positive Bacteria and Assess Its Structural Integrity. Methods in Molecular Biology, 2019, 1954, 37-45.	0.9	4
6	Egg hatching rate and fatty acid composition of <i>Acartia bilobata</i> (Calanoida, Copepoda) across cold storage durations. Aquaculture Research, 2019, 50, 483-489.	1.8	6
7	Determination of the cell wall polysaccharide and teichoic acid structures from Lactococcus lactis IL1403. Carbohydrate Research, 2018, 462, 39-44.	2.3	21
8	Structural studies of the cell wall polysaccharide from Lactococcus lactis UC509.9. Carbohydrate Research, 2018, 461, 25-31.	2.3	16
9	Assessment of the fecundity, population growth and fatty acid composition of <i>Apocyclops royi</i> (Cyclopoida, Copepoda) fed on different microalgal diets. Aquaculture Nutrition, 2018, 24, 970-978.	2.7	25
10	The absence of N-acetylglucosamine in wall teichoic acids of Listeria monocytogenes modifies biofilm architecture and tolerance to rinsing and cleaning procedures. PLoS ONE, 2018, 13, e0190879.	2.5	25
11	Evolved distal tail carbohydrate binding modules of <scp><i>L</i></scp><i>actobacillus</i> phage <scp>J</scp>â€1: a novel type of antiâ€receptor widespread among lactic acid bacteria phages. Molecular Microbiology, 2017, 104, 608-620.	2.5	35
12	Changes in fatty acids profile, monosaccharide profile and protein content during batch growth of<i>Isochrysis galbana</i>(T.iso). Aquaculture Research, 2017, 48, 4982-4990.	1.8	10
13	Another Brick in the Wall: a Rhamnan Polysaccharide Trapped inside Peptidoglycan of <i>Lactococcus lactis</i>. MBio, 2017, 8, .	4.1	42
14	Effects of cold selective breeding on the body length, fatty acid content, and productivity of the tropical copepod Apocyclops royi (Cyclopoida, Copepoda). Journal of Plankton Research, 2017, 39, 994-1003.	1.8	19
15	Structural studies of the rhamnose-rich cell wall polysaccharide of Lactobacillus casei BL23. Carbohydrate Research, 2016, 435, 156-161.	2.3	40
16	The Baseplate of Lactobacillus delbrueckii Bacteriophage Ld17 Harbors a Glycerophosphodiesterase. Journal of Biological Chemistry, 2016, 291, 16816-16827.	3.4	11
17	Structural investigation of cell wall polysaccharides of Lactobacillus delbrueckii subsp. bulgaricus 17. Carbohydrate Research, 2015, 413, 93-99.	2.3	10
18	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

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19	Differences in Lactococcal Cell Wall Polysaccharide Structure Are Major Determining Factors in Bacteriophage Sensitivity. MBio, 2014, 5, e00880-14.	4.1	98
20	Molecular Insights on the Recognition of a Lactococcus lactis Cell Wall Pellicle by the Phage 1358 Receptor Binding Protein. Journal of Virology, 2014, 88, 7005-7015.	3.4	53
21	Chemical structure and biological activity of a highly branched (1â†’3,1â†’6)-Î²-d-glucan from Isochrysis galbana. Carbohydrate Polymers, 2014, 111, 139-148.	10.2	70
22	Structural Characterization of the Extracellular Polysaccharide from Vibrio cholerae O1 El-Tor. PLoS ONE, 2014, 9, e86751.	2.5	66
23	Structural studies of the cell wall polysaccharides from three strains of Lactobacillus helveticus with different autolytic properties: DPC4571, BROI, and LH1. Carbohydrate Research, 2013, 379, 7-12.	2.3	44
24	Quantification of the extracellular matrix of the<i>Listeria monocytogenes</i>biofilms of different phylogenic lineages with optimization of culture conditions. Journal of Applied Microbiology, 2013, 114, 1120-1131.	3.1	71
25	A comparative study of antibodies against proteins extracted from staphylococcal biofilm for the diagnosis of orthopedic prosthesisâ€“related infections in an animal model and in humans. Diagnostic Microbiology and Infectious Disease, 2013, 75, 124-129.	1.8	1
26	Structure, Adsorption to Host, and Infection Mechanism of Virulent Lactococcal Phage p2. Journal of Virology, 2013, 87, 12302-12312.	3.4	85
27	Recombinant human DNase I decreases biofilm and increases antimicrobial susceptibility in staphylococci. Journal of Antibiotics, 2012, 65, 73-77.	2.0	161
28	Extracellular DNA-dependent biofilm formation by Staphylococcus epidermidis RP62A in response to subminimal inhibitory concentrations of antibiotics. Research in Microbiology, 2011, 162, 535-541.	2.1	55
29	Chemical Analysis of Cellular and Extracellular Carbohydrates of a Biofilm-Forming Strain Pseudomonas aeruginosa PA14. PLoS ONE, 2010, 5, e14220.	2.5	56
30	Cell Surface of Lactococcus lactis Is Covered by a Protective Polysaccharide Pellicle. Journal of Biological Chemistry, 2010, 285, 10464-10471.	3.4	148
31	High-level antibiotic resistance in Pseudomonas aeruginosa biofilm: the ndvB gene is involved in the production of highly glycerol-phosphorylated Â-(1->3)-glucans, which bind aminoglycosides. Glycobiology, 2010, 20, 895-904.	2.5	101
32	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
33	<i>Staphylococcus epidermidis</i>polysaccharide intercellular adhesin induces IL-8 expression in human astrocytes via a mechanism involving TLR2. Cellular Microbiology, 2009, 11, 421-432.	2.1	42
34	Effect of berberine on Staphylococcus epidermidis biofilm formation. International Journal of Antimicrobial Agents, 2009, 34, 60-66.	2.5	118
35	Poly-N-acetylglucosamine mediates biofilm formation and detergent resistance in Aggregatibacter actinomycetemcomitans. Microbial Pathogenesis, 2008, 44, 52-60.	2.9	99
36	Poly-N-acetylglucosamine and poly(glycerol phosphate) teichoic acid identification from staphylococcal biofilm extracts using excitation sculptured TOCSY NMR. Molecular BioSystems, 2008, 4, 170-174.	2.9	10

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37	Potential Use of Poly- <i>N</i> -Acetyl-Î²-(1,6)-Glucosamine as an Antigen for Diagnosis of Staphylococcal Orthopedic-Prosthesis-Related Infections. Vaccine Journal, 2007, 14, 1609-1615.	3.1	18
38	Poly-N-acetylglucosamine mediates biofilm formation and antibiotic resistance in Actinobacillus pleuropneumoniae. Microbial Pathogenesis, 2007, 43, 1-9.	2.9	143
39	Susceptibility of staphylococcal biofilms to enzymatic treatments depends on their chemical composition. Applied Microbiology and Biotechnology, 2007, 75, 125-132.	3.6	236
40	Biofilms of clinical strains ofStaphylococcusthat do not contain polysaccharide intercellular adhesin. FEMS Microbiology Letters, 2006, 255, 11-16.	1.8	118
41	Structural elucidation of the extracellular and cell-wall teichoic acids of Staphylococcus aureus MN8m, a biofilm forming strain. Carbohydrate Research, 2006, 341, 738-743.	2.3	57
42	Extracellular Carbohydrate-Containing Polymers of a Model Biofilm-Producing Strain, Staphylococcus epidermidis RP62A. Infection and Immunity, 2005, 73, 3007-3017.	2.2	168
43	Lipopolysaccharides of anaerobic beer spoilage bacteria of the genusPectinatusâ€" lipopolysaccharides of a Gram-positive genus. FEMS Microbiology Reviews, 2004, 28, 543-552.	8.6	24
44	Structural elucidation of the extracellular and cell-wall teichoic acids of Staphylococcus epidermidis RP62A, a reference biofilm-positive strain. Carbohydrate Research, 2004, 339, 1467-1473.	2.3	90
45	The structure of the carbohydrate backbone of the lipopolysaccharide of Pectinatus frisingensis strain VTT E-79104. Carbohydrate Research, 2004, 339, 1637-1637.	2.3	1
46	Structure of the exceptionally large nonrepetitive carbohydrate backbone of the lipopolysaccharide of Pectinatus frisingensis strain VTT E-82164. FEBS Journal, 2003, 270, 3036-3046.	0.2	5
47	Structural characterization of the outer core and the O-chain linkage region of lipopolysaccharide from Pseudomonas aeruginosa serotype O5. FEBS Journal, 2000, 267, 1640-1650.	0.2	79
48	Structural characterization of the lipopolysaccharide O-antigen and capsular polysaccharide of Vibrio ordalii serotype O : 2. FEBS Journal, 1998, 253, 319-327.	0.2	29
49	Structural elucidation of the lipopolysaccharide core regions of the wild-type strain PAO1 and O-chain-deficient mutant strains AK1401 and AK1012 from Pseudomonas aeruginosa serotype O5. FEBS Journal, 1998, 255, 673-684.	0.2	75
50	Enhancement of sample loadings for the analysis of oligosaccharides isolated fromPseudomonas aeruginosa using transient isotachophoresis and capillary zone electrophoresisâ€"electrosprayâ€"mass spectrometry. Electrophoresis, 1998, 19, 2665-2676.	2.4	38
51	Structural studies of the lipopolysaccharide O-antigen and capsular polysaccharide of Vibrio anguillarum serotype O:2. Carbohydrate Research, 1996, 283, 111-127.	2.3	32
52	Structural elucidation of the lipopolysaccharide core region of the O-chain-deficient mutant strain A28 from Pseudomonas aeruginosa serotype 06 (International Antigenic Typing Scheme). Journal of Bacteriology, 1995, 177, 6718-6726.	2.2	39
53	Characterization of lipopolysaccharide-deficient mutants of Pseudomonas aeruginosa derived from serotypes O3, O5, and O6. Infection and Immunity, 1994, 62, 809-817.	2.2	75