Gennady L Burygin

List of Publications by Year
in descending order

65 papers	847 citations	567281 15 h-index	526287 27 g-index
67 all docs	67 docs citations	67 times ranked	933 citing authors

#	Article	IF	Citations
1	On the Enhanced Antibacterial Activity of Antibiotics Mixed with Gold Nanoparticles. Nanoscale Research Letters, 2009, 4, 794-801.	5.7	188
2	Isolation and characterization of a glyphosate-degrading rhizosphere strain, Enterobacter cloacae K7. Microbiological Research, 2014, 169, 99-105.	5.3	100
3	Biofilm Formation by Paenibacillus polymyxa Strains Differing in the Production and Rheological Properties of Their Exopolysaccharides. Current Microbiology, 2011, 62, 1554-1559.	2.2	32
4	Ochrobactrum cytisi IPA7.2 promotes growth of potato microplants and is resistant to abiotic stress. World Journal of Microbiology and Biotechnology, 2019, 35, 55.	3.6	29
5	Improved potato microclonal reproduction with the plant growth-promoting rhizobacteria Azospirillum. Agronomy for Sustainable Development, 2015, 35, 1167-1174.	5.3	28
6	Effectiveness of inoculation of in vitro-grown potato microplants with rhizosphere bacteria of the genus Azospirillum. Plant Cell, Tissue and Organ Culture, 2020, 141, 351-359.	2.3	26
7	Identification of an O-linked repetitive glycan chain of the polar flagellum flagellin of Azospirillum brasilense Sp7. Carbohydrate Research, 2012, 361, 127-132.	2.3	23
8	Rhizobacteria Inoculation Effects on Phytohormone Status of Potato Microclones Cultivated In Vitro under Osmotic Stress. Biomolecules, 2020, 10, 1231.	4.0	22
9	Chemical and serological studies of liposaccharides of bacteria of the genus Azospirillum. Microbiology, 2008, 77, 305-312.	1.2	21
10	Pectobacterium atrosepticum exopolysaccharides: identification, molecular structure, formation under stress and in planta conditions. Glycobiology, 2017, 27, 1016-1026.	2.5	21
11	Assessing the efficacy of co-inoculation of wheat seedlings with the associative bacteria <i>Paenibacillus polymyxa</i> 1465 and <i>Azospirillum brasilense</i> Sp245. Canadian Journal of Microbiology, 2016, 62, 279-285.	1.7	19
12	Use of ELISA with Antiexopolysaccharide Antibodies to Evaluate Wheat-Root Colonization by the Rhizobacterium Paenibacillus polymyxa. Current Microbiology, 2010, 61, 376-380.	2.2	18
13	Effect of Azospirillum brasilense Sp245 lipopolysaccharide on the functional activity of wheat root meristematic cells. Plant and Soil, 2011, 346, 181-188.	3.7	18
14	Detection of a sheath on Azospirillum brasilense polar flagellum. Microbiology, 2007, 76, 728-734.	1.2	17
15	Preparation and in vivo evaluation of glyco-gold nanoparticles carrying synthetic mycobacterial hexaarabinofuranoside. Beilstein Journal of Nanotechnology, 2020, 11, 480-493.	2.8	16
16	Electrophysical characteristics of Azospirillum brasilense Sp245 during interaction with antibodies to various cell surface epitopes. Analytical Biochemistry, 2007, 370, 201-205.	2.4	15
17	Sensor based on the slot acoustic wave for the non-contact analysis of the bacterial cells â€" Antibody binding in the conducting suspensions. Sensors and Actuators B: Chemical, 2018, 268, 217-222.	7.8	15
18	A method for studying insoluble immune complexes. Biochimica Et Biophysica Acta - General Subjects, 2004, 1670, 199-207.	2.4	13

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19	Capsular polysaccharide of the bacterium Azospirillum lipoferum Sp59b: Structure and antigenic specificity. Biochemistry (Moscow), 2010, 75, 606-613.	1.5	13
20	Structural investigation and comparative cytotoxic activity of water-soluble polysaccharides from fruit bodies of the medicinal fungus quinine conk. Phytochemistry, 2020, 175, 112313.	2.9	12
21	Improved Production of High-Quality Potato Seeds in Aeroponics with Plant-Growth-Promoting Rhizobacteria. Potato Research, 2021, 64, 55-66.	2.7	12
22	Study of immunochemical heterogeneity of Azospirillum brasilense lipopolysaccharides. Microbiology, 2008, 77, 166-170.	1.2	11
23	Composition and immunochemical characteristics of exopolysaccharides from the rhizobacterium Paenibacillus polymyxa 1465. Microbiology, 2008, 77, 553-558.	1.2	10
24	Effect of bacterial lipopolysaccharides on morphogenetic activity in wheat somatic calluses. World Journal of Microbiology and Biotechnology, 2018, 34, 3.	3.6	10
25	Analysis of DNA, lipopolysaccharide structure, and some cultural and morphological properties in closely related strains of Azospirillum brasilense. Microbiology, 2005, 74, 188-193.	1.2	9
26	Functioning of plant-bacterial associations under osmotic stress in vitro. World Journal of Microbiology and Biotechnology, 2019, 35, 195.	3.6	9
27	Synthesis of novel spirooxindole-pyrrolidines and evaluation of their cytotoxic activity. Pharmacological Reports, 2019, 71, 357-360.	3.3	9
28	PREPARATION OF MINIANTIBODIES TOAzospirillum brasilenseSp245 SURFACE ANTIGENS AND THEIR USE FOR BACTERIAL DETECTION. Journal of Immunoassay and Immunochemistry, 2012, 33, 115-127.	1.1	8
29	Plasmid AZOBR_p1-borne <i>fabG</i> gene for putative 3-oxoacyl-[acyl-carrier protein] reductase is essential for proper assembly and work of the dual flagellar system in the alphaproteobacterium <i>Azospirillum brasilense</i> Sp245. Canadian Journal of Microbiology, 2018, 64, 107-118.	1.7	8
30	Analysis of the microbial cell-Ab binding in buffer solution by the piezoelectric resonator. Analytical Biochemistry, 2018, 554, 53-60.	2.4	8
31	Structure, gene cluster of the O antigen and biological activity of the lipopolysaccharide from the rhizospheric bacterium Ochrobactrum cytisi IPA7.2. International Journal of Biological Macromolecules, 2020, 154, 1375-1381.	7.5	8
32	Atypical Râ€“S Dissociation in Azospirillum brasilense. Microbiology, 2003, 72, 48-51.	1.2	7
33	Immunochemical Characterization of the Capsular Polysaccharide of Azospirillum irakense KBC1. Current Microbiology, 2013, 67, 234-239.	2.2	7
34	Flagellin of polar flagellum from Azospirillum brasilense Sp245: Isolation, structure, and biological activity. International Journal of Biological Macromolecules, 2020, 147, 1221-1227.	7.5	7
35	Plasmid gene AZOBR_p60126 impacts biosynthesis of lipopolysaccharide II and swarming motility in <i>Azospirillum brasilense</i> Sp245. Journal of Basic Microbiology, 2020, 60, 613-623.	3.3	7
36	Chemical composition and immunochemical characteristics of the lipopolysaccharide of nitrogen-fixing rhizobacterium Azospirillum brasilense CD. Microbiology, 2006, 75, 323-328.	1.2	6

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37	Characterization of Carbohydrate-Containing Components of Azospirillum brasilense Sp245 Biofilms. Microbiology, 2018, 87, 610-620.	1.2	6
38	A BACTERIAL ISOLATE FROM THE RHIZOSPHERE OF POTATO (Solanum tuberosum L.) IDENTIFIED AS Ochrobactrum lupini IPA7.2. Sel'skokhozyaistvennaya Biologiya, 2017, 52, 105-115.	0.3	6
39	Prospects for the Use of Gold Nanoparticles to Increase the Sensitivity of an Acoustic Sensor in the Detection of Microbial Cells. Ultrasound in Medicine and Biology, 2020, 46, 1727-1737.	1.5	6
40	Characterization of the lipopolysaccharides of serogroup II Azospirillum strains. Microbiology, 2014, 83, 326-334.	1.2	5
41	Unsymmetrical Trifluoromethyl Methoxyphenyl Î²-Diketones: Effect of the Position of Methoxy Group and Coordination at Cu(II) on Biological Activity. Molecules, 2021, 26, 6466.	3.8	5
42	Application of enzyme immunoassay for detection of the nitrogen-fixing bacteria of the genus Azospirillum in soil suspensions. Microbiology, 2009, 78, 598-602.	1.2	4
43	The use and development of the dynamic light-scattering method to investigate supramolecular structures in aqueous solutions of bacterial lipopolysaccharides. Biophysics (Russian Federation), 2016, 61, 547-557.	0.7	4
44	Sensor Based on PZT Ceramic Resonator with Lateral Electric Field for Immunodetectionof Bacteria in the Conducting Aquatic Environment â€. Sensors, 2020, 20, 3003.	3.8	4
45	Morphogenesis of wheat calluses treated with Azospirillum lipopolysaccharides. Plant Cell, Tissue and Organ Culture, 2021, 147, 147-155.	2.3	4
46	Use of Azospirillum brasilense Sp245 to Increase the Efficacy of Clonal Micropropagation of Cretaceous Catchfly (Silene cretacea Fisch. ex Spreng). Biotekhnologiya, 2017, , 72-79.	0.1	4
47	Lipopolysaccharide and flagellin of Azospirillum brasilense Sp7 influence callus morphogenesis and plant regeneration in wheat. World Journal of Microbiology and Biotechnology, 2022, 38, 62.	3.6	3
48	Immunochemical properties and localization of lectin from the basidiomycete Grifola frondosa (Fr.) S.F. Gray. Microbiology, 2009, 78, 202-207.	1.2	2
49	Immunochemical detection of Azospirilla in soil with genus-specific antibodies. Microbiology, 2015, 84, 263-267.	1.2	2
50	Syntheses of O-antigen polysaccharide fragments of nitrogen-fixing rhizobacteria of the genus Azospirillum. Russian Chemical Bulletin, 2016, 65, 1448-1463.	1.5	2
51	<title>Structure of insoluble immune complexes as studied by spectroturbidimetry and dynamic light scattering</title>. , 2004, 5475, 26.		1
52	Electrooptical properties of the microbial suspensions during a cellâ€™s interaction with the antibodies of a different specificity. Applied Biochemistry and Microbiology, 2010, 46, 61-64.	0.9	1
53	On the role of carbohydrate-protein highly selective interactions in the biological activity of glycoconjugates: Grifola frondosa (Fr.) S.F. Gray lectin binding to specific and non-specific antibodies. World Journal of Microbiology and Biotechnology, 2011, 27, 1579-1585.	3.6	1
54	Serological relationships of azospirilla revealed by their motility patterns in the presence of antibodies to lipopolysaccharides. Microbiology, 2014, 83, 102-109.	1.2	1

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55	Electro-optical Study of the Exposure of<i>Azospirillum brasilense</i>Carbohydrate Epitopes. Journal of Immunoassay and Immunochemistry, 2015, 36, 379-386.	1.1	1
56	Synthesis and antimicrobial activity of gold nanoparticle conjugates with cefotaxime. , 2016, , .		1
57	Plasmid gene for putative integral membrane protein affects formation of lipopolysaccharide and motility in Azospirillum brasilense Sp245. Folia Microbiologica, 2020, 65, 963-972.	2.3	1
58	Structure and genetics of the O-antigen of Enterobacter cloacae K7 containing di-N-acetylpseudaminic acid. Carbohydrate Research, 2021, 508, 108392.	2.3	1
59	Title is missing!. Applied Biochemistry and Microbiology, 2002, 38, 252-254.	0.9	0
60	Synthesis and Cytotoxic Activity of Arylsubstituted Tetrazolocyclanopyrimidines. Pharmaceutical Chemistry Journal, 2017, 51, 756-759.	0.8	0
61	Acoustic sensor for detection and identification of microbial cells directly in the liquid phase. , 2019, , .		0
62	PLANT RESPONSES TO FLAGELLINS OF PLANT GROWTH-PROMOTING RHIZOBACTERIA. , 2018, , .		0
63	Comparison of Cytotoxic Activity of Compounds from the Benzimidazolequinazoline and Pyridopyrimidine Series. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2019, 19, 396-400.	0.1	0
64	Study of the effect of associative rhizobacterial strains on the formation of spring durum wheat productivity. BIO Web of Conferences, 2020, 23, 03012.	0.2	0
65	Obtaining and the specificity characterization of antibodies against the plant signaling peptide CLE41/44 by gold nanoparticle conjugates. , 2020, , .		0