

# Inessa A Khmel

## List of Publications by Year in descending order

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52  
papers

1,267  
citations

430874

18  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial effects of silver nanoparticles on gram-negative bacteria: Influence on the growth and biofilms formation, mechanisms of action. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 300-306.	5.0	376
2	Quorum-sensing quenching by rhizobacterial volatiles. <i>Environmental Microbiology Reports</i> , 2011, 3, 698-704.	2.4	105
3	Inhibitory and Toxic Effects of Volatiles Emitted by Strains of <i>Pseudomonas</i> and <i>Serratia</i> on Growth and Survival of Selected Microorganisms, <i>Caenorhabditis elegans</i> , and <i>Drosophila melanogaster</i> . <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	98
4	Effect of plant phenolic compounds on biofilm formation by <i>Pseudomonas aeruginosa</i> . <i>Apmis</i> , 2013, 121, 1073-1081.	2.0	68
5	Volatile Compounds of Bacterial Origin: Structure, Biosynthesis, and Biological Activity. <i>Microbiology</i> , 2019, 88, 261-274.	1.2	45
6	Quorum sensing regulation of gene expression: A promising target for drugs against bacterial pathogenicity. <i>Molecular Biology</i> , 2006, 40, 169-182.	1.3	44
7	Biological Control of Crown Gall in Grapevine and Raspberry by Two <i>Pseudomonas</i> spp. with a Wide Spectrum of Antagonistic Activity. <i>Biocontrol Science and Technology</i> , 1998, 8, 45-57.	1.3	43
8	Microcin C51 Plasmid Genes: Possible Source of Horizontal Gene Transfer. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 2868-2874.	3.2	38
9	Quorum-sensing regulation of gene expression: Fundamental and applied aspects and the role in bacterial communication. <i>Microbiology</i> , 2006, 75, 390-397.	1.2	32
10	Effect of nitrofurans and NO generators on biofilm formation by <i>Pseudomonas aeruginosa</i> PAO1 and <i>Burkholderia cenocepacia</i> 370. <i>Research in Microbiology</i> , 2009, 160, 353-357.	2.1	32
11	Structure of microcin C51, a new antibiotic with a broad spectrum of activity. <i>FEBS Letters</i> , 1995, 357, 235-238.	2.8	30
12	Regulation of microcin C51 operon expression: the role of global regulators of transcription. <i>Research in Microbiology</i> , 2001, 152, 469-479.	2.1	29
13	Quorum sensing systems of regulation, synthesis of phenazine antibiotics, and antifungal activity in rhizospheric bacterium <i>pseudomonas chlororaphis</i> 449. <i>Russian Journal of Genetics</i> , 2008, 44, 1400-1408.	0.6	29
14	Cloning and mapping of the genetic determinants for microcin C51 production and immunity. <i>Molecular Genetics and Genomics</i> , 1993, 241-241, 700-706.	2.4	25
15	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO <sub>2</sub> : Evidence for Au/TiO <sub>2</sub> Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. <i>Nanomaterials</i> , 2019, 9, 217.	4.1	25
16	Influence of volatile organic compounds emitted by <i>Pseudomonas</i> and <i>Serratia</i> strains on <i>Agrobacterium tumefaciens</i> biofilms. <i>Apmis</i> , 2016, 124, 586-594.	2.0	24
17	Antimicrobial effect of metallic and semiconductor nanoparticles. <i>Nanotechnologies in Russia</i> , 2010, 5, 277-289.	0.7	23
18	Ketones 2-heptanone, 2-nonanone, and 2-undecanone inhibit DnaK-dependent refolding of heat-inactivated bacterial luciferases in <i>Escherichia coli</i> cells lacking small chaperon IbpB. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 5765-5771.	3.6	20

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19	Quorum sensing regulation in bacteria of the family enterobacteriaceae. Russian Journal of Genetics, 2014, 50, 323-340.	0.6	18
20	The Effect of Volatile Organic Compounds on Different Organisms: Agrobacteria, Plants and Insects. Microorganisms, 2022, 10, 69.	3.6	14
21	Regulation of Expression of Bacterial Genes in the Absence of Active Cell Growth. Russian Journal of Genetics, 2005, 41, 968-984.	0.6	12
22	The Mode of Action of Cyclic Monoterpenes ( $\alpha$ )-Limonene and (+)- $\beta$ -Pinene on Bacterial Cells. Biomolecules, 2021, 11, 806.	4.0	12
23	Plant-Microbial Interactions Involving Quorum Sensing Regulation. Microbiology, 2019, 88, 523-533.	1.2	10
24	Inhibition of cyanobacterial photosynthetic activity by natural ketones. Journal of Phycology, 2019, 55, 840-857.	2.3	10
25	New Evidence for Ag-Sputtered Materials Inactivating Bacteria by Surface Contact without the Release of Ag Ions: End of a Long Controversy?. ACS Applied Materials & Interfaces, 2020, 12, 4998-5007.	8.0	10
26	Modulation of Arabidopsis thaliana growth by volatile substances emitted by Pseudomonas and Serratia strains. World Journal of Microbiology and Biotechnology, 2021, 37, 82.	3.6	10
27	Expression of gene for N-acyl-homoserine lactonase AiiA affects properties of rhizospheric strain Pseudomonas chlororaphis 449. Russian Journal of Genetics, 2009, 45, 30-34.	0.6	7
28	Effect of salicylic, indole-3-acetic, gibberellic, and abscisic acids on biofilm formation by Agrobacterium tumefaciens C58 and Pseudomonas aeruginosa PAO1. Applied Biochemistry and Microbiology, 2013, 49, 706-710.	0.9	7
29	Title is missing!. Russian Journal of Genetics, 2002, 38, 467-469.	0.6	6
30	GacS-dependent regulation of enzymic and antifungal activities and synthesis of N-acylhomoserine lactones in rhizospheric strain Pseudomonas chlororaphis 449. Folia Microbiologica, 2009, 54, 401-408.	2.3	6
31	The ability of natural ketones to interact with bacterial quorum sensing systems. Molecular Genetics, Microbiology and Virology, 2014, 29, 167-171.	0.3	6
32	The effect of mutation in the clp X gene on the synthesis of N -acyl-homoserine lactones and other properties of Burkholderia cenocepacia 370. Microbiological Research, 2016, 186-187, 90-98.	5.3	6
33	Activity of Serratia plymuthica IC1270 genechiA promoter region in Escherichia coli mutants deficient in global regulators of transcription. Journal of Basic Microbiology, 2005, 45, 426-437.	3.3	5
34	Involvement of the global regulators GrrS, RpoS, and SplIR in formation of biofilms in Serratia plymuthica. Russian Journal of Genetics, 2010, 46, 541-545.	0.6	5
35	Synthesis of Silver Nanoparticles with the use of Herbaceous Plant Extracts and Effect of Nanoparticles on Bacteria. Applied Biochemistry and Microbiology, 2018, 54, 816-823.	0.9	4
36	SprI/SprR Quorum Sensing System of Serratia proteamaculans 94. BioMed Research International, 2019, 2019, 1-10.	1.9	4

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37	Title is missing!. Russian Journal of Genetics, 2001, 37, 876-883.	0.6	3
38	Involvement of Sigma S and Sigma 70 Subunits of RNA Polymerase and the CRP Protein in the Regulation of Microcin C51 Operon Expression. Russian Journal of Genetics, 2004, 40, 1199-1209.	0.6	3
39	Effect of inactivation of luxS gene on the properties of Serratia proteamaculans 94 strain. Folia Microbiologica, 2019, 64, 265-272.	2.3	3
40	Invasion of Serratia proteamaculans is regulated by the sprI gene encoding AHL synthase. Microbes and Infection, 2021, 23, 104852.	1.9	3
41	Synthesis of N-acyl homoserine lactones and phenazines, some enzymatic activities, and fungicidal activity in the cells of Pseudomonas chlororaphis 449 with inactivated rpoS gene. Molecular Genetics, Microbiology and Virology, 2009, 24, 7-11.	0.3	2
42	The effect of introduction of the Heterologous gene encoding the N-acyl-homoserine lactonase (aiiA) on the properties of Burkholderia cenocepacia 370. Russian Journal of Genetics, 2015, 51, 737-744.	0.6	2
43	The Role of SprIR Quorum Sensing System in the Regulation of Serratia proteamaculans 94 Invasion. Microorganisms, 2021, 9, 2082.	3.6	2
44	Activation of the expression of the microcin C51 operon upon glucose starvation of cells at the exponential growth phase. Russian Journal of Genetics, 2005, 41, 40-43.	0.6	1
45	Quorum-sensing regulation in soil pseudomonads. Microbiology, 2006, 75, 398-400.	1.2	1
46	Activation of bioluminescence of sensor Escherichia coli strains used to detect N-acyl-homoserine lactones in presence of nitrofurans and NO generators. Molecular Genetics, Microbiology and Virology, 2010, 25, 71-76.	0.3	1
47	Antibacterial activity of monolayer nanoparticulate Ag <sub>N</sub> -(titanium-oxo-alkoxy) coatings. Mechanics and Industry, 2016, 17, 504.	1.3	1
48	Peculiarities of the SprIR Quorum Sensing System of Serratia proteamaculans 94 and Its Involvement in Regulation of Cellular Processes. Russian Journal of Genetics, 2021, 57, 161-172.	0.6	1
49	Suggested interrelationships of RNA-polymerase sigma S subunit and nitrogen control system in Pseudomonas chlororaphis. Russian Journal of Genetics, 2007, 43, 846-851.	0.6	0
50	Influence of mutations in genes of global transcriptional regulators on production of autoinducer AI-2 in the Escherichia coli Quorum Sensing system. Russian Journal of Genetics, 2008, 44, 1031-1036.	0.6	0
51	Four New Genes of Cyanobacterium Synechococcus elongatus PCC 7942 Are Responsible for Sensitivity to 2-Nonanone. Microorganisms, 2020, 8, 1234.	3.6	0
52	Effects of Volatile Organic Compounds Synthesized by Bacteria on the Expression from Promoters of the zntA, copA, and arsR Genes Induced in Response to Copper, Zinc, and Arsenic. Molecular Genetics, Microbiology and Virology, 2020, 35, 152-158.	0.3	0