

# Olga Zhaxybayeva

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

3,960  
citations

201674

27  
h-index

144013

57  
g-index

79  
all docs

79  
docs citations

79  
times ranked

4099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene transfer agents: phage-like elements of genetic exchange. <i>Nature Reviews Microbiology</i> , 2012, 10, 472-482.	28.6	336
2	Bootstrap, Bayesian probability and maximum likelihood mapping: exploring new tools for comparative genome analyses. <i>BMC Genomics</i> , 2002, 3, 4.	2.8	281
3	Whole-Genome Analysis of Photosynthetic Prokaryotes. <i>Science</i> , 2002, 298, 1616-1620.	12.6	278
4	Phylogenetic analyses of cyanobacterial genomes: Quantification of horizontal gene transfer events. <i>Genome Research</i> , 2006, 16, 1099-1108.	5.5	278
5	On the chimeric nature, thermophilic origin, and phylogenetic placement of the Thermotogales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5865-5870.	7.1	221
6	On the origin of prokaryotic species. <i>Genome Research</i> , 2009, 19, 744-756.	5.5	207
7	Inteins: Structure, Function, and Evolution. <i>Annual Review of Microbiology</i> , 2002, 56, 263-287.	7.3	203
8	Were arachnids the first to use combinatorial peptide libraries?. <i>Peptides</i> , 2005, 26, 131-139.	2.4	189
9	Lateral gene transfer. <i>Current Biology</i> , 2011, 21, R242-R246.	3.9	151
10	Actinorhodopsins: proteorhodopsin-like gene sequences found predominantly in non-marine environments. <i>Environmental Microbiology</i> , 2008, 10, 1039-1056.	3.8	136
11	Searching for species in haloarchaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14092-14097.	7.1	128
12	Genomic plasticity in prokaryotes: the case of the square haloarchaeon. <i>ISME Journal</i> , 2007, 1, 235-245.	9.8	116
13	Evolutionary and Diagnostic Implications of Intragenomic Heterogeneity in the 16S rRNA Gene in <i>Aeromonas</i> Strains. <i>Journal of Bacteriology</i> , 2005, 187, 6561-6564.	2.2	89
14	Cladogenesis, coalescence and the evolution of the three domains of life. <i>Trends in Genetics</i> , 2004, 20, 182-187.	6.7	86
15	Genome mosaicism and organismal lineages. <i>Trends in Genetics</i> , 2004, 20, 254-260.	6.7	86
16	Intertwined Evolutionary Histories of Marine <i>Synechococcus</i> and <i>Prochlorococcus marinus</i> . <i>Genome Biology and Evolution</i> , 2009, 1, 325-339.	2.5	80
17	Ancient gene duplications and the root(s) of the tree of life. <i>Protoplasma</i> , 2005, 227, 53-64.	2.1	62
18	Integron-associated gene cassettes in Halifax Harbour: assessment of a mobile gene pool in marine sediments. <i>Environmental Microbiology</i> , 2008, 10, 1024-1038.	3.8	59

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19	Functional and Evolutionary Characterization of a Gene Transfer Agent's Multilocus "Genome". <i>Molecular Biology and Evolution</i> , 2016, 33, 2530-2543.	8.9	58
20	Evidence for Existence of "Mesotogas" Members of the Order Thermotogales Adapted to Low-Temperature Environments. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5061-5068.	3.1	54
21	Insights into origin and evolution of $\lambda$ -proteobacterial gene transfer agents. <i>Virus Evolution</i> , 2017, 3, vex036.	4.9	53
22	Horizontal Transfer of Archaeal Genes into the Deinococcaceae: Detection by Molecular and Computer-Based Approaches. <i>Journal of Molecular Evolution</i> , 2000, 51, 587-599.	1.8	52
23	Metagenomics and the Units of Biological Organization. <i>BioScience</i> , 2010, 60, 102-112.	4.9	51
24	Insights into thermoadaptation and the evolution of mesophily from the bacterial phylum <i>Thermotogae</i> . <i>Canadian Journal of Microbiology</i> , 2015, 61, 655-670.	1.7	47
25	Cell sorting analysis of geographically separated hypersaline environments. <i>Extremophiles</i> , 2013, 17, 265-275.	2.3	46
26	Evolution of photosynthetic prokaryotes: a maximum-likelihood mapping approach. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 223-230.	4.0	43
27	Photosystem II protein clearance and FtsH function in the diatom <i>Thalassiosira pseudonana</i> . <i>Photosynthesis Research</i> , 2013, 115, 43-54.	2.9	42
28	Evidence for extensive gene flow and <i>Thermotoga</i> subpopulations in subsurface and marine environments. <i>ISME Journal</i> , 2015, 9, 1532-1542.	9.8	36
29	Evolution of DNA packaging in gene transfer agents. <i>Virus Evolution</i> , 2021, 7, veab015.	4.9	36
30	Horizontal Gene Acquisitions, Mobile Element Proliferation, and Genome Decay in the Host-Restricted Plant Pathogen <i>Erwinia Tracheiphila</i> . <i>Genome Biology and Evolution</i> , 2016, 8, 649-664.	2.5	34
31	The Genome of <i>Thermosiphon africanus</i> TCF52B: Lateral Genetic Connections to the <i>Firmicutes</i> and <i>Archaea</i> . <i>Journal of Bacteriology</i> , 2009, 191, 1974-1978.	2.2	31
32	An Introduced Crop Plant Is Driving Diversification of the Virulent Bacterial Pathogen <i>Erwinia tracheiphila</i> . <i>MBio</i> , 2018, 9, .	4.1	28
33	Genome Sequence of the Mesophilic Thermotogales Bacterium <i>Mesotoga prima</i> MesG1.Ag.4.2 Reveals the Largest Thermotogales Genome To Date. <i>Genome Biology and Evolution</i> , 2012, 4, 812-820.	2.5	24
34	Machine-Learning Classification Suggests That Many Alphaproteobacterial Prophages May Instead Be Gene Transfer Agents. <i>Genome Biology and Evolution</i> , 2019, 11, 2941-2953.	2.5	24
35	Systematic overestimation of gene gain through false diagnosis of gene absence. <i>Genome Biology</i> , 2007, 8, 402.	9.6	23
36	Detection and Quantitative Assessment of Horizontal Gene Transfer. <i>Methods in Molecular Biology</i> , 2009, 532, 195-213.	0.9	23

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37	An improved probability mapping approach to assess genome mosaicism. <i>BMC Genomics</i> , 2003, 4, 37.	2.8	22
38	Spliceosomal Introns: New Insights into their Evolution. <i>Current Biology</i> , 2003, 13, R764-R766.	3.9	22
39	Visualization of the phylogenetic content of five genomes using dekapentagonal maps. <i>Genome Biology</i> , 2004, 5, R20.	9.6	21
40	â€˜MÃ©nage Ã  troisâ€™: a selfish genetic element uses a virus to propagate within <i>hermotogales</i> . <i>Environmental Microbiology</i> , 2015, 17, 3278-3288.	3.8	21
41	Gene Transfer and the Reconstruction of Lifeâ€™s Early History from Genomic Data. <i>Space Science Reviews</i> , 2008, 135, 115-131.	8.1	19
42	Global cellulose biomass, horizontal gene transfers and domain fusions drive microbial expansion evolution. <i>New Phytologist</i> , 2020, 226, 921-938.	7.3	19
43	Evolution: Reducible Complexity â€” The Case for Bacterial Flagella. <i>Current Biology</i> , 2007, 17, R510-R512.	3.9	15
44	Draft Genome Sequence of <i>Erwinia tracheiphila</i> , an Economically Important Bacterial Pathogen of Cucurbits. <i>Genome Announcements</i> , 2015, 3, .	0.8	14
45	Selection for Reducing Energy Cost of Protein Production Drives the GC Content and Amino Acid Composition Bias in Gene Transfer Agents. <i>MBio</i> , 2020, 11, .	4.1	12
46	Nutrient supplementation experiments with saltern microbial communities implicate utilization of DNA as a source of phosphorus. <i>ISME Journal</i> , 2021, 15, 2853-2864.	9.8	12
47	Genomic insights into temperature-dependent transcriptional responses of <i>Kosmotoga olearia</i> , a deep-biosphere bacterium that can grow from 20 to 79Å°C. <i>Extremophiles</i> , 2017, 21, 963-979.	2.3	11
48	A null model for microbial diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5414-E5423.	7.1	9
49	Horizontal Gene Transfer. , 2002, , 427-435.		8
50	What Is a Prokaryote?. , 2013, , 21-37.		8
51	A hyperconserved protein in <i>Prochlorococcus</i> and marine <i>Synechococcus</i> . <i>FEMS Microbiology Letters</i> , 2007, 274, 30-34.	1.8	7
52	PentaPlot: a software tool for the illustration of genome mosaicism. <i>BMC Bioinformatics</i> , 2005, 6, 139.	2.6	6
53	Quartet decomposition server: a platform for analyzing phylogenetic trees. <i>BMC Bioinformatics</i> , 2012, 13, 123.	2.6	6
54	Horizontal gene transfer, gene histories, and the root of the tree of life. , 0, , 178-192.		4

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55	Newly identified proviruses in Thermotogota suggest that viruses are the vehicles on the highways of interphylum gene sharing. <i>Environmental Microbiology</i> , 2021, 23, 7105-7120.	3.8	4
56	HORIZONTAL GENE TRANSFER: ITS DETECTION AND ROLE IN MICROBIAL EVOLUTION. <i>Series on Advances in Bioinformatics and Computational Biology</i> , 2008, , 137-151.	0.2	4
57	Quantitative and Functional Characterization of the Hyper-Conserved Protein of Prochlorococcus and Marine Synechococcus. <i>PLoS ONE</i> , 2014, 9, e109327.	2.5	4
58	Anciently duplicated genes reduce uncertainty in molecular clock estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12168-12169.	7.1	3
59	The structure of a highly-conserved picocyanobacterial protein reveals a Tudor domain with an RNA-binding function. <i>Journal of Biological Chemistry</i> , 2019, 294, 14333-14344.	3.4	3
60	Gene Transfer and the Reconstruction of Life's Early History from Genomic Data. <i>Space Sciences Series of ISSI</i> , 2008, , 115-131.	0.0	3
61	Unsupervised Learning in Spectral Genome Analysis. , 2007, , .		1
62	The Mystery of Eukaryotic Cell Origin. <i>BioScience</i> , 2012, 62, 997-998.	4.9	0