

# Osnat Gillor

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

3,197  
citations

159358

30  
h-index

161609

54  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4358  
citing authors

#	ARTICLE	IF	CITATIONS
1	The dual role of bacteriocins as anti- and probiotics. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 591-606.	1.7	326
2	Biogeography of soil archaea and bacteria along a steep precipitation gradient. <i>ISME Journal</i> , 2010, 4, 553-563.	4.4	243
3	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	11.5	195
4	Soil Microbial Abundance and Diversity Along a Low Precipitation Gradient. <i>Microbial Ecology</i> , 2010, 60, 453-461.	1.4	173
5	Competitive interactions in <i>Escherichia coli</i> populations: the role of bacteriocins. <i>ISME Journal</i> , 2011, 5, 71-81.	4.4	140
6	Colicins and Microcins: The Next Generation Antimicrobials. <i>Advances in Applied Microbiology</i> , 2004, 54, 129-146.	1.3	133
7	Genetically Engineered Bacteriocins and their Potential as the Next Generation of Antimicrobials. <i>Current Pharmaceutical Design</i> , 2005, 11, 1067-1075.	0.9	116
8	Genes regulated by the <i>Escherichia coli</i> SOS repressor LexA exhibit heterogenous expression. <i>BMC Microbiology</i> , 2010, 10, 283.	1.3	88
9	Spatial and Temporal Biogeography of Soil Microbial Communities in Arid and Semiarid Regions. <i>PLoS ONE</i> , 2013, 8, e69705.	1.1	88
10	Microbial community response to hydration-desiccation cycles in desert soil. <i>Scientific Reports</i> , 2017, 7, 45735.	1.6	80
11	Persistence of colicinogenic <i>Escherichia coli</i> in the mouse gastrointestinal tract. <i>BMC Microbiology</i> , 2009, 9, 165.	1.3	73
12	The role of SOS boxes in enteric bacteriocin regulation. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1783-1792.	0.7	72
13	Energetic Basis of Microbial Growth and Persistence in Desert Ecosystems. <i>MSystems</i> , 2020, 5, .	1.7	66
14	The Effect of Resource Islands on Abundance and Diversity of Bacteria in Arid Soils. <i>Microbial Ecology</i> , 2012, 63, 694-700.	1.4	57
15	Active and total prokaryotic communities in dryland soils. <i>FEMS Microbiology Ecology</i> , 2013, 86, 130-138.	1.3	56
16	PHOSPHORUS BIOAVAILABILITY MONITORING BY A BIOLUMINESCENT CYANOBACTERIAL SENSOR STRAIN1. <i>Journal of Phycology</i> , 2002, 38, 107-115.	1.0	54
17	Effect of phosphorus amendments on present day plankton communities in pelagic Lake Erie. <i>Aquatic Microbial Ecology</i> , 2003, 32, 275-285.	0.9	54
18	Biofouling of reverse-osmosis membranes during tertiary wastewater desalination: Microbial community composition. <i>Water Research</i> , 2014, 50, 341-349.	5.3	53

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19	Comparable levels of microbial contamination in soil and on tomato crops after drip irrigation with treated wastewater or potable water. <i>Agriculture, Ecosystems and Environment</i> , 2016, 215, 140-150.	2.5	52
20	Monitoring of phosphorus bioavailability in water by an immobilized luminescent cyanobacterial reporter strain. <i>Biosensors and Bioelectronics</i> , 2001, 16, 811-818.	5.3	51
21	Assessment of pathogenic bacteria in treated graywater and irrigated soils. <i>Science of the Total Environment</i> , 2013, 458-460, 298-302.	3.9	50
22	Chemosynthetic and photosynthetic bacteria contribute differentially to primary production across a steep desert aridity gradient. <i>ISME Journal</i> , 2021, 15, 3339-3356.	4.4	48
23	The role of bacteriocins as selfish genetic elements. <i>Biology Letters</i> , 2013, 9, 20121173.	1.0	45
24	Quantification and risks associated with bacterial aerosols near domestic greywater-treatment systems. <i>Science of the Total Environment</i> , 2016, 562, 344-352.	3.9	44
25	Potential microbial hazards from graywater reuse and associated matrices: A review. <i>Water Research</i> , 2016, 106, 183-195.	5.3	41
26	Impact of Higher Alginate Expression on Deposition of <i>Pseudomonas aeruginosa</i> in Radial Stagnation Point Flow and Reverse Osmosis Systems. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7376-7383.	4.6	40
27	Biofouling of reverse-osmosis membranes under different shear rates during tertiary wastewater desalination: Microbial community composition. <i>Water Research</i> , 2014, 67, 86-95.	5.3	39
28	Biofouling of reverse osmosis membranes: effects of cleaning on biofilm microbial communities, membrane performance, and adherence of extracellular polymeric substances. <i>Biofouling</i> , 2017, 33, 397-409.	0.8	38
29	The Weak Shall Inherit: Bacteriocin-Mediated Interactions in Bacterial Populations. <i>PLoS ONE</i> , 2013, 8, e63837.	1.1	34
30	Soil Bacterial Communities Exhibit Strong Biogeographic Patterns at Fine Taxonomic Resolution. <i>MSystems</i> , 2020, 5, .	1.7	33
31	A <i>Synechococcus P glnA</i> :: luxAB Fusion for Estimation of Nitrogen Bioavailability to Freshwater Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1465-1474.	1.4	32
32	Reduced Bacterial Deposition and Attachment by Quorum-Sensing Inhibitor 4-Nitro-pyridine- <i>N</i> -oxide: The Role of Physicochemical Effects. <i>Langmuir</i> , 2010, 26, 12089-12094.	1.6	31
33	The question of pathogen quantification in disinfected graywater. <i>Science of the Total Environment</i> , 2015, 506-507, 496-504.	3.9	31
34	The role of stress in colicin regulation. <i>Archives of Microbiology</i> , 2014, 196, 753-764.	1.0	30
35	Recent Advances in Bacteriocin Application as Antimicrobials. <i>Recent Patents on Anti-infective Drug Discovery</i> , 2007, 2, 115-122.	0.5	30
36	Distribution of Mixotrophy and Desiccation Survival Mechanisms across Microbial Genomes in an Arid Biological Soil Crust Community. <i>MSystems</i> , 2021, 6, .	1.7	29

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37	Occurrence and distribution of antibiotics and corresponding antibiotic resistance genes in different soil types irrigated with treated wastewater. <i>Science of the Total Environment</i> , 2021, 782, 146835.	3.9	29
38	Evaluating amplified rDNA restriction analysis assay for identification of bacterial communities. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 659-664.	0.7	28
39	Bet-hedging in bacteriocin producing <i>Escherichia coli</i> populations: the single cell perspective. <i>Scientific Reports</i> , 2017, 7, 42068.	1.6	26
40	The Impact of Hydration and Temperature on Bacterial Diversity in Arid Soil Mesocosms. <i>Frontiers in Microbiology</i> , 2017, 8, 1078.	1.5	25
41	Soil texture and properties rather than irrigation water type shape the diversity and composition of soil microbial communities. <i>Applied Soil Ecology</i> , 2021, 161, 103834.	2.1	25
42	Phosphorus and nitrogen in a monomictic freshwater lake: employing cyanobacterial bioreporters to gain new insights into nutrient bioavailability. <i>Freshwater Biology</i> , 2010, 55, 1182-1190.	1.2	23
43	The origin and role of biological rock crusts in rocky desert weathering. <i>Biogeosciences</i> , 2019, 16, 1133-1145.	1.3	23
44	Seasonal and spatial variability in total and active bacterial communities from desert soil. <i>Pedobiologia</i> , 2019, 74, 7-14.	0.5	22
45	Importance of soil texture to the fate of pathogens introduced by irrigation with treated wastewater. <i>Science of the Total Environment</i> , 2019, 653, 886-896.	3.9	21
46	The combined effects of treated wastewater irrigation and plastic mulch cover on soil and crop microbial communities. <i>Biology and Fertility of Soils</i> , 2020, 56, 729-742.	2.3	19
47	Auto-regulation of DNA degrading bacteriocins: molecular and ecological aspects. <i>Antonie Van Leeuwenhoek</i> , 2014, 105, 823-834.	0.7	18
48	Potential Health and Environmental Risks Associated with Onsite Greywater Reuse: A Review. <i>Built Environment</i> , 2016, 42, 212-229.	0.4	16
49	Rapid MPN-Qpcr Screening for Pathogens in Air, Soil, Water, and Agricultural Produce. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	12
50	Genome-wide transcription profiling of aerobic and anaerobic <i>Escherichia coli</i> biofilm and planktonic cultures. <i>FEMS Microbiology Letters</i> , 2017, 364, fnx006.	0.7	12
51	Soil properties and habitats determine the response of bacterial communities to agricultural wastewater irrigation. <i>Pedosphere</i> , 2020, 30, 146-158.	2.1	12
52	Bacteriocin expression in sessile and planktonic populations of <i>Escherichia coli</i> . <i>Journal of Antibiotics</i> , 2015, 68, 52-55.	1.0	11
53	The fate of pathogens in treated wastewater-soil-crops continuum and the effect of physical barriers. <i>Science of the Total Environment</i> , 2019, 681, 339-349.	3.9	11
54	Simultaneous detection of <i>Giardia lamblia</i> and <i>Cryptosporidium parvum</i> (oo)cysts in soil using immunomagnetic separation and direct fluorescent antibody staining. <i>Journal of Microbiological Methods</i> , 2013, 94, 375-377.	0.7	10

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55	The effects of microalgae-based fertilization of wheat on yield, soil microbiome and nitrogen oxides emissions. <i>Science of the Total Environment</i> , 2022, 806, 151320.	3.9	10
56	Antibiotic resistance in soil and tomato crop irrigated with freshwater and two types of treated wastewater. <i>Environmental Research</i> , 2022, 211, 113021.	3.7	10
57	Understanding changes in biocrust communities following phosphate mining in the Negev Desert. <i>Environmental Research</i> , 2022, 207, 112200.	3.7	9
58	The tombstones at the Monumental Cemetery of Milano select for a specialized microbial community. <i>International Biodeterioration and Biodegradation</i> , 2021, 164, 105298.	1.9	7
59	The dissemination of antibiotics and their corresponding resistance genes in treated effluent-soil-crops continuum, and the effect of barriers. <i>Science of the Total Environment</i> , 2022, 807, 151525.	3.9	7
60	Microbial diversity and community composition in recirculating vertical flow constructed wetlands. <i>Water Science and Technology</i> , 2011, 64, 2306-2315.	1.2	6
61	Effect of Treated Domestic Wastewater on Soil Physicochemical and Microbiological Properties. <i>Journal of Environmental Quality</i> , 2013, 42, 1226-1235.	1.0	6
62	The Effects of Colicin Production Rates on Allelopathic Interactions in <i>Escherichia coli</i> Populations. <i>Microorganisms</i> , 2019, 7, 564.	1.6	6
63	Bacteriocins' Role in Bacterial Communication. , 2007, , 135-145.		6
64	Perennials but not slope aspect affect the diversity of soil bacterial communities in the northern Negev Desert, Israel. <i>Soil Research</i> , 2018, 56, 123.	0.6	5
65	Divergence of Biocrust Active Bacterial Communities in the Negev Desert During a Hydration-Desiccation Cycle. <i>Microbial Ecology</i> , 2023, 86, 474-484.	1.4	5
66	Endophytic Bacteria Colonizing the Petiole of the Desert Plant <i>Zygophyllum dumosum</i> Boiss: Possible Role in Mitigating Stress. <i>Plants</i> , 2022, 11, 484.	1.6	3
67	The role of ecosystem engineers in shaping the diversity and function of arid soil bacterial communities. <i>Soil</i> , 2021, 7, 611-637.	2.2	2
68	The effect of reverse transcription enzymes and conditions on high throughput amplicon sequencing of the 16S rRNA. <i>PeerJ</i> , 2019, 7, e7608.	0.9	2
69	Microbial and geo-archaeological records reveal the growth rate, origin and composition of desert rock surface communities. <i>Biogeosciences</i> , 2021, 18, 3331-3342.	1.3	1