

# Silvia Lampis

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,419  
citations

201658

27  
h-index

223791

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic selenium and tellurium nanoparticles synthesized by environmental microbial isolates efficaciously inhibit bacterial planktonic cultures and biofilms. <i>Frontiers in Microbiology</i> , 2015, 6, 584.	3.5	189
2	Biogenic selenium nanoparticles: characterization, antimicrobial activity and effects on human dendritic cells and fibroblasts. <i>Microbial Biotechnology</i> , 2016, 9, 758-771.	4.2	187
3	Selenite biotransformation and detoxification by <i>Stenotrophomonas maltophilia</i> SeITE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles. <i>Journal of Hazardous Materials</i> , 2017, 324, 3-14.	12.4	135
4	Delayed formation of zero-valent selenium nanoparticles by <i>Bacillus mycoides</i> SeITE01 as a consequence of selenite reduction under aerobic conditions. <i>Microbial Cell Factories</i> , 2014, 13, 35.	4.0	133
5	Effect of pH on the production of bacterial polyhydroxyalkanoates by mixed cultures enriched under periodic feeding. <i>Process Biochemistry</i> , 2010, 45, 714-723.	3.7	109
6	Promotion of arsenic phytoextraction efficiency in the fern <i>Pteris vittata</i> by the inoculation of As-resistant bacteria: a soil bioremediation perspective. <i>Frontiers in Plant Science</i> , 2015, 6, 80.	3.6	107
7	Proteomic analysis of <i>Arabidopsis halleri</i> shoots in response to the heavy metals cadmium and zinc and rhizosphere microorganisms. <i>Proteomics</i> , 2009, 9, 4837-4850.	2.2	105
8	Endophytic <i>Burkholderia fungorum</i> DBT1 can improve phytoremediation efficiency of polycyclic aromatic hydrocarbons. <i>Chemosphere</i> , 2013, 92, 688-694.	8.2	97
9	Insights into selenite reduction and biogenesis of elemental selenium nanoparticles by two environmental isolates of <i>Burkholderia fungorum</i> . <i>New Biotechnology</i> , 2017, 34, 1-11.	4.4	95
10	Selenite precipitation by a rhizospheric strain of <i>Stenotrophomonas</i> sp. isolated from the root system of <i>Astragalus bisulcatus</i> : a biotechnological perspective. <i>Environment International</i> , 2005, 31, 233-241.	10.0	93
11	Combined application of Triton X-100 and <i>Sinorhizobium</i> sp. Pb002 inoculum for the improvement of lead phytoextraction by <i>Brassica juncea</i> in EDTA amended soil. <i>Chemosphere</i> , 2006, 63, 293-299.	8.2	89
12	Diversity of bacterial endophytes in 3 and 15 year-old grapevines of <i>Vitis vinifera</i> cv. Corvina and their potential for plant growth promotion and phytopathogen control. <i>Microbiological Research</i> , 2016, 183, 42-52.	5.3	77
13	<i>Ochrobactrum</i> sp. MPV1 from a dump of roasted pyrites can be exploited as bacterial catalyst for the biogenesis of selenium and tellurium nanoparticles. <i>Microbial Cell Factories</i> , 2017, 16, 215.	4.0	76
14	Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. <i>Water Research</i> , 2010, 44, 4537-4549.	11.3	75
15	<i>Pseudomonas protegens</i> MP12: A plant growth-promoting endophytic bacterium with broad-spectrum antifungal activity against grapevine phytopathogens. <i>Microbiological Research</i> , 2019, 219, 123-131.	5.3	71
16	Antimicrobial activity of biogenically produced spherical Se nanomaterials embedded in organic material against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> strains on hydroxyapatite-coated surfaces. <i>Microbial Biotechnology</i> , 2017, 10, 804-818.	4.2	67
17	Bioaugmentation and biostimulation as strategies for the bioremediation of a burned woodland soil contaminated by toxic hydrocarbons: A comparative study. <i>Journal of Environmental Management</i> , 2015, 153, 121-131.	7.8	66
18	<i>Stenotrophomonas maltophilia</i> SeITE02, a New Bacterial Strain Suitable for Bioremediation of Selenite-Contaminated Environmental Matrices. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6854-6863.	3.1	53

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19	Burkholderia fungorum DBT1: a promising bacterial strain for bioremediation of PAHs-contaminated soils. FEMS Microbiology Letters, 2011, 319, 11-18.	1.8	52
20	Effect of the anode feeding composition on the performance of a continuous-flow methane-producing microbial electrolysis cell. Environmental Science and Pollution Research, 2015, 22, 7349-7360.	5.3	50
21	On the Ability of Perfluorohexane Sulfonate (PFHxS) Bioaccumulation by Two Pseudomonas sp. Strains Isolated from PFAS-Contaminated Environmental Matrices. Microorganisms, 2020, 8, 92.	3.6	49
22	Developments in the study and applications of bacterial transformations of selenium species. Critical Reviews in Biotechnology, 2020, 40, 1250-1264.	9.0	44
23	Influence of different household Food Wastes Fractions on Volatile Fatty Acids production by anaerobic fermentation. Bioresource Technology, 2021, 335, 125289.	9.6	40
24	Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by Stenotrophomonas maltophilia SeITE02 and Ochrobactrum sp. MPV1. Frontiers in Microbiology, 2018, 9, 3178.	3.5	37
25	Rhizosphere-induced Selenium Precipitation for Possible Applications in Phytoremediation of Se Polluted Effluents. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2005, 60, 349-356.	1.4	30
26	Brassica juncea can improve selenite and selenate abatement in selenium contaminated soils through the aid of its rhizospheric bacterial population. Plant and Soil, 2006, 285, 233-244.	3.7	30
27	Biogenic selenium nanoparticles synthesized by Stenotrophomonas maltophilia SeITE02 loose antibacterial and antibiofilm efficacy as a result of the progressive alteration of their organic coating layer. Microbial Biotechnology, 2018, 11, 1037-1047.	4.2	30
28	Biomolecular composition of capping layer and stability of biogenic selenium nanoparticles synthesized by five bacterial species. Microbial Biotechnology, 2021, 14, 198-212.	4.2	26
29	Selenite resistant rhizobacteria stimulate SeO <sub>3</sub> <sup>2-</sup> phytoextraction by Brassica juncea in bioaugmented water-filtering artificial beds. Environmental Science and Pollution Research, 2009, 16, 663-670.	5.3	25
30	Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. Molecules, 2019, 24, 2532.	3.8	23
31	Trichoderma longibrachiatum Evx1 is a fungal biocatalyst suitable for the remediation of soils contaminated with diesel fuel and polycyclic aromatic hydrocarbons. Environmental Science and Pollution Research, 2016, 23, 9134-9143.	5.3	19
32	Bioremediation of diesel contamination at an underground storage tank site: a spatial analysis of the microbial community. World Journal of Microbiology and Biotechnology, 2016, 32, 6.	3.6	19
33	Selenium and tellurium nanomaterials. ChemistrySelect, 2018, 3, .	1.5	18
34	Role and characteristics of problematic biofilms within the removal and mobility of trace metals in a pilot-scale membrane bioreactor. Process Biochemistry, 2013, 48, 1757-1766.	3.7	17
35	Effects of the Sludge Retention Time and Carbon Source on Polyhydroxyalkanoate-Storing Biomass Selection under Aerobic-Feast and Anoxic-Famine Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 9455-9464.	6.7	14
36	Two-Stage Start-Up to Achieve the Stable via-Nitrite Pathway in a Demonstration SBR for Anaerobic Codigestate Treatment. Industrial & Engineering Chemistry Research, 2012, 51, 15423-15430.	3.7	11

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37	In Vivo Endophytic, Rhizospheric and Epiphytic Colonization of <i>Vitis vinifera</i> by the Plant-Growth Promoting and Antifungal Strain <i>Pseudomonas protegens</i> MP12. <i>Microorganisms</i> , 2021, 9, 234.	3.6	11
38	Microbial-Based Bioremediation of Selenium and Tellurium Compounds. , 0, , .		9
39	Polyhydroxyalkanoate-Rich Microbial Cells from Bio-Based Volatile Fatty Acids as Potential Ingredient for Aquaculture Feed. <i>Energies</i> , 2021, 14, 38.	3.1	7
40	Identification of aldolase and ferredoxin reductase within the <i>dbt</i> operon of <i>Burkholderia fungorum</i> DBT1. <i>Journal of Basic Microbiology</i> , 2014, 54, 464-469.	3.3	6
41	A comparison of the response of two <i>Burkholderia fungorum</i> strains grown as planktonic cells versus biofilm to dibenzothiophene and select polycyclic aromatic hydrocarbons. <i>Canadian Journal of Microbiology</i> , 2016, 62, 851-860.	1.7	6
42	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by <i>Bacillus mycooides</i> SelTE01. <i>Frontiers in Microbiology</i> , 2021, 12, 711000.	3.5	6
43	Draft Genome Sequence of <i>Stenotrophomonas maltophilia</i> SelTE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. <i>Genome Announcements</i> , 2014, 2, .	0.8	5
44	Biogenic SeNPs from <i>Bacillus mycooides</i> SelTE01 and <i>Stenotrophomonas maltophilia</i> SelTE02: Characterization with reference to their associated organic coating. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
45	Diversity, Distribution and Functional Role of Bacterial Endophytes in <i>Vitis vinifera</i> . <i>Sustainable Development and Biodiversity</i> , 2017, , 233-266.	1.7	3
46	Inside and outside rhizosphere parameters of barley and dose-dependent stress alleviation at some chronic metal exposures. <i>Acta Phytopathologica Et Entomologica Hungarica</i> , 2012, 47, 373-383.	0.2	2
47	Apple seeds in an excavated Roman amphora remained intact for 2000+ years despite exposure to a broadly-degrading microbial community. <i>Journal of Archaeological Science: Reports</i> , 2019, 25, 472-485.	0.5	2
48	Proteomic Study of the Outer Layer of Biogenic Selenium Nanoparticles. , 0, , .		1
49	Emergence of random selections in evolution of biological populations. <i>Theoretical Computer Science</i> , 2021, 862, 130-143.	0.9	0
50	Conjugate word blending: formal model and experimental implementation by XPCR. <i>Natural Computing</i> , 2021, 20, 647-658.	3.0	0