# Silvia Lampis

## List of Publications by Citations



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| 49 papers | 1,691 citations | 23 h-index | 41 g-index |
| 50 ext. papers | 2,057 ext. citations | 5.4 avg, IF | 4.76 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 49 | Biogenic selenium and tellurium nanoparticles synthesized by environmental microbial isolates efficaciously inhibit bacterial planktonic cultures and biofilms. *Frontiers in Microbiology*, **2015**, 6, 584 | 5.7 | 132 |
| 48 | Biogenic selenium nanoparticles: characterization, antimicrobial activity and effects on human dendritic cells and fibroblasts. *Microbial Biotechnology*, **2016**, 9, 758-771 | 6.3 | 123 |
| 47 | Effect of pH on the production of bacterial polyhydroxyalkanoates by mixed cultures enriched under periodic feeding. *Process Biochemistry*, **2010**, 45, 714-723 | 4.8 | 94 |
| 46 | Proteomic analysis of Arabidopsis halleri shoots in response to the heavy metals cadmium and zinc and rhizosphere microorganisms. *Proteomics*, **2009**, 9, 4837-50 | 4.8 | 92 |
| 45 | Delayed formation of zero-valent selenium nanoparticles by Bacillus mycoides SeITE01 as a consequence of selenite reduction under aerobic conditions. *Microbial Cell Factories*, **2014**, 13, 35 | 6.4 | 89 |
| 44 | Selenite biotransformation and detoxification by Stenotrophomonas maltophilia SeITE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles. *Journal of Hazardous Materials* , **2017**, 324, 3-14 | 12.8 | 88 |
| 43 | Selenite precipitation by a rhizospheric strain of Stenotrophomonas sp. isolated from the root system of Astragalus bisulcatus: a biotechnological perspective. *Environment International*, **2005**, 31, 233-41 | 12.9 | 81 |
| 42 | Endophytic Burkholderia fungorum DBT1 can improve phytoremediation efficiency of polycyclic aromatic hydrocarbons. *Chemosphere*, **2013**, 92, 688-94 | 8.4 | 80 |
| 41 | Combined application of Triton X-100 and Sinorhizobium sp. Pb002 inoculum for the improvement of lead phytoextraction by Brassica juncea in EDTA amended soil. *Chemosphere*, **2006**, 63, 293-9 | 8.4 | 79 |
| 40 | Promotion of arsenic phytoextraction efficiency in the fern Pteris vittata by the inoculation of As-resistant bacteria: a soil bioremediation perspective. *Frontiers in Plant Science*, **2015**, 6, 80 | 6.2 | 76 |
| 39 | Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. *Water Research*, **2010**, 44, 4537-49 | 12.5 | 68 |
| 38 | Insights into selenite reduction and biogenesis of elemental selenium nanoparticles by two environmental isolates of Burkholderia fungorum. *New Biotechnology*, **2017**, 34, 1-11 | 6.4 | 58 |
| 37 | Antimicrobial activity of biogenically produced spherical Se-nanomaterials embedded in organic material against Pseudomonas aeruginosa and Staphylococcus aureus strains on hydroxyapatite-coated surfaces. *Microbial Biotechnology*, **2017**, 10, 804-818 | 6.3 | 55 |
| 36 | Ochrobactrum sp. MPV1 from a dump of roasted pyrites can be exploited as bacterial catalyst for the biogenesis of selenium and tellurium nanoparticles. *Microbial Cell Factories*, **2017**, 16, 215 | 6.4 | 51 |
| 35 | Bioaugmentation and biostimulation as strategies for the bioremediation of a burned woodland soil contaminated by toxic hydrocarbons: a comparative study. *Journal of Environmental Management*, **2015**, 153, 121-31 | 7.9 | 51 |
| 34 | Diversity of bacterial endophytes in 3 and 15 year-old grapevines of Vitis vinifera cv. Corvina and their potential for plant growth promotion and phytopathogen control. *Microbiological Research*, **2016**, 183, 42-52 | 5.3 | 50 |
| 33 | 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, 7349-60 | 5.1 | 46 |

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| 32 | Stenotrophomonas maltophilia SeITE02, a new bacterial strain suitable for bioremediation of selenite-contaminated environmental matrices. *Applied and Environmental Microbiology*, **2007**, 73, 6854-63 | 4.8 | 41 |
| 31 | Burkholderia fungorum DBT1: a promising bacterial strain for bioremediation of PAHs-contaminated soils. *FEMS Microbiology Letters*, **2011**, 319, 11-8 | 2.9 | 39 |
| 30 | Pseudomonas protegens MP12: A plant growth-promoting endophytic bacterium with broad-spectrum antifungal activity against grapevine phytopathogens. *Microbiological Research*, **2019**, 219, 123-131 | 5.3 | 37 |
| 29 | 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 | 4.2 | 26 |
| 28 | Rhizosphere-induced selenium precipitation for possible applications in phytoremediation of se polluted effluents. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2005**, 60, 349-56 | 1.7 | 26 |
| 27 | Selenite resistant rhizobacteria stimulate SeO(3) (2-) phytoextraction by Brassica juncea in bioaugmented water-filtering artificial beds. *Environmental Science and Pollution Research*, **2009**, 16, 663-70 | 5.1 | 23 |
| 26 | 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 | 6.3 | 20 |
| 25 | On the Ability of Perfluorohexane Sulfonate (PFHxS) Bioaccumulation by Two sp. Strains Isolated from PFAS-Contaminated Environmental Matrices. *Microorganisms*, **2020**, 8, | 4.9 | 19 |
| 24 | Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by SeITE02 and sp. MPV1. *Frontiers in Microbiology*, **2018**, 9, 3178 | 5.7 | 19 |
| 23 | Developments in the study and applications of bacterial transformations of selenium species. *Critical Reviews in Biotechnology*, **2020**, 40, 1250-1264 | 9.4 | 18 |
| 22 | 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 | 4.4 | 13 |
| 21 | 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 | 4.8 | 12 |
| 20 | 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, 9134-43 | 5.1 | 11 |
| 19 | Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. *Molecules*, **2019**, 24, | 4.8 | 11 |
| 18 | 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 | 3.9 | 10 |
| 17 | Influence of different household Food Wastes Fractions on Volatile Fatty Acids production by anaerobic fermentation. *Bioresource Technology*, **2021**, 335, 125289 | 11 | 9 |
| 16 | Selenium and tellurium nanomaterials. *ChemistrySelect*, **2018**, 3, | 1.8 | 8 |
| 15 | Biomolecular composition of capping layer and stability of biogenic selenium nanoparticles synthesized by five bacterial species. *Microbial Biotechnology*, **2021**, 14, 198-212 | 6.3 | 8 |

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| 14 | Microbial-Based Bioremediation of Selenium and Tellurium Compounds **2018**, | | 6 |
| 13 | Draft Genome Sequence of Stenotrophomonas maltophilia SeITE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. *Genome Announcements*, **2014**, 2, | | 4 |
| 12 | In Vivo Endophytic, Rhizospheric and Epiphytic Colonization of by the Plant-Growth Promoting and Antifungal Strain MP12. *Microorganisms*, **2021**, 9, | 4.9 | 4 |
| 11 | A comparison of the response of two Burkholderia fungorum strains grown as planktonic cells versus biofilm to dibenzothiophene and select polycyclic aromatic hydrocarbons. *Canadian Journal of Microbiology*, **2016**, 62, 851-860 | 3.2 | 3 |
| 10 | Identification of aldolase and ferredoxin reductase within the dbt operon of Burkholderia fungorum DBT1. *Journal of Basic Microbiology*, **2014**, 54, 464-9 | 2.7 | 3 |
| 9 | Polyhydroxyalkanoated-Rich Microbial Cells from Bio-Based Volatile Fatty Acids as Potential Ingredient for Aquaculture Feed. *Energies*, **2021**, 14, 38 | 3.1 | 2 |
| 8 | 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 | 8.3 | 2 |
| 7 | Biogenic SeNPs from Bacillus mycoides SelTE01 and Stenotrophomonas maltophilia SelTE02: Characterization with reference to their associated organic coating **2017**, | | 1 |
| 6 | Apple seeds in an excavated Roman amphora remained intact for 2000 years despite exposure to a broadly-degrading microbial community. *Journal of Archaeological Science: Reports*, **2019**, 25, 472-485 | 0.7 | 1 |
| 5 | Diversity, Distribution and Functional Role of Bacterial Endophytes in Vitis vinifera. *Sustainable Development and Biodiversity*, **2017**, 233-266 | 2.1 | 1 |
| 4 | Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by SeITE01. *Frontiers in Microbiology*, **2021**, 12, 711000 | 5.7 | 1 |
| 3 | Inside and outside rhizosphere parameters of barley and dose-dependent stress alleviation at some chronic metal exposures. *Acta Phytopathologica Et Entomologica Hungarica*, **2012**, 47, 373-383 | 0.6 | 0 |
| 2 | Emergence of random selections in evolution of biological populations. *Theoretical Computer Science*, **2021**, 862, 130-143 | 1.1 | |
| 1 | Conjugate word blending: formal model and experimental implementation by XPCR. *Natural Computing*,1 | 1.3 | |