Giovanni Vallini

List of Publications by Year in Descending Order

89 papers	3,908 citations	39 h-index	61 g-index
99 ext. papers	4,358 ext. citations	4.7 avg, IF	5.09 L-index

#	Paper	IF	Citations
89	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
88	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by SeITE01. *Frontiers in Microbiology*, **2021**, 12, 711000	5.7	1
87	On the Ability of Perfluorohexane Sulfonate (PFHxS) Bioaccumulation by Two sp. Strains Isolated from PFAS-Contaminated Environmental Matrices. *Microorganisms*, **2020**, 8,	4.9	19
86	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
85	Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. *Molecules*, **2019**, 24,	4.8	11
84	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
83	Selenium and tellurium nanomaterials. *ChemistrySelect*, **2018**, 3,	1.8	8
82	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
81	Microbial-Based Bioremediation of Selenium and Tellurium Compounds **2018**,		6
80	Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by SeITE02 and sp. MPV1. *Frontiers in Microbiology*, **2018**, 9, 3178	5.7	19
79	Combination of sediment washing and bioactivators as a potential strategy for dredged marine sediment recovery. *Ecological Engineering*, **2018**, 125, 26-37	3.9	13
78	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
77	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
76	Biogenic SeNPs from Bacillus mycoides SelTE01 and Stenotrophomonas maltophilia SelTE02: Characterization with reference to their associated organic coating **2017**,		1
75	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
74	Diversity, Distribution and Functional Role of Bacterial Endophytes in Vitis vinifera. *Sustainable Development and Biodiversity*, **2017**, 233-266	2.1	1
73	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

72	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
71	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
70	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
69	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
68	Biogenic selenium nanoparticles: characterization, antimicrobial activity and effects on human dendritic cells and fibroblasts. *Microbial Biotechnology*, **2016**, 9, 758-771	6.3	123
67	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
66	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
65	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
64	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
63	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
62	Draft Genome Sequence of Stenotrophomonas maltophilia SeITE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. *Genome Announcements*, **2014**, 2,		4
61	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
60	Endophytic Burkholderia fungorum DBT1 can improve phytoremediation efficiency of polycyclic aromatic hydrocarbons. *Chemosphere*, **2013**, 92, 688-94	8.4	80
59	Burkholderia fungorum DBT1: a promising bacterial strain for bioremediation of PAHs-contaminated soils. *FEMS Microbiology Letters*, **2011**, 319, 11-8	2.9	39
58	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
57	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
56	Reclamation of a mine contaminated soil using biologically reactive organic matrices. *Waste Management and Research*, **2009**, 27, 101-11	4	29
55	Exploiting olive oil mill effluents as a renewable resource for production of biodegradable polymers through a combined anaerobic–aerobic process. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 901-908	3.5	101

54	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
53	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
52	Organic residues as immobilizing agents in aided phytostabilization: (II) effects on soil biochemical and ecotoxicological characteristics. *Chemosphere*, **2009**, 74, 1301-8	8.4	65
51	Organic residues as immobilizing agents in aided phytostabilization: (I) effects on soil chemical characteristics. *Chemosphere*, **2009**, 74, 1292-300	8.4	124
50	Evaluation of composts and liming materials in the phytostabilization of a mine soil using perennial ryegrass. *Science of the Total Environment*, **2008**, 406, 43-56	10.2	124
49	Assessment of chemical, biochemical and ecotoxicological aspects in a mine soil amended with sludge of either urban or industrial origin. *Chemosphere*, **2008**, 72, 1774-81	8.4	72
48	Effect of Organic Residues and Liming Materials on Metal Extraction from a Mining-Contaminated Soil. *Bioremediation Journal*, **2008**, 12, 58-69	2.3	5
47	Evaluation of tests to assess the quality of mine-contaminated soils. *Environmental Geochemistry and Health*, **2008**, 30, 95-9	4.7	66
46	Effect of the length of the cycle on biodegradable polymer production and microbial community selection in a sequencing batch reactor. *Biotechnology Progress*, **2007**, 23, 1064-73	2.8	42
45	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
44	Evaluation of chemical and ecotoxicological characteristics of biodegradable organic residues for application to agricultural land. *Environment International*, **2007**, 33, 505-13	12.9	106
43	Effect of the applied organic load rate on biodegradable polymer production by mixed microbial cultures in a sequencing batch reactor. *Biotechnology and Bioengineering*, **2006**, 93, 76-88	4.9	134
42	Enrichment of activated sludge in a sequencing batch reactor for polyhydroxyalkanoate production. *Water Science and Technology*, **2006**, 54, 119-28	2.2	22
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	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
39	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
38	Storage of biodegradable polymers by an enriched microbial community in a sequencing batch reactor operated at high organic load rate. *Journal of Chemical Technology and Biotechnology*, **2005**, 80, 1306-1318	3.5	82
37	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

36	Biodiversity amongst cultivable polycyclic aromatic hydrocarbon-transforming bacteria isolated from an abandoned industrial site. *FEMS Microbiology Letters*, **2004**, 238, 375-382	2.9	39
35	Identification of two new sets of genes for dibenzothiophene transformation in Burkholderia sp. DBT1. *Biodegradation*, **2004**, 15, 111-23	4.1	31
34	Biodiversity amongst cultivable polycyclic aromatic hydrocarbon-transforming bacteria isolated from an abandoned industrial site. *FEMS Microbiology Letters*, **2004**, 238, 375-82	2.9	6
33	Exploitation of composting management for either reclamation of organic wastes or solid-phase treatment of contaminated environmental matrices. *Environmental Reviews*, **2002**, 10, 195-207	4.5	7
32	Biodegradation of 4-(1-nonyl)phenol by axenic cultures of the yeast Candida aquaetextoris: identification of microbial breakdown products and proposal of a possible metabolic pathway. *International Biodeterioration and Biodegradation*, **2001**, 47, 133-140	4.8	49
31	Evaluation of Cocomposted Coal Fly Ash on Dynamics of Microbial Populations and Heavy Metal Uptake. *Compost Science and Utilization*, **1999**, 7, 81-90	1.2	6
30	Biodegradation of dibenzothiophene by a nodulating isolate of Rhizobium meliloti. *Canadian Journal of Microbiology*, **1998**, 44, 289-97	3.2	64
29	Biodegradation of dibenzothiophene by a nodulating isolate of Rhizobium meliloti. *Canadian Journal of Microbiology*, **1998**, 44, 289-297	3.2	31
28	Candida aquaetextoris sp. nov., a new species of yeast occurring in sludge from a textile industry wastewater treatment plant in Tuscany, Italy. *International Journal of Systematic Bacteriology*, **1997**, 47, 336-40		29
27	Humic acids stimulate growth and activity of in vitro tested axenic cultures of soil autotrophic nitrifying bacteria. *Biology and Fertility of Soils*, **1997**, 24, 243-248	6.1	25
26	Bacterial Attack of Non-Ionic Aromatic Surfactants: Comparison of Degradative Capabilities of New Isolates from Nonylphenol Polyethoxylate Polluted Wastewaters. *Environmental Technology (United Kingdom)*, **1996**, 17, 199-205	2.6	10
25	Effects of compost-derived humic acids on vegetable biomass production and microbial growth within a plant (Cichorium intybus)-soil system: a comparative study. *Agriculture, Ecosystems and Environment*, **1996**, 58, 133-144	5.7	118
24	Effects of Humic Acids from Compost-Stabilized Green Waste or Leonardite on Soil Shrinkage And Microaggregation. *Compost Science and Utilization*, **1996**, 4, 40-46	1.2	5
23	Effects of Humic Acids Extracted from Mined Lignite or Composted Vegetable Residues on Plant Growth and Soil Microbial Populations. *Compost Science and Utilization*, **1995**, 3, 30-38	1.2	17
22	Biodegradation of nonionic surfactants. I. Biotransformation of 4-(1-nonyl)phenol by a Candida maltosa isolate. *Environmental Pollution*, **1995**, 90, 83-7	9.3	43
21	Effects of intensive microbial metabolism on starch-filled polyethylene films in controlled compositing windows.. *Journal of General and Applied Microbiology*, **1994**, 40, 445-461	1.5	8
20	Digesting the Organic Fraction of Municipal Solid Waste: Moving From Mesophilic (37°C) To Thermophilic (55°C) Conditions. *Waste Management and Research*, **1993**, 11, 403-414	4	38
19	Compost Stabilization of Algal Biomass Drawn in Eutrophic Lagoon Ecosystems. *Compost Science and Utilization*, **1993**, 1, 49-53	1.2	10

18	Management of Macroalgae from Venice Lagoon through Anaerobic Co-Digestion and Co-Composting with Municipal Solid Waste (MSW). *Water Science and Technology*, **1993**, 27, 159-168	2.2	11
17	Process Constraints in Source-Collected Vegetable Waste Composting. *Water Science and Technology*, **1993**, 28, 229-236	2.2	12
16	Recovery and Disposal of the Organic Fraction of Municipal Solid Waste (MSW) by Means of Combined Anaerobic and Aerobic Bio-Treatments. *Water Science and Technology*, **1993**, 27, 121-132	2.2	34
15	Influence of humic acids on laurel growth, associated rhizospheric microorganisms, and mycorrhizal fungi. *Biology and Fertility of Soils*, **1993**, 16, 1-4	6.1	36
14	Starch-filled polyethylene in a composting environment: Evidence for polyethylene matrix oxidation. *Journal of Polymers and the Environment*, **1993**, 1, 167-170		6
13	Seasonal Effects On Anaerobic Digestion of the Source Sorted Organic Fraction of Municipal Solid Waste. *Waste Management and Research*, **1992**, 10, 435-443	4	14
12	Seasonal effects on anaerobic digestion of the source sorted organic fraction of municipal solid waste. *Waste Management and Research*, **1992**, 10, 435-443	4	2
11	1H-NMR studies on partially and fully reduced 2(4Fe-4S) ferredoxin from Clostridium pasteurianum. *FEBS Journal*, **1992**, 204, 831-9		45
10	Co-composting for managing effluent from thermophilic anaerobic digestion of municipal solid waste. *Environmental Technology (United Kingdom)*, **1991**, 12, 1137-1145	2.6	15
9	2D 1H NMR studies of oxidized 2(Fe4S4) ferredoxin from Clostridium pasteurianum. *FEBS Letters*, **1991**, 289, 253-6	3.8	40
8	The survival of the pentachlorophenol-degrading Rhodococcus chlorophenolicus PCP-1 and Flavobacterium sp. in natural soil. *Biodegradation*, **1990**, 1, 273-281	4.1	56
7	Anaerobic Digestion and Composting in an Integrated Strategy for Managing Vegetable Residues from Agro-Industries or Sorted Organic Fraction of Municipal Solid Waste. *Water Science and Technology*, **1990**, 22, 33-41	2.2	14
6	Compost Detoxification of Vegetable-Tannery Sludge. *Waste Management and Research*, **1989**, 7, 277-290	4	7
5	Green compost production from vegetable waste separately collected in metropolitan garden-produce markets. *Biological Wastes*, **1989**, 29, 33-41		13
4	Comparison of co-digestion performance of two differently collected organic fractions of municipal solid waste with sewage sludges. *Environmental Technology Letters*, **1988**, 9, 391-400		39
3	Genotoxic effects of some agricultural pesticides in vitro tested with Aspergillus nidulans. *Environmental Pollution Series A, Ecological and Biological*, **1983**, 30, 39-58		6
2	The Biology of Composting: a Review. *Waste Management and Research*, **1983**, 1, 157-176	4	353
1	Effect of organic matter on rhizosphere microorganisms and root development of Sorghum plants in two different soils. *Plant and Soil*, **1983**, 74, 3-18	4.2	27