

Giovanni Vallini

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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	The Biology of Composting: a Review. <i>Waste Management and Research</i> , 1983 , 1, 157-176	4	353
88	Effect of the applied organic load rate on biodegradable polymer production by mixed microbial cultures in a sequencing batch reactor. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 76-88	4.9	134
87	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	5.7	132
86	Organic residues as immobilizing agents in aided phytostabilization: (I) effects on soil chemical characteristics. <i>Chemosphere</i> , 2009 , 74, 1292-300	8.4	124
85	Evaluation of composts and liming materials in the phytostabilization of a mine soil using perennial ryegrass. <i>Science of the Total Environment</i> , 2008 , 406, 43-56	10.2	124
84	Biogenic selenium nanoparticles: characterization, antimicrobial activity and effects on human dendritic cells and fibroblasts. <i>Microbial Biotechnology</i> , 2016 , 9, 758-771	6.3	123
83	Effects of compost-derived humic acids on vegetable biomass production and microbial growth within a plant (<i>Cichorium intybus</i>)-soil system: a comparative study. <i>Agriculture, Ecosystems and Environment</i> , 1996 , 58, 133-144	5.7	118
82	Evaluation of chemical and ecotoxicological characteristics of biodegradable organic residues for application to agricultural land. <i>Environment International</i> , 2007 , 33, 505-13	12.9	106
81	Exploiting olive oil mill effluents as a renewable resource for production of biodegradable polymers through a combined anaerobic-aerobic process. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 901-908	3.5	101
80	Effect of pH on the production of bacterial polyhydroxyalkanoates by mixed cultures enriched under periodic feeding. <i>Process Biochemistry</i> , 2010 , 45, 714-723	4.8	94
79	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, 4837-50	4.8	92
78	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	6.4	89
77	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	12.8	88
76	Storage of biodegradable polymers by an enriched microbial community in a sequencing batch reactor operated at high organic load rate. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 1306-1318	3.5	82
75	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, 233-41	12.9	81
74	Endophytic <i>Burkholderia fungorum</i> DBT1 can improve phytoremediation efficiency of polycyclic aromatic hydrocarbons. <i>Chemosphere</i> , 2013 , 92, 688-94	8.4	80
73	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, 293-9	8.4	79

72	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	6.2	76
71	Assessment of chemical, biochemical and ecotoxicological aspects in a mine soil amended with sludge of either urban or industrial origin. <i>Chemosphere</i> , 2008 , 72, 1774-81	8.4	72
70	Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. <i>Water Research</i> , 2010 , 44, 4537-49	12.5	68
69	Evaluation of tests to assess the quality of mine-contaminated soils. <i>Environmental Geochemistry and Health</i> , 2008 , 30, 95-9	4.7	66
68	Organic residues as immobilizing agents in aided phytostabilization: (II) effects on soil biochemical and ecotoxicological characteristics. <i>Chemosphere</i> , 2009 , 74, 1301-8	8.4	65
67	Biodegradation of dibenzothiophene by a nodulating isolate of <i>Rhizobium meliloti</i> . <i>Canadian Journal of Microbiology</i> , 1998 , 44, 289-97	3.2	64
66	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	6.4	58
65	The survival of the pentachlorophenol-degrading <i>Rhodococcus chlorophenicus</i> PCP-1 and <i>Flavobacterium</i> sp. in natural soil. <i>Biodegradation</i> , 1990 , 1, 273-281	4.1	56
64	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	6.3	55
63	<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	6.4	51
62	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, 121-31	7.9	51
61	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	50
60	Biodegradation of 4-(1-nonyl)phenol by axenic cultures of the yeast <i>Candida aquatextoris</i> : identification of microbial breakdown products and proposal of a possible metabolic pathway. <i>International Biodeterioration and Biodegradation</i> , 2001 , 47, 133-140	4.8	49
59	Effect of the anode feeding composition on the performance of a continuous-flow methane-producing microbial electrolysis cell. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7349-60	5.1	46
58	¹ H-NMR studies on partially and fully reduced 2(4Fe-4S) ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Journal</i> , 1992 , 204, 831-9		45
57	Biodegradation of nonionic surfactants. I. Biotransformation of 4-(1-nonyl)phenol by a <i>Candida maltosa</i> isolate. <i>Environmental Pollution</i> , 1995 , 90, 83-7	9.3	43
56	Effect of the length of the cycle on biodegradable polymer production and microbial community selection in a sequencing batch reactor. <i>Biotechnology Progress</i> , 2007 , 23, 1064-73	2.8	42
55	<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, 6854-63	4.8	41

54	2D 1H NMR studies of oxidized 2(Fe4S4) ferredoxin from <i>Clostridium pasteurianum</i> . <i>FEBS Letters</i> , 1991 , 289, 253-6	3.8	40
53	<i>Burkholderia fungorum</i> DBT1: a promising bacterial strain for bioremediation of PAHs-contaminated soils. <i>FEMS Microbiology Letters</i> , 2011 , 319, 11-8	2.9	39
52	Biodiversity amongst cultivable polycyclic aromatic hydrocarbon-transforming bacteria isolated from an abandoned industrial site. <i>FEMS Microbiology Letters</i> , 2004 , 238, 375-382	2.9	39
51	Comparison of co-digestion performance of two differently collected organic fractions of municipal solid waste with sewage sludges. <i>Environmental Technology Letters</i> , 1988 , 9, 391-400		39
50	Digesting the Organic Fraction of Municipal Solid Waste: Moving From Mesophilic (37°C) To Thermophilic (55°C) Conditions. <i>Waste Management and Research</i> , 1993 , 11, 403-414	4	38
49	<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	37
48	Influence of humic acids on laurel growth, associated rhizospheric microorganisms, and mycorrhizal fungi. <i>Biology and Fertility of Soils</i> , 1993 , 16, 1-4	6.1	36
47	Recovery and Disposal of the Organic Fraction of Municipal Solid Waste (MSW) by Means of Combined Anaerobic and Aerobic Bio-Treatments. <i>Water Science and Technology</i> , 1993 , 27, 121-132	2.2	34
46	Identification of two new sets of genes for dibenzothiophene transformation in <i>Burkholderia</i> sp. DBT1. <i>Biodegradation</i> , 2004 , 15, 111-23	4.1	31
45	Biodegradation of dibenzothiophene by a nodulating isolate of <i>Rhizobium meliloti</i> . <i>Canadian Journal of Microbiology</i> , 1998 , 44, 289-297	3.2	31
44	Reclamation of a mine contaminated soil using biologically reactive organic matrices. <i>Waste Management and Research</i> , 2009 , 27, 101-11	4	29
43	<i>Candida aquatextoris</i> sp. nov., a new species of yeast occurring in sludge from a textile industry wastewater treatment plant in Tuscany, Italy. <i>International Journal of Systematic Bacteriology</i> , 1997 , 47, 336-40		29
42	Effect of organic matter on rhizosphere microorganisms and root development of Sorghum plants in two different soils. <i>Plant and Soil</i> , 1983 , 74, 3-18	4.2	27
41	<i>Brassica juncea</i> can improve selenite and selenate abatement in selenium contaminated soils through the aid of its rhizospheric bacterial population. <i>Plant and Soil</i> , 2006 , 285, 233-244	4.2	26
40	Rhizosphere-induced selenium precipitation for possible applications in phytoremediation of se polluted effluents. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005 , 60, 349-56	1.7	26
39	Humic acids stimulate growth and activity of in vitro tested axenic cultures of soil autotrophic nitrifying bacteria. <i>Biology and Fertility of Soils</i> , 1997 , 24, 243-248	6.1	25
38	Selenite resistant rhizobacteria stimulate SeO(3) (2-) phytoextraction by <i>Brassica juncea</i> in bioaugmented water-filtering artificial beds. <i>Environmental Science and Pollution Research</i> , 2009 , 16, 663-70	5.1	23
37	Enrichment of activated sludge in a sequencing batch reactor for polyhydroxyalkanoate production. <i>Water Science and Technology</i> , 2006 , 54, 119-28	2.2	22

36	Biogenic selenium nanoparticles synthesized by <i>Stenotrophomonas maltophilia</i> SeITE02 loose antibacterial and antibiofilm efficacy as a result of the progressive alteration of their organic coating layer. <i>Microbial Biotechnology</i> , 2018 , 11, 1037-1047	6.3	20
35	On the Ability of Perfluorohexane Sulfonate (PFHxS) Bioaccumulation by Two sp. Strains Isolated from PFAS-Contaminated Environmental Matrices. <i>Microorganisms</i> , 2020 , 8,	4.9	19
34	Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by SeITE02 and sp. MPV1. <i>Frontiers in Microbiology</i> , 2018 , 9, 3178	5.7	19
33	Effects of Humic Acids Extracted from Mined Lignite or Composted Vegetable Residues on Plant Growth and Soil Microbial Populations. <i>Compost Science and Utilization</i> , 1995 , 3, 30-38	1.2	17
32	Co-composting for managing effluent from thermophilic anaerobic digestion of municipal solid waste. <i>Environmental Technology (United Kingdom)</i> , 1991 , 12, 1137-1145	2.6	15
31	Seasonal Effects On Anaerobic Digestion of the Source Sorted Organic Fraction of Municipal Solid Waste. <i>Waste Management and Research</i> , 1992 , 10, 435-443	4	14
30	Anaerobic Digestion and Composting in an Integrated Strategy for Managing Vegetable Residues from Agro-Industries or Sorted Organic Fraction of Municipal Solid Waste. <i>Water Science and Technology</i> , 1990 , 22, 33-41	2.2	14
29	Bioremediation of diesel contamination at an underground storage tank site: a spatial analysis of the microbial community. <i>World Journal of Microbiology and Biotechnology</i> , 2016 , 32, 6	4.4	13
28	Green compost production from vegetable waste separately collected in metropolitan garden-produce markets. <i>Biological Wastes</i> , 1989 , 29, 33-41		13
27	Combination of sediment washing and bioactivators as a potential strategy for dredged marine sediment recovery. <i>Ecological Engineering</i> , 2018 , 125, 26-37	3.9	13
26	Process Constraints in Source-Collected Vegetable Waste Composting. <i>Water Science and Technology</i> , 1993 , 28, 229-236	2.2	12
25	<i>Trichoderma longibrachiatum</i> Evx1 is a fungal biocatalyst suitable for the remediation of soils contaminated with diesel fuel and polycyclic aromatic hydrocarbons. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 9134-43	5.1	11
24	Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. <i>Molecules</i> , 2019 , 24,	4.8	11
23	Management of Macroalgae from Venice Lagoon through Anaerobic Co-Digestion and Co-Composting with Municipal Solid Waste (MSW). <i>Water Science and Technology</i> , 1993 , 27, 159-168	2.2	11
22	Bacterial Attack of Non-Ionic Aromatic Surfactants: Comparison of Degradative Capabilities of New Isolates from Nonylphenol Polyethoxylate Polluted Wastewaters. <i>Environmental Technology (United Kingdom)</i> , 1996 , 17, 199-205	2.6	10
21	Compost Stabilization of Algal Biomass Drawn in Eutrophic Lagoon Ecosystems. <i>Compost Science and Utilization</i> , 1993 , 1, 49-53	1.2	10
20	Selenium and tellurium nanomaterials. <i>ChemistrySelect</i> , 2018 , 3,	1.8	8
19	Effects of intensive microbial metabolism on starch-filled polyethylene films in controlled composting windows.. <i>Journal of General and Applied Microbiology</i> , 1994 , 40, 445-461	1.5	8

18	Biomolecular composition of capping layer and stability of biogenic selenium nanoparticles synthesized by five bacterial species. <i>Microbial Biotechnology</i> , 2021 , 14, 198-212	6.3	8
17	Exploitation of composting management for either reclamation of organic wastes or solid-phase treatment of contaminated environmental matrices. <i>Environmental Reviews</i> , 2002 , 10, 195-207	4.5	7
16	Compost Detoxification of Vegetable-Tannery Sludge. <i>Waste Management and Research</i> , 1989 , 7, 277-290		7
15	Microbial-Based Bioremediation of Selenium and Tellurium Compounds 2018 ,		6
14	Evaluation of Cocomposted Coal Fly Ash on Dynamics of Microbial Populations and Heavy Metal Uptake. <i>Compost Science and Utilization</i> , 1999 , 7, 81-90	1.2	6
13	Starch-filled polyethylene in a composting environment: Evidence for polyethylene matrix oxidation. <i>Journal of Polymers and the Environment</i> , 1993 , 1, 167-170		6
12	Genotoxic effects of some agricultural pesticides in vitro tested with <i>Aspergillus nidulans</i> . <i>Environmental Pollution Series A, Ecological and Biological</i> , 1983 , 30, 39-58		6
11	Biodiversity amongst cultivable polycyclic aromatic hydrocarbon-transforming bacteria isolated from an abandoned industrial site. <i>FEMS Microbiology Letters</i> , 2004 , 238, 375-82	2.9	6
10	Effect of Organic Residues and Liming Materials on Metal Extraction from a Mining-Contaminated Soil. <i>Bioremediation Journal</i> , 2008 , 12, 58-69	2.3	5
9	Effects of Humic Acids from Compost-Stabilized Green Waste or Leonardite on Soil Shrinkage And Microaggregation. <i>Compost Science and Utilization</i> , 1996 , 4, 40-46	1.2	5
8	Draft Genome Sequence of <i>Stenotrophomonas maltophilia</i> SelTE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. <i>Genome Announcements</i> , 2014 , 2,		4
7	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	3.2	3
6	Identification of aldolase and ferredoxin reductase within the dbt operon of <i>Burkholderia fungorum</i> DBT1. <i>Journal of Basic Microbiology</i> , 2014 , 54, 464-9	2.7	3
5	Seasonal effects on anaerobic digestion of the source sorted organic fraction of municipal solid waste. <i>Waste Management and Research</i> , 1992 , 10, 435-443	4	2
4	Biogenic SeNPs from <i>Bacillus mycoides</i> SelTE01 and <i>Stenotrophomonas maltophilia</i> SelTE02: Characterization with reference to their associated organic coating 2017 ,		1
3	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	0.7	1
2	Diversity, Distribution and Functional Role of Bacterial Endophytes in <i>Vitis vinifera</i> . <i>Sustainable Development and Biodiversity</i> , 2017 , 233-266	2.1	1
1	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by SelTE01. <i>Frontiers in Microbiology</i> , 2021 , 12, 711000	5.7	1

