

Giovanni Garau

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,082
citations

218677

26
h-index

233421

45
g-index

60
all docs

60
docs citations

60
times ranked

2184
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of red mud, zeolite and lime on heavy metal immobilization, culturable heterotrophic microbial populations and enzyme activities in a contaminated soil. <i>Geoderma</i> , 2007, 142, 47-57.	5.1	303
2	Maturity assessment of compost from municipal solid waste through the study of enzyme activities and water-soluble fractions. <i>Waste Management</i> , 2008, 28, 534-540.	7.4	180
3	Novel strains of nodulating Burkholderia have a role in nitrogen fixation with papilionoid herbaceous legumes adapted to acid, infertile soils. <i>Soil Biology and Biochemistry</i> , 2009, 41, 125-134.	8.8	146
4	Copper(II) and lead(II) removal from aqueous solution by water treatment residues. <i>Journal of Hazardous Materials</i> , 2015, 283, 140-147.	12.4	83
5	Influence of pea and wheat growth on Pb, Cd, and Zn mobility and soil biological status in a polluted amended soil. <i>Geoderma</i> , 2009, 151, 241-248.	5.1	81
6	Long-term influence of red mud on As mobility and soil physico-chemical and microbial parameters in a polluted sub-acidic soil. <i>Journal of Hazardous Materials</i> , 2011, 185, 1241-1248.	12.4	77
7	<i>Burkholderia rhynchosiae</i> sp. nov., isolated from <i>Rhynchosia ferulifolia</i> root nodules. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 3944-3949.	1.7	62
8	The Symbiotic Requirements of Different <i>Medicago</i> Spp. Suggest the Evolution of <i>Sinorhizobium Meliloti</i> and <i>S. Medicae</i> with Hosts Differentially Adapted to Soil pH. <i>Plant and Soil</i> , 2005, 276, 263-277.	3.7	60
9	Stabilising metal(loid)s in soil with iron and aluminium-based products: Microbial, biochemical and plant growth impact. <i>Journal of Environmental Management</i> , 2014, 139, 146-153.	7.8	60
10	Influence of selected lab cultures on the evolution of free amino acids, free fatty acids and Fiore Sardo cheese microflora during the ripening. <i>Food Microbiology</i> , 2008, 25, 366-377.	4.2	59
11	Employment of autochthonous microflora in Pecorino Sardo cheese manufacturing and evolution of physicochemical parameters during ripening. <i>International Dairy Journal</i> , 2006, 16, 876-885.	3.0	49
12	Sorption behavior of sulfamethazine on unamended and manure-amended soils and short-term impact on soil microbial community. <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 234-242.	6.0	48
13	Use of municipal solid wastes for chemical and microbiological recovery of soils contaminated with metal(loid)s. <i>Soil Biology and Biochemistry</i> , 2017, 111, 25-35.	8.8	47
14	Insights into the fate of antimony (Sb) in contaminated soils: Ageing influence on Sb mobility, bioavailability, bioaccessibility and speciation. <i>Science of the Total Environment</i> , 2021, 770, 145354.	8.0	45
15	Water treatment residues as accumulators of oxoanions in soil. Sorption of arsenate and phosphate anions from an aqueous solution. <i>Journal of Hazardous Materials</i> , 2014, 264, 144-152.	12.4	44
16	Soil microbial response to tetracycline in two different soils amended with cow manure. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5807-5817.	5.3	44
17	The <i>Sinorhizobium medicae</i> WSM419 <i>lpiA</i> gene is transcriptionally activated by <i>FsrR</i> and required to enhance survival in lethal acid conditions. <i>Microbiology (United Kingdom)</i> , 2006, 152, 3049-3059.	1.8	42
18	Influence of the pH on the accumulation of phosphate by red mud (a bauxite ore processing waste). <i>Journal of Hazardous Materials</i> , 2010, 182, 266-272.	12.4	42

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19	Municipal solid wastes as a resource for environmental recovery: Impact of water treatment residuals and compost on the microbial and biochemical features of As and trace metal-polluted soils. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 445-454.	6.0	39
20	Short-term effects on sheep pastureland due to grazing abandonment in a Western Mediterranean island ecosystem: A multidisciplinary approach. <i>Journal for Nature Conservation</i> , 2010, 18, 258-267.	1.8	37
21	Mutual effect of <i>Phragmites australis</i> , <i>Arundo donax</i> and immobilization agents on arsenic and trace metals phytostabilization in polluted soils. <i>Geoderma</i> , 2018, 314, 63-72.	5.1	37
22	Effect of monospecific and mixed Mediterranean tree plantations on soil microbial community and biochemical functioning. <i>Applied Soil Ecology</i> , 2019, 140, 78-88.	4.3	34
23	Municipal solid waste compost as a novel sorbent for antimony(V): adsorption and release trials at acidic pH. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5603-5615.	5.3	33
24	Addition of softwood biochar to contaminated soils decreases the mobility, leachability and bioaccessibility of potentially toxic elements. <i>Science of the Total Environment</i> , 2020, 739, 139946.	8.0	33
25	Influence of iron-rich water treatment residues and compost on the mobility of metal(loid)s in mine soils. <i>Geoderma</i> , 2016, 283, 1-9.	5.1	31
26	Biochar and compost as gentle remediation options for the recovery of trace elements-contaminated soils. <i>Science of the Total Environment</i> , 2020, 711, 134511.	8.0	29
27	Mobility and potential bioavailability of antimony in contaminated soils: Short-term impact on microbial community and soil biochemical functioning. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110576.	6.0	29
28	Metal(loid)s immobilization in soils of Lebanon using municipal solid waste compost: Microbial and biochemical impact. <i>Applied Soil Ecology</i> , 2019, 143, 134-143.	4.3	27
29	Mobility, bioaccessibility and toxicity of potentially toxic elements in a contaminated soil treated with municipal solid waste compost. <i>Ecotoxicology and Environmental Safety</i> , 2019, 186, 109766.	6.0	27
30	Influence of lead in the sorption of arsenate by municipal solid waste composts: metal(loid) retention, desorption and phytotoxicity. <i>Bioresource Technology</i> , 2017, 225, 90-98.	9.6	25
31	Arsenic Mobilization by Citrate and Malate from a Red Mud-Treated Contaminated Soil. <i>Journal of Environmental Quality</i> , 2013, 42, 774-781.	2.0	19
32	Sorption of Cadmium(II) and Zinc(II) from Aqueous Solution by Water Treatment Residuals at Different pH Values. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	18
33	Sb(V) adsorption and desorption onto ferrihydrite: influence of pH and competing organic and inorganic anions. <i>Environmental Science and Pollution Research</i> , 2019, 26, 27268-27280.	5.3	16
34	Assessment of the use potential of edible sea urchins (<i>Paracentrotus lividus</i>) processing waste within the agricultural system: Influence on soil chemical and biological properties and bean (<i>Phaseolus</i>) Management, 2012, 109, 12-18.	7.8	15
35	Evaluation of <i>Cynara cardunculus</i> L. and municipal solid waste compost for aided phytoremediation of multi potentially toxic element-contaminated soils. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3253-3265.	5.3	14
36	Influence of autochthonous lactic acid bacteria and enzymatic yeast extracts on the microbiological, biochemical and sensorial properties of Lben generic products. <i>Journal of Dairy Research</i> , 2014, 81, 193-201.	1.4	13

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37	Sorption of Pb, Cu, Cd, and Zn by Municipal Solid Waste Composts: Metal Retention and Desorption Mechanisms. <i>Clean - Soil, Air, Water</i> , 2017, 45, .	1.1	13
38	Combining grass and legume species with compost for assisted phytostabilization of contaminated soils. <i>Environmental Technology and Innovation</i> , 2021, 22, 101387.	6.1	13
39	Role of polygalacturonic acid and the cooperative effect of caffeic and malic acids on the toxicity of Cu(II) towards triticale plants (Å— Triticosecale Wittm). <i>Biology and Fertility of Soils</i> , 2015, 51, 535-544.	4.3	12
40	Detoxification Processes from Vanadate at the Root Apoplasm Activated by Caffeic and Polygalacturonic Acids. <i>PLoS ONE</i> , 2015, 10, e0141041.	2.5	10
41	High-quality permanent draft genome sequence of <i>Rhizobium sullae</i> strain WSM1592; a <i>Hedysarum coronarium</i> microsymbiont from Sassari, Italy. <i>Standards in Genomic Sciences</i> , 2015, 10, 44.	1.5	9
42	Interaction of the water soluble fraction of MSW-composts with Pb(II) and Cu(II) ions. <i>Journal of Environmental Management</i> , 2017, 192, 39-47.	7.8	9
43	Impact of <i>Eisenia fetida</i> earthworms and biochar on potentially toxic element mobility and health of a contaminated soil. <i>Science of the Total Environment</i> , 2022, 806, 151255.	8.0	9
44	Formation of biopolymers owing to the oxidation of esculetine by Cu(II) ions in a Ca-polygalacturonate network. <i>Journal of Inorganic Biochemistry</i> , 2012, 108, 30-35.	3.5	7
45	Water Treatment Residuals as a Resource for the Recovery of Soil and Water Polluted with Sb(V): Sorption and Desorption Trials at Different pH Values. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	6
46	Innovative amendments derived from industrial and municipal wastes enhance plant growth and soil functions in potentially toxic elements-polluted environments. <i>Italian Journal of Agronomy</i> , 2021, 16, .	1.0	6
47	Effect of Municipal Solid Waste Compost on Antimony Mobility, Phytotoxicity and Bioavailability in Polluted Soils. <i>Soil Systems</i> , 2021, 5, 60.	2.6	6
48	Stabilising fluoride in contaminated soils with monocalcium phosphate and municipal solid waste compost: microbial, biochemical and plant growth impact. <i>Environmental Science and Pollution Research</i> , 2022, 29, 41820-41833.	5.3	6
49	Softwood-derived Biochar as a Green Material for the Recovery of Environmental Media Contaminated with Potentially Toxic Elements. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	2.4	6
50	PCR-based methods to discriminate <i>Bacillus thuringiensis</i> strains. <i>Annals of Microbiology</i> , 2006, 56, 71-76.	2.6	5
51	Suitability of selected autochthonous lactic acid bacteria cultures for Pecorino Sardo Dolce cheese manufacturing: influence on microbial composition, nutritional value and sensory attributes. <i>International Journal of Dairy Technology</i> , 2013, 66, 543-551.	2.8	5
52	Impact of Soil Management on the Functional Activity of Microbial Communities associated to Cork Oak Rhizosphere. , 2006, , .		4
53	Role of root exudates on the sorption of arsenate by ferrihydrite. <i>European Journal of Soil Science</i> , 2015, 66, 813-822.	3.9	3
54	Influence of Pb(II) in the sorption of As(V) by a Ca-polygalacturonate network, a root mucilage model. <i>Soil Science and Plant Nutrition</i> , 2019, 65, 305-315.	1.9	3

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55	Genome sequence of <i>Ensifer medicae</i> strain WSM1369; an effective microsymbiont of the annual legume <i>Medicago sphaerocarpos</i> . <i>Standards in Genomic Sciences</i> , 2013, 9, 420-430.	1.5	1
56	Assessment and Remediation of Soils Contaminated by Potentially Toxic Elements (PTE). <i>Soil Systems</i> , 2022, 6, 55.	2.6	1
57	Genome sequence of <i>Ensifer medicae</i> Di28; an effective N ₂ -fixing microsymbiont of <i>Medicago murex</i> and <i>M. polymorpha</i> . <i>Standards in Genomic Sciences</i> , 2014, 9, 4.	1.5	0
58	The Effect of Inoculation on Growth, Nodulation and Nitrogen in Annual Clover Cultivars Grown at Two Mediterranean Locations of Sardinia, Italy. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2015, 43, 165-172.	1.1	0
59	Season and altitude effects on milk fatty acid profile in Sarda dairy sheep flocks. <i>Italian Journal of Animal Science</i> , 2010, 6, .	1.9	0
60	Biochar Addition Decreases the Mobility, Bioavailability, and Phytotoxicity of Potentially Toxic Elements in an Agricultural Contaminated Soil. <i>Communications in Soil Science and Plant Analysis</i> , 0, , 1-17.	1.4	0