Giovanni De Giudici

List of Publications by Year
in descending order

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67	1,284	331670 21	434195 31
papers	citations	h-index	g-index

74	74	74	1400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metals and metalloids in hair samples of children living near the abandoned mine sites of Sulcis-Inglesiente (Sardinia, Italy). Environmental Research, 2014, 134, 366-374.	7.5	55
2	Arsenopyrite dissolution rates in O2-bearing solutions. Chemical Geology, 2010, 273, 272-285.	3.3	54
3	Surface control vs. diffusion control during calcite dissolution: Dependence of step-edge velocity upon solution pH. American Mineralogist, 2002, 87, 1279-1285.	1.9	50
4	Mechanisms of galena dissolution in oxygen-saturated solutions: Evaluation of pH effect on apparent activation energies and mineral-water interface. Geochimica Et Cosmochimica Acta, 2005, 69, 2321-2331.	3.9	48
5	The role of natural biogeochemical barriers in limiting metal loading to a stream affected by mine drainage. Applied Geochemistry, 2017, 76, 124-135.	3.0	43
6	Zinc isotope and transition-element dynamics accompanying hydrozincite biomineralization in the Rio Naracauli, Sardinia, Italy. Chemical Geology, 2013, 337-338, 1-10.	3.3	42
7	Microscopic Processes Ruling the Bioavailability of Zn to Roots of Euphorbia pithyusa L. Pioneer Plant. Environmental Science & Technology, 2015, 49, 1400-1408.	10.0	42
8	In situ investigation of galena dissolution in oxygen saturated solution: evolution of surface features and kinetic rate. Geochimica Et Cosmochimica Acta, 2001, 65, 1381-1389.	3.9	38
9	Evidence of calcium carbonates in coastal (Talos Dome and Ross Sea area) East Antarctica snow and firn: Environmental and climatic implications. Earth and Planetary Science Letters, 2008, 271, 43-52.	4.4	37
10	Impact of Zn excess on biomineralization processes in Juncus acutus grown in mine polluted sites. Journal of Hazardous Materials, 2019, 370, 98-107.	12.4	35
11	Fluorite dissolution at acidic pH: In situ AFM and ex situ VSI experiments and Monte Carlo simulations. Geochimica Et Cosmochimica Acta, 2010, 74, 4298-4311.	3.9	33
12	Microstructure of Cuâ€“Be alloy triboxidative wear debris. Acta Materialia, 2007, 55, 2531-2538.	7.9	32
13	Geochemistry of rare earth elements in water and solid materials at abandoned mines in SW Sardinia (Italy). Journal of Geochemical Exploration, 2013, 133, 149-159.	3.2	32
14	Structural properties of biologically controlled hydrozincite: An HRTEM and NMR spectroscopic study. American Mineralogist, 2009, 94, 1698-1706.	1.9	31
15	Microscopic biomineralization processes and Zn bioavailability: a synchrotron-based investigation of Pistacia lentiscus L. roots. Environmental Science and Pollution Research, 2015, 22, 19352-19361.	5.3	31
16	The amorphous Zn biomineralization at Naracauli stream, Sardinia: electron microscopy and X-ray absorption spectroscopy. Environmental Science and Pollution Research, 2014, 21, 6775-6782.	5.3	29
17	Quantifying biomineralization of zinc in the Rio Naracauli (Sardinia, Italy), using a tracer injection and synoptic sampling. Chemical Geology, 2014, 384, 110-119.	3.3	29
18	Hydrozincite seasonal precipitation at Naracauli (Sardinia â€“ Italy): Hydrochemical factors and morphological features of the biomineralization process. Applied Geochemistry, 2012, 27, 1814-1820.	3.0	27

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19	Assessment of the applicability of a â€œtoolboxâ€•designed for microbially assisted phytoremediation: the case study at Ingurtosu mining site (Italy). Environmental Science and Pollution Research, 2014, 21, 6939-6951.	5.3	27
20	Zn biomineralization processes and microbial biofilm in a metal-rich stream (Naracauli, Sardinia). Environmental Science and Pollution Research, 2014, 21, 6793-6808.	5.3	26
21	Cigarette butts, a threat for marine environments: Lessons from benthic foraminifera (Protista). Marine Environmental Research, 2020, 162, 105150.	2.5	24
22	Stability of biological and inorganic hemimorphite: Implications for hemimorphite precipitation in non-sulfide Zn deposits. Ore Geology Reviews, 2017, 89, 808-821.	2.7	22
23	Coupled pot and lysimeter experiments assessing plant performance in microbially assisted phytoremediation. Environmental Science and Pollution Research, 2014, 21, 6905-6920.	5.3	20
24	Apparent energy of hydrated biomineral surface and apparent solubility constant: An investigation of hydrozincite. Geochimica Et Cosmochimica Acta, 2014, 140, 349-364.	3.9	20
25	Metal Tolerance Capability of Helichrysum microphyllum Cambess. subsp. tyrrhenicum Bacch., Brullo & Giusso: A Candidate for Phytostabilization in Abandoned Mine Sites. Bulletin of Environmental Contamination and Toxicology, 2018, 101, 758-765.	2.7	20
26	Microscopic surface processes observed during the oxidative dissolution of sphalerite. European Journal of Mineralogy, 2002, 14, 757-762.	1.3	19
27	Bioerosion by microbial euendoliths in benthic foraminifera from heavy metal-polluted coastal environments of Portovesme (south-western Sardinia, Italy). Biogeosciences, 2012, 9, 4607-4620.	3.3	19
28	Effects of zinc and lead on seed germination of Helichrysum microphyllum subsp. tyrrhenicum, a metal-tolerant plant. International Journal of Environmental Science and Technology, 2020, 17, 1917-1928.	3.5	19
29	Natural attenuation can lead to environmental resilience in mine environment. Applied Geochemistry, 2020, 117, 104597.	3.0	19
30	The marine sedimentary record of natural and anthropogenic contribution from the Sulcis-Iglesiente mining district (Sardinia, Italy). Marine Pollution Bulletin, 2017, 122, 331-343.	5.0	18
31	XRD-Thermal Combined Analyses: An Approach to Evaluate the Potential of Phytoremediation, Phytomining, and Biochar Production. International Journal of Environmental Research and Public Health, 2019, 16, 1976.	2.6	18
32	Coordination environment of Zn in foraminifera Elphidium aculeatum and Quinqueloculina seminula shells from a polluted site. Chemical Geology, 2018, 477, 100-111.	3.3	17
33	Mineralogy and Zn Chemical Speciation in a Soil-Plant System from a Metal-Extreme Environment: A Study on Helichrysum microphyllum subsp. tyrrhenicum (Campo Pisano Mine, SW Sardinia, Italy). Minerals (Basel, Switzerland), 2020, 10, 259.	2.0	17
34	Dissolution of nanocrystalline fluorite powders: An investigation by XRD and solution chemistry. Geochimica Et Cosmochimica Acta, 2005, 69, 4073-4083.	3.9	16
35	Dissolution of the (001) surface of galena: An in situ assessment of surface speciation by fluid-cell micro-Raman spectroscopy. American Mineralogist, 2007, 92, 518-524.	1.9	16
36	Investigation of the hydrozincite structure by infrared and solid-state NMR spectroscopy. American Mineralogist, 2013, 98, 1219-1226.	1.9	16

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37	Application of hydrologic-tracer techniques to the Casargiu adit and Rio Irvi (SW-Sardinia, Italy): Using enhanced natural attenuation to reduce extreme metal loads. Applied Geochemistry, 2018, 96, 42-54.	3.0	16
38	Plastics, (bio)polymers and their apparent biogeochemical cycle: An infrared spectroscopy study on foraminifera. Environmental Pollution, 2021, 279, 116912.	7.5	16
39	Future precipitation in a Mediterranean island and streamflow changes for a small basin using EURO-CORDEX regional climate simulations and the SWAT model. Journal of Hydrology, 2021, 603, 127025.	5.4	15
40	Lead isotopic fingerprint in human scalp hair: The case study of Iglesias mining district (Sardinia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	8.0	14
41	Uptake of Pb by hydrozincite, Zn5(CO3)2(OH)6â€"Implications for remediation. Journal of Hazardous Materials, 2010, 177, 1138-1144.	12.4	13
42	Assessment of origin and fate of contaminants along mining-affected Rio Montevecchio (SW Sardinia,) Tj ETQq0 0 0 rgBT /Overlock 10 T 104420.	3.0	12
43	Natural Biomineralization in the Contaminated Sediment-Water System at the Ingurtosu Abandoned Mine. Soil Biology, 2012, , 113-130.	0.8	12
44	The Pb-Zn-Ag vein system at Montevecchio-Ingurtosu, southwestern Sardinia, Italy: A summary of previous knowledge and new mineralogical, fluid inclusion, and isotopic data. Ore Geology Reviews, 2019, 115, 103194.	2.7	11
45	Surface reactivity of Etna volcanic ash and evaluation of health risks. Science of the Total Environment, 2021, 761, 143248.	8.0	11
46	Groundwater Chemistry of the Mornag Aquifer System in NE Tunisia. Resource Geology, 2010, 60, 377-388.	0.8	10
47	Uptake of Cd in hydrozincite, Zn5(CO3)2(OH)6: evidence from X-ray absorption spectroscopy and anomalous X-ray diffraction. European Journal of Mineralogy, 2010, 22, 557-564.	1.3	10
48	Formation of a Low-Crystalline Zn-Silicate in a Stream in SW Sardinia, Italy. Procedia Earth and Planetary Science, 2013, 7, 888-891.	0.6	10
49	Structure of low-order hemimorphite produced in a Zn-rich environment by cyanobacterium Leptolingbya frigida. American Mineralogist, 2018, 103, 711-719.	1.9	10
50	Zinc incorporation in marine bivalve shells grown in mine-polluted seabed sediments: a case study in the Malfidano mining area (SW Sardinia, Italy). Environmental Science and Pollution Research, 2018, 25, 36645-36660.	5.3	10
51	Ex situ phytoremediation trial of Sardinian mine waste using a pioneer plant species. Environmental Science and Pollution Research, 2021, 28, 55736-55753.	5.3	9
52	Phonon confinement effect in calcium fluoride nanoparticles. Chemical Physics Letters, 2007, 444, 145-148.	2.6	8
53	Binding of bis-(2-ethylhexyl) phthalate at the surface of hydrozincite nanocrystals: An example of organic molecules absorption onto nanocrystalline minerals. Journal of Colloid and Interface Science, 2015, 457, 298-306.	9.4	8
54	Geochemical Behaviour of Rare Earth Elements in Mining Environments under Non-Acidic Conditions. Procedia Earth and Planetary Science, 2013, 7, 578-581.	0.6	7

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55	Analysis of polydisperse ball-milled fluorite powders using a full pattern technique. Zeitschrift FÃ¼r Kristallographie, Supplement, 2006, 2006, 111-116.	0.5	7
56	An integrated geochemical and mineralogical investigation on soil-plant system of Pinus halepensis pioneer tree growing on heavy metal polluted mine tailing. Plant Biosystems, 2023, 157, 272-285.	1.6	6
57	Trace-element XAFS sensitivity: a stress test for a new XRF multi-detector. Journal of Synchrotron Radiation, 2021, 28, 1811-1819.	2.4	5
58	Biomineralization Processes in Heavily Metal-Polluted Environments. Procedia Earth and Planetary Science, 2013, 7, 199-202.	0.6	4
59	Coagulating and flocculating ferrihydrite: application of zinc acetate salt. Environmental Science: Water Research and Technology, 2020, 6, 2057-2064.	2.4	4
60	Microbial Diversity of Bacteria Involved in Biomineralization Processes in Mine-Impacted Freshwaters. Frontiers in Microbiology, 2021, 12, 778199.	3.5	4
61	Isotopic Insights into Biological Regulation of Zinc in Contaminated Systems. Procedia Earth and Planetary Science, 2015, 13, 60-63.	0.6	3
62	Synchrotron Radiation and Environmental Sciences. , 2015, , 661-676.		3
63	Historical mine pollution and environmental resilience: biomineralization processes and biogeochemical barriers. E3S Web of Conferences, 2019, 98, 01010.	0.5	1
64	Chemical data on environmental matrices from an abandoned mining site. Data in Brief, 2019, 23, 103801.	1.0	1
65	Geochemical and mineralogical datasets on waters and stream precipitates from an abandoned mining site: Montevecchio-Ingurtosu district, Rio Irvi (SW Sardinia). Data in Brief, 2019, 24, 103951.	1.0	1
66	Data on rare earth elements in mining environments under non-acidic conditions. Data in Brief, 2019, 22, 836-850.	1.0	0
67	Zn Distribution and Chemical Speciation in Marine Biominerals: An Example on Bivalve and Foraminifera Shells from Polluted Sites. Springer Proceedings in Physics, 2021, , 125-140.	0.2	0