

Maurizio Barbieri

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

1,948
citations

26
h-index

42
g-index

94
ext. papers

2,406
ext. citations

3.2
avg, IF

5.65
L-index

#	Paper	IF	Citations
80	The Importance of Enrichment Factor (EF) and Geoaccumulation Index (Igeo) to Evaluate the Soil Contamination. <i>Journal of Geology & Geophysics</i> , 2016 , 5,	1.5	231
79	Cadmium-inducible expression of the ABC-type transporter AtABCC3 increases phytochelatin-mediated cadmium tolerance in Arabidopsis. <i>Journal of Experimental Botany</i> , 2015 , 66, 3815-29	7	167
78	Stable isotope (2H , 18O and $87\text{Sr}/86\text{Sr}$) and hydrochemistry monitoring for groundwater hydrodynamics analysis in a karst aquifer (Gran Sasso, Central Italy). <i>Applied Geochemistry</i> , 2005 , 20, 2063-2081	3.5	149
77	New chemical and original isotopic data on waters from El Tatio geothermal field, northern Chile. <i>Geochemical Journal</i> , 2005 , 39, 547-571	0.9	88
76	Hydrogeochemical changes before and during the 2016 Amatrice-Norcia seismic sequence (central Italy). <i>Scientific Reports</i> , 2017 , 7, 11735	4.9	69
75	Overexpression of AtPCS1 in tobacco increases arsenic and arsenic plus cadmium accumulation and detoxification. <i>Planta</i> , 2016 , 243, 605-22	4.7	62
74	Fault zone structure and fluid-rock interaction of a high angle normal fault in Carrara marble (NW Tuscany, Italy). <i>Journal of Structural Geology</i> , 2010 , 32, 1334-1348	3	56
73	The Bagni di Lucca thermal waters (Tuscany, Italy): an example of Ca-SO ₄ waters with high Na/Cl and low Ca/SO ₄ ratios. <i>Journal of Hydrology</i> , 2005 , 307, 270-293	6	53
72	Soil control of trace metals concentrations in landfills: A case study of the largest landfill in Europe, Malagrotta, Rome. <i>Journal of Geochemical Exploration</i> , 2014 , 143, 146-154	3.8	51
71	New and past geochemical data on fresh to brine waters of the Salar de Atacama and Andean Altiplano, northern Chile. <i>Geofluids</i> , 2007 , 7, 33-50	1.5	50
70	Groundwater mixing in the discharge area of San Vittorino Plain (Central Italy): geochemical characterization and implication for drinking uses. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	41
69	Gadolinium as an Emerging Microcontaminant in Water Resources: Threats and Opportunities. <i>Geosciences (Switzerland)</i> , 2019 , 9, 93	2.7	40
68	Soil pollution: Anthropogenic versus geogenic contributions over large areas of the Lazio region. <i>Journal of Geochemical Exploration</i> , 2018 , 195, 78-86	3.8	38
67	Badlands denudation hot spots—The role of parent material properties on geomorphic processes in 20-years monitored sites of Southern Tuscany (Italy). <i>Catena</i> , 2013 , 106, 31-41	5.8	36
66	Assessment of groundwater quality in the buffer zone of Limpopo National Park, Gaza Province, Southern Mozambique. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 62-77	5.1	35
65	Stratigraphy and strontium geochemistry of Messinian evaporite-bearing successions of the southern Apennines foredeep, Italy: implications for the Mediterranean salinity crisis and regional palaeogeography. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005 , 217, 87-114	2.9	34
64	Hydrogeochemistry and strontium isotopes of spring and mineral waters from Monte Vulture volcano, Italy. <i>Applied Geochemistry</i> , 2003 , 18, 117-125	3.5	33

63	Application of boron and tritium isotopes for tracing landfill contamination in groundwater. <i>Journal of Geochemical Exploration</i> , 2017 , 172, 101-108	3.8	32
62	Human alteration of groundwater-surface water interactions (Sagittario River, Central Italy): implication for flow regime, contaminant fate and invertebrate response. <i>Environmental Earth Sciences</i> , 2014 , 71, 1791-1807	2.9	32
61	The morphogenic responses and phytochelatin complexes induced by arsenic in <i>Pteris vittata</i> change in the presence of cadmium. <i>Environmental and Experimental Botany</i> , 2017 , 133, 176-187	5.9	29
60	Application of isotopic and geochemical tools for the evaluation of nitrogen cycling in an agricultural basin, the Fucino Plain, Central Italy. <i>Journal of Hydrology</i> , 2009 , 372, 124-135	6	27
59	Hydrogeology of thermal waters in Viterbo area, central Italy. <i>Hydrogeology Journal</i> , 2006 , 14, 1508-1521	3.1	27
58	Origin and distribution of strontium in the travertines of Latium (central Italy). <i>Chemical Geology</i> , 1979 , 24, 181-188	4.2	26
57	Potential toxic elements in groundwater and their health risk assessment in drinking water of Limpopo National Park, Gaza Province, Southern Mozambique. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 2733-2745	4.7	26
56	Hydrodynamic and isotopic investigations for evaluating the mechanisms and amount of groundwater seepage through a rockslide dam. <i>Hydrological Processes</i> , 2010 , 24, 3510-3520	3.3	24
55	Geochemical changes at the Bagni di Triponzo thermal spring during the Umbria-Marche 1997-1998 seismic sequence. <i>Journal of Seismology</i> , 2000 , 4, 567-587	1.5	22
54	The chemistry and isotopic composition of waters in the low-enthalpy geothermal system of Cimino-Vico Volcanic District, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 328, 222-229	2.8	22
53	A stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountains-Viterbo area, central Italy. <i>Hydrogeology Journal</i> , 2010 , 18, 1319-1341	3.1	21
52	Analysis of Rainfall Trends and Extreme Precipitation in the Middle Adriatic Side, Marche Region (Central Italy). <i>Water (Switzerland)</i> , 2019 , 11, 1948	3	19
51	Preliminary Data Validation and Reconstruction of Temperature and Precipitation in Central Italy. <i>Geosciences (Switzerland)</i> , 2018 , 8, 202	2.7	19
50	Diurnal and Semidiurnal Cyclicity of Radon (²²² Rn) in Groundwater, Giardino Spring, Central Apennines, Italy. <i>Water (Switzerland)</i> , 2018 , 10, 1276	3	17
49	Metals detected by ICP/MS in wound tissue of war injuries without fragments in Gaza. <i>BMC International Health and Human Rights</i> , 2010 , 10, 17	2.5	15
48	Tracing deep fluid source contribution to groundwater in an active seismic area (central Italy): A combined geothermometric and isotopic ($\delta^{13}C$) perspective. <i>Journal of Hydrology</i> , 2020 , 582, 124495	6	15
47	Corrosion behavior of dental implants immersed into human saliva: preliminary results of an in vitro study. <i>European Review for Medical and Pharmacological Sciences</i> , 2017 , 21, 3543-3548	2.9	15
46	Climatic Variations in Macerata Province (Central Italy). <i>Water (Switzerland)</i> , 2018 , 10, 1104	3	14

45	Strontium geochemistry in the epithermal barite deposits from the Apuan Alps (northern Tuscany, Italy). <i>Chemical Geology</i> , 1982 , 35, 351-356	4.2	13
44	Waters from the Djiboutian Afar: A Review of Strontium Isotopic Composition and a Comparison with Ethiopian Waters and Red Sea Brines. <i>Water (Switzerland)</i> , 2018 , 10, 1700	3	13
43	Analysis of extreme precipitation indices in the Marche region (central Italy), combined with the assessment of energy implications and hydrogeological risk. <i>Energy Reports</i> , 2020 , 6, 804-810	4.6	12
42	Water Quality in the Gaza Strip: The Present Scenario. <i>Journal of Water Resource and Protection</i> , 2013 , 05, 54-63	0.7	11
41	Low enthalpy Na-chloride waters from the Lunigiana and Garfagnana grabens, Northern Apennines, Italy: Tracing fluid connections and basement interactions via chemical and isotopic compositions. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 348, 12-25	2.8	10
40	Multicomponent Geothermometry Applied to a Medium-low Enthalpy Carbonate-evaporite Geothermal Reservoir. <i>Energy Procedia</i> , 2014 , 59, 359-365	2.3	9
39	The groundwaters of Fontevivo (Parma Province, Italy): redox processes and mixing with brine waters. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2007 , 7, 23-40	1.8	9
38	New observations in Central Italy of groundwater responses to the worldwide seismicity. <i>Scientific Reports</i> , 2020 , 10, 17850	4.9	8
37	Changes in groundwater trace element concentrations before seismic and volcanic activities in Iceland during 2010-2018. <i>Science of the Total Environment</i> , 2021 , 793, 148635	10.2	8
36	Strontium Isotope as Tracers of Groundwater Contamination. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 352-355		7
35	CO2 Inflow and Elements Desorption Prior to a Seismic Sequence, Amatrice-Norcia 2016, Italy. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 2303	3.6	7
34	Assessment of arsenic mobility in a shallow aquifer from Bevera Valley Basin (Northern Italy). <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	7
33	The geochemical evolution and management of a coastal wetland system: A case study of the Palo Laziale protected area. <i>Journal of Geochemical Exploration</i> , 2013 , 126-127, 67-77	3.8	7
32	Calculation of Potential Evapotranspiration and Calibration of the Hargreaves Equation Using Geostatistical Methods over the Last 10 Years in Central Italy. <i>Geosciences (Switzerland)</i> , 2021 , 11, 348	2.7	7
31	Boron isotopes and rare earth elements in the groundwater of a landfill site. <i>Journal of Geochemical Exploration</i> , 2018 , 190, 200-206	3.8	6
30	Boron isotopes in groundwater: Evidence from contamination and interaction with terrigenous-evaporitic sequence, east-central Italy. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2018 , 18, 343-350	1.8	6
29	HydroQuakes, central Apennines, Italy: Towards a hydrogeochemical monitoring network for seismic precursors and the hydro-seismo-sensitivity of boron. <i>Journal of Hydrology</i> , 2021 , 598, 125754	6	6
28	Understanding the Origin and Mixing of Deep Fluids in Shallow Aquifers and Possible Implications for Crustal Deformation Studies: San Vittorino Plain, Central Apennines. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1353	2.6	6

27	First groundwater chemical status assessment of the Buna River-Protected Landscape (Albania). <i>Environmental Earth Sciences</i> , 2015 , 74, 6325-6338	2.9	5
26	The relationship between the concentration of rare earth elements in landfill soil and their distribution in the parent material: A case study from Cerreto, Roccasecca, Central Italy. <i>Journal of Geochemical Exploration</i> , 2020 , 213, 106492	3.8	5
25	Chemical and Isotope Monitoring at Lake Albano (Central Italy): Water-rock Interaction and Climate Change Effects. <i>Procedia Earth and Planetary Science</i> , 2013 , 7, 53-56		5
24	Climate change and its effect on groundwater quality. <i>Environmental Geochemistry and Health</i> , 2021 , 1	4.7	5
23	Redox Dependent Arsenic Occurrence and Partitioning in an Industrial Coastal Aquifer: Evidence from High Spatial Resolution Characterization of Groundwater and Sediments. <i>Water (Switzerland)</i> , 2020 , 12, 2932	3	4
22	The role of calcium carbonate in the compressibility of Pliocene lacustrine deposits. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 1999 , 32, 271-289	1.4	4
21	The Importance of Geological Models in Understanding and Predicting the Life Span of Rockslide Dams: The Case of Scanno Lake, Central Italy. <i>Lecture Notes in Earth Sciences</i> , 2011 , 323-345		3
20	Assessment of trace elements natural enrichment in topsoil by some Italian case studies. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	3
19	Trace element contamination in the mine-affected stream sediments of Oued Rarai in north-western Tunisia: a river basin scale assessment. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 4027-4042	4.7	3
18	Application of 2H and 18O Isotopes for Tracing Municipal Solid Waste Landfill Contamination of Groundwater: Two Italian Case Histories. <i>Water (Switzerland)</i> , 2021 , 13, 1065	3	3
17	Monitoring wetland deterioration in a coastal protected area in central Italy: implications for management. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2019 , 4, 1	1.7	3
16	Coastal morphodynamics and environmental assessment of the Special Protection Site of Palude di Torre Flavia (Tyrrhenian Sea, Italy). <i>Environmental Earth Sciences</i> , 2020 , 79, 1	2.9	2
15	Salivary Levels of Titanium, Nickel, Vanadium, and Arsenic in Patients Treated with Dental Implants: A Case-Control Study. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	2
14	Optimization of dissolved Radon monitoring in groundwater to contribute to the evaluation of the seismic activity: an experience in central-southern Italy. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	2
13	Climate and Territorial Suitability for the Vineyards Developed Using GIS Techniques. <i>Advances in Science, Technology and Innovation</i> , 2019 , 11-13	0.3	2
12	Model-based interpretation of hydrogeochemistry and arsenic mobility in a low-enthalpy hydrothermal system. <i>Journal of Geochemical Exploration</i> , 2020 , 214, 106534	3.8	2
11	Reply to comment on A stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountains Viterbo area, central Italy paper published in Hydrogeology Journal (2010) 18:1319-1341, by Ugo Chiocchini, Fabio Castaldi, Maurizio Barbieri, Valeria Eulilli. <i>Hydrogeology Journal</i> , 2011 , 19, 949-952	3.1	1
10	A regional-scale geochemical survey of stream sediment samples in Nappe zone, northern Tunisia: Implications for mineral exploration. <i>Journal of Geochemical Exploration</i> , 2022 , 235, 106956	3.8	1

9	Natural Hazards Coming from Trace Elements Natural Enrichment: The Bevera Valley Basin (Northern Italy) Case History. <i>Advances in Science, Technology and Innovation</i> , 2020 , 33-36	0.3	1
8	Groundwater Monitoring in Regional Discharge Areas Selected as Hydrosensitive to Seismic Activity in Central Italy. <i>Advances in Science, Technology and Innovation</i> , 2020 , 21-25	0.3	1
7	Water Resources Management Under Climate Change Pressure in Limpopo National Park Buffer Zone. <i>Advances in Science, Technology and Innovation</i> , 2021 , 129-132	0.3	1
6	Mineralogical and Chemical Investigations of the Amguid Crater (Algeria): Is there Evidence on an Impact Origin?. <i>Geosciences (Switzerland)</i> , 2020 , 10, 107	2.7	
5	Hydrogeochemical Assesment of Groundwater Quality: A Case Study of a Wetland System in Central Italy. <i>Advances in Science, Technology and Innovation</i> , 2018 , 9-10	0.3	
4	Use of the $^{87}\text{Sr}/^{86}\text{Sr}$ isotopic ratio as an environmental tracer: an example of the application to the Fossil Forest of the Dunarobba (FFD) sedimentary system near Avigliano Umbro (Terni Central Italy). <i>Applied Geochemistry</i> , 2002 , 17, 1543-1550	3.5	
3	Statistical Analysis of Wind to Assess Climate Change (Central Italy). <i>Advances in Science, Technology and Innovation</i> , 2022 , 11-13	0.3	
2	Climate change and groundwater resources availability in the Great Limpopo National Park (Mozambique): the current state of knowledge. <i>Mediterranean Geoscience Reviews</i> , 1	2.1	
1	Effects of Climate Change on Vegetation in the Province of Macerata (Central Italy). <i>Advances in Science, Technology and Innovation</i> , 2021 , 463-474	0.3	