Maurizio Barbieri

List of Publications by Year
in descending order

90	2,894	147726	182361
papers	citations	31 h-index	51 g-index

94	94	94	3423
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Importance of Enrichment Factor (EF) and Geoaccumulation Index (Igeo) to Evaluate the Soil Contamination. Journal of Geology & Geophysics, 2016, 5, .	0.1	384
2	Cadmium-inducible expression of the ABC-type transporter AtABCC3 increases phytochelatin-mediated cadmium tolerance in Arabidopsis. Journal of Experimental Botany, 2015, 66, 3815-3829.	2.4	264
3	Stable isotope (2H, 18O and 87Sr/86Sr) and hydrochemistry monitoring for groundwater hydrodynamics analysis in a karst aquifer (Gran Sasso, Central Italy). Applied Geochemistry, 2005, 20, 2063-2081.	1.4	180
4	New chemical and original isotopic data on waters from El Tatio geothermal field, northern Chile. Geochemical Journal, 2005, 39, 547-571.	0.5	104
5	Hydrogeochemical changes before and during the 2016 Amatrice-Norcia seismic sequence (central) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	99
6	Overexpression of AtPCS1 in tobacco increases arsenic and arsenic plus cadmium accumulation and detoxification. Planta, 2016, 243, 605-622.	1.6	86
7	The new chronology of the Ceprano calvarium (Italy). Journal of Human Evolution, 2010, 59, 580-585.	1.3	70
8	Gadolinium as an Emerging Microcontaminant in Water Resources: Threats and Opportunities. Geosciences (Switzerland), 2019, 9, 93.	1.0	67
9	Fault zone structure and fluidâ€“rock interaction of a high angle normal fault in Carrara marble (NW) Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	66
10	Soil control of trace metals concentrations in landfills: A case study of the largest landfill in Europe, Malagrotta, Rome. Journal of Geochemical Exploration, 2014, 143, 146-154.	1.5	64
11	Potential toxic elements in groundwater and their health risk assessment in drinking water of Limpopo National Park, Gaza Province, Southern Mozambique. Environmental Geochemistry and Health, 2020, 42, 2733-2745.	1.8	64
12	The Bagni di Lucca thermal waters (Tuscany, Italy): an example of Ca-SO4 waters with high Na/Cl and low Ca/SO4 ratios. Journal of Hydrology, 2005, 307, 270-293.	2.3	61
13	Climate change and its effect on groundwater quality. Environmental Geochemistry and Health, 2023, 45, 1133-1144.	1.8	60
14	Assessment of groundwater quality in the buffer zone of Limpopo National Park, Gaza Province, Southern Mozambique. Environmental Science and Pollution Research, 2019, 26, 62-77.	2.7	56
15	New and past geochemical data on fresh to brine waters of the Salar de Atacama and Andean Altiplano, northern Chile. Geofluids, 2007, 7, 33-50.	0.3	55
16	Isotopes in Hydrology and Hydrogeology. Water (Switzerland), 2019, 11, 291.	1.2	54
17	Soil pollution: Anthropogenic versus geogenic contributions over large areas of the Lazio region. Journal of Geochemical Exploration, 2018, 195, 78-86.	1.5	49
18	Application of boron and tritium isotopes for tracing landfill contamination in groundwater. Journal of Geochemical Exploration, 2017, 172, 101-108.	1.5	48

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19	Groundwater mixing in the discharge area of San Vittorino Plain (Central Italy): geochemical characterization and implication for drinking uses. Environmental Earth Sciences, 2017, 76, 1.	1.3	45
20	Badlands denudation â€œhot spotsâ€• The role of parent material properties on geomorphic processes in 20-years monitored sites of Southern Tuscany (Italy). Catena, 2013, 106, 31-41.	2.2	44
21	Human alteration of groundwaterâ€“surface water interactions (Sagittario River, Central Italy): implication for flow regime, contaminant fate and invertebrate response. Environmental Earth Sciences, 2014, 71, 1791-1807.	1.3	41
22	Hydrogeochemistry and strontium isotopes of spring and mineral waters from Monte Vulture volcano, Italy. Applied Geochemistry, 2003, 18, 117-125.	1.4	39
23	Stratigraphy and strontium geochemistry of Messinian evaporite-bearing successions of the southern Apennines foredeep, Italy: implications for the Mediterranean â€œsalinity crisisâ€•and regional palaeogeography. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 217, 87-114.	1.0	37
24	Analysis of Rainfall Trends and Extreme Precipitation in the Middle Adriatic Side, Marche Region (Central Italy). Water (Switzerland), 2019, 11, 1948.	1.2	35
25	Application of isotopic and geochemical tools for the evaluation of nitrogen cycling in an agricultural basin, the Fucino Plain, Central Italy. Journal of Hydrology, 2009, 372, 124-135.	2.3	34
26	The chemistry and isotopic composition of waters in the low-enthalpy geothermal system of Cimino-Vico Volcanic District, Italy. Journal of Volcanology and Geothermal Research, 2016, 328, 222-229.	0.8	34
27	The morphogenic responses and phytochelatin complexes induced by arsenic in Pteris vittata change in the presence of cadmium. Environmental and Experimental Botany, 2017, 133, 176-187.	2.0	34
28	A stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountainsâ€“Viterbo area, central Italy. Hydrogeology Journal, 2010, 18, 1319-1341.	0.9	33
29	Origin and distribution of strontium in the travertines of Latium (central Italy). Chemical Geology, 1979, 24, 181-188.	1.4	32
30	Hydrogeology of thermal waters in Viterbo area, central Italy. Hydrogeology Journal, 2006, 14, 1508-1521.	0.9	32
31	Hydrodynamic and isotopic investigations for evaluating the mechanisms and amount of groundwater seepage through a rockslide dam. Hydrological Processes, 2010, 24, 3510-3520.	1.1	32
32	Title is missing!. Journal of Seismology, 2000, 4, 567-587.	0.6	30
33	Preliminary Data Validation and Reconstruction of Temperature and Precipitation in Central Italy. Geosciences (Switzerland), 2018, 8, 202.	1.0	30
34	CO₂ Inflow and Elements Desorption Prior to a Seismic Sequence, Amatriceâ€•Norcia 2016, Italy. Geochemistry, Geophysics, Geosystems, 2019, 20, 2303-2317.	1.0	26
35	Tracing deep fluid source contribution to groundwater in an active seismic area (central Italy): A combined geothermometric and isotopic (΄13C) perspective. Journal of Hydrology, 2020, 582, 124495.	2.3	25
36	Waters from the Djiboutian Afar: A Review of Strontium Isotopic Composition and a Comparison with Ethiopian Waters and Red Sea Brines. Water (Switzerland), 2018, 10, 1700.	1.2	23

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37	Diurnal and Semidiurnal Cyclicity of Radon (222Rn) in Groundwater, Giardino Spring, Central Apennines, Italy. Water (Switzerland), 2018, 10, 1276.	1.2	23
38	Changes in groundwater trace element concentrations before seismic and volcanic activities in Iceland during 2010â€“2018. Science of the Total Environment, 2021, 793, 148635.	3.9	20
39	Reliability of the IMERG product through reference rain gauges in Central Italy. Atmospheric Research, 2022, 278, 106340.	1.8	20
40	Boron isotopes and rare earth elements in the groundwater of a landfill site. Journal of Geochemical Exploration, 2018, 190, 200-206.	1.5	19
41	Climatic Variations in Macerata Province (Central Italy). Water (Switzerland), 2018, 10, 1104.	1.2	19
42	Trace element contamination in the mine-affected stream sediments of Oued Rarai in north-western Tunisia: a river basin scale assessment. Environmental Geochemistry and Health, 2021, 43, 4027-4042.	1.8	19
43	Calculation of Potential Evapotranspiration and Calibration of the Hargreaves Equation Using Geostatistical Methods over the Last 10 Years in Central Italy. Geosciences (Switzerland), 2021, 11, 348.	1.0	19
44	Strontium geochemistry in the epithermal barite deposits from the Apuan Alps (northern Tuscany,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	17
45	Metals detected by ICP/MS in wound tissue of war injuries without fragments in Gaza. BMC International Health and Human Rights, 2010, 10, 17.	2.5	17
46	Analysis of extreme precipitation indices in the Marche region (central Italy), combined with the assessment of energy implications and hydrogeological risk. Energy Reports, 2020, 6, 804-810.	2.5	17
47	Corrosion behavior of dental implants immersed into human saliva: preliminary results of an in vitro study. European Review for Medical and Pharmacological Sciences, 2017, 21, 3543-3548.	0.5	16
48	New observations in Central Italy of groundwater responses to the worldwide seismicity. Scientific Reports, 2020, 10, 17850.	1.6	15
49	Water Quality in the Gaza Strip: The Present Scenario. Journal of Water Resource and Protection, 2013, 05, 54-63.	0.3	15
50	A regional-scale geochemical survey of stream sediment samples in Nappe zone, northern Tunisia: Implications for mineral exploration. Journal of Geochemical Exploration, 2022, 235, 106956.	1.5	15
51	Understanding the Origin and Mixing of Deep Fluids in Shallow Aquifers and Possible Implications for Crustal Deformation Studies: San Vittorino Plain, Central Apennines. Applied Sciences (Switzerland), 2021, 11, 1353.	1.3	14
52	Strontium Isotope as Tracers of Groundwater Contamination. Procedia Earth and Planetary Science, 2017, 17, 352-355.	0.6	13
53	HydroQuakes, central Apennines, Italy: Towards a hydrogeochemical monitoring network for seismic precursors and the hydro-seismo-sensitivity of boron. Journal of Hydrology, 2021, 598, 125754.	2.3	13
54	Redox Dependent Arsenic Occurrence and Partitioning in an Industrial Coastal Aquifer: Evidence from High Spatial Resolution Characterization of Groundwater and Sediments. Water (Switzerland), 2020, 12, 2932.	1.2	12

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55	Application of 2H and 18O Isotopes for Tracing Municipal Solid Waste Landfill Contamination of Groundwater: Two Italian Case Histories. Water (Switzerland), 2021, 13, 1065.	1.2	12
56	Multicomponent Geothermometry Applied to a Medium-low Enthalpy Carbonate-evaporite Geothermal Reservoir. Energy Procedia, 2014, 59, 359-365.	1.8	11
57	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. Journal of Volcanology and Geothermal Research, 2017, 348, 12-25.	0.8	11
58	The groundwaters of Fontevivo (Parma Province, Italy): redox processes and mixing with brine waters. Geochemistry: Exploration, Environment, Analysis, 2007, 7, 23-40.	0.5	9
59	Boron isotopes in groundwater: Evidence from contamination and interaction with terrigenousâ€“evaporitic sequence, east-central Italy. Geochemistry: Exploration, Environment, Analysis, 2018, 18, 343-350.	0.5	9
60	Assessment of arsenic mobility in a shallow aquifer from Bevera Valley Basin (Northern Italy). Arabian Journal of Geosciences, 2019, 12, 1.	0.6	9
61	Assessment of trace elements natural enrichment in topsoil by some Italian case studies. SN Applied Sciences, 2020, 2, 1.	1.5	9
62	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. Journal of Geochemical Exploration, 2020, 213, 106492.	1.5	9
63	The geochemical evolution and management of a coastal wetland system: A case study of the Palo Laziale protected area. Journal of Geochemical Exploration, 2013, 126-127, 67-77.	1.5	7
64	Salivary Levels of Titanium, Nickel, Vanadium, and Arsenic in Patients Treated with Dental Implants: A Case-Control Study. Journal of Clinical Medicine, 2020, 9, 1264.	1.0	7
65	In situ arsenic immobilisation for coastal aquifers using stimulated iron cycling: Lab-based viability assessment. Applied Geochemistry, 2022, 136, 105155.	1.4	7
66	Chemical and Isotope Monitoring at Lake Albano (Central Italy): Water-rock Interaction and Climate Change Effects. Procedia Earth and Planetary Science, 2013, 7, 53-56.	0.6	5
67	First groundwater chemical status assessment of the Buna River-Protected Landscape (Albania). Environmental Earth Sciences, 2015, 74, 6325-6338.	1.3	5
68	Climate and Territorial Suitability for the Vineyards Developed Using GIS Techniques. Advances in Science, Technology and Innovation, 2019, , 11-13.	0.2	5
69	The role of calcium carbonate in the compressibility of Pliocene lacustrine deposits. Quarterly Journal of Engineering Geology and Hydrogeology, 1999, 32, 271-289.	0.8	4
70	Monitoring wetland deterioration in a coastal protected area in central Italy: implications for management. Euro-Mediterranean Journal for Environmental Integration, 2019, 4, 1.	0.6	4
71	Optimization of dissolved Radon monitoring in groundwater to contribute to the evaluation of the seismic activity: an experience in central-southern Italy. SN Applied Sciences, 2020, 2, 1.	1.5	4
72	Model-based interpretation of hydrogeochemistry and arsenic mobility in a low-enthalpy hydrothermal system. Journal of Geochemical Exploration, 2020, 214, 106534.	1.5	4

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73	Coastal morphodynamics and environmental assessment of the Special Protection Site of Palude di Torre Flavia (Tyrrhenian Sea, Italy). Environmental Earth Sciences, 2020, 79, 1.	1.3	3
74	Water Resources Management Under Climate Change Pressure in Limpopo National Park Buffer Zone. Advances in Science, Technology and Innovation, 2021, , 129-132.	0.2	3
75	Groundwater Monitoring in Regional Discharge Areas Selected as â€œHydrosensitiveâ€•to Seismic Activity in Central Italy. Advances in Science, Technology and Innovation, 2020, , 21-25.	0.2	2
76	Management and Creation of a New Tourist Route in the National Park of the Sibillini Mountains using GIS Software, for Economic Development. , 2019, , .		2
77	Reply to comment on â€œA stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountainsâ€“Viterbo area, central Italyâ€• paper published in Hydrogeology Journal (2010) 18:1319â€“1341, by Ugo Chiocchini, Fabio Castaldi, Maurizio Barbieri, Valeria Fulilli. Hydrogeology Journal, 2011, 19, 949-952.	0.9	1
78	Natural Hazards Coming from Trace Elements Natural Enrichment: The Bevera Valley Basin (Northern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	1
79	Strontium isotope (87SR/86SR) chemistry in produced oilfield watersThe IEA Weyburn CO2 Monitoring and Storage Project. , 2005, , 2111-2114.		1
80	Hydrogeochemical characterization of Municipal Solid Waste landfill. Rendiconti Online Societa Geologica Italiana, 0, 35, 304-306.	0.3	1
81	GROUNDWATER MANAGEMENT STRATEGY IN LIMPOPO NATIONAL PARK (MOZAMBICO) AIMED TO PRESERVE BIODIVERSITY. , 2016, , .		1
82	Editorial: The society for environmental geochemistry and health (SEGH): 50Âyears and beyond. Environmental Geochemistry and Health, 2022, , 1.	1.8	1
83	Use of the 87Sr/86Sr isotopic ratio as an environmental tracer: an example of the application to the Fossil Forest of the Dunarobba (FFD) sedimentary system near Aviglano Umbro (Terniâ€”Central Italy). Applied Geochemistry, 2002, 17, 1543-1550.	1.4	0
84	Hydrogeochemical Assesment of Groundwater Quality: A Case Study of a Wetland System in Central Italy. Advances in Science, Technology and Innovation, 2018, , 9-10.	0.2	0
85	Mineralogical and Chemical Investigations of the Amguid Crater (Algeria): Is there Evidence on an Impact Origin?. Geosciences (Switzerland), 2020, 10, 107.	1.0	0
86	Effects of Climate Change on Vegetation in the Province of Macerata (Central Italy). Advances in Science, Technology and Innovation, 2021, , 463-474.	0.2	0
87	Water resources and water management for environmental integration in the Euro-Mediterranean region. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	0
88	Climate change and groundwater resources availability in the Great Limpopo National Park (Mozambique): the current state of knowledge. Mediterranean Geoscience Reviews, 0, , 1.	0.6	0
89	THE HUMAN IMPACT ON THE NATURAL ENVIRONMENT: ELEMENTAL GEOCHEMISTRY OF A MSW LANDFILL AS A TOOL TO TRACE CHANGES IN ECOSYSTEM PROCESSES. , 2014, , .		0
90	INTEGRATED GROUNDWATER CHARACTERIZATION FOR BIODIVERSITY PROTECTION IN LIMPOPO NATIONAL PARK (MOZAMBICO). , 2017, , .		0