Giancarlo Ciotoli

List of Publications by Year
in descending order

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61 papers	2,062 citations	293460 24 h-index	274796 44 g-index
71 all docs	71 docs citations	71 times ranked	2484 citing authors

#	Article	IF	Citations
1	Monte Carlo simulations to assess the uncertainty of locating and quantifying CO2 leakage flux from deep geological or anthropogenic sources. Stochastic Environmental Research and Risk Assessment, 2022, 36, 609-627.	1.9	4
2	The assessment of local geological factors for the construction of a Geogenic Radon Potential map using regression kriging. A case study from the Euganean Hills volcanic district (Italy). Science of the Total Environment, 2022, 808, 152064.	3.9	16
3	Radon Hazard in Central Italy: Comparison among Areas with Different Geogenic Radon Potential. International Journal of Environmental Research and Public Health, 2022, 19, 666.	1.2	17
4	Geological hazard assessment of the coastal area of Rome (Central Italy) from multi-source data integration. Engineering Geology, 2022, 297, 106527.	2.9	4
5	Geospatial analysis for fish farming across Tyrrhenian coast (Tuscany, central Italy). Ocean and Coastal Management, 2022, 226, 106261.	2.0	3
6	Influence of tectonics on global scale distribution of geological methane emissions. Nature Communications, 2020, 11, 2305.	5.8	19
7	Development of a Geogenic Radon Hazard Indexâ€"Concept, History, Experiences. International Journal of Environmental Research and Public Health, 2020, 17, 4134.	1.2	40
8	Increased methane emission from natural gas seepage at Katakolo Harbour (Western Greece). Applied Geochemistry, 2020, 116, 104578.	1.4	1
9	Mapping the geogenic radon potential and radon risk by using Empirical Bayesian Kriging regression: A case study from a volcanic area of central Italy. Science of the Total Environment, 2019, 661, 449-464.	3.9	68
10	Sediment-hosted geothermal systems: Review and first global mapping. Earth-Science Reviews, 2019, 192, 529-544.	4.0	39
11	Gridded maps of geological methane emissions and their isotopic signature. Earth System Science Data, 2019, 11, 1-22.	3.7	102
12	Do moderate magnitude earthquakes generate seismically induced ground effects? The case study of the M wÂ=Â5.16, 29th December 2013 Matese earthquake (southern Apennines, Italy). International Journal of Earth Sciences, 2018, 107, 517-537.	0.9	12
13	Assessing mantle versus crustal sources for non-volcanic degassing along fault zones in the actively extending southern Apennines mountain belt (Italy). Bulletin of the Geological Society of America, 2018, 130, 1697-1722.	1.6	26
14	Coeval Uplift and Subsidence Reveal Magma Recharging Near Rome (Italy). Geochemistry, Geophysics, Geosystems, 2018, 19, 1484-1498.	1.0	16
15	A GIS-based procedure for preliminary mapping of pluvial flood risk at metropolitan scale. Environmental Modelling and Software, 2018, 107, 64-84.	1.9	25
16	Geographically weighted regression and geostatistical techniques to construct the geogenic radon potential map of the Lazio region: A methodological proposal for the European Atlas of Natural Radiation. Journal of Environmental Radioactivity, 2017, 166, 355-375.	0.9	66
17	Continuous Monitoring of Natural CO2 Emissions Near Rome â€“ Lessons for Low-level CO2 Leakage Detection. Energy Procedia, 2017, 114, 3824-3831.	1.8	5
18	Pluvial flood hazard in the city of Rome (Italy). Journal of Maps, 2017, 13, 545-553.	1.0	22

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19	Tiber delta CO₂â€CH₄ degassing: A possible hybrid, tectonically active SedimentâEHosted Geothermal System near Rome. Journal of Geophysical Research: Solid Earth, 2016, 121, 48-69.	1.4	32
20	Sinkhole susceptibility, Lazio Region, central Italy. Journal of Maps, 2016, 12, 287-294.	1.0	16
21	Groundwater of Rome. Journal of Maps, 2016, 12, 88-93.	1.0	27
22	Distribution and physico-chemical data of Italian bottled natural mineral waters. Journal of Maps, 2016, 12, 917-935.	1.0	12
23	Soil gas geochemical behaviour across buried and exposed faults during the 24 august 2016 central Italy earthquake. Annals of Geophysics, 2016, 59, .	0.5	8
24	The Importance of Baseline Surveys of Near-Surface Gas Geochemistry for CCS Monitoring, as Shown from Onshore Case Studies in Northern and Southern Europe. Oil and Gas Science and Technology, 2015, 70, 615-633.	1.4	24
25	Geostatistical interpolators for the estimation of the geometry of anthropogenic deposits in Rome (Italy) and related physicalâ€“mechanical characterization with implications on geohazard assessment. Environmental Earth Sciences, 2015, 74, 2635-2658.	1.3	14
26	Early stage sinkhole formation in the Acque Albule basin of central Italy from geophysical and geochemical observations. Engineering Geology, 2015, 191, 36-47.	2.9	22
27	Mantle-derived CO2 migration along active faults within an extensional basin margin (Fiumicino,) Tj ETQq1 1 0.784314 rgBT /Overloc	0.9	38
28	Soil gas distribution in the main coseismic surface rupture zone of the 1980, M_sâ€‰=â€‰6.9, Irpinia earthquake (southern Italy). Journal of Geophysical Research: Solid Earth, 2014, 119, 2440-2461.	1.4	38
29	Monitoring of near-surface gas geochemistry at the Weyburn, Canada, CO2-EOR site, 2001â€“2011. International Journal of Greenhouse Gas Control, 2013, 16, S236-S262.	2.3	86
30	A spatial, statistical approach to map the risk of milk contamination by Î²-hexachlorocyclohexane in dairy farms. Geospatial Health, 2013, 8, 77.	0.3	16
31	Sudden deep gas eruption nearby Rome's airport of Fiumicino. Geophysical Research Letters, 2013, 40, 5632-5636.	1.5	27
32	The pedological heritage of the Dolomites (Northern Italy): Features, distribution and evolution of the soils, with some implications for land management. Geomorphology, 2011, 135, 232-247.	1.1	18
33	Seismic interpretation of the Laga basin; constraints on the structural setting and kinematics of the Central Apennines. Journal of the Geological Society, 2011, 168, 179-190.	0.9	50
34	Mapping the Anthropic Backfill of the Historical Center of Rome (Italy) by Using Intrinsic Random Functions of Order k (IRF-k). Lecture Notes in Computer Science, 2011, , 92-102.	1.0	5
35	Uranium and radium in water samples around the Nikola Tesla B lignite-fired power plant - Obrenovac, Serbia. Nuclear Technology and Radiation Protection, 2011, 26, 11-17.	0.3	1
36	Characterization of a C O2 gas vent using various geophysical and geochemical methods. Geophysics, 2010, 75, B137-B146.	1.4	30

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37	New and established techniques for surface gas monitoring at onshore CO2 storage sites. Energy Procedia, 2009, 1, 2127-2134.	1.8	46
38	Development of an innovative marine monitoring system for CO2 leaks: system design and testing. Energy Procedia, 2009, 1, 2333-2340.	1.8	9
39	Field Experience with Soil Gas Mapping Using Japanese Passive Radon/Thoron Discriminative Detectors for Comparing High and Low Radiation Areas in Serbia (Balkan Region). Journal of Radiation Research, 2009, 50, 355-361.	0.8	17
40	Identification and assessment of elevated exposure to natural radiation in Balkan region (Serbia). Radioprotection, 2009, 44, 919-925.	0.5	7
41	A review of natural sinkhole phenomena in Italian plain areas. Natural Hazards, 2008, 45, 145-172.	1.6	73
42	The application of remote-sensing techniques to monitor CO2-storage sites for surface leakage: Method development and testing at Latera (Italy) where naturally produced CO2 is leaking to the atmosphere. International Journal of Greenhouse Gas Control, 2008, 2, 388-400.	2.3	56
43	Gas migration along fault systems and through the vadose zone in the Latera caldera (central Italy): Implications for CO2 geological storage. International Journal of Greenhouse Gas Control, 2008, 2, 353-372.	2.3	179
44	The impact of a naturally occurring CO2 gas vent on the shallow ecosystem and soil chemistry of a Mediterranean pasture (Latera, Italy). International Journal of Greenhouse Gas Control, 2008, 2, 373-387.	2.3	139
45	Natural analogues and test sites for CO2 geological sequestration: experience at Latera, Italy. First Break, 2008, 26, .	0.2	7
46	Sinkholes in Italy: first results on the inventory and analysis. Geological Society Special Publication, 2007, 279, 23-45.	0.8	31
47	Geostatistical analysis of soil gas data in a high seismic intermontane basin: Fucino Plain, central Italy. Journal of Geophysical Research, 2007, 112, .	3.3	93
48	A campaign of discrete radon concentration measurements in soil of NiÅ¡ka Banja town, Serbia. Radiation Measurements, 2007, 42, 1696-1702.	0.7	22
49	NEAR-SURFACE GAS GEOCHEMISTRY TECHNIQUES TO ASSESS AND MONITOR CO2 GEOLOGICAL SEQUESTRATION SITES. , 2006, , 141-156.		9
50	Migration of gas injected into a fault in low-permeability ground. Quarterly Journal of Engineering Geology and Hydrogeology, 2005, 38, 305-320.	0.8	16
51	Potential hazards of CO2 leakage in storage systemsâ€"Learning from natural systems. , 2005, , 551-560.		9
52	Geochemical and geophysical characterization of an active CO2 gas vent near the village of Latera, Central Italy. , 2005, , 2293-2296.		1
53	Allaying public concern regarding CO2 geological sequestration through the development of automated stations for the continuous geochemical monitoring of gases in the near surface environment. , 2005, , 2273-2277.		1
54	A multidisciplinary, statistical approach to study the relationships between helium leakage and neotectonic activity in a gas province: The Vasto basin, Abruzzo-Molise (central Italy). AAPG Bulletin, 2004, 88, 355-372.	0.7	21

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55	Carbon dioxide and radon gas hazard in the Alban Hills area (central Italy). Journal of Volcanology and Geothermal Research, 2003, 123, 63-80.	0.8	95
56	Short- and long-term gas hazard: the release of toxic gases in the Alban Hills volcanic area (central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	49
57	Morphological and geochemical evidence of neotectonics in the volcanic area of Monti Vulsini (Latium, Italy). Quaternary International, 2003, 101-102, 103-113.	0.7	20
58	AN ASSESSMENT OF GAS EMANATION HAZARD USING A GEOGRAPHIC INFORMATION SYSTEM AND GEOSTATISTICS. Health Physics, 2002, 82, 358-366.	0.3	9
59	The detection of concealed faults in the Ofanto Basin using the correlation between soil-gas fracture surveys. Tectonophysics, 1999, 301, 321-332.	0.9	93
60	Soil gas survey for tracing seismogenic faults: A case study in the Fucino Basin, central Italy. Journal of Geophysical Research, 1998, 103, 23781-23794.	3.3	99
61	Comparison of radon mapping methods for the delineation of radon priority areas â€“ an exercise. Journal of the European Radon Association, 0, , .	0.0	6