

# Giancarlo Ciotoli

## List of Publications by Year in descending order

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61  
papers

2,062  
citations

257357

24  
h-index

243529

44  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas migration along fault systems and through the vadose zone in the Latera caldera (central Italy): Implications for CO <sub>2</sub> geological storage. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 353-372.	2.3	179
2	The impact of a naturally occurring CO <sub>2</sub> gas vent on the shallow ecosystem and soil chemistry of a Mediterranean pasture (Latera, Italy). <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 373-387.	2.3	139
3	Gridded maps of geological methane emissions and their isotopic signature. <i>Earth System Science Data</i> , 2019, 11, 1-22.	3.7	102
4	Soil gas survey for tracing seismogenic faults: A case study in the Fucino Basin, central Italy. <i>Journal of Geophysical Research</i> , 1998, 103, 23781-23794.	3.3	99
5	Carbon dioxide and radon gas hazard in the Alban Hills area (central Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2003, 123, 63-80.	0.8	95
6	The detection of concealed faults in the Ofanto Basin using the correlation between soil-gas fracture surveys. <i>Tectonophysics</i> , 1999, 301, 321-332.	0.9	93
7	Geostatistical analysis of soil gas data in a high seismic intermontane basin: Fucino Plain, central Italy. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
8	Monitoring of near-surface gas geochemistry at the Weyburn, Canada, CO <sub>2</sub> -EOR site, 2001-2011. <i>International Journal of Greenhouse Gas Control</i> , 2013, 16, S236-S262.	2.3	86
9	A review of natural sinkhole phenomena in Italian plain areas. <i>Natural Hazards</i> , 2008, 45, 145-172.	1.6	73
10	Mapping the geogenic radon potential and radon risk by using Empirical Bayesian Kriging regression: A case study from a volcanic area of central Italy. <i>Science of the Total Environment</i> , 2019, 661, 449-464.	3.9	68
11	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. <i>Journal of Environmental Radioactivity</i> , 2017, 166, 355-375.	0.9	66
12	The application of remote-sensing techniques to monitor CO <sub>2</sub> -storage sites for surface leakage: Method development and testing at Latera (Italy) where naturally produced CO <sub>2</sub> is leaking to the atmosphere. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 388-400.	2.3	56
13	Seismic interpretation of the Laga basin; constraints on the structural setting and kinematics of the Central Apennines. <i>Journal of the Geological Society</i> , 2011, 168, 179-190.	0.9	50
14	Short- and long-term gas hazard: the release of toxic gases in the Alban Hills volcanic area (central Italy). <i>Journal of Environmental Radioactivity</i> , 2010, 151, 10-19.	1.5	49
15	New and established techniques for surface gas monitoring at onshore CO <sub>2</sub> storage sites. <i>Energy Procedia</i> , 2009, 1, 2127-2134.	1.8	46
16	Development of a Geogenic Radon Hazard Index: Concept, History, Experiences. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4134.	1.2	40
17	Sediment-hosted geothermal systems: Review and first global mapping. <i>Earth-Science Reviews</i> , 2019, 192, 529-544.	4.0	39
18	Mantle-derived CO <sub>2</sub> migration along active faults within an extensional basin margin (Fiumicino, central Italy). <i>Journal of Environmental Radioactivity</i> , 2010, 151, 50-59.	0.9	38

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19	Soil gas distribution in the main coseismic surface rupture zone of the 1980, <i>M<sub>s</sub> 6.9, Irpinia earthquake (southern Italy)</i> . <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2440-2461.	1.4	38
20	Tiber delta CO <sub>2</sub> degassing: A possible hybrid, tectonically active Sediment-Hosted Geothermal System near Rome. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 48-69.	1.4	32
21	Sinkholes in Italy: first results on the inventory and analysis. <i>Geological Society Special Publication</i> , 2007, 279, 23-45.	0.8	31
22	Characterization of a CO <sub>2</sub> gas vent using various geophysical and geochemical methods. <i>Geophysics</i> , 2010, 75, B137-B146.	1.4	30
23	Sudden deep gas eruption nearby Rome's airport of Fiumicino. <i>Geophysical Research Letters</i> , 2013, 40, 5632-5636.	1.5	27
24	Groundwater of Rome. <i>Journal of Maps</i> , 2016, 12, 88-93.	1.0	27
25	Assessing mantle versus crustal sources for non-volcanic degassing along fault zones in the actively extending southern Apennines mountain belt (Italy). <i>Bulletin of the Geological Society of America</i> , 2018, 130, 1697-1722.	1.6	26
26	A GIS-based procedure for preliminary mapping of pluvial flood risk at metropolitan scale. <i>Environmental Modelling and Software</i> , 2018, 107, 64-84.	1.9	25
27	The Importance of Baseline Surveys of Near-Surface Gas Geochemistry for CCS Monitoring, as Shown from Onshore Case Studies in Northern and Southern Europe. <i>Oil and Gas Science and Technology</i> , 2015, 70, 615-633.	1.4	24
28	A campaign of discrete radon concentration measurements in soil of NiÅžka Banja town, Serbia. <i>Radiation Measurements</i> , 2007, 42, 1696-1702.	0.7	22
29	Early stage sinkhole formation in the Acque Albule basin of central Italy from geophysical and geochemical observations. <i>Engineering Geology</i> , 2015, 191, 36-47.	2.9	22
30	Pluvial flood hazard in the city of Rome (Italy). <i>Journal of Maps</i> , 2017, 13, 545-553.	1.0	22
31	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). <i>AAPG Bulletin</i> , 2004, 88, 355-372.	0.7	21
32	Morphological and geochemical evidence of neotectonics in the volcanic area of Monti Vulsini (Latium, Italy). <i>Quaternary International</i> , 2003, 101-102, 103-113.	0.7	20
33	Influence of tectonics on global scale distribution of geological methane emissions. <i>Nature Communications</i> , 2020, 11, 2305.	5.8	19
34	The pedological heritage of the Dolomites (Northern Italy): Features, distribution and evolution of the soils, with some implications for land management. <i>Geomorphology</i> , 2011, 135, 232-247.	1.1	18
35	Field Experience with Soil Gas Mapping Using Japanese Passive Radon/Thoron Discriminative Detectors for Comparing High and Low Radiation Areas in Serbia (Balkan Region). <i>Journal of Radiation Research</i> , 2009, 50, 355-361.	0.8	17
36	Radon Hazard in Central Italy: Comparison among Areas with Different Geogenic Radon Potential. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 666.	1.2	17

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37	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
38	A spatial, statistical approach to map the risk of milk contamination by $\hat{1}^2$ -hexachlorocyclohexane in dairy farms. Geospatial Health, 2013, 8, 77.	0.3	16
39	Sinkhole susceptibility, Lazio Region, central Italy. Journal of Maps, 2016, 12, 287-294.	1.0	16
40	Coeval Uplift and Subsidence Reveal Magma Recharging Near Rome (Italy). Geochemistry, Geophysics, Geosystems, 2018, 19, 1484-1498.	1.0	16
41	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
42	Geostatistical interpolators for the estimation of the geometry of anthropogenic deposits in Rome (Italy) and related physical-mechanical characterization with implications on geohazard assessment. Environmental Earth Sciences, 2015, 74, 2635-2658.	1.3	14
43	Distribution and physico-chemical data of Italian bottled natural mineral waters. Journal of Maps, 2016, 12, 917-935.	1.0	12
44	Do moderate magnitude earthquakes generate seismically induced ground effects? The case study of the M $w=5.16$ , 29th December 2013 Matese earthquake (southern Apennines, Italy). International Journal of Earth Sciences, 2018, 107, 517-537.	0.9	12
45	AN ASSESSMENT OF GAS EMANATION HAZARD USING A GEOGRAPHIC INFORMATION SYSTEM AND GEOSTATISTICS. Health Physics, 2002, 82, 358-366.	0.3	9
46	Development of an innovative marine monitoring system for CO <sub>2</sub> leaks: system design and testing. Energy Procedia, 2009, 1, 2333-2340.	1.8	9
47	NEAR-SURFACE GAS GEOCHEMISTRY TECHNIQUES TO ASSESS AND MONITOR CO <sub>2</sub> GEOLOGICAL SEQUESTRATION SITES. , 2006, , 141-156.		9
48	Potential hazards of CO <sub>2</sub> leakage in storage systems"Learning from natural systems. , 2005, , 551-560.		9
49	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
50	Identification and assessment of elevated exposure to natural radiation in Balkan region (Serbia). Radioprotection, 2009, 44, 919-925.	0.5	7
51	Natural analogues and test sites for CO <sub>2</sub> geological sequestration: experience at Latera, Italy. First Break, 2008, 26, .	0.2	7
52	Comparison of radon mapping methods for the delineation of radon priority areas "an exercise. Journal of the European Radon Association, 0, , .	0.0	6
53	Continuous Monitoring of Natural CO <sub>2</sub> Emissions Near Rome " Lessons for Low-level CO <sub>2</sub> Leakage Detection. Energy Procedia, 2017, 114, 3824-3831.	1.8	5
54	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

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55	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
56	Geological hazard assessment of the coastal area of Rome (Central Italy) from multi-source data integration. Engineering Geology, 2022, 297, 106527.	2.9	4
57	Geospatial analysis for fish farming across Tyrrhenian coast (Tuscany, central Italy). Ocean and Coastal Management, 2022, 226, 106261.	2.0	3
58	Increased methane emission from natural gas seepage at Katakolo Harbour (Western Greece). Applied Geochemistry, 2020, 116, 104578.	1.4	1
59	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
60	Geochemical and geophysical characterization of an active CO2 gas vent near the village of Latera, Central Italy. , 2005, , 2293-2296.		1
61	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