

# Giuseppe De Natale

## List of Publications by Year in descending order

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98  
papers

3,335  
citations

109264

35  
h-index

168321

53  
g-index

114  
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114  
docs citations

114  
times ranked

2298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Recent Drilling Projects in Unconventional Geothermal Resources at Campi Flegrei Caldera, Cornubian Batholith, and Williston Sedimentary Basin. <i>Energies</i> , 2021, 14, 3306.	1.6	6
2	The first application of compositional data analysis (CoDA) in a multivariate perspective for detection of pollution source in sea sediments: The Pozzuoli Bay (Italy) case study. <i>Chemosphere</i> , 2021, 274, 129955.	4.2	36
3	Time-Lapse Landform Monitoring in the Pisciarelli (Campi Flegrei-Italy) Fumarole Field Using UAV Photogrammetry. <i>Remote Sensing</i> , 2021, 13, 118.	1.8	7
4	Analysis of Sea Storm Events in the Mediterranean Sea: The Case Study of 28 December 2020 Sea Storm in the Gulf of Naples, Italy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11460.	1.3	10
5	Hydrothermal versus magmatic. , 2020, , 371-406.		7
6	The 39 ka Campanian Ignimbrite eruption. , 2020, , 175-205.		4
7	Seismogenic potential of withdrawal-reinjection cycles: Numerical modelling and implication on induced seismicity. <i>Geothermics</i> , 2020, 85, 101770.	1.5	2
8	On the correlation between solar activity and large earthquakes worldwide. <i>Scientific Reports</i> , 2020, 10, 11495.	1.6	29
9	The Evolution of Covid-19 in Italy after the Spring of 2020: An Unpredicted Summer Respite Followed by a Second Wave. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8708.	1.2	23
10	The COVID-19 Infection in Italy: A Statistical Study of an Abnormally Severe Disease. <i>Journal of Clinical Medicine</i> , 2020, 9, 1564.	1.0	53
11	Invited perspectives: The volcanoes of Naples: how can the highest volcanic risk in the world be effectively mitigated?. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2037-2053.	1.5	5
12	Seismic risk mitigation at Ischia island (Naples, Southern Italy): An innovative approach to mitigate catastrophic scenarios. <i>Engineering Geology</i> , 2019, 261, 105285.	2.9	17
13	Long-Term Monitoring with Fiber Optics Distributed Temperature Sensing at Campi Flegrei: The Campi Flegrei Deep Drilling Project. <i>Sensors</i> , 2019, 19, 1009.	2.1	11
14	The Campi Flegrei caldera unrest: Discriminating magma intrusions from hydrothermal effects and implications for possible evolution. <i>Earth-Science Reviews</i> , 2019, 188, 108-122.	4.0	60
15	A geochemical and geophysical reappraisal to the significance of the recent unrest at Campi Flegrei caldera (Southern Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1244-1269.	1.0	38
16	Modelling of hydrogen sulfide dispersion from the geothermal power plants of Tuscany (Italy). <i>Science of the Total Environment</i> , 2017, 583, 408-420.	3.9	24
17	Real-time quadrupole mass spectrometry of hydrothermal gases from the unstable Pisciarelli fumaroles (Campi Flegrei): Trends, challenges and processes. <i>International Journal of Mass Spectrometry</i> , 2017, 415, 44-54.	0.7	8
18	Progressive approach to eruption at Campi Flegrei caldera in southern Italy. <i>Nature Communications</i> , 2017, 8, 15312.	5.8	72

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19	Understanding volcanic hazard at the most populated caldera in the world: <sc>C</sc>ampi <sc>F</sc>legrei, <sc>S</sc>outhern <sc>I</sc>taly. Geochemistry, Geophysics, Geosystems, 2017, 18, 2004-2008.	1.0	13
20	Improved quantification of CO <sub>2</sub> emission at Campi Flegrei by combined Lagrangian Stochastic and Eulerian dispersion modelling. Atmospheric Environment, 2017, 170, 1-11.	1.9	9
21	Distributed-Temperature-Sensing Using Optical Methods: A First Application in the Offshore Area of Campi Flegrei Caldera (Southern Italy) for Volcano Monitoring. Remote Sensing, 2016, 8, 674.	1.8	15
22	The Campi Flegrei Deep Drilling Project (CFDDP): New insight on caldera structure, evolution and hazard implications for the Naples area (Southern Italy). Geochemistry, Geophysics, Geosystems, 2016, 17, 4836-4847.	1.0	45
23	Geostructure of Coroglio tuff cliff, Naples (Italy) derived from terrestrial laser scanner data. Journal of Maps, 2016, 12, 407-421.	1.0	23
24	Exploitation of geothermal energy in active volcanic areas: A numerical modelling applied to high temperature Mofete geothermal field, at Campi Flegrei caldera (Southern Italy). Renewable Energy, 2016, 87, 54-66.	4.3	28
25	High-resolution morpho-bathymetry of Pozzuoli Bay, southern Italy. Journal of Maps, 2016, 12, 222-230.	1.0	45
26	Tectonic stress and renewed uplift at Campi Flegrei caldera, southern Italy: New insights from caldera drilling. Earth and Planetary Science Letters, 2015, 420, 23-29.	1.8	19
27	Mineralogical, geochemical and isotopic features of tuffs from the CFDDP drill hole: Hydrothermal activity in the eastern side of the Campi Flegrei volcano (southern Italy). Journal of Volcanology and Geothermal Research, 2015, 290, 39-52.	0.8	23
28	Native sulfur, sulfates and sulfides from the active Campi Flegrei volcano (southern Italy): Genetic environments and degassing dynamics revealed by mineralogy and isotope geochemistry. Journal of Volcanology and Geothermal Research, 2015, 304, 180-193.	0.8	42
29	The 2012 Emilia, Italy, Quasi-Consecutive Triggered Mainshocks: Implications for Seismic Hazard. Seismological Research Letters, 2014, 85, 970-976.	0.8	4
30	Comment on "Are the source models of the M 7.1 1908 Messina Straits earthquake reliable? Insights from a novel inversion and sensitivity analysis of levelling data" by M. Aloisi, V. Bruno, F. Cannavà, L. Ferranti, M. Mattia, C. Monaco and M. Palano. Geophysical Journal International, 2014, 197, 1399-1402.	1.0	10
31	The volcanic and geothermally active Campi Flegrei caldera: an integrated multidisciplinary image of its buried structure. International Journal of Earth Sciences, 2014, 103, 401-421.	0.9	69
32	k-Means clustering as tool for multivariate geophysical data analysis. An application to shallow fault zone imaging. Journal of Applied Geophysics, 2014, 101, 108-115.	0.9	31
33	Electromagnetic outline of the Solfatara "Pisciarelli hydrothermal system, Campi Flegrei (Southern Italy). Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	38
34	The geothermal system of Ischia Island (southern Italy): Critical review and sustainability analysis of geothermal resource for electricity generation. Renewable Energy, 2014, 62, 177-196.	4.3	50
35	A New Method for Optimization and Testing of Microseismic Networks: An Application to Campi Flegrei (Southern Italy). Bulletin of the Seismological Society of America, 2013, 103, 1679-1691.	1.1	15
36	A Coulomb stress model for induced seismicity distribution due to fluid injection and withdrawal in deep boreholes. Geophysical Journal International, 2013, 195, 504-512.	1.0	13

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37	The geothermal exploration of Campanian volcanoes: Historical review and future development. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1004-1030.	8.2	68
38	Abruzzo, Italy, Earthquakes of April 2009: Heterogeneous Fault-Slip Models and Stress Transfer from Accurate Inversion of ENVISAT-InSAR Data. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 2340-2354.	1.1	19
39	Ground deformation at calderas driven by fluid injection: modelling unrest episodes at Campi Flegrei (Italy). <i>Geophysical Journal International</i> , 2011, 187, 833-847.	1.0	68
40	The "Campi Flegrei Deep Drilling Project": from Risk Mitigation to Renewable Energy Production. <i>European Review</i> , 2011, 19, 337-353.	0.4	10
41	Chapter 10 A New Uplift Episode at Campi Flegrei Caldera (Southern Italy): Implications for Unrest Interpretation and Eruption Hazard Evaluation. <i>Developments in Volcanology</i> , 2008, , 375-392.	0.5	12
42	Seismicity preceding volcanic eruptions: New experimental insights. <i>Geology</i> , 2007, 35, 183.	2.0	61
43	Continuous in situ measurements of volcanic gases with a diode-laser-based spectrometer: CO <sub>2</sub> and H <sub>2</sub> O concentration and soil degassing at Vulcano (Aeolian islands: Italy). <i>Geochemical Transactions</i> , 2007, 8, 5.	1.8	5
44	Volcanic hazard assessment at the Campi Flegrei caldera. <i>Geological Society Special Publication</i> , 2006, 269, 159-171.	0.8	12
45	Evidence for fluid migration as the source of deformation at Campi Flegrei caldera (Italy). <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	205
46	An advanced slip model for the Umbria-Marche earthquake sequence: coseismic displacements observed by SAR interferometry and model inversion. <i>Geophysical Journal International</i> , 2006, 164, 36-45.	1.0	12
47	Diagnosis of Time of Increased Probability (TIP) for Volcanic Earthquakes at Mt. Vesuvius. <i>Pure and Applied Geophysics</i> , 2006, 163, 19-39.	0.8	2
48	Understanding the Seismic Velocity Structure of Campi Flegrei Caldera (Italy): From the Laboratory to the Field Scale. <i>Pure and Applied Geophysics</i> , 2006, 163, 2205-2221.	0.8	37
49	The Somma "Vesuvius volcano (Southern Italy): Structure, dynamics and hazard evaluation. <i>Earth-Science Reviews</i> , 2006, 74, 73-111.	4.0	67
50	The Campi Flegrei caldera: unrest mechanisms and hazards. <i>Geological Society Special Publication</i> , 2006, 269, 25-45.	0.8	78
51	Finite element modelling of topographic effects on elastic ground deformation at Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 144, 257-271.	0.8	26
52	Bayesian inversion of 1994-1998 vertical displacements at Mt Etna: evidence for magma intrusion. <i>Geophysical Journal International</i> , 2004, 157, 935-946.	1.0	13
53	Numerical simulation of pyroclastic density currents on Campi Flegrei topography: a tool for statistical hazard estimation.. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 132, 1-14.	0.8	33
54	A diode-laser-based spectrometer for in-situ measurements of volcanic gases. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 235-240.	1.1	28

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55	Three Decades of Seismic Activity at Mt. Vesuvius: 1972-2000. <i>Pure and Applied Geophysics</i> , 2004, 161, 123-144.	0.8	29
56	3-D Modelling of Campi Flegrei Ground Deformations: Role of Caldera Boundary Discontinuities. <i>Pure and Applied Geophysics</i> , 2004, 161, 1329-1344.	0.8	54
57	Seismicity and 3-D substructure at Somma-Vesuvius volcano: evidence for magma quenching. <i>Earth and Planetary Science Letters</i> , 2004, 221, 181-196.	1.8	51
58	Real-time monitoring of volcanic emissions with a laser-based fiber spectrometer. , 2004, , .		0
59	3-D Modelling of Campi Flegrei Ground Deformations: Role of Caldera Boundary Discontinuities. , 2004, , 1329-1344.		4
60	Probabilistic Location of Seismic Sequences in Heterogeneous Media. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 2239-2253.	1.1	35
61	First evidence of post-seismic deformation in the central Mediterranean: Crustal viscoelastic relaxation in the area of the 1980 Irpinia earthquake (Southern Italy). <i>Geophysical Journal International</i> , 2003, 154, F9-F14.	1.0	12
62	Coulomb stress changes at calderas: Modeling the seismicity of Campi Flegrei (southern Italy). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
63	Stromboli: a natural laboratory of environmental science. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 113, 429-442.	0.8	3
64	On the possible use of optical fiber Bragg gratings as strain sensors for geodynamical monitoring. <i>Optics and Lasers in Engineering</i> , 2002, 37, 115-130.	2.0	103
65	Optical methods in Earth Sciences. <i>Optics and Lasers in Engineering</i> , 2002, 37, 87-89.	2.0	2
66	A mechanical fluid-dynamical model for ground movements at Campi Flegrei caldera. <i>Journal of Geodynamics</i> , 2001, 32, 487-517.	0.7	63
67	Structure and dynamics of the Somma-Vesuvius volcanic complex. <i>Mineralogy and Petrology</i> , 2001, 73, 5-22.	0.4	38
68	A 2D mechanical-thermofluid-dynamical model for geothermal systems at calderas: an application to Campi Flegrei, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 1-12.	0.8	18
69	Campi Flegrei unrest episodes and possible evolution towards critical phenomena. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 13-40.	0.8	16
70	Teleseismic tomography of the Campanian volcanic area and surrounding Apenninic belt. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 55-75.	0.8	49
71	Coseismic displacements and creeping along the Pernicana fault (Etna, Italy) in the last 17 years: a detailed study of a tectonic structure on a volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 109-131.	0.8	31
72	Optical methods for monitoring of volcanoes: techniques and new perspectives. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 235-245.	0.8	12

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73	Internal stress field at Mount Vesuvius: A model for background seismicity at a central volcano. <i>Journal of Geophysical Research</i> , 2000, 105, 16207-16214.	3.3	31
74	Computer simulations of pyroclastic flows on Somma-Vesuvius volcano. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 82, 113-137.	0.8	20
75	An image of Mt. Vesuvius obtained by 2D seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 82, 161-173.	0.8	70
76	Seismicity at Somma-Vesuvius and its implications for the 3D tomography of the volcano. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 82, 175-197.	0.8	40
77	Evidence for static stress interaction among earthquakes in the south-central Apennines (Italy). <i>Geophysical Journal International</i> , 1998, 134, 809-817.	1.0	48
78	Variable opening of dike-fed eruptive fissures determined from geodetic data: The 1971 and 1983 rift-zone eruptions of Kilauea Volcano, Hawaii. <i>Journal of Geodynamics</i> , 1998, 27, 75-88.	0.7	0
79	A model for earthquake generation during unrest episodes at Campi Flegrei and Rabaul Calderas. <i>Geophysical Research Letters</i> , 1997, 24, 1575-1578.	1.5	33
80	The effect of collapse structures on ground deformations in calderas. <i>Geophysical Research Letters</i> , 1997, 24, 1555-1558.	1.5	88
81	Title is missing!. <i>Journal of Seismology</i> , 1997, 1, 305-319.	0.6	32
82	Seismic Evidence for a Low-Velocity Zone in the Upper Crust Beneath Mount Vesuvius. <i>Science</i> , 1996, 274, 592-594.	6.0	134
83	Accurate fault mechanism determinations for a 1984 earthquake swarm at Campi Flegrei caldera (Italy) during an unrest episode: Implications for volcanological research. <i>Journal of Geophysical Research</i> , 1995, 100, 24167-24185.	3.3	56
84	Ground deformations in collapsed caldera structures. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 57, 19-38.	0.8	89
85	Recent geophysical investigation at Somma-Vesuvio volcanic complex. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 58, 239-262.	0.8	35
86	A probability method for local earthquake focal mechanisms. <i>Geophysical Research Letters</i> , 1991, 18, 613-616.	1.5	28
87	Geophysical and geochemical modelling of the 1982-1984 unrest phenomena at Campi Flegrei caldera (southern Italy). <i>Journal of Volcanology and Geothermal Research</i> , 1991, 48, 199-222.	0.8	118
88	Source parameters of earthquakes in the Strait of Messina, Italy, during this century. <i>Tectonophysics</i> , 1989, 166, 221-234.	0.9	26
89	Scaling of peak ground motions from digital recordings of small earthquakes at Campi Flegrei, southern Italy. <i>Pure and Applied Geophysics</i> , 1988, 126, 37-53.	0.8	30
90	Seismic and ground deformation monitoring in the seismogenic region of the southern Apennines, Italy. <i>Tectonophysics</i> , 1988, 152, 165-178.	0.9	14

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91	Source parameters of microearthquakes at Phlegraean Fields (Southern Italy) volcanic area. Physics of the Earth and Planetary Interiors, 1987, 47, 25-42.	0.7	48
92	Seismic sources and attenuation properties at the Campi Flegrei volcanic area. Pure and Applied Geophysics, 1987, 125, 883-917.	0.8	59
93	Source parameter analysis from strong motion records of the Friuli, Italy, earthquake sequence (1976-1977). Bulletin of the Seismological Society of America, 1987, 77, 1127-1146.	1.1	35
94	Q c of three component seismograms of volcanic microearthquakes at Campi Flegrei volcanic area " Southern Italy. Pure and Applied Geophysics, 1985, 123, 683-696.	0.8	45
95	Statistical analysis of earthquake activity at Etna volcano (March 1981 eruption). Pure and Applied Geophysics, 1985, 123, 697-705.	0.8	11
96	Testing and optimization of the seismic networks of Campi Flegrei (Southern Italy). Advances in Geosciences, 0, 36, 49-55.	12.0	1
97	The Newberry Deep Drilling Project (NDDP) workshop. Scientific Drilling, 0, 24, 79-86.	1.0	2
98	A roadmap for amphibious drilling at the Campi Flegrei caldera: insights from a MagellanPlus workshop. Scientific Drilling, 0, 26, 29-46.	1.0	6