

Micol Todesco

List of Publications by Year in descending order

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39
papers

1,378
citations

393982

19
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344852

36
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all docs

41
docs citations

41
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Source Modelling from Ground Deformation and Gravity Changes at the Campi Flegrei Caldera, Italy. <i>Active Volcanoes of the World</i> , 2022, , 283-309.	1.0	4
2	The 79 CE eruption of Vesuvius: A lesson from the past and the need of a multidisciplinary approach for developments in volcanology. <i>Earth-Science Reviews</i> , 2022, 231, 104072.	4.0	12
3	The imaginary eruption “volcanic activity through kids' eyes. <i>Geoscience Communication</i> , 2022, 5, 205-219.	0.5	0
4	Geothermal fluid circulation in a caldera setting: The Torre Alfina medium enthalpy system (Italy). <i>Geothermics</i> , 2021, 89, 101947.	1.5	2
5	Caldera’s Breathing: Poroelastic Ground Deformation at Campi Flegrei (Italy). <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	7
6	Hydrologically Induced Karst Deformation: Insights From GPS Measurements in the Adria-Eurasia Plate Boundary Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4413-4430.	1.4	34
7	The leap in the dark: Geological thoughts about an unpredictable planet. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2780-2783.	1.4	4
8	Sand volcano generated by a violent degassing from methane-saturated aquifers: The case study of Medolla (Modena, Italy). <i>Engineering Geology</i> , 2017, 221, 91-103.	2.9	4
9	Effects of layered crust on the coseismic slip inversion and related CFF variations: Hints from the 2012 Emilia Romagna earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 273, 23-35.	0.7	9
10	Conditions for long-lasting gas eruptions: The 2013 event at Fiumicino International Airport (Rome,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.8	7
11	Modeling earthquake effects on groundwater levels: evidences from the 2012 Emilia earthquake (Italy). <i>Geofluids</i> , 2016, 16, 452-463.	0.3	19
12	Ground heating and methane oxidation processes at shallow depth in Terre Calde di Medolla (Italy): Numerical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3065-3076.	1.4	10
13	The L'Aquila trial. <i>Geological Society Special Publication</i> , 2015, 419, 43-55.	0.8	15
14	How Steep Is My Seep? Seepage in Volcanic Lakes, Hints from Numerical Simulations. <i>Advances in Volcanology</i> , 2015, , 323-339.	0.7	5
15	Time-lapse gravity inversion with an active time constraint. <i>Geophysical Journal International</i> , 2014, 196, 748-759.	1.0	11
16	Vertical ground displacement at Campi Flegrei (Italy) in the fifth century: Rapid subsidence driven by pore pressure drop. <i>Geophysical Research Letters</i> , 2014, 41, 1471-1478.	1.5	37
17	Effects of atmospheric conditions on surface diffuse degassing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	34
18	Electrical conductivity, ground displacement, gravity changes, and gas flow at Solfatara crater (Campi Flegrei caldera, Italy): Results from numerical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 93-105.	0.8	37

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19	Modeling of unrest signals in heterogeneous hydrothermal systems. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
20	Hydrothermal instability and ground displacement at the Campi Flegrei caldera. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 178, 155-161.	0.7	63
21	Signals from the Campi Flegrei hydrothermal system: Role of a "magmatic" source of fluids. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	33
22	Chapter 11 Hydrothermal Fluid Circulation and its Effect on Caldera Unrest. <i>Developments in Volcanology</i> , 2008, 10, 393-416.	0.5	12
23	Pyroclastic flow dynamics and hazard in a caldera setting: Application to Phlegrean Fields (Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	28
24	Ã VIVO: Virtual eruptions at Vesuvius; A multimedia tool to illustrate numerical modeling to a general public. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 323-328.	0.8	2
25	Rapid sea-level movements and noneruptive crustal deformations in the Phlegrean Fields caldera, Italy. <i>Geology</i> , 2006, 34, 93.	2.0	119
26	Modeling hydrothermal fluid circulation and gravity signals at the Phlegraean Fields caldera. <i>Earth and Planetary Science Letters</i> , 2005, 240, 328-338.	1.8	49
27	Volcanic Eruption Induced Floods. A Rainfall-Runoff Model Applied to the Vesuvian Region (Italy). <i>Natural Hazards</i> , 2004, 33, 223-245.	1.6	9
28	Modeling of recent volcanic episodes at Phlegrean Fields (Italy): geochemical variations and ground deformation. <i>Geothermics</i> , 2004, 33, 531-547.	1.5	100
29	Monitoring and modelling hydrothermal fluid emission at La Solfatara (Phlegrean Fields, Italy). An interdisciplinary approach to the study of diffuse degassing. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 125, 57-79.	0.8	100
30	Magma degassing as a trigger of bradyseismic events: The case of Phlegrean Fields (Italy). <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	161
31	Pyroclastic flow hazard assessment at Vesuvius (Italy) by using numerical modeling. I. Large-scale dynamics. <i>Bulletin of Volcanology</i> , 2002, 64, 155-177.	1.1	72
32	Pyroclastic flow hazard assessment at Vesuvius (Italy) by using numerical modeling. II. Analysis of flow variables. <i>Bulletin of Volcanology</i> , 2002, 64, 178-191.	1.1	65
33	Physical Modelling and Human Survival in Pyroclastic Flows. <i>Natural Hazards</i> , 1998, 17, 163-176.	1.6	66
34	Origin of fumarolic fluids at Vulcano (Italy). Insights from isotope data and numerical modeling of hydrothermal circulation. <i>Journal of Volcanology and Geothermal Research</i> , 1997, 79, 63-85.	0.8	22
35	Simulations of convection with crystallization in the system $KAlSi_2O_6$ - $CaMgSi_2O_6$; implications for compositionally zoned magma bodies. <i>American Mineralogist</i> , 1995, 80, 1188-1207.	0.9	71
36	Assessing the pyroclastic flow hazard at Vesuvius. <i>Nature</i> , 1994, 367, 551-554.	13.7	79

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37	When did Sardinia rotate? Statistical evaluation of the paleomagnetic data. <i>Annals of Geophysics</i> , 1993, 36, .	0.5	3
38	Stability of a chemically layered upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 1992, 71, 85-99.	0.7	8
39	Eruptions and Social Media: Communication and Public Outreach About Volcanoes and Volcanic Activity in Italy. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	0