

Micol Todesco

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,378
citations

393982

19
h-index

344852

36
g-index

41
all docs

41
docs citations

41
times ranked

1138
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Magma degassing as a trigger of bradyseismic events: The case of Phlegrean Fields (Italy). <i>Geophysical Research Letters</i> , 2003, 30, . | 1.5 | 161 |
| 2 | Rapid sea-level movements and noneruptive crustal deformations in the Phlegrean Fields caldera, Italy. <i>Geology</i> , 2006, 34, 93. | 2.0 | 119 |
| 3 | 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 |
| 4 | Modeling of recent volcanic episodes at Phlegrean Fields (Italy): geochemical variations and ground deformation. <i>Geothermics</i> , 2004, 33, 531-547. | 1.5 | 100 |
| 5 | Assessing the pyroclastic flow hazard at Vesuvius. <i>Nature</i> , 1994, 367, 551-554. | 13.7 | 79 |
| 6 | 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 |
| 7 | 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 |
| 8 | Physical Modelling and Human Survival in Pyroclastic Flows. <i>Natural Hazards</i> , 1998, 17, 163-176. | 1.6 | 66 |
| 9 | 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 |
| 10 | Modeling of unrest signals in heterogeneous hydrothermal systems. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 64 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Effects of atmospheric conditions on surface diffuse degassing. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 34 |
| 16 | Hydrologically Induced Karst Deformation: Insights From GPS Measurements in the Adriatic-Eurasia Plate Boundary Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4413-4430. | 1.4 | 34 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Modeling earthquake effects on groundwater levels: evidences from the 2012 Emilia earthquake (Italy). <i>Geofluids</i> , 2016, 16, 452-463. | 0.3 | 19 |
| 21 | The L'Aquila trial. <i>Geological Society Special Publication</i> , 2015, 419, 43-55. | 0.8 | 15 |
| 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 | 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 |
| 24 | Time-lapse gravity inversion with an active time constraint. <i>Geophysical Journal International</i> , 2014, 196, 748-759. | 1.0 | 11 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Stability of a chemically layered upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 1992, 71, 85-99. | 0.7 | 8 |
| 29 | Conditions for long-lasting gas eruptions: The 2013 event at Fiumicino International Airport (Rome, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 270, 1-14. | 0.8 | 7 |
| 30 | Caldera "Breathing": Poroelastic Ground Deformation at Campi Flegrei (Italy). <i>Frontiers in Earth Science</i> , 2021, 9, . | 0.8 | 7 |
| 31 | How Steep Is My Seep? Seepage in Volcanic Lakes, Hints from Numerical Simulations. <i>Advances in Volcanology</i> , 2015, , 323-339. | 0.7 | 5 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | When did Sardinia rotate? Statistical evaluation of the paleomagnetic data. <i>Annals of Geophysics</i> , 1993, 36, . | 0.5 | 3 |
| 36 | À 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 |

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|----|--|-----|-----------|
| 37 | Geothermal fluid circulation in a caldera setting: The Torre Alfina medium enthalpy system (Italy). <i>Geothermics</i> , 2021, 89, 101947. | 1.5 | 2 |
| 38 | 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 |
| 39 | The imaginary eruption “volcanic activity through kids' eyes. <i>Geoscience Communication</i> , 2022, 5, 205-219. | 0.5 | 0 |