

Francesco Frondini

List of Publications by Year in descending order

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27
papers

2,237
citations

471509

17
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ degassing and energy release at Solfatara volcano, Campi Flegrei, Italy. <i>Journal of Geophysical Research</i> , 2001, 106, 16213-16221.	3.3	371
2	Carbon dioxide Earth degassing and seismogenesis in central and southern Italy. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	352
3	Application of stochastic simulation to CO ₂ flux from soil: Mapping and quantification of gas release. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	238
4	Rate of diffuse carbon dioxide Earth degassing estimated from carbon balance of regional aquifers: The case of central Apennine, Italy. <i>Journal of Geophysical Research</i> , 2000, 105, 8423-8434.	3.3	224
5	Quantification of deep CO ₂ fluxes from Central Italy. Examples of carbon balance for regional aquifers and of soil diffuse degassing. <i>Chemical Geology</i> , 1999, 159, 205-222.	3.3	163
6	Monitoring diffuse volcanic degassing during volcanic unrests: the case of Campi Flegrei (Italy). <i>Scientific Reports</i> , 2017, 7, 6757.	3.3	117
7	Flux measurements of nonvolcanic CO ₂ emission from some vents in central Italy. <i>Journal of Geophysical Research</i> , 2000, 105, 8435-8445.	3.3	109
8	Deep structures and carbon dioxide degassing in Central Italy. <i>Geothermics</i> , 1995, 24, 81-94.	3.4	99
9	Geochemical evidence for and characterization of CO ₂ rich gas sources in the epicentral area of the Abruzzo 2009 earthquakes. <i>Earth and Planetary Science Letters</i> , 2011, 304, 389-398.	4.4	99
10	Carbon dioxide degassing at Latera caldera (Italy): Evidence of geothermal reservoir and evaluation of its potential energy. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	95
11	Correlation between tectonic CO ₂ Earth degassing and seismicity is revealed by a 10-year record in the Apennines, Italy. <i>Science Advances</i> , 2020, 6, eabc2938.	10.3	81
12	Fluxes of deep CO ₂ in the volcanic areas of central-southern Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 136, 31-52.	2.1	66
13	Chemical weathering and consumption of atmospheric carbon dioxide in the Alpine region. <i>Global and Planetary Change</i> , 2016, 136, 65-81.	3.5	46
14	Advective heat transport associated with regional Earth degassing in central Apennine (Italy). <i>Earth and Planetary Science Letters</i> , 2013, 373, 65-74.	4.4	41
15	Measuring and interpreting CO ₂ fluxes at regional scale: the case of the Apennines, Italy. <i>Journal of the Geological Society</i> , 2019, 176, 408-416.	2.1	28
16	s-Processing from MHD-induced mixing and isotopic abundances in presolar SiC grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 21-36.	3.9	27
17	Order–disorder–reorder process in thermally treated dolomite samples: a combined powder and single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 319-328.	0.8	19
18	An Endorheic Lake in a Changing Climate: Geochemical Investigations at Lake Trasimeno (Italy). <i>Water (Switzerland)</i> , 2019, 11, 1319.	2.7	13

#	ARTICLE	IF	CITATIONS
19	Chemical and mineralogical characterization of the Mineo (Sicily, Italy) pallasite: A unique sample. <i>Meteoritics and Planetary Science</i> , 2018, 53, 268-283.	1.6	9
20	The hydrothermal system of Bagni San Filippo (Italy): fluids circulation and CO2 degassing. <i>Italian Journal of Geosciences</i> , 2020, 139, 383-397.	0.8	9
21	Consumption of Atmospheric Carbon Dioxide through Weathering of Ultramafic Rocks in the Voltri Massif (Italy): Quantification of the Process and Global Implications. <i>Geosciences (Switzerland)</i> , 2019, 9, 258.	2.2	8
22	Innovative monitoring tools for the complex spatial dynamics of river chemistry: case study for the Alpine region. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	7
23	Porosity, bulk density and CaCO3 content of travertines. A new dataset from Rapolano, Canino and Tivoli travertines (Italy). <i>Data in Brief</i> , 2019, 25, 104158.	1.0	6
24	The Carbon Dioxide Emission as Indicator of the Geothermal Heat Flow: Review of Local and Regional Applications with a Special Focus on Italy. <i>Energies</i> , 2021, 14, 6590.	3.1	6
25	3D electron diffraction study of terrestrial iron oxide alteration in the Mineo pallasite. <i>Mineralogical Magazine</i> , 2022, 86, 272-281.	1.4	2
26	The Achievements of the RockStar Group (Perugia) on Astrophysical Modelling and Pallasite Geochemistry. <i>Universe</i> , 2022, 8, 156.	2.5	1
27	CO2-Degassing Carbonate Conduits in Early Pleistocene Marine Clayey Deposits in Southwestern Umbria (Central Italy). <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 819.	2.0	1