

J M De Moor

List of Publications by Year in descending order

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32
papers

1,076
citations

516710

16
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1160
citing authors

#	ARTICLE	IF	CITATIONS
1	Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from high-frequency gas monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5761-5775.	3.4	105
2	Understanding and forecasting phreatic eruptions driven by magmatic degassing. <i>Earth, Planets and Space</i> , 2018, 70, 83.	2.5	102
3	Sulfur degassing at Erta Ale (Ethiopia) and Masaya (Nicaragua) volcanoes: Implications for degassing processes and oxygen fugacities of basaltic systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4076-4108.	2.5	100
4	Forearc carbon sink reduces long-term volatile recycling into the mantle. <i>Nature</i> , 2019, 568, 487-492.	27.8	97
5	Trace elements in the gas emissions from the Erta Ale volcano, Afar, Ethiopia. <i>Chemical Geology</i> , 2013, 357, 95-116.	3.3	89
6	A New Sulfur and Carbon Degassing Inventory for the Southern Central American Volcanic Arc: The Importance of Accurate Time-Series Data Sets and Possible Tectonic Processes Responsible for Temporal Variations in Arc-Scale Volatile Emissions. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4437-4468.	2.5	56
7	Insights on Hydrothermal-Magmatic Interactions and Eruptive Processes at Poás Volcano (Costa Rica) From High-Frequency Gas Monitoring and Drone Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 1293-1302.	4.0	54
8	Volatile-rich silicate melts from Oldoinyo Lengai volcano (Tanzania): Implications for carbonatite genesis and eruptive behavior. <i>Earth and Planetary Science Letters</i> , 2013, 361, 379-390.	4.4	53
9	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014-2017. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 496-515.	2.5	52
10	Implementation of electrochemical, optical and denuder-based sensors and sampling techniques on UAV for volcanic gas measurements: examples from Masaya, Turrialba and Stromboli volcanoes. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2441-2457.	3.1	47
11	Using Drones and Miniaturized Instrumentation to Study Degassing at Turrialba and Masaya Volcanoes, Central America. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6501-6520.	3.4	38
12	Effect of tectonic processes on biosphere-geosphere feedbacks across a convergent margin. <i>Nature Geoscience</i> , 2021, 14, 301-306.	12.9	32
13	Are the ashes from the latest eruptions (2010-2016) at Turrialba volcano (Costa Rica) related to phreatic or phreatomagmatic events?. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 407-415.	2.1	31
14	The Magmatic Gas Signature of Pacaya Volcano, With Implications for the Volcanic CO ₂ Flux From Guatemala. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 667-692.	2.5	26
15	Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes. <i>Science Advances</i> , 2020, 6, .	10.3	24
16	Eruptive activity at Turrialba volcano (Costa Rica): Inferences from ³ H/ ⁴ H ₂ in fumarole gases and chemistry of the products ejected during 2014 and 2015. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4478-4494.	2.5	18
17	Mechanisms of Unrest and Eruption at Persistently Restless Volcanoes: Insights From the 2015 Eruption of Telica Volcano, Nicaragua. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4162-4183.	2.5	15
18	A golden era for volcanic gas geochemistry?. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	14

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19	The Helium and Carbon Isotope Characteristics of the Andean Convergent Margin. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	14
20	Variable SO ₂ emission rates for Anatahan volcano, the Commonwealth of the Northern Mariana Islands: Implications for deriving arc-wide volatile fluxes from erupting volcanoes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	13
21	Renewed Explosive Phreatomagmatic Activity at Poás Volcano, Costa Rica in April 2017. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	13
22	Relationship between Diffuse CO ₂ Degassing and Volcanic Activity. Case Study of the Poás, Irazú, and Turrialba Volcanoes, Costa Rica. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	12
23	Insights Into the Mechanisms of Phreatic Eruptions From Continuous High Frequency Volcanic Gas Monitoring: Rincón de la Vieja Volcano, Costa Rica. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	12
24	Carbon isotope systematics of Turrialba volcano, Costa Rica, using a portable cavity ring-down spectrometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2769-2784.	2.5	11
25	Phreatic and Hydrothermal Eruptions: From Overlooked to Looking Over. <i>Bulletin of Volcanology</i> , 2022, 84, .	3.0	11
26	Halogen activation in the plume of Masaya volcano: field observations and box model investigations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3371-3393.	4.9	10
27	Carbon and sulfur isotopes in tree rings as a proxy for volcanic degassing. <i>Geology</i> , 2019, 47, 825-828.	4.4	7
28	Constraints on the sulfur subduction cycle in Central America from sulfur isotope compositions of volcanic gases. <i>Chemical Geology</i> , 2022, 588, 120627.	3.3	7
29	A new Multi-GAS system for continuous monitoring of CO ₂ / CH ₄ ratios at active volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 426, 107533.	2.1	5
30	Atmospheric helium isotope composition as a tracer of volcanic emissions: A case study of Erta Ale volcano, Ethiopia. <i>Chemical Geology</i> , 2018, 480, 3-11.	3.3	4
31	The crater lake of Ilamatepec (Santa Ana) volcano, El Salvador: insights into lake gas composition and implications for monitoring. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	4
32	Volcano hazard and surveillance in Costa Rica. <i>Volcanica</i> , 2021, 4, 141-161.	1.8	0