

Santiago Arellano

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2541178/publications.pdf>

Version: 2024-02-01

37
papers

1,450
citations

393982

19
h-index

344852

36
g-index

47
all docs

47
docs citations

47
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Lava Volume from Remote Sensing Data: Comparisons with Reverse Petrological Approaches for Two Types of Effusive Eruption. <i>Remote Sensing</i> , 2022, 14, 323.	1.8	3
2	Linking ground-based data and satellite monitoring to understand the last two decades of eruptive activity at Sangay volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	1.1	6
3	Synoptic analysis of a decade of daily measurements of SO ₂ emission in the troposphere from volcanoes of the global ground-based Network for Observation of Volcanic and Atmospheric Change. <i>Earth System Science Data</i> , 2021, 13, 1167-1188.	3.7	31
4	A multi-purpose, multi-rotor drone system for long-range and high-altitude volcanic gas plume measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4255-4277.	1.2	14
5	Volcano Crisis Management at Piton de la Fournaise (La Réunion) during the COVID-19 Lockdown. <i>Seismological Research Letters</i> , 2021, 92, 38-52.	0.8	12
6	Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes. <i>Science Advances</i> , 2020, 6, .	4.7	24
7	Evidences of Plug Pressurization Enhancing Magma Fragmentation During the September 2016 Basaltic Eruption at Piton de la Fournaise (La Réunion Island, France). <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008611.	1.0	22
8	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.	1.0	15
9	Variation of the BrO/SO ₂ Molar Ratio in the Plume of Tungurahua Volcano Between 2007 and 2017 and Its Relationship to Volcanic Activity. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	17
10	On the link between Earth tides and volcanic degassing. <i>Solid Earth</i> , 2019, 10, 725-740.	1.2	7
11	Global monitoring of volcanic SO ₂ degassing with unprecedented resolution from TROPOMI onboard Sentinel-5 Precursor. <i>Scientific Reports</i> , 2019, 9, 2643.	1.6	126
12	Autopsy of an eruptive phase of Tungurahua volcano (Ecuador) through coupling of seismo-acoustic and SO ₂ recordings with ash characteristics. <i>Earth and Planetary Science Letters</i> , 2019, 511, 223-232.	1.8	18
13	Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CASNVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5057-5081.	1.0	5
14	The emissions of CO ₂ and other volatiles from the world's subaerial volcanoes. <i>Scientific Reports</i> , 2019, 9, 18716.	1.6	109
15	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014–2017. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 496-515.	1.0	52
16	Periodicity in the BrO/SO ₂ molar ratios in the volcanic gas plume of Cotopaxi and its correlation with the Earth tides during the eruption in 2015. <i>Solid Earth</i> , 2018, 9, 247-266.	1.2	27
17	Ground-Based Measurements of the 2014–2015 Holuhraun Volcanic Cloud (Iceland). <i>Geosciences (Switzerland)</i> , 2018, 8, 29.	1.0	35
18	Evolution of the 2015 Cotopaxi Eruption Revealed by Combined Geochemical and Seismic Observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2087-2108.	1.0	33

#	ARTICLE	IF	CITATIONS
19	Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	48
20	Effusive crises at Piton de la Fournaise 2014â€“2015: a review of a multi-national response model. Journal of Applied Volcanology, 2017, 6, .	0.7	34
21	Long-term monitoring of SO ₂ quiescent degassing from Nyiragongoâ€™s lava lake. Journal of African Earth Sciences, 2017, 134, 866-873.	0.9	18
22	Multi-component gas emission measurements of the active lava lake of Nyiragongo, DR Congo. Journal of African Earth Sciences, 2017, 134, 856-865.	0.9	18
23	Extended SO ₂ outgassing from the 2014â€“2015 Holuhraun lava flow field, Iceland. Bulletin of Volcanology, 2017, 79, 1.	1.1	6
24	Plume composition and volatile flux of Nyamulagira volcano, Democratic Republic of Congo, during birth and evolution of the lava lake, 2014â€“2015. Bulletin of Volcanology, 2017, 79, 1.	1.1	22
25	First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume. Atmospheric Chemistry and Physics, 2017, 17, 5355-5378.	1.9	21
26	Retrieval of absolute SO ₂ column amounts from scattered-light spectra: implications for the evaluation of data from automated DOAS networks. Atmospheric Measurement Techniques, 2016, 9, 5677-5698.	1.2	10
27	Balloon-borne measurement of the aerosol size distribution from an Icelandic flood basalt eruption. Earth and Planetary Science Letters, 2016, 453, 252-259.	1.8	14
28	Seasonal and diurnal patterns in the dispersion of SO ₂ from Mt. Nyiragongo. Atmospheric Environment, 2016, 132, 19-29.	1.9	10
29	Gas emission strength and evolution of the molar ratio of BrO/SO ₂ in the plume of Nyiragongo in comparison to Etna. Journal of Geophysical Research D: Atmospheres, 2015, 120, 277-291.	1.2	27
30	SO ₂ degassing at Tungurahua volcano (Ecuador) between 2007 and 2013: Transition from continuous to episodic activity. Journal of Volcanology and Geothermal Research, 2015, 298, 1-14.	0.8	41
31	Next article >>> <<< Previous article Environmental pressure from the 2014â€“15 eruption of BÃ¡rÃ°arbunga volcano, Iceland. Geochemical Perspectives Letters, 2015, , 84-93.	1.0	90
32	BrO/SO ₂ molar ratios from scanning DOAS measurements in the NOVAC network. Solid Earth, 2014, 5, 409-424.	1.2	50
33	Detailed multidisciplinary monitoring reveals pre- and co-eruptive signals at Nyamulagira volcano (North Kivu, Democratic Republic of Congo). Bulletin of Volcanology, 2014, 76, 1.	1.1	31
34	Early in-flight detection of SO ₂ via Differential Optical Absorption Spectroscopy: a feasible aviation safety measure to prevent potential encounters with volcanic plumes. Atmospheric Measurement Techniques, 2011, 4, 1785-1804.	1.2	18
35	Network for Observation of Volcanic and Atmospheric Change (NOVAC)â€™A global network for volcanic gas monitoring: Network layout and instrument description. Journal of Geophysical Research, 2010, 115, .	3.3	234
36	Daily monitoring of Ecuadorian volcanic degassing from space. Journal of Volcanology and Geothermal Research, 2008, 176, 141-150.	0.8	113

#	ARTICLE	IF	CITATIONS
37	Degassing patterns of Tungurahua volcano (Ecuador) during the 1999â€“2006 eruptive period, inferred from remote spectroscopic measurements of SO ₂ emissions. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 151-162.	0.8	79