## Santiago Arellano

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Network for Observation of Volcanic and Atmospheric Change (NOVAC)—A global network for volcanic gas monitoring: Network layout and instrument description. Journal of Geophysical Research, 2010, 115, .	3.3	234
2	Global monitoring of volcanic SO2 degassing with unprecedented resolution from TROPOMI onboard Sentinel-5 Precursor. Scientific Reports, 2019, 9, 2643.	1.6	126
3	Daily monitoring of Ecuadorian volcanic degassing from space. Journal of Volcanology and Geothermal Research, 2008, 176, 141-150.	0.8	113
4	The emissions of CO2 and other volatiles from the world's subaerial volcanoes. Scientific Reports, 2019, 9, 18716.	1.6	109
5	Next article >> << Previous article Environmental pressure from the 2014–15 eruption of Bárðarbunga volcano, Iceland. Geochemical Perspectives Letters, 2015, , 84-93.	1.0	90
6	Degassing patterns of Tungurahua volcano (Ecuador) during the 1999–2006 eruptive period, inferred from remote spectroscopic measurements of SO2 emissions. Journal of Volcanology and Geothermal Research, 2008, 176, 151-162.	0.8	79
7	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014–2017. Geochemistry, Geophysics, Geosystems, 2018, 19, 496-515.	1.0	52
8	BrO/SO <sub>2</sub> molar ratios from scanning DOAS measurements in the NOVAC network. Solid Earth, 2014, 5, 409-424.	1.2	50
9	Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La) Tj ETQq1 1 0.7	784314 rgB1 1.8	[  Oyerlock ][
10	SO2 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
11	Ground-Based Measurements of the 2014–2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29.	1.0	35
12	Effusive crises at Piton de la Fournaise 2014–2015: a review of a multi-national response model. Journal of Applied Volcanology, 2017, 6, .	0.7	34
13	Evolution of the 2015 Cotopaxi Eruption Revealed by Combined Geochemical and Seismic Observations. Geochemistry, Geophysics, Geosystems, 2018, 19, 2087-2108.	1.0	33
14	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
15	Synoptic analysis of a decade of daily measurements of SO <sub>2</sub> emission in the troposphere from volcanoes of the global ground-based Network for Observation of Volcanic and Atmospheric Change. Earth System Science Data, 2021, 13, 1167-1188.	3.7	31
16	Gas emission strength and evolution of the molar ratio of BrO/SO <sub>2</sub> in the plume of Nyiragongo in comparison to Etna. Journal of Geophysical Research D: Atmospheres, 2015, 120, 277-291.	1.2	27
17	Periodicity in the BrOâ^•SO <sub>2</sub> molar ratios in the volcanic gas plume of Cotopaxi and its correlation with the Earth tides during the eruption in 2015. Solid Earth, 2018, 9, 247-266.	1.2	27
18	Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes. Science Advances, 2020, 6, .	4.7	24

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19	Plume composition and volatile flux of Nyamulagira volcano, Democratic Republic of Congo, during birth and evolution of the lava lake, 2014–2015. Bulletin of Volcanology, 2017, 79, 1.	1.1	22
20	Evidences of Plug Pressurization Enhancing Magma Fragmentation During the September 2016 Basaltic Eruption at Piton de la Fournaise (La Réunion Island, France). Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008611.	1.0	22
21	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
22	Early in-flight detection of SO <sub>2</sub> 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
23	Long-term monitoring of SO2 quiescent degassing from Nyiragongo's lava lake. Journal of African Earth Sciences, 2017, 134, 866-873.	0.9	18
24	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
25	Autopsy of an eruptive phase of Tungurahua volcano (Ecuador) through coupling of seismo-acoustic and SO2 recordings with ash characteristics. Earth and Planetary Science Letters, 2019, 511, 223-232.	1.8	18
26	Variation of the BrO/SO2 Molar Ratio in the Plume of Tungurahua Volcano Between 2007 and 2017 and Its Relationship to Volcanic Activity. Frontiers in Earth Science, 2019, 7, .	0.8	17
27	Mechanisms of Unrest and Eruption at Persistently Restless Volcanoes: Insights From the 2015 Eruption of Telica Volcano, Nicaragua. Geochemistry, Geophysics, Geosystems, 2019, 20, 4162-4183.	1.0	15
28	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
29	A multi-purpose, multi-rotor drone system for long-range and high-altitude volcanic gas plume measurements. Atmospheric Measurement Techniques, 2021, 14, 4255-4277.	1.2	14
30	Volcano Crisis Management at Piton de la Fournaise (La Réunion) during the COVID-19 Lockdown. Seismological Research Letters, 2021, 92, 38-52.	0.8	12
31	Retrieval of absolute SO <sub>2</sub> 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
32	Seasonal and diurnal patterns in the dispersion of SO2 from Mt. Nyiragongo. Atmospheric Environment, 2016, 132, 19-29.	1.9	10
33	On the link between Earth tides and volcanic degassing. Solid Earth, 2019, 10, 725-740.	1.2	7
34	Extended SO2 outgassing from the 2014–2015 Holuhraun lava flow field, Iceland. Bulletin of Volcanology, 2017, 79, 1.	1.1	6
35	Linking ground-based data and satellite monitoring to understand the last two decades of eruptive activity at Sangay volcano, Ecuador. Bulletin of Volcanology, 2022, 84, 1.	1.1	6
36	Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CASâ€NVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt. Geochemistry, Geophysics, Geosystems, 2019, 20, 5057-5081.	1.0	5

#	Article	IF	CITATIONS
37	Lava Volume from Remote Sensing Data: Comparisons with Reverse Petrological Approaches for Two Types of Effusive Eruption. Remote Sensing, 2022, 14, 323.	1.8	3