

# Alessandro Aiuppa

## List of Publications by Year in descending order

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137  
papers

5,698  
citations

61984

43  
h-index

95266

68  
g-index

145  
all docs

145  
docs citations

145  
times ranked

2957  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting Etna eruptions by real-time observation of volcanic gas composition. <i>Geology</i> , 2007, 35, 1115.	4.4	270
2	Chemical mapping of a fumarolic field: La Fossa Crater, Vulcano Island (Aeolian Islands, Italy). <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	160
3	The 2007 eruption of Stromboli volcano: Insights from real-time measurement of the volcanic gas plume CO <sub>2</sub> /SO <sub>2</sub> ratio. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 221-230.	2.1	155
4	A model of degassing for Stromboli volcano. <i>Earth and Planetary Science Letters</i> , 2010, 295, 195-204.	4.4	148
5	Reactive halogen chemistry in volcanic plumes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	144
6	Magma near the critical degassing pressure drive volcanic unrest towards a critical state. <i>Nature Communications</i> , 2016, 7, 13712.	12.8	144
7	Unmanned aerial vehicle measurements of volcanic carbon dioxide fluxes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	142
8	H <sub>2</sub> S fluxes from Mt. Etna, Stromboli, and Vulcano (Italy) and implications for the sulfur budget at volcanoes. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1861-1871.	3.9	139
9	Along-arc, inter-arc and arc-to-arc variations in volcanic gas CO <sub>2</sub> /S T ratios reveal dual source of carbon in arc volcanism. <i>Earth-Science Reviews</i> , 2017, 168, 24-47.	9.1	131
10	BrO formation in volcanic plumes. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2935-2941.	3.9	122
11	Total volatile flux from Mount Etna. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	112
12	The emissions of CO <sub>2</sub> and other volatiles from the world's subaerial volcanoes. <i>Scientific Reports</i> , 2019, 9, 18716.	3.3	109
13	Insights into magma and fluid transfer at Mount Etna by a multiparametric approach: A model of the events leading to the 2011 eruptive cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3519-3539.	3.4	108
14	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
15	Short-period volcanic gas precursors to phreatic eruptions: Insights from Poás Volcano, Costa Rica. <i>Earth and Planetary Science Letters</i> , 2016, 442, 218-227.	4.4	105
16	Degassing of halogens from basaltic volcanism: Insights from volcanic gas observations. <i>Chemical Geology</i> , 2009, 263, 99-109.	3.3	101
17	Unusually large magmatic CO <sub>2</sub> gas emissions prior to a basaltic paroxysm. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	95
18	First observations of the fumarolic gas output from a restless caldera: Implications for the current period of unrest (2005–2013) at Campi Flegrei. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4153-4169.	2.5	91

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19	Patterns in the recent 2007–2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	88
20	Rates of carbon dioxide plume degassing from Mount Etna volcano. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	86
21	Excess volatiles supplied by mingling of mafic magma at an andesite arc volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	86
22	Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	84
23	CO <sub>2</sub> flux emissions from the Earth's most actively degassing volcanoes, 2005–2015. <i>Scientific Reports</i> , 2019, 9, 5442.	3.3	84
24	Protocols for UV camera volcanic SO <sub>2</sub> measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 55-60.	2.1	83
25	Passive vs. active degassing modes at an open-vent volcano (Stromboli, Italy). <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 106-116.	4.4	80
26	Variation of H <sub>2</sub> O/CO <sub>2</sub> and CO <sub>2</sub> /SO <sub>2</sub> ratios of volcanic gases discharged by continuous degassing of Mount Etna volcano, Italy. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
27	Hydrogen in the gas plume of an open-vent volcano, Mount Etna, Italy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
28	Prodigious emission rates and magma degassing budget of major, trace and radioactive volatile species from Ambrym basaltic volcano, Vanuatu island Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 119-143.	2.1	67
29	A CO <sub>2</sub> gas precursor to the March 2015 Villarrica volcano eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2120-2132.	2.5	66
30	Rapid chemical evolution of tropospheric volcanic emissions from Redoubt Volcano, Alaska, based on observations of ozone and halogen-containing gases. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 259, 317-333.	2.1	58
31	First observational evidence for the CO <sub>2</sub> -driven origin of Stromboli's major explosions. <i>Solid Earth</i> , 2011, 2, 135-142.	2.8	56
32	Steam and gas emission rate from La Soufriere volcano, Guadeloupe (Lesser Antilles): Implications for the magmatic supply during degassing unrest. <i>Chemical Geology</i> , 2014, 384, 76-93.	3.3	56
33	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
34	Gas measurements from the Costa Rica–Nicaragua volcanic segment suggest possible along-arc variations in volcanic gas chemistry. <i>Earth and Planetary Science Letters</i> , 2014, 407, 134-147.	4.4	55
35	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
36	Periodic volcanic degassing behavior: The Mount Etna example. <i>Geophysical Research Letters</i> , 2013, 40, 4818-4822.	4.0	53

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37	Carbon Dioxide Emissions from Subaerial Volcanic Regions. , 2019, , 188-236.		53
38	First <sup>13</sup> C/ <sup>12</sup> C isotopic characterisation of volcanic plume CO <sub>2</sub> . Bulletin of Volcanology, 2011, 73, 531-542.	3.0	52
39	First volatile inventory for Gorely volcano, Kamchatka. Geophysical Research Letters, 2012, 39, .	4.0	52
40	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014â€“2017. Geochemistry, Geophysics, Geosystems, 2018, 19, 496-515.	2.5	52
41	New ground-based lidar enables volcanic CO <sub>2</sub> flux measurements. Scientific Reports, 2015, 5, 13614.	3.3	51
42	Intense magmatic degassing through the lake of Copahue volcano, 2013â€“2014. Journal of Geophysical Research: Solid Earth, 2015, 120, 6071-6084.	3.4	50
43	Sustaining persistent lava lakes: Observations from high-resolution gas measurements at Villarrica volcano, Chile. Earth and Planetary Science Letters, 2016, 454, 237-247.	4.4	50
44	Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La Reunion). Journal of Volcanology and Geothermal Research, 2019, 384, 151-157.	4.4	48
45	Degassing vs. eruptive styles at Mt. Etna volcano (Sicily, Italy). Part I: Volatile stocking, gas fluxing, and the shift from low-energy to highly explosive basaltic eruptions. Chemical Geology, 2018, 482, 1-17.	3.3	43
46	Escalating CO <sub>2</sub> degassing at the Pisciarelli fumarolic system, and implications for the ongoing Campi Flegrei unrest. Journal of Volcanology and Geothermal Research, 2019, 384, 151-157.	2.1	43
47	UV camera measurements of fumarole field degassing (La Fossa crater, Vulcano Island). Journal of Volcanology and Geothermal Research, 2011, 199, 47-52.	2.1	41
48	Dynamics of Outgassing and Plume Transport Revealed by Proximal Unmanned Aerial System (UAS) Measurements at VolcAn Villarrica, Chile. Geochemistry, Geophysics, Geosystems, 2019, 20, 730-750.	2.5	41
49	High time resolution fluctuations in volcanic carbon dioxide degassing from Mount Etna. Journal of Volcanology and Geothermal Research, 2014, 270, 115-121.	2.1	40
50	Hydrothermal pressure-temperature control on CO <sub>2</sub> emissions and seismicity at Campi Flegrei (Italy). Journal of Volcanology and Geothermal Research, 2021, 414, 107245.	2.1	38
51	Volcanic CO <sub>2</sub> flux measurement at Campi Flegrei by tunable diode laser absorption spectroscopy. Bulletin of Volcanology, 2014, 76, 1.	3.0	36
52	AGU Centennial Grand Challenge: Volcanoes and Deep Carbon Global CO <sub>2</sub> Emissions From Subaerial Volcanismâ€“Recent Progress and Future Challenges. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008690.	2.5	36
53	Ground-Based Measurements of the 2014â€“2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29.	2.2	35
54	First determination of magma-derived gas emissions from Bromo volcano, eastern Java (Indonesia). Journal of Volcanology and Geothermal Research, 2015, 304, 206-213.	2.1	34

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55	Spatially resolved SO <sub>2</sub> flux emissions from Mt Etna. <i>Geophysical Research Letters</i> , 2016, 43, 7511-7519.	4.0	34
56	Ultraviolet Imaging of Volcanic Plumes: A New Paradigm in Volcanology. <i>Geosciences (Switzerland)</i> , 2017, 7, 68.	2.2	34
57	Fumarolic tremor and geochemical signals during a volcanic unrest. <i>Geology</i> , 2017, 45, 1131-1134.	4.4	34
58	Gas mass derived by infrasound and UV cameras: Implications for mass flow rate. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 325, 169-178.	2.1	32
59	Gas emissions from five volcanoes in northern Chile and implications for the volatiles budget of the Central Volcanic Zone. <i>Geophysical Research Letters</i> , 2014, 41, 4961-4969.	4.0	31
60	Volcanic CO <sub>2</sub> seep geochemistry and use in understanding ocean acidification. <i>Biogeochemistry</i> , 2021, 152, 93-115.	3.5	31
61	Volcanic gas emissions and degassing dynamics at Ubinas and Sabancaya volcanoes; implications for the volatile budget of the central volcanic zone. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 181-191.	2.1	30
62	The role of melt composition on aqueous fluid vs. silicate melt partitioning of bromine in magmas. <i>Earth and Planetary Science Letters</i> , 2018, 498, 450-463.	4.4	29
63	Carbon concentration increases with depth of melting in Earth's upper mantle. <i>Nature Geoscience</i> , 2021, 14, 697-703.	12.9	29
64	Mercury gas emissions from La Soufrière Volcano, Guadeloupe Island (Lesser Antilles). <i>Chemical Geology</i> , 2009, 266, 267-273.	3.3	27
65	Hydrothermal fluid venting in the offshore sector of Cumbre Vieja caldera: A geochemical, geophysical, and volcanological study. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4153-4178.	2.5	27
66	Combined ground and aerial measurements resolve vent-specific gas fluxes from a multi-vent volcano. <i>Nature Communications</i> , 2020, 11, 3039.	12.8	27
67	Spectroscopic capture of 1 Hz volcanic SO <sub>2</sub> fluxes and integration with volcano geophysical data. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
68	Dynamics of mild strombolian activity on Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 300, 103-111.	2.1	26
69	Volatile contents of mafic-to-intermediate magmas at San Cristóbal volcano in Nicaragua. <i>Lithos</i> , 2017, 272-273, 147-163.	1.4	26
70	The Magmatic Gas Signature of Pacaya Volcano, With Implications for the Volcanic CO <sub>2</sub> Flux From Guatemala. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 667-692.	2.5	26
71	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. <i>Nature Communications</i> , 2021, 12, 1683.	12.8	26
72	Quantification of the depletion of ozone in the plume of Mount Etna. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2613-2628.	4.9	25

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73	Volcanic CO <sub>2</sub> tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	10.3	25
74	Degassing regime of Hekla volcano 2012–2013. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 159, 80-99.	3.9	24
75	Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes. <i>Science Advances</i> , 2020, 6, .	10.3	24
76	Magma Degassing at Piton de la Fournaise Volcano. <i>Active Volcanoes of the World</i> , 2016, , 203-222.	1.4	23
77	Correlation of oscillatory behaviour in Matlab using wavelets. <i>Computers and Geosciences</i> , 2014, 70, 206-212.	4.2	22
78	Exploring the explosive–effusive transition using permanent ultraviolet cameras. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4377-4394.	3.4	22
79	Volcanic CO <sub>2</sub> detection with a DFM/OPA-based lidar. <i>Optics Letters</i> , 2015, 40, 1034.	3.3	21
80	Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment. <i>Geophysical Research Letters</i> , 2016, 43, 5009-5016.	4.0	21
81	First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5355-5378.	4.9	21
82	Volcanic-gas monitoring. , 2015, , 81-96.		20
83	Total (fumarolic+diffuse soil) CO <sub>2</sub> output from Furnas volcano. <i>Earth, Planets and Space</i> , 2015, 67, 174.2.5		20
84	Changes in SO <sub>2</sub> Flux Regime at Mt. Etna Captured by Automatically Processed Ultraviolet Camera Data. <i>Remote Sensing</i> , 2019, 11, 1201.	4.0	20
85	Measurements of volcanic SO <sub>2</sub> and CO <sub>2</sub> fluxes by combined DOAS, Multi-GAS and FTIR observations: a case study from Turrialba and Telica volcanoes. <i>International Journal of Earth Sciences</i> , 2014, 103, 2335-2347.	1.8	19
86	Strombolian eruptions and dynamics of magma degassing at Yasur Volcano (Vanuatu). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 398, 106869.	2.1	19
87	First-time lidar measurement of water vapor flux in a volcanic plume. <i>Optics Communications</i> , 2011, 284, 1295-1298.	2.1	18
88	Magmatic gas percolation through the old lava dome of El Misti volcano. <i>Bulletin of Volcanology</i> , 2017, 79, 46.	3.0	18
89	The composition of fluids stored in the central Mexican lithospheric mantle: Inferences from noble gases and CO <sub>2</sub> in mantle xenoliths. <i>Chemical Geology</i> , 2021, 576, 120270.	3.3	17
90	Fluid geochemistry of the San Vicente geothermal field (El Salvador). <i>Geothermics</i> , 1997, 26, 83-97.	3.4	16

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91	Validation of a novel Multi-Gas sensor for volcanic HCl alongside H <sub>2</sub> S and SO <sub>2</sub> at Mt. Etna. <i>Bulletin of Volcanology</i> , 2017, 79, 36.	3.0	16
92	Dukono, the predominant source of volcanic degassing in Indonesia, sustained by a depleted Indian-MORB. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	16
93	First study of the heat and gas budget for Sirung volcano, Indonesia. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	15
94	Halogen (Cl, F) release during explosive, effusive, and intrusive phases of the 2011 rhyolitic eruption at Cordón Caulle volcano (Chile). <i>Volcanica</i> , 2019, 2, 73-90.	1.8	15
95	Volcanic activity and gas emissions along the South Sandwich Arc. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	14
96	A golden era for volcanic gas geochemistry?. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	14
97	Characterisation of the magmatic signature in gas emissions from Turrialba Volcano, Costa Rica. <i>Solid Earth</i> , 2014, 5, 1341-1350.	2.8	13
98	Geochemical constraints on volatile sources and subsurface conditions at Mount Martin, Mount Mageik, and Trident Volcanoes, Katmai Volcanic Cluster, Alaska. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 64-81.	2.1	12
99	Insights Into the Mechanisms of Phreatic Eruptions From Continuous High Frequency Volcanic Gas Monitoring: Rincon de la Vieja Volcano, Costa Rica. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	12
100	Unrest at the Nevados de Chillán volcanic complex: a failed or yet to unfold magmatic eruption?. <i>Volcanica</i> , 2018, 1, 19-32.	1.8	12
101	The dynamics of slug trains in volcanic conduits: Evidence for expansion driven slug coalescence. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 348, 26-35.	2.1	11
102	Terminal Strombolian activity at Etna's central craters during summer 2012: The most CO <sub>2</sub> -rich volcanic gas ever recorded at Mount Etna. <i>Geochemical Journal</i> , 2016, 50, 123-138.	1.0	11
103	Active Degassing of Deeply Sourced Fluids in Central Europe: New Evidences From a Geochemical Study in Serbia. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010017.	2.5	11
104	Understanding the SO <sub>2</sub> Degassing Budget of Mt Etna's Paroxysms: First Clues From the December 2015 Sequence. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	10
105	BVLOS UAS Operations in Highly-Turbulent Volcanic Plumes. <i>Frontiers in Robotics and AI</i> , 2020, 7, 549716.	3.2	10
106	Tunable diode laser measurements of hydrothermal/volcanic CO <sub>2</sub> and implications for the global CO <sub>2</sub> budget. <i>Solid Earth</i> , 2014, 5, 1209-1221.	2.8	9
107	Volcanic Plume CO <sub>2</sub> Flux Measurements at Mount Etna by Mobile Differential Absorption Lidar. <i>Geosciences (Switzerland)</i> , 2017, 7, 9.	2.2	9
108	Gas emissions and crustal deformation from the Krýkkjúpinn high temperature geothermal system, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106350.	2.1	9

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109	Recycled crustal carbon in the depleted mantle source of El Hierro volcano, Canary Islands. <i>Lithos</i> , 2021, 400-401, 106414.	1.4	9
110	Vulcamera: a program for measuring volcanic SO <sub>2</sub> using UV cameras. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	9
111	In situ Volcano Monitoring. , 2015, , 169-202.		8
112	Early detection of volcanic hazard by lidar measurement of carbon dioxide. <i>Natural Hazards</i> , 2016, 83, 21-29.	3.4	8
113	New Advances in Dial-Lidar-Based Remote Sensing of the Volcanic CO <sub>2</sub> Flux. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	8
114	Geochemistry and isotope composition (Sr, Pb, <sup>66</sup> Zn) of Vulcano fumaroles (Aeolian Islands, Italy). <i>Chemical Geology</i> , 2018, 493, 153-171.	3.3	8
115	Petrological and noble gas features of Lascar and Lastarria volcanoes (Chile): Inferences on plumbing systems and mantle characteristics. <i>Lithos</i> , 2020, 370-371, 105615.	1.4	8
116	Noble gas magmatic signature of the Andean Northern Volcanic Zone from fluid inclusions in minerals. <i>Chemical Geology</i> , 2021, 559, 119966.	3.3	8
117	Reaction path models of magmatic gas scrubbing. <i>Chemical Geology</i> , 2016, 420, 251-269.	3.3	7
118	A Novel and Inexpensive Method for Measuring Volcanic Plume Water Fluxes at High Temporal Resolution. <i>Remote Sensing</i> , 2017, 9, 146.	4.0	7
119	Sulfur Degassing From Steam-Heated Crater Lakes: El Chichón (Chiapas, Mexico) and Veiðti (Iceland). <i>Geophysical Research Letters</i> , 2018, 45, 7504-7513.	4.0	7
120	First characterization of Gamkonora gas emission, North Maluku, East Indonesia. <i>Bulletin of Volcanology</i> , 2020, 82, 1.	3.0	6
121	Crustal controls on light noble gas isotope variability along the Andean Volcanic Arc. <i>Geochemical Perspectives Letters</i> , 0, 19, 45-49.	5.0	6
122	Geochemistry and volatile content of magmas feeding explosive eruptions at Telica volcano (Nicaragua). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 131-148.	2.1	5
123	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.	2.5	5
124	Ultraviolet Camera Measurements of Passive and Explosive (Strombolian) Sulphur Dioxide Emissions at Yasur Volcano, Vanuatu. <i>Remote Sensing</i> , 2020, 12, 2703.	4.0	5
125	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
126	First gas and thermal measurements at the frequently erupting Gamalama volcano (Indonesia) reveal a hydrothermally dominated magmatic system. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 407, 107096.	2.1	4



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127	First In-Situ Measurements of Plume Chemistry at Mount Garet Volcano, Island of Gaua (Vanuatu). Applied Sciences (Switzerland), 2020, 10, 7293.	2.5	4
128	Gas Leakage From Shallow Ponding Magma and Trapdoor Faulting at Sierra Negra Volcano (Isabela) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	4
129	Lidar sounding of volcanic plumes. , 2013, , .		3
130	Heterogeneity of volatile sources along the Halmahera arc, Indonesia. Journal of Volcanology and Geothermal Research, 2021, 418, 107342.	2.1	3
131	Gas Emissions From the Western Aleutians Volcanic Arc. Frontiers in Earth Science, 2021, 9, .	1.8	3
132	Lidar detection of carbon dioxide in volcanic plumes. , 2015, , .		2
133	Elevated CO2 Emissions during Magmatic-Hydrothermal Degassing at Awu Volcano, Sangihe Arc, Indonesia. Geosciences (Switzerland), 2020, 10, 470.	2.2	2
134	<sup>3</sup> He/ <sup>4</sup> He Signature of Magmatic Fluids from Telica (Nicaragua) and Baru (Panama) Volcanoes, Central American Volcanic Arc. Applied Sciences (Switzerland), 2022, 12, 4241.	2.5	2
135	End-Triassic Extinction in a Carbonate Platform From Western Tethys: A Comparison Between Extinction Trends and Geochemical Variations. Frontiers in Earth Science, 2022, 10, .	1.8	2
136	Fast tracking of wind speed with a differential absorption LiDAR system: first results of an experimental campaign at Stromboli volcano. Optical Engineering, 2017, 56, 044104.	1.0	1
137	The Bridge volcanic Lidarâ€™BILLI: A Review of Data Collection and Processing Techniques in the Italian Most Hazardous Volcanic Areas. Applied Sciences (Switzerland), 2020, 10, 6402.	2.5	1