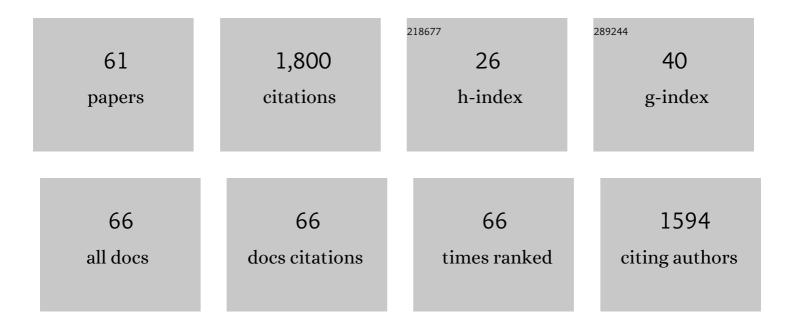
Patricia A Mothes

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tungurahua Volcano, Ecuador: structure, eruptive history and hazards. Journal of Volcanology and Geothermal Research, 1999, 91, 1-21.	2.1	153
2	Intense interface seismicity triggered by a shallow slow slip event in the Central Ecuador subduction zone. Journal of Geophysical Research: Solid Earth, 2013, 118, 2965-2981.	3.4	114
3	Partitioning of oblique convergence in the Northern Andes subduction zone: Migration history and the presentâ€day boundary of the North Andean Sliver in Ecuador. Tectonics, 2016, 35, 1048-1065.	2.8	96
4	The rhyolitic–andesitic eruptive history of Cotopaxi volcano, Ecuador. Bulletin of Volcanology, 2008, 70, 675-702.	3.0	82
5	The enormous Chillos Valley Lahar: an ash-flow-generated debris flow from Cotopaxi Volcano, Ecuador. Bulletin of Volcanology, 1998, 59, 233-244.	3.0	71
6	Areas prone to slow slip events impede earthquake rupture propagation and promote afterslip. Science Advances, 2018, 4, eaao6596.	10.3	70
7	The Response of Vegetation on the Andean Flank in Western Amazonia to Pleistocene Climate Change. Science, 2011, 331, 1055-1058.	12.6	57
8	Towards coordinated regional multi-satellite InSAR volcano observations: results from the Latin America pilot project. Journal of Applied Volcanology, 2018, 7, .	2.0	53
9	Juvenile magma recognition and eruptive dynamics inferred from the analysis of ash time series: The 2015 reawakening of Cotopaxi volcano. Journal of Volcanology and Geothermal Research, 2016, 328, 134-146.	2.1	51
10	Source process of very-long-period events accompanying long-period signals at Cotopaxi Volcano, Ecuador. Journal of Volcanology and Geothermal Research, 2008, 176, 119-133.	2.1	48
11	Estimating volcanic deformation source parameters with a finite element inversion: The 2001–2002 unrest at Cotopaxi volcano, Ecuador. Journal of Geophysical Research: Solid Earth, 2015, 120, 1473-1486.	3.4	43
12	The scientific–community interface over the fifteen-year eruptive episode of Tungurahua Volcano, Ecuador. Journal of Applied Volcanology, 2015, 4, .	2.0	43
13	Decaying Lava Extrusion Rate at El Reventador Volcano, Ecuador, Measured Using Highâ€Resolution Satellite Radar. Journal of Geophysical Research: Solid Earth, 2017, 122, 9966-9988.	3.4	41
14	Seismic, Volcanic, and Geodetic Networks in Ecuador: Building Capacity for Monitoring and Research. Seismological Research Letters, 2018, 89, 432-439.	1.9	40
15	Sequential plug formation, disintegration by Vulcanian explosions, and the generation of granular Pyroclastic Density Currents at Tungurahua volcano (2013–2014), Ecuador. Journal of Volcanology and Geothermal Research, 2015, 306, 90-103.	2.1	39
16	Shallow earthquake inhibits unrest near Chiles–Cerro Negro volcanoes, Ecuador–Colombian border. Earth and Planetary Science Letters, 2016, 450, 283-291.	4.4	38
17	Enhancing volcano-monitoring capabilities in Ecuador. Eos, 2007, 88, 245-246.	0.1	37
18	Late Holocene phases of dome growth and Plinian activity at Guagua Pichincha volcano (Ecuador). Journal of Volcanology and Geothermal Research, 2008, 176, 7-15.	2.1	36

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19	Geochemistry and Petrology of the Most Recent Deposits from Cotopaxi Volcano, Northern Volcanic Zone, Ecuador. Journal of Petrology, 2011, 52, 1641-1678.	2.8	36
20	Volcanic eruptions with little warning: the case of Volcán Reventador's Surprise November 3, 2002 Eruption, Ecuador. Andean Geology, 2004, 31, .	0.5	36
21	Pre-eruptive physical conditions of El Reventador volcano (Ecuador) inferred from the petrology of the 2002 and 2004–05 eruptions. Journal of Volcanology and Geothermal Research, 2008, 176, 82-93.	2.1	35
22	Understanding cyclic seismicity and ground deformation patterns at volcanoes: Intriguing lessons from Tungurahua volcano, Ecuador. Earth and Planetary Science Letters, 2018, 482, 193-200.	4.4	35
23	Stratovolcano growth by coâ€eruptive intrusion: The 2008 eruption of Tungurahua Ecuador. Geophysical Research Letters, 2010, 37, .	4.0	31
24	The plinian fallout associated with Quilotoa's 800Âyr BP eruption, Ecuadorian Andes. Journal of Volcanology and Geothermal Research, 2008, 176, 56-69.	2.1	30
25	The rise and fall of periodic â€~drumbeat' seismicity at Tungurahua volcano, Ecuador. Earth and Planetary Science Letters, 2017, 475, 58-70.	4.4	29
26	Using satellite radar amplitude imaging for monitoring syn-eruptive changes in surface morphology at an ice-capped stratovolcano. Remote Sensing of Environment, 2018, 209, 480-488.	11.0	26
27	Imaging rapid early afterslip of the 2016 Pedernales earthquake, Ecuador. Earth and Planetary Science Letters, 2019, 524, 115724.	4.4	25
28	Continuous <scp>GPS</scp> Network Operating Throughout Ecuador. Eos, 2013, 94, 229-231.	0.1	23
29	Antisana volcano: A representative andesitic volcano of the eastern cordillera of Ecuador: Petrography, chemistry, tephra and glacial stratigraphy. Journal of South American Earth Sciences, 2017, 73, 50-64.	1.4	23
30	Ground deformation before the 2015 eruptions of Cotopaxi volcano detected by InSAR. Geophysical Research Letters, 2017, 44, 6607-6615.	4.0	22
31	Volcanic Eruption Forecasts From Accelerating Rates of Drumbeat Longâ€Period Earthquakes. Geophysical Research Letters, 2018, 45, 1339-1348.	4.0	22
32	Volcano deformation survey over the Northern and Central Andes with ALOS InSAR time series. Geochemistry, Geophysics, Geosystems, 2016, 17, 2869-2883.	2.5	21
33	Quilotoa volcano — Ecuador: An overview of young dacitic volcanism in a lake-filled caldera. Journal of Volcanology and Geothermal Research, 2008, 176, 44-55.	2.1	17
34	Shallow-level differentiation of phonolitic lavas from Sumaco Volcano, Ecuador. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	17
35	Triggering of the powerful 14 July 2013 Vulcanian explosion at Tungurahua Volcano, Ecuador. Journal of Volcanology and Geothermal Research, 2020, 392, 106762.	2.1	17
36	Mapping and measuring lava volumes from 2002 to 2009 at El Reventador Volcano, Ecuador, from field measurements and satellite remote sensing. Journal of Applied Volcanology, 2016, 5, .	2.0	15

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37	Storage conditions of the mafic and silicic magmas at Cotopaxi, Ecuador. Journal of Volcanology and Geothermal Research, 2018, 354, 74-86.	2.1	14
38	Lava flow morphology at an erupting andesitic stratovolcano: A satellite perspective on El Reventador, Ecuador. Journal of Volcanology and Geothermal Research, 2019, 372, 34-47.	2.1	14
39	Crustal thickness and magma storage beneath the Ecuadorian arc. Journal of South American Earth Sciences, 2021, 110, 103331.	1.4	14
40	Monitoring the Earthquake Cycle in the Northern Andes from the Ecuadorian cGPS Network. Seismological Research Letters, 2018, 89, 534-541.	1.9	13
41	Enormous and far-reaching debris avalanche deposits from Sangay volcano (Ecuador): Multidisciplinary study and modeling the 30Âka sector collapse. Journal of Volcanology and Geothermal Research, 2021, 411, 107172.	2.1	12
42	Forests of the tropical eastern Andean flank during the middle Pleistocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 393, 76-89.	2.3	11
43	Aquatic community response to volcanic eruptions on the Ecuadorian Andean flank: evidence from the palaeoecological record. Journal of Paleolimnology, 2017, 58, 437-453.	1.6	11
44	Instituto GeofÃsico – Escuela Politécnica Nacional, the Ecuadorian Seismology and Volcanology Service. Volcanica, 2021, 4, 93-112.	1.8	11
45	Forecasting mechanical failure and the 26 June 2018 eruption of Sierra Negra Volcano, Galápagos, Ecuador. Science Advances, 2022, 8, .	10.3	11
46	Geophysical Footprints of Cotopaxi's Unrest and Minor Eruptions in 2015: An Opportunity to Test Scientific and Community Preparedness. Advances in Volcanology, 2017, , 241-270.	1.1	10
47	Landscape-scale drivers of glacial ecosystem change in the montane forests of the eastern Andean flank, Ecuador. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 489, 198-208.	2.3	10
48	Rapid localized flank inflation and implications for potential slope instability at Tungurahua volcano, Ecuador. Earth and Planetary Science Letters, 2020, 534, 116104.	4.4	10
49	Obsidian source characterization in the Cordillera Real and eastern piedmont of the north Ecuadorian Andes. Journal of Archaeological Science, 2011, 38, 1069-1079.	2.4	9
50	30,000 years of landscape and vegetation dynamics in a mid-elevation Andean valley. Quaternary Science Reviews, 2021, 258, 106866.	3.0	9
51	Historical Distal Lahar Deposits on the Remote Eastern-Drainage of Cotopaxi Volcano, Ecuador. Journal of South American Earth Sciences, 2019, 95, 102251.	1.4	8
52	Hydrothermal fluid migration due to interaction with shallow magma: Insights from gravity changes before and after the 2015 eruption of Cotopaxi volcano, Ecuador. Journal of Volcanology and Geothermal Research, 2019, 387, 106667.	2.1	8
53	Combining Magma Flow and Deformation Modeling to Explain Observed Changes in Tilt. Frontiers in Earth Science, 2019, 7, .	1.8	8
54	The 1877 lahar deposits on the eastern flank of Cotopaxi volcano. Geomorphologie Relief, Processus, Environnement, 2007, 13, 271-280.	0.4	8

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55	Response to Comment on "The Response of Vegetation on the Andean Flank in Western Amazonia to Pleistocene Climate Change― Science, 2011, 333, 1825-1825.	12.6	7
56	Temporal evolution of the magmatic system at Tungurahua Volcano, Ecuador, detected by geodetic observations. Journal of Volcanology and Geothermal Research, 2018, 368, 63-72.	2.1	7
57	Hazards at ice-clad volcanoes: Phenomena, processes, and examples from Mexico, Colombia, Ecuador, and Chile. , 2021, , 597-639.		6
58	The "Mera―lahar deposit in the upper Amazon basin: Transformation of a late Pleistocene collapse at Huisla volcano, central Ecuador. Journal of Volcanology and Geothermal Research, 2019, 385, 103-119.	2.1	5
59	Drumbeat LP "Aftershocks―to a Failed Explosive Eruption at Tungurahua Volcano, Ecuador. Geophysical Research Letters, 2020, 47, e2020GL088301.	4.0	4
60	Lahars of Cotopaxi Volcano, Ecuador: hazard and risk evaluation. , 1992, , 53-63.		4
61	New observations on the recent eruptive activity of Sumaco Volcano (Ecuador), based on geochronology, stratigraphy and petrography. Journal of South American Earth Sciences, 2021, 112, 103568.	1.4	2