Robin Matoza

List of Publications by Year
in descending order

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73 papers	2,781 citations	212478 28 h-index	214428 50 g-index
84 all docs	84 docs citations	84 times ranked	1655 citing authors

#	Article	IF	Citations
1	High-rate very-long-period seismicity at Yasur volcano, Vanuatu: source mechanism and decoupling from surficial explosions and infrasound. Geophysical Journal International, 2022, 230, 392-426.	1.0	11
2	Synthetic Evaluation of Infrasonic Multipole Waveform Inversion. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	6
3	Trends in volcano seismology: 2010 to 2020 and beyond. Bulletin of Volcanology, 2022, 84, 1.	1.1	14
4	Evidence for near-source nonlinear propagation of volcano infrasound from Strombolian explosions at Yasur Volcano, Vanuatu. Bulletin of Volcanology, 2022, 84, 1.	1.1	5
5	Longâ€Range Multiâ€Year Infrasonic Detection of Eruptive Activity at Mount Michael Volcano, South Sandwich Islands. Geophysical Research Letters, 2022, 49, .	1.5	4
6	Volcano infrasound: progress and future directions. Bulletin of Volcanology, 2022, 84, 1.	1.1	13
7	Autocorrelation Infrasound Interferometry on Mars. Geophysical Research Letters, 2022, 49, .	1.5	1
8	Infrasound single-channel noise reduction: application to detection and localization of explosive volcanism in Alaska using backprojection and array processing. Geophysical Journal International, 2022, 232, 1684-1712.	1.0	0
9	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. Science, 2022, 377, 95-100.	6.0	170
10	Updated Global Reference Models of Broadband Coherent Infrasound Signals for Atmospheric Studies and Civilian Applications. Earth and Space Science, 2022, 9, .	1.1	3
11	Comprehensive Highâ€Precision Relocation of Seismicity on the Island of Hawaiâ€˜i 1986â€“2018. Earth and Space Science, 2021, 8, e2020EA001253.	1.1	9
12	Local Explosion Detection and Infrasound Localization by Reverse Time Migration Using 3-D Finite-Difference Wave Propagation. Frontiers in Earth Science, 2021, 9, .	0.8	20
13	Seismology on Venus with infrasound observations from balloon and orbit. , 2021, 53, .		0
14	Autocorrelation Infrasound Interferometry. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020513.	1.4	8
15	Reconstructing the dynamics of the highly similar May 2016 and June 2019 Iliamna Volcano (Alaska) iceâ€“rock avalanches from seismoacoustic data. Earth Surface Dynamics, 2021, 9, 271-293.	1.0	13
16	A Pilot Experiment on Infrasonic Lahar Detection at Mount Adams, Cascades: Ambient Infrasound and Wind-Noise Characterization at a Quiescent Stratovolcano. Seismological Research Letters, 2021, 92, 3065-3086.	0.8	6
17	Earthquake collapse mechanisms and periodic, migrating seismicity during the 2018 summit collapse at KÄ«lauea caldera. Earth and Planetary Science Letters, 2021, 562, 116819.	1.8	9
18	Evaluating the applicability of a screen diffraction approximation to local volcano infrasound. Volcanica, 2021, 4, 67-85.	0.6	14

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19	Remote hydroacoustic-infrasonic detection and characterization of Anak Krakatau eruptive activity leading to, during, and following the December 2018 flank collapse and tsunami. Bulletin of Volcanology, 2021, 83, 1.	1.1	6
20	Seismo-acoustic characterisation of the 2018 Ambae (Manaro Voui) eruption, Vanuatu. Bulletin of Volcanology, 2021, 83, 1.	1.1	7
21	Ground-coupled airwaves template match detection using broadband seismic records of explosive eruptions at PopocatÃ©petl volcano, Mexico. Journal of Volcanology and Geothermal Research, 2021, 419, 107378.	0.8	7
22	Evaluating the state-of-the-art in remote volcanic eruption characterization Part I: Raikoke volcano, Kuril Islands. Journal of Volcanology and Geothermal Research, 2021, 419, 107354.	0.8	21
23	Evaluating the state-of-the-art in remote volcanic eruption characterization Part II: Ulawun volcano, Papua New Guinea. Journal of Volcanology and Geothermal Research, 2021, 420, 107381.	0.8	10
24	Seismicity from the deep magma system. Science, 2020, 368, 708-709.	6.0	4
25	Co-eruptive tremor from Bogoslof volcano: seismic wavefield composition at regional distances. Bulletin of Volcanology, 2020, 82, 1.	1.1	16
26	Remote Detection and Location of Explosive Volcanism in Alaska With the EarthScope Transportable Array. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018347.	1.4	11
27	Investigating Spectral Distortion of Local Volcano Infrasound by Nonlinear Propagation at Sakurajima Volcano, Japan. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018284.	1.4	11
28	Multi-year regional infrasound detection of Tungurahua, El Reventador, and Sangay volcanoes in Ecuador from 2006 to 2013. Proceedings of Meetings on Acoustics, 2020, , .	0.3	6
29	Volcanic ballistic projectile deposition from a continuously erupting volcano: Yasur Volcano, Vanuatu. Volcanica, 2020, 3, 183-204.	0.6	11
30	Threeâ€Dimensional Acoustic Multipole Waveform Inversion at Yasur Volcano, Vanuatu. Journal of Geophysical Research: Solid Earth, 2019, 124, 8679-8703.	1.4	46
31	Highâ€Broadband Seismoacoustic Signature of Vulcanian Explosions at PopocatÃ©petl Volcano, Mexico. Geophysical Research Letters, 2019, 46, 148-157.	1.5	29
32	A prototype soundproof box for isolating ground-air seismo-acoustic signals. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
33	Volcano Infrasound and the International Monitoring System. , 2019, , 1023-1077.		51
34	Systematic Array Processing of a Decade of Global IMS Infrasound Data. , 2019, , 471-482.		26
35	Seismic equivalents of volcanic jet scaling laws and multipoles in acoustics. Geophysical Journal International, 2018, 213, 623-636.	1.0	20
36	Local, Regional, and Remote Seismoâ€acoustic Observations of the April 2015 VEI 4 Eruption of Calbuco Volcano, Chile. Journal of Geophysical Research: Solid Earth, 2018, 123, 3814-3827.	1.4	46

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37	Infrasound Signal Detection and Back Azimuth Estimation Using Groundâ€Coupled Airwaves on a Seismoâ€Acoustic Sensor Pair. Journal of Geophysical Research: Solid Earth, 2018, 123, 6826-6844.	1.4	31
38	Seismic and acoustic signatures of surficial mass movements at volcanoes. Journal of Volcanology and Geothermal Research, 2018, 364, 76-106.	0.8	62
39	Volcanic tremor and plume height hysteresis from Pavlof Volcano, Alaska. Science, 2017, 355, 45-48.	6.0	56
40	Automated detection and cataloging of global explosive volcanism using the International Monitoring System infrasound network. Journal of Geophysical Research: Solid Earth, 2017, 122, 2946-2971.	1.4	43
41	Analysis of gas jetting and fumarole acoustics at Aso Volcano, Japan. Journal of Volcanology and Geothermal Research, 2017, 340, 16-29.	0.8	30
42	Capturing the Acoustic Radiation Pattern of Strombolian Eruptions using Infrasound Sensors Aboard a Tethered Aerostat, Yasur Volcano, Vanuatu. Geophysical Research Letters, 2017, 44, 9672-9680.	1.5	34
43	Seismic Envelopeâ€Based Detection and Location of Groundâ€Coupled Airwaves from Volcanoes in Alaska. Bulletin of the Seismological Society of America, 2016, 106, 1024-1035.	1.1	29
44	Source mechanism of small longâ€period events at Mount St. Helens in July 2005 using template matching, phaseâ€weighted stacking, and fullâ€waveform inversion. Journal of Geophysical Research: Solid Earth, 2015, 120, 6351-6364.	1.4	27
45	Systematic mining and reanalysis of large volcano-seismic waveform datasets. , 2015, , .		0
46	Acoustic Characterization of Explosion Complexity at Sakurajima, Karymsky, and Tungurahua Volcanoes. Seismological Research Letters, 2014, 85, 1187-1199.	0.8	27
47	Threeâ€dimensional seismic velocity structure of Mauna Loa and Kilauea volcanoes in Hawaii from local seismic tomography. Journal of Geophysical Research: Solid Earth, 2014, 119, 4377-4392.	1.4	79
48	Three-dimensional volcano-acoustic source localization at Karymsky Volcano, Kamchatka, Russia. Journal of Volcanology and Geothermal Research, 2014, 283, 101-115.	0.8	25
49	Highâ€precision relocation of longâ€period events beneath the summit region of KÄ±Ì„lauea Volcano, Hawaiâ€˜i, from 1986 to 2009. Geophysical Research Letters, 2014, 41, 3413-3421.	1.5	30
50	Infrasonic component of volcano-seismic eruption tremor. Geophysical Research Letters, 2014, 41, 1964-1970.	1.5	47
51	A multi-decadal view of seismic methods for detecting precursors of magma movement and eruption. Journal of Volcanology and Geothermal Research, 2013, 252, 108-175.	0.8	372
52	Hydroacoustic, infrasonic and seismic monitoring of the submarine eruptive activity and sub-aerial plume generation at South Sarigan, May 2010. Journal of Volcanology and Geothermal Research, 2013, 257, 31-43.	0.8	41
53	Coherent ambient infrasound recorded by the International Monitoring System. Geophysical Research Letters, 2013, 40, 429-433.	1.5	64
54	An overview of volcano infrasound: From hawaiian to plinian, local to global. Journal of Volcanology and Geothermal Research, 2013, 249, 123-139.	0.8	223

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55	Systematic relocation of seismicity on Hawaii Island from 1992 to 2009 using waveform cross correlation and cluster analysis. Journal of Geophysical Research: Solid Earth, 2013, 118, 2275-2288.	1.4	54
56	Volcano acoustics. , 2013, , 359-383.		21
57	Aeroacoustics of volcanic jets: Acoustic power estimation and jet velocity dependence. Journal of Geophysical Research: Solid Earth, 2013, 118, 6269-6284.	1.4	57
58	Infrasonic crackle and supersonic jet noise from the eruption of Nabro Volcano, Eritrea. Geophysical Research Letters, 2013, 40, 4199-4203.	1.5	30
59	Localization of microbarom sources using the IMS infrasound network. Journal of Geophysical Research, 2012, 117, .	3.3	51
60	Infrasonic propagation from the 2010 EyjafjallajÃ¶kull eruption: Investigating the influence of stratospheric solar tides. Journal of Geophysical Research, 2012, 117, .	3.3	24
61	Infrasound data inversion for atmospheric sounding. Geophysical Journal International, 2012, 190, 687-701.	1.0	41
62	Long-range acoustic observations of the EyjafjallajÃ¶kull eruption, Iceland, April-May 2010. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	52
63	Infrasonic observations of the June 2009 Sarychev Peak eruption, Kuril Islands: Implications for infrasonic monitoring of remote explosive volcanism. Journal of Volcanology and Geothermal Research, 2011, 200, 35-48.	0.8	90
64	Infrasonic tremor wavefield of the Pu`u `ÅŒ`Å•crater complex and lava tube system, Hawaii, in April 2007. Journal of Geophysical Research, 2010, 115, .	3.3	40
65	Subevents of longâ€period seismicity: Implications for hydrothermal dynamics during the 2004â€“2008 eruption of Mount St. Helens. Journal of Geophysical Research, 2010, 115, .	3.3	58
66	The source of infrasound associated with longâ€period events at Mount St. Helens. Journal of Geophysical Research, 2009, 114, .	3.3	72
67	Infrasonic jet noise from volcanic eruptions. Geophysical Research Letters, 2009, 36, .	1.5	100
68	Capturing the Acoustic Fingerprint of Stratospheric Ash Injection. Eos, 2008, 89, 377-378.	0.1	66
69	Seismic and acoustic recordings of an unusually large rockfall at Mount St. Helens, Washington. Geophysical Research Letters, 2008, 35, .	1.5	53
70	An infrasound array study of Mount St. Helens. Journal of Volcanology and Geothermal Research, 2007, 160, 249-262.	0.8	99
71	Fitting Jet Noise Similarity Spectra to Volcano Infrasound Data. Earth and Space Science, 0, , .	1.1	4
72	Narrow-Band Least-Squares Infrasound Array Processing. Seismological Research Letters, 0, , .	0.8	4

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73	Experimental multiblast craters and ejecta â€" seismoâ€acoustics, jet characteristics, craters, and ejecta deposits and implications for volcanic explosions. Journal of Geophysical Research: Solid Earth, 0, , .	1.4	1