Jelle Assink

List of Publications by Year
in descending order

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44 papers	1,897 citations	279701 23 h-index	276775 41 g-index
57 all docs	57 docs citations	57 times ranked	1748 citing authors

#	Article	IF	Citations
1	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. Nature, 2013, 503, 238-241.	13.7	348
2	Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. Science, 2020, 369, 1338-1343.	6.0	202
3	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. Science, 2022, 377, 95-100.	6.0	170
4	Comparison of coâ€located independent groundâ€based middle atmospheric wind and temperature measurements with numerical weather prediction models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8318-8331.	1.2	85
5	Overview of the 2009 and 2011 Sayarim Infrasound Calibration Experiments. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6122-6143.	1.2	65
6	On the sensitivity of infrasonic traveltimes in the equatorial region to the atmospheric tides. Journal of Geophysical Research, 2012, 117, .	3.3	54
7	The estimation of upper atmospheric wind model updates from infrasound data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,707.	1.2	47
8	Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project. Surveys in Geophysics, 2018, 39, 171-225.	2.1	47
9	Bidirectional infrasonic ducts associated with sudden stratospheric warming events. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1140-1153.	1.2	43
10	Evaluation of wind and temperature profiles from ECMWF analysis on two hemispheres using volcanic infrasound. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8659-8683.	1.2	43
11	Characterization of infrasound from lightning. Geophysical Research Letters, 2008, 35, .	1.5	41
12	Modelling waveforms of infrasound arrivals from impulsive sources using weakly non-linear ray theory. Geophysical Journal International, 2015, 200, 1347-1361.	1.0	41
13	On the infrasound detected from the 2013 and 2016 DPRK's underground nuclear tests. Geophysical Research Letters, 2016, 43, 3526-3533.	1.5	41
14	Propagation Modeling Through Realistic Atmosphere and Benchmarking. , 2019, , 509-549.		37
15	Sexâ€specific effects of wind on the flight decisions of a sexually dimorphic soaring bird. Journal of Animal Ecology, 2020, 89, 1811-1823.	1.3	37
16	The stratospheric arrival pair in infrasound propagation. Journal of the Acoustical Society of America, 2015, 137, 1846-1856.	0.5	35
17	Study of the wind velocityâ€layered structure in the stratosphere, mesosphere, and lower thermosphere by using infrasound probing of the atmosphere. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8828-8840.	1.2	34
18	Seismoacoustic Coupled Signals From Earthquakes in Central Italy: Epicentral and Secondary Sources of Infrasound. Geophysical Research Letters, 2018, 45, 427-435.	1.5	32

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19	Evanescent wave coupling in a geophysical system: Airborne acoustic signals from the M_w 8.1 Macquarie Ridge earthquake. Geophysical Research Letters, 2014, 41, 1644-1650.	1.5	29
20	ECMWF SSW forecast evaluation using infrasound. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4637-4650.	1.2	29
21	CLEAN beamforming for the enhanced detection of multiple infrasonic sources. Geophysical Journal International, 2020, 221, 305-317.	1.0	29
22	Modal expansions for infrasound propagation and their implications for ground-to-ground propagation. Journal of the Acoustical Society of America, 2017, 141, 1290-1307.	0.5	27
23	A Seismoâ€Acoustic Analysis of the 2017 North Korean Nuclear Test. Seismological Research Letters, 2018, 89, 2025-2033.	0.8	26
24	Advances in Infrasonic Remote Sensing Methods. , 2019, , 605-632.		24
25	Estimates of plume height from infrasound for regional volcano monitoring. Journal of Volcanology and Geothermal Research, 2020, 402, 106997.	0.8	24
26	A wide-angle high Mach number modal expansion for infrasound propagation. Journal of the Acoustical Society of America, 2017, 141, 1781-1792.	0.5	23
27	Assessing and optimizing the performance of infrasound networks to monitor volcanic eruptions. Geophysical Journal International, 2017, 208, 437-448.	1.0	23
28	Reconstruction of the 2018 tsunamigenic flank collapse and eruptive activity at Anak Krakatau based on eyewitness reports, seismo-acoustic and satellite observations. Earth and Planetary Science Letters, 2020, 541, 116268.	1.8	23
29	The 2010 Haiti earthquake revisited: An acoustic intensity map from remote atmospheric infrasound observations. Earth and Planetary Science Letters, 2021, 560, 116795.	1.8	23
30	Long-range atmospheric infrasound propagation from subsurface sources. Journal of the Acoustical Society of America, 2020, 147, 1264-1274.	0.5	22
31	Infrasonic hearing in birds: a review of audiometry and hypothesized structureâ€“function relationships. Biological Reviews, 2020, 95, 1036-1054.	4.7	22
32	Correlation Between GNSSâ€TEC and Eruption Magnitude Supports the Use of Ionospheric Sensing to Complement Volcanic Hazard Assessment. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020726.	1.4	22
33	Acoustic detection, tracking, and characterization of three tornadoes. Journal of the Acoustical Society of America, 2014, 135, 1742-1751.	0.5	21
34	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	0.7	21
35	The Study of Sudden Stratospheric Warmings Using Infrasound. , 2019, , 723-755.		14
36	A Threeâ€Dimensional Array for the Study of Infrasound Propagation Through the Atmospheric Boundary Layer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9299-9313.	1.2	12

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37	Extracting low signal-to-noise ratio events with the Hough transform from sparse array data. Geophysics, 2018, 83, WC43-WC51.	1.4	10
38	Infrasound from the 2009 and 2017 DPRK rocket launches. Geophysical Journal International, 2018, 213, 1785-1791.	1.0	10
39	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
40	Infrasound as a Cue for Seabird Navigation. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	7
41	The INFRA-EAR: a low-cost mobile multidisciplinary measurement platform for monitoring geophysical parameters. Atmospheric Measurement Techniques, 2021, 14, 3301-3317.	1.2	6
42	A Birdâ€™sâ€Eye View on Ambient Infrasonic Soundscapes. Geophysical Research Letters, 2021, 48, e2021GL094555.	1.5	5
43	Longâ€Term Infrasonic Monitoring of Land and Marineâ€Terminating Glaciers in Greenland. Geophysical Research Letters, 2022, 49, .	1.5	2
44	A climatology of microbarom detections at the Kerguelen Islands: unravelling the ambient noise wavefield. Geophysical Journal International, 0, , .	1.0	1