

Jonathan Lees

List of Publications by Year in descending order

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111
papers

5,942
citations

101384

36
h-index

76769

74
g-index

115
all docs

115
docs citations

115
times ranked

4956
citing authors

#	ARTICLE	IF	CITATIONS
1	Topographically Scattered Infrasound Waves Observed on Microbarometer Arrays in the Lower Stratosphere. <i>Earth and Space Science</i> , 2022, 9, .	1.1	6
2	Persistent shallow micro-seismicity at Llaima volcano, Chile, with implications for long-term monitoring. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 426, 107528.	0.8	1
3	Monitoring changes in human activity during the COVID-19 shutdown in Las Vegas using infrasound microbarometers. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 1796-1802.	0.5	10
4	Audible acoustics from low-magnitude fluid-induced earthquakes in Finland. <i>Scientific Reports</i> , 2021, 11, 19206.	1.6	7
5	Investigating potential icequakes at Llaima volcano, Chile. <i>Volcanica</i> , 2020, 3, 29-42.	0.6	3
6	Modeling source parameters of quasi-periodic tremor. <i>Volcanica</i> , 2020, 3, 251-262.	0.6	1
7	Lithospheric structure of an incipient rift basin: Results from receiver function analysis of Bransfield Strait, NW Antarctic Peninsula. <i>Polar Science</i> , 2018, 16, 47-58.	0.5	10
8	Explosion-Generated Infrasound Recorded on Ground and Airborne Microbarometers at Regional Distances. <i>Seismological Research Letters</i> , 2018, 89, 1497-1506.	0.8	13
9	Upper Atmosphere Heating From Ocean-Generated Acoustic Wave Energy. <i>Geophysical Research Letters</i> , 2018, 45, 5144-5150.	1.5	14
10	Detecting Lightning Infrasound Using a High-Altitude Balloon. <i>Geophysical Research Letters</i> , 2018, 45, 7176-7183.	1.5	19
11	Effects of the Iceland plume on Greenland's lithosphere: New insights from ambient noise tomography. <i>Polar Science</i> , 2018, 17, 75-82.	0.5	8
12	Acoustic and Seismic Fields of Hydraulic Jumps at Varying Froude Numbers. <i>Geophysical Research Letters</i> , 2017, 44, 9734-9741.	1.5	10
13	A Comparison of the Ocean Microbarom Recorded on the Ground and in the Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9773-9782.	1.2	15
14	A Sensor Network for Real-Time Volcano Tomography: System Design and Deployment. , 2017, , .		7
15	Direct measurement of the acoustic wave field in the stratosphere. , 2016, , .		5
16	Three-dimensional attenuation model of Sierra Negra Volcano, Galápagos Archipelago. <i>Geophysical Research Letters</i> , 2016, 43, 6259-6266.	1.5	6
17	In situ biomonitoring shows seasonal patterns and environmentally mediated gaping activity in the bivalve, <i>Pinna nobilis</i> . <i>Marine Biology</i> , 2016, 163, 1.	0.7	26
18	Distributed travel-time seismic tomography in large-scale sensor networks. <i>Journal of Parallel and Distributed Computing</i> , 2016, 89, 50-64.	2.7	21

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19	Acoustic source inversion to estimate volume flux from volcanic explosions. <i>Geophysical Research Letters</i> , 2015, 42, 5243-5249.	1.5	72
20	Infrasound in the middle stratosphere measured with a free-flying acoustic array. <i>Geophysical Research Letters</i> , 2015, 42, 10,010.	1.5	24
21	Observations and Analyses of Shear-Wave Splitting in the Geothermal Field at Hengill, Iceland. <i>Seismological Research Letters</i> , 2015, 86, 424-430.	0.8	0
22	ClamR: A statistical evaluation of isotopic and temperature records in sclerochronologic studies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 437, 26-32.	1.0	5
23	Near real time weather and ocean model data access with rNOMADS. <i>Computers and Geosciences</i> , 2015, 78, 88-95.	2.0	17
24	Imaging volcanic infrasound sources using time reversal mirror algorithm. <i>Geophysical Journal International</i> , 2015, 202, 1663-1676.	1.0	9
25	Local Volcano Infrasound and Source Localization Investigated by 3D Simulation. <i>Seismological Research Letters</i> , 2014, 85, 1177-1186.	0.8	42
26	Instrument Corrections by Time-Domain Deconvolution. <i>Seismological Research Letters</i> , 2014, 85, 197-201.	0.8	2
27	The acoustic signatures of ground acceleration, gas expansion, and spall fallback in experimental volcanic explosions. <i>Geophysical Research Letters</i> , 2014, 41, 1916-1922.	1.5	20
28	Source mechanism of Vulcanian eruption at Tungurahua Volcano, Ecuador, derived from seismic moment tensor inversions. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1145-1164.	1.4	17
29	Explosive dome eruptions modulated by periodic gas-driven inflation. <i>Geophysical Research Letters</i> , 2014, 41, 6689-6697.	1.5	43
30	A Dangling Slab, Amplified Arc Volcanism, Mantle Flow and Seismic Anisotropy in the Kamchatka Plate Corner. <i>Geodynamic Series</i> , 2013, , 295-324.	0.1	31
31	The Hilbert-Huang Transform: A High Resolution Spectral Method for Nonlinear and Nonstationary Time Series. <i>Seismological Research Letters</i> , 2013, 84, 1074-1080.	0.8	46
32	Volcanic earthquake timing using wireless sensor networks. , 2013, , .		40
33	Imaging seismic tomography in sensor network. , 2013, , .		6
34	Switching between seismic and seismo-acoustic harmonic tremor simulated in the laboratory: Insights into the role of open degassing channels and magma viscosity. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 277-289.	1.4	22
35	Open and Free: Software and Scientific Reproducibility. <i>Seismological Research Letters</i> , 2012, 83, 751-752.	0.8	14
36	Acoustic multipole source model for volcanic explosions and inversion for source parameters. <i>Geophysical Journal International</i> , 2012, 191, 1192-1204.	1.0	57

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37	Tilt prior to explosions and the effect of topography on ultra-long period seismic records at Fuego volcano, Guatemala. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	50
38	Source and Propagation Effects on Near-Field Co-Eruptive Ground Motion at Santiaguito Volcano, Guatemala. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 696-706.	1.1	4
39	Finite-difference time-domain modeling of transient infrasonic wavefields excited by volcanic explosions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	52
40	Ecological information and water mass properties in the Mediterranean recorded by stable isotope ratios in <i>Pinna nobilis</i> shells. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
41	Synthesizing knowledge of ocean islands. <i>Eos</i> , 2011, 92, 388-388.	0.1	0
42	Characterizing complex eruptive activity at Santiaguito, Guatemala using infrasound semblance in networked arrays. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 199, 1-14.	0.8	16
43	Earthquake source parameters at the sumatran fault zone: Identification of the activated fault plane. <i>Open Geosciences</i> , 2010, 2, .	0.6	2
44	Ultra-long period seismic signals and cyclic deflation coincident with eruptions at Santiaguito volcano, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 35-44.	0.8	30
45	Sound produced by the rapidly inflating Santiaguito lava dome, Guatemala. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	25
46	Intrinsic and scattering attenuation of the Mt Fuji Region, Japan. <i>Geophysical Journal International</i> , 2009, 177, 1366-1382.	1.0	23
47	Dissection of a composite volcanic earthquake at Santiaguito, Guatemala. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	20
48	Long-period earthquakes and co-eruptive dome inflation seen with particle image velocimetry. <i>Nature</i> , 2008, 456, 377-381.	13.7	87
49	Non-linear explosion tremor at Sangay, Volcano, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 170-178.	0.8	23
50	Reventador Volcano 2005: Eruptive activity inferred from seismo-acoustic observation. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 179-190.	0.8	38
51	Seismic imaging of the geothermal field at Krafla, Iceland using shear-wave splitting. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 315-324.	0.8	15
52	Eruption dynamics of the SW crater of Stromboli volcano, Italy – An interdisciplinary approach. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 565-570.	0.8	24
53	A Study of the Regional Variation of Low-Frequency around the Korean Peninsula. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, 2190-2197.	1.1	17
54	Viewing the tectonic evolution of the Kamchatka-Aleutian (KAT) connection with an Alaska crustal extrusion perspective. <i>Geophysical Monograph Series</i> , 2007, , 3-35.	0.1	33

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55	Evolution of the Kurile-Kamchatkan volcanic arcs and dynamics of the Kamchatka-Aleutian Junction. Geophysical Monograph Series, 2007, , 37-55.	0.1	27
56	The origin of the modern Kamchatka Subduction Zone. Geophysical Monograph Series, 2007, , 57-64.	0.1	28
57	Three dimensional images of the Kamchatka-Pacific Plate cusp. Geophysical Monograph Series, 2007, , 65-75.	0.1	12
58	Thermal models beneath Kamchatka and the Pacific Plate rejuvenation from a mantle plume impact. Geophysical Monograph Series, 2007, , 77-89.	0.1	6
59	Active faulting in the Kamchatsky Peninsula, Kamchatka-Aleutian Junction. Geophysical Monograph Series, 2007, , 107-116.	0.1	3
60	Seismicity, earthquakes and structure along the Alaska-Aleutian and Kamchatka-Kurile Subduction Zones: A review. Geophysical Monograph Series, 2007, , 129-144.	0.1	16
61	Late Pleistocene-Holocene volcanism on the Kamchatka Peninsula, Northwest Pacific Region. Geophysical Monograph Series, 2007, , 165-198.	0.1	43
62	Geochemistry of primitive lavas of the Central Kamchatka Depression: Magma generation at the edge of the Pacific Plate. Geophysical Monograph Series, 2007, , 199-239.	0.1	36
63	Holocene eruptive history of Shiveluch Volcano, Kamchatka Peninsula, Russia. Geophysical Monograph Series, 2007, , 263-282.	0.1	20
64	Tomographic images of Klyuchevskoy Volcano P-wave velocity. Geophysical Monograph Series, 2007, , 293-302.	0.1	19
65	Seismic tomography of magmatic systems. Journal of Volcanology and Geothermal Research, 2007, 167, 37-56.	0.8	187
66	System-on-Chip Architecture Design for Intelligent Sensor Networks. , 2006, , .		0
67	Volcanic eruptions, lightning, and a waterfall: Differentiating the menagerie of infrasound in the Ecuadorian jungle. Geophysical Research Letters, 2006, 33, .	1.5	23
68	Deploying a wireless sensor network on an active volcano. IEEE Internet Computing, 2006, 10, 18-25.	3.2	893
69	Source constraints of Tungurahua volcano explosion events. Bulletin of Volcanology, 2006, 68, 480-490.	1.1	56
70	Sensor networks for high-resolution monitoring of volcanic activity. , 2005, , .		12
71	Poor scaling between elastic energy release and eruption intensity at Tungurahua Volcano, Ecuador. Geophysical Research Letters, 2005, 32, .	1.5	17
72	Shear-wave splitting: A diagnostic tool to monitor fluid pressure in geothermal fields. Geophysical Research Letters, 2005, 32, .	1.5	13

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73	Explosions and periodic tremor at Karymsky volcano, Kamchatka, Russia. <i>Geophysical Journal International</i> , 2004, 158, 1151-1167.	1.0	59
74	Vent discrimination at Stromboli Volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 169-185.	0.8	20
75	Scattering from a fault interface in the Coso geothermal field. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 130, 61-75.	0.8	1
76	Thermal modeling of subducted plates: tear and hotspot at the Kamchatka corner. <i>Earth and Planetary Science Letters</i> , 2004, 226, 293-304.	1.8	50
77	Interpretation and utility of infrasonic records from erupting volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 121, 15-63.	0.8	77
78	Modeling Strombolian eruptions of Karymsky volcano, Kamchatka, Russia. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 122, 265-280.	0.8	30
79	Seismicity and seismic stress in the Coso Range, Coso geothermal field, and Indian Wells Valley region, southeast-central California. , 2002, , .		7
80	Three-dimensional anatomy of a geothermal field, Coso, southeast-central California. , 2002, , .		5
81	Crust and upper mantle of Kamchatka from teleseismic receiver functions. <i>Tectonophysics</i> , 2002, 358, 233-265.	0.9	84
82	Mantle flow at a slab edge: Seismic anisotropy in the Kamchatka Region. <i>Geophysical Research Letters</i> , 2001, 28, 379-382.	1.5	155
83	Geochemical evidence for the melting of subducting oceanic lithosphere at plate edges. <i>Nature</i> , 2001, 409, 500-504.	13.7	451
84	Plugs and chugsâ€”seismic and acoustic observations of degassing explosions at Karymsky, Russia and Sangay, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 101, 67-82.	0.8	122
85	Poisson's ratio and porosity at Coso geothermal area, California. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 95, 157-173.	0.8	59
86	Geotouch: software for three and four dimensional GIS in the earth sciences. <i>Computers and Geosciences</i> , 2000, 26, 751-761.	2.0	18
87	Cartesian parametrization of anisotropic travelttime tomography. <i>Geophysical Journal International</i> , 1999, 137, 64-80.	1.0	25
88	Three-dimensional P and S wave velocity structures of the Coso Geothermal Area, California, from microseismic travel time data. <i>Journal of Geophysical Research</i> , 1999, 104, 13217-13233.	3.3	38
89	P wave crustal velocity structure in the greater Mount Rainier area from local earthquake tomography. <i>Journal of Geophysical Research</i> , 1999, 104, 10775-10786.	3.3	45
90	P wave anisotropy, stress, and crack distribution at Coso geothermal field, California. <i>Journal of Geophysical Research</i> , 1999, 104, 17955-17973.	3.3	21

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91	Recent earthquake sequences at Coso: Evidence for conjugate faulting and stress loading near a geothermal field. Bulletin of the Seismological Society of America, 1999, 89, 785-795.	1.1	7
92	Microseismicity, stress, and fracture in the Coso geothermal field, California. Tectonophysics, 1998, 289, 221-238.	0.9	42
93	Degassing explosions at Karymsky Volcano, Kamchatka. Geophysical Research Letters, 1998, 25, 3999-4002.	1.5	56
94	Boundary conditions on a finite grid: Applications with pseudospectral wave propagation. Geophysics, 1997, 62, 1544-1557.	1.4	4
95	Robust estimation of background noise and signal detection in climatic time series. Climatic Change, 1996, 33, 409-445.	1.7	1,053
96	Three-dimensional P- and S-wave velocity structure below Unzen volcano. Journal of Volcanology and Geothermal Research, 1995, 65, 1-26.	0.8	22
97	XMAPS8: A FREE PROGRAM FOR THE THREE-DIMENSIONAL GIS. Seismological Research Letters, 1995, 66, 33-37.	0.8	15
98	Reshaping spectrum estimates by removing periodic noise: Application to seismic spectral ratios. Geophysical Research Letters, 1995, 22, 513-516.	1.5	8
99	Multiple-taper spectral analysis: A stand-alone C-subroutine. Computers and Geosciences, 1995, 21, 199-236.	2.0	108
100	Three-dimensional attenuation tomography at Loma Prieta: Inversion of Q . Journal of Geophysical Research, 1994, 99, 6843.	3.3	85
101	Shortest path ray tracing with sparse graphs. Geophysics, 1993, 58, 987-996.	1.4	71
102	Three-dimensional tomography of the 1992 southern California earthquake sequence: Constraints on dynamic earthquake rupture?. Geology, 1993, 21, 387.	2.0	51
103	Travel-time tomography in the northern Coachella Valley using aftershocks of the 1986 M_L 5.9 North Palm Springs Earthquake. Geophysical Research Letters, 1992, 19, 1-4.	1.5	38
104	The South Fossa Magna, Japan, revealed by high-resolution P- and S-wave travel time tomography. Tectonophysics, 1992, 208, 377-396.	0.9	28
105	The magma system of Mount St. Helens: non-linear high-resolution P-wave tomography. Journal of Volcanology and Geothermal Research, 1992, 53, 103-116.	0.8	100
106	Seismic tomography constrained by bouguer gravity anomalies: Applications in western Washington. Pure and Applied Geophysics, 1991, 135, 31-52.	0.8	64
107	Bayesian ART versus conjugate gradient methods in tomographic seismic imaging: an application at Mount St. Helens, Washington. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 1991, , 186-208.	1.0	13
108	Tomographic P-wave velocity images of the Loma Prieta Earthquake asperity. Geophysical Research Letters, 1990, 17, 1433-1436.	1.5	53

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109	Tomographic imaging of local earthquake delay times for three-dimensional velocity variation in western Washington. <i>Journal of Geophysical Research</i> , 1990, 95, 4763-4776.	3.3	46
110	Tomographic images of <i>P</i> wave velocity variation at Parkfield, California. <i>Journal of Geophysical Research</i> , 1990, 95, 21793-21804.	3.3	71
111	Tomographic inversion for three-dimensional velocity structure at Mount St. Helens using earthquake data. <i>Journal of Geophysical Research</i> , 1989, 94, 5716-5728.	3.3	201