

Michael A H Hedlin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

1,589
citations

25
h-index

38
g-index

61
ext. papers

1,784
ext. citations

5.7
avg, IF

4.45
L-index

#	Paper	IF	Citations
54	Seismic evidence for small-scale heterogeneity throughout the Earth's mantle. <i>Nature</i> , 1997 , 387, 145-150.	50.4	156
53	Evidence for partial melt at the core-mantle boundary north of Tonga from the strong scattering of seismic waves. <i>Nature</i> , 1998 , 391, 682-685	50.4	146
52	Ionospheric signature of surface mine blasts from Global Positioning System measurements. <i>Geophysical Journal International</i> , 2002 , 132, 191-202	2.6	92
51	Infrasonic jet noise from volcanic eruptions. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	78
50	THE SEISMOACOUSTIC WAVEFIELD: A NEW PARADIGM IN STUDYING GEOPHYSICAL PHENOMENA. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	62
49	The source of infrasound associated with long-period events at Mount St. Helens. <i>Journal of Geophysical Research</i> , 2009 , 114,		60
48	The time-frequency characteristics of quarry blasts and calibration explosions recorded in Kazakhstan, USSR. <i>Geophysical Journal International</i> , 1989 , 99, 109-122	2.6	51
47	The Temporal Morphology of Infrasound Propagation. <i>Pure and Applied Geophysics</i> , 2010 , 167, 437-453	2.2	46
46	An automatic means to discriminate between earthquakes and quarry blasts. <i>Bulletin of the Seismological Society of America</i> , 1990 , 80, 2143-2160	2.3	40
45	Seismic and acoustic recordings of an unusually large rockfall at Mount St. Helens, Washington. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	39
44	Evaluation of rosette infrasonic noise-reducing spatial filters. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1807-20	2.2	39
43	Regional monitoring of infrasound events using multiple arrays: application to Utah and Washington State. <i>Geophysical Journal International</i> , 2008 , 175, 291-300	2.6	38
42	A study of acoustic propagation from a large bolide in the atmosphere with a dense seismic network. <i>Journal of Geophysical Research</i> , 2010 , 115,		37
41	Western U.S. Infrasonic Catalog: Illuminating infrasonic hot spots with the USArray. <i>Journal of Geophysical Research</i> , 2011 , 116,		36
40	A joint seismic and acoustic study of the Washington State bolide: Observations and modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		35
39	Observations of infrasound from surf in southern California. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	34
38	Evaluation of infrasound signals from the shuttle Atlantis using a large seismic network. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 1442-51	2.2	33

37	Infrasonic wind-noise reduction by barriers and spatial filters. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1379-86	2.2	30
36	CHARACTERIZATION OF MINING EXPLOSIONS AT REGIONAL DISTANCES: IMPLICATIONS WITH THE INTERNATIONAL MONITORING SYSTEM. <i>Reviews of Geophysics</i> , 2002 , 40, 2-1	23.1	29
35	Finite difference synthesis of infrasound propagation through a windy, viscous atmosphere: application to a bolide explosion detected by seismic networks. <i>Geophysical Journal International</i> , 2011 , 185, 305-320	2.6	27
34	Source location of the 19 February 2008 Oregon bolide using seismic networks and infrasound arrays. <i>Journal of Geophysical Research</i> , 2010 , 115,		27
33	An optical fiber infrasound sensor: a new lower limit on atmospheric pressure noise between 1 and 10 Hz. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 2474-9	2.2	27
32	Atmospheric Variability and Infrasound Monitoring 2010 , 475-507		27
31	Statistical characterization of atmospheric gravity waves by seismoacoustic observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5345-5363	4.4	25
30	SEISMOLOGY:Monitoring Nuclear Tests 1998 , 281, 1967-1968		25
29	A study of infrasonic anisotropy and multipathing in the atmosphere using seismic networks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20110542		24
28	A Study of Infrasound Propagation Using Dense Seismic Network Recordings of Surface Explosions. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 1927-1937	2.3	20
27	The use of impedance matching capillaries for reducing resonance in rosette infrasonic spatial filters. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 1880-8	2.2	20
26	Probing mid-mantle heterogeneity using PKP coda waves. <i>Physics of the Earth and Planetary Interiors</i> , 2002 , 130, 195-208	2.3	20
25	Beam-Stack Imaging using a small aperture array. <i>Geophysical Research Letters</i> , 1991 , 18, 1771-1774	4.9	20
24	Infrasound observations of the 2008 explosive eruptions of Okmok and Kasatochi volcanoes, Alaska. <i>Journal of Geophysical Research</i> , 2010 , 115,		18
23	Infrasound. <i>Acoustics Today</i> , 2006 , 2, 9	0	18
22	Discrimination of Delay-Fired Mine Blasts in Wyoming Using an Automatic Time-Frequency Discriminant. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 2368-2382	2.3	17
21	The USArray Transportable Array as a Platform for Weather Observation and Research. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 603-619	6.1	16
20	Resolution of prominent crustal scatterers near the Noress small-aperture array. <i>Geophysical Journal International</i> , 1994 , 119, 101-115	2.6	16

19	Stormquakes. <i>Geophysical Research Letters</i> , 2019 , 46, 12909-12918	4.9	15
18	High-Altitude Infrasound Calibration Experiments. <i>Acoustics Today</i> , 2008 , 4, 9	0	15
17	A comparative study of island, seafloor, and subseafloor ambient noise levels. <i>Bulletin of the Seismological Society of America</i> , 1989 , 79, 172-179	2.3	14
16	A Case Study on the Far-Field Properties of Propagating Tropospheric Gravity Waves. <i>Monthly Weather Review</i> , 2016 , 144, 2947-2961	2.4	14
15	Surveying Infrasonic Noise on Oceanic Islands. <i>Pure and Applied Geophysics</i> , 2002 , 159, 1127-1152	2.2	10
14	Using surface waves recorded by a large mesh of three-element arrays to detect and locate disparate seismic sources. <i>Geophysical Journal International</i> , 2018 , 215, 942-958	2.6	9
13	Methods for determining infrasound phase velocity direction with an array of line sensors. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 2090-9	2.2	9
12	Detection of Infrasound Signals and Sources Using a Dense Seismic Network 2019 , 669-700		9
11	A New Automated Approach to Detecting and Locating Seismic Events Using Data from a Large Network. <i>Bulletin of the Seismological Society of America</i> , 2018 , 108, 2032-2045	2.3	9
10	Relationships Between Gravity Waves Observed at Earth's Surface and in the Stratosphere Over the Central and Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,482-11,492	4.4	8
9	Infrasonic Signals from Large Mining Explosions. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 768-777	2.3	8
8	A global test of a time-frequency small-event discriminant. <i>Bulletin of the Seismological Society of America</i> , 1998 , 88, 973-988	2.3	8
7	A palaeomagnetic study of some Pleistocene sediments in northern Canada and its bearing on the secular variation of the geomagnetic field. <i>Geophysical Journal International</i> , 1987 , 90, 693-703	2.6	6
6	Solar Terminator Waves in Surface Pressure Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 5213-5219	4.1	6
5	A Multidisciplinary Study of the 17 January 2018 Bolide Terminal Burst over Southeast Michigan. <i>Seismological Research Letters</i> , 2018 , 89, 2183-2192	3	5
4	Forensic Investigation of a Probable Meteor Sighting Using USArray Acoustic Data. <i>Seismological Research Letters</i> , 2014 , 85, 1012-1018	3	4
3	Old seismic data yield new insights. <i>Eos</i> , 2000 , 81, 469	1.5	4
2	Migration of backscatter data from the Mid-Atlantic Ridge. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 1787-1803	2.2	4

- 1 Identification of Delay-Fired Mining Explosions Using Seismic Arrays: Application to the PDAR Array in Wyoming, USA. *Bulletin of the Seismological Society of America*, **2007**, 97, 989-1001 2.3 3