

Eleonore Stutzmann

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

5,734
citations

66343

42
h-index

82547

72
g-index

139
all docs

139
docs citations

139
times ranked

3616
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging the crust and uppermost mantle structure of Portugal (West Iberia) with seismic ambient noise. <i>Geophysical Journal International</i> , 2022, 230, 1106-1120.	2.4	6
2	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	3.1	29
3	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. <i>Experimental Astronomy</i> , 2022, 54, 617-640.	3.7	2
4	Quantifying microseismic noise generation from coastal reflection of gravity waves recorded by seafloor DAS. <i>Geophysical Journal International</i> , 2022, 231, 394-407.	2.4	10
5	Evidence for crustal seismic anisotropy at the InSight lander site. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117654.	4.4	21
6	Companion guide to the marsquake catalog from InSight, Sols 0â€“478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	1.9	64
7	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	3.6	33
8	A machine-learning approach for automatic classification of volcanic seismicity at La SoufriÃˆre Volcano, Guadeloupe. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 411, 107151.	2.1	13
9	Seismology and Environment. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1655-1661.	0.1	0
10	Finding SEIS North on Mars: Comparisons Between SEIS Sundial, Inertial and Imaging Measurements and Consequences for Seismic Analysis. <i>Earth and Space Science</i> , 2021, 8, e2020EA001286.	2.6	3
11	Autocorrelation of the Ground Vibrations Recorded by the SEISâ€“InSight Seismometer on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006498.	3.6	34
12	RÃ‰SIF-SI: A Distributed Information System for French Seismological Data. <i>Seismological Research Letters</i> , 2021, 92, 1832-1853.	1.9	9
13	Locating Rockfalls Using Interâ€“Station Ratios of Seismic Energy at Dolomieu Crater, Piton de la Fournaise Volcano. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005715.	2.8	6
14	Seismic Noise Autocorrelations on Mars. <i>Earth and Space Science</i> , 2021, 8, e2021EA001755.	2.6	31
15	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	12.6	140
16	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
17	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars <i>InSight</i> Mission. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2982-3002.	2.3	42
18	Resonances and Lander Modes Observed by InSight on Mars (1â€“9ÂˆHz). <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2924-2950.	2.3	30

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19	Anatomy of Continuous Mars SEIS and Pressure Data from Unsupervised Learning. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2964-2981.	2.3	14
20	Simulation of Topography Effects on Rockfall-Generated Seismic Signals: Application to Piton de la Fournaise Volcano. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019874.	3.4	6
21	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. <i>Earth and Space Science</i> , 2020, 7, e2020EA001317.	2.6	75
22	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020, 7, e2020EA001118.	2.6	16
23	Modelling capsizing icebergs in the open ocean. <i>Geophysical Journal International</i> , 2020, 223, 1265-1287.	2.4	5
24	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	12.9	207
25	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
26	Constraining landslide characteristics with Bayesian inversion of field and seismic data. <i>Geophysical Journal International</i> , 2020, 221, 1341-1348.	2.4	18
27	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
28	Introducing noisi: a Python tool for ambient noise cross-correlation modeling and noise source inversion. <i>Solid Earth</i> , 2020, 11, 1597-1615.	2.8	6
29	Seismology and Environment. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-8.	0.1	1
30	Characterization of Microseismic Noise in Cape Verde. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1099-1109.	2.3	8
31	Large-scale flow of Indian Ocean asthenosphere driven by Réunion plume. <i>Nature Geoscience</i> , 2019, 12, 1043-1049.	12.9	29
32	Tomography of crust and lithosphere in the western Indian Ocean from noise cross-correlations of land and ocean bottom seismometers. <i>Geophysical Journal International</i> , 2019, 219, 924-944.	2.4	18
33	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	8.1	238
34	Mars' Background Free Oscillations. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	7
35	Monitoring Greenland ice sheet buoyancy-driven calving discharge using glacial earthquakes. <i>Annals of Glaciology</i> , 2019, 60, 75-95.	1.4	17
36	Sea State Trends and Variability: Consistency Between Models, Altimeters, Buoys, and Seismic Data (1979-2016). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3923-3940.	2.6	29

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37	Global scale analysis and modelling of primary microseisms. <i>Geophysical Journal International</i> , 2019, 218, 560-572.	2.4	16
38	Blind source separation of temporally independent microseisms. <i>Geophysical Journal International</i> , 2019, 216, 1260-1275.	2.4	4
39	Infragravity waves: From driving mechanisms to impacts. <i>Earth-Science Reviews</i> , 2018, 177, 774-799.	9.1	165
40	Joint inversion of the first overtone and fundamental mode for deep imaging at the Valhall oil field using ambient noise. <i>Geophysical Journal International</i> , 2018, 214, 122-132.	2.4	24
41	Low-Frequency Ambient Noise Autocorrelations: Waveforms and Normal Modes. <i>Seismological Research Letters</i> , 2018, 89, 1488-1496.	1.9	26
42	Numerical Modeling of Iceberg Capsizing Responsible for Glacial Earthquakes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3013-3033.	2.8	7
43	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
44	The Earth's Hum Variations From a Global Model and Seismic Recordings Around the Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4006-4020.	2.5	12
45	SKS splitting in the Western Indian Ocean from land and seafloor seismometers: Plume, plate and ridge signatures. <i>Earth and Planetary Science Letters</i> , 2018, 498, 169-184.	4.4	17
46	Measuring Group Velocity in Seismic Noise Correlation Studies Based on Phase Coherence and Resampling Strategies. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1928-1935.	6.3	18
47	First Observation of the Earth's Permanent Free Oscillations on Ocean Bottom Seismometers. <i>Geophysical Research Letters</i> , 2017, 44, 10,988.	4.0	21
48	The Effect of Water Column Resonance on the Spectra of Secondary Microseism P Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8121-8142.	3.4	13
49	Anisotropic Tomography Around La Réunion Island From Rayleigh Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9132-9148.	3.4	35
50	Extracting surface waves, hum and normal modes: time-scale phase-weighted stack and beyond. <i>Geophysical Journal International</i> , 2017, 211, 30-44.	2.4	44
51	Complex force history of a calving-generated glacial earthquake derived from broadband seismic inversion. <i>Geophysical Research Letters</i> , 2016, 43, 1055-1065.	4.0	24
52	Imaging the lithospheric structure beneath the Indian continent. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7450-7468.	3.4	78
53	Ray-theoretical modeling of secondary microseism P waves. <i>Geophysical Journal International</i> , 2016, 206, 1730-1739.	2.4	44
54	Global tomography using seismic hum. <i>Geophysical Journal International</i> , 2016, 204, 1222-1236.	2.4	70

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55	On the shaping factors of the secondary microseismic wavefield. Journal of Geophysical Research: Solid Earth, 2015, 120, 6241-6262.	3.4	53
56	Numerical modeling of the Mount Meager landslide constrained by its force history derived from seismic data. Journal of Geophysical Research: Solid Earth, 2015, 120, 2579-2599.	3.4	71
57	Sources of secondary microseisms in the Indian Ocean. Geophysical Journal International, 2015, 202, 1180-1189.	2.4	25
58	How ocean waves rock the Earth: Two mechanisms explain microseisms with periods 3 to 300s. Geophysical Research Letters, 2015, 42, 765-772.	4.0	188
59	Model Space Exploration for Determining Landslide Source History from Long-Period Seismic Data. Pure and Applied Geophysics, 2015, 172, 389-413.	1.9	29
60	Modelling the ocean site effect on seismic noise body waves. Geophysical Journal International, 2014, 197, 1096-1106.	2.4	74
61	Seismic Network in Greenland Monitors Earth and Ice System. Eos, 2014, 95, 13-14.	0.1	43
62	Tracking major storms from microseismic and hydroacoustic observations on the seafloor. Geophysical Research Letters, 2014, 41, 8825-8831.	4.0	45
63	Detection of microseismic compressional (<i>P</i>) body waves aided by numerical modeling of oceanic noise sources. Journal of Geophysical Research: Solid Earth, 2013, 118, 4312-4324.	3.4	43
64	Characteristic atmosphere-ocean-solid earth interactions in the Antarctic coastal and marine environment inferred from seismic and infrasound recording at Syowa Station, East Antarctica. Geological Society Special Publication, 2013, 381, 469-480.	1.3	3
65	Residual homogenization for seismic forward and inverse problems in layered media. Geophysical Journal International, 2013, 194, 470-487.	2.4	37
66	The GEOSCOPE Program: Progress and Challenges during the Past 30 Years. Seismological Research Letters, 2013, 84, 250-250.	1.9	1
67	Modelling secondary microseismic noise by normal mode summation. Geophysical Journal International, 2013, 193, 1732-1745.	2.4	86
68	Frequency-dependent noise sources in the North Atlantic Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 5341-5353.	2.5	25
69	Phenomenal Sea States and Swell from a North Atlantic Storm in February 2011: A Comprehensive Analysis. Bulletin of the American Meteorological Society, 2012, 93, 1825-1832.	3.3	60
70	From seismic noise to ocean wave parameters: General methods and validation. Journal of Geophysical Research, 2012, 117, .	3.3	62
71	Modelling long-term seismic noise in various environments. Geophysical Journal International, 2012, 191, 707-722.	2.4	104
72	Cape Verde hotspot from the upper crust to the top of the lower mantle. Earth and Planetary Science Letters, 2012, 319-320, 259-268.	4.4	44

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73	Numerical modeling of the Mount Steller landslide flow history and of the generated long period seismic waves. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	108
74	How moderate sea states can generate loud seismic noise in the deep ocean. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	57
75	Polarized Earth's ambient microseismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	88
76	Observations of the seasonality of the Antarctic microseismic signal, and its association to sea ice variability. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	52
77	Ocean wave sources of seismic noise. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	246
78	Using instantaneous phase coherence for signal extraction from ambient noise data at a local to a global scale. <i>Geophysical Journal International</i> , 2011, 184, 494-506.	2.4	194
79	The GEOSCOPE Program: Progress and Challenges during the Past 30 Years. <i>Seismological Research Letters</i> , 2010, 81, 427-452.	1.9	22
80	Observations of <i>S</i> ₄₁₀ and <i>S</i> ₃₅₀ phases at seismograph stations in California. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
81	Stratification of the Earth beneath the Azores from P and S receiver functions. <i>Earth and Planetary Science Letters</i> , 2010, 299, 91-103.	4.4	51
82	Global climate imprint on seismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	112
83	Upper mantle structure of shear-waves velocities and stratification of anisotropy in the Afar Hotspot region. <i>Tectonophysics</i> , 2008, 462, 164-177.	2.2	51
84	Mantle plumes: Thin, fat, successful, or failing? Constraints to explain hot spot volcanism through time and space. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	83
85	Buckling instabilities of subducted lithosphere beneath the transition zone. <i>Earth and Planetary Science Letters</i> , 2007, 254, 173-179.	4.4	97
86	Understanding seismic heterogeneities in the lower mantle beneath the Americas from seismic tomography and plate tectonic history. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	77
87	Mantle upwellings and convective instabilities revealed by seismic tomography and helium isotope geochemistry beneath eastern Africa. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	44
88	Anisotropic structure of the African upper mantle from Rayleigh and Love wave tomography. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 155, 48-62.	1.9	125
89	Azores hotspot signature in the upper mantle. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 156, 23-34.	2.1	62
90	Convective patterns under the Indo-Atlantic $\hat{\llcorner}$ box $\hat{\lrcorner}$. <i>Earth and Planetary Science Letters</i> , 2005, 239, 233-252.	4.4	138

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91	Poisson's ratio in the lower mantle beneath Alaska: Evidence for compositional heterogeneity. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	23
92	Surface wave higher-mode phase velocity measurements using a roller-coaster-type algorithm. <i>Geophysical Journal International</i> , 2003, 155, 289-307.	2.4	40
93	Anisotropic tomography of the Atlantic Ocean. <i>Physics of the Earth and Planetary Interiors</i> , 2002, 132, 237-248.	1.9	51
94	Geophysical ocean bottom observatories or temporary portable networks?. <i>Developments in Marine Technology</i> , 2002, , 59-81.	0.5	2
95	MOISE: A Prototype Multiparameter Ocean-Bottom Station. <i>Bulletin of the Seismological Society of America</i> , 2001, 91, 885-892.	2.3	20
96	GEOSCOPE Station Noise Levels. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 690-701.	2.3	131
97	Effect of a plume on long period surface waves computed with normal modes coupling. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 119, 57-74.	1.9	17
98	Constraint on the S-wave velocity at the base of the mantle. <i>Geophysical Research Letters</i> , 2000, 27, 1571-1574.	4.0	16
99	The GEOSCOPE program: its data center. <i>Physics of the Earth and Planetary Interiors</i> , 1999, 113, 25-43.	1.9	12
100	Anisotropic tomography of the Atlantic Ocean from Rayleigh surface waves. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 106, 257-273.	1.9	32
101	Towards multiscalar and multiparameter networks for the next century: The French efforts. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 108, 155-174.	1.9	21
102	MOISE: A pilot experiment towards long term sea-floor geophysical observatories. <i>Earth, Planets and Space</i> , 1998, 50, 927-937.	2.5	39
103	On PP-P differential travel time measurements. <i>Geophysical Research Letters</i> , 1996, 23, 1833-1836.	4.0	10
104	Tomography of the transition zone from the inversion of higher-mode surface waves. <i>Physics of the Earth and Planetary Interiors</i> , 1994, 86, 99-115.	1.9	26
105	The French Pilot Experiment OFM-SISMOBS: first scientific results on noise level and event detection. <i>Physics of the Earth and Planetary Interiors</i> , 1994, 84, 321-336.	1.9	58
106	An inverse technique for retrieving higher mode phase velocity and mantle structure. <i>Geophysical Journal International</i> , 1993, 113, 669-683.	2.4	61
107	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. <i>Seismological Research Letters</i> , 0, , .	1.9	5
108	Towards the Processing of Large Data Volumes with Phase Cross-Correlation. <i>Seismological Research Letters</i> , 0, , .	1.9	14