Sharon Kedar

List of Publications by Year
in descending order

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42 papers	2,886 citations	236925 25 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	2126 citing authors

#	Article	IF	Citations
1	Companion guide to the marsquake catalog from InSight, Sols 0â€“478: Data content and non-seismic events. Physics of the Earth and Planetary Interiors, 2021, 310, 106597.	1.9	64
2	The Marsquake catalogue from InSight, sols 0â€“478. Physics of the Earth and Planetary Interiors, 2021, 310, 106595.	1.9	97
3	Standing on Apolloâ€™s Shoulders: A Microseismometer for the Moon. Planetary Science Journal, 2021, 2, 36.	3.6	9
4	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006518.	3.6	19
5	The scientific rationale for deployment of a long-lived geophysical network on the Moon. , 2021, 53, .		4
6	A Reconstruction Algorithm for Temporally Aliased Seismic Signals Recorded by the InSight Mars Lander. Earth and Space Science, 2021, 8, e2020EA001234.	2.6	6
7	The Site Tilt and Lander Transfer Function from the Short-Period Seismometer of InSight on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2889-2908.	2.3	7
8	Resonances and Lander Modes Observed by InSight on Mars (1â€“9ÂHz). Bulletin of the Seismological Society of America, 2021, 111, 2924-2950.	2.3	30
9	Resonances of the InSight Seismometer on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2951-2963.	2.3	15
10	The shallow structure of Mars at the InSight landing site from inversion of ambient vibrations. Nature Communications, 2021, 12, 6756.	12.8	40
11	Introduction to the Special Issue on Mars Seismology. Bulletin of the Seismological Society of America, 2021, 111, 2883-2888.	2.3	1
12	Seismic exploration on the Moon, Mars and beyond. , 2020, , .		0
13	Lagrangianâ€based Simulations of Hypervelocity Impact Experiments on Mars Regolith Proxy. Geophysical Research Letters, 2020, 47, e2020GL087393.	4.0	7
14	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
15	The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212.	12.9	194
16	Onâ€Ðeck Seismology: Lessons from InSight for Future Planetary Seismology. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006353.	3.6	25
17	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
18	Seismic response of the Mars Curiosity Rover: Implications for future planetary seismology. Icarus, 2019, 317, 373-378.	2.5	9

#	Article	IF	Citations
19	SEIS: Insightâ€™s Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12.	8.1	238
20	Sparse Reconstruction of Aliased Seismic Signals Recorded During the Insight Mars Mission. , 2019, , .		1
21	The first active seismic experiment on Mars to characterize the shallow subsurface structure at the InSight landing site. , 2019, , .		10
22	Expected Seismicity and the Seismic Noise Environment of Europa. Journal of Geophysical Research E: Planets, 2018, 123, 163-179.	3.6	38
23	Vital Signs: Seismology of Icy Ocean Worlds. Astrobiology, 2018, 18, 37-53.	3.0	31
24	A Numerical Model of the SEIS Leveling System Transfer Matrix and Resonances: Application to SEIS Rotational Seismology and Dynamic Ground Interaction. Space Science Reviews, 2018, 214, 1.	8.1	22
25	The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. Space Science Reviews, 2018, 214, 1.	8.1	41
26	Impact-Seismic Investigations of the InSight Mission. Space Science Reviews, 2018, 214, 1.	8.1	48
27	Geology and Physical Properties Investigations by the InSight Lander. Space Science Reviews, 2018, 214, 1.	8.1	77
28	Influence of Body Waves, Instrumentation Resonances, and Prior Assumptions on Rayleigh Wave Ellipticity Inversion for Shallow Structure at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	8.1	10
29	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	8.1	58
30	An Investigation of the Mechanical Properties of Some Martian Regolith Simulants with Respect to the Surface Properties at the InSight Mission Landing Site. Space Science Reviews, 2017, 211, 191-213.	8.1	42
31	Planned Products of the Mars Structure Service for the InSight Mission to Mars. Space Science Reviews, 2017, 211, 611-650.	8.1	80
32	Modeling of Ground Deformation and Shallow Surface Waves Generated by Martian Dust Devils and Perspectives for Near-Surface Structure Inversion. Space Science Reviews, 2017, 211, 501-524.	8.1	49
33	Analysis of Regolith Properties Using Seismic Signals Generated by InSightâ€™s HP3 Penetrator. Space Science Reviews, 2017, 211, 315-337.	8.1	31
34	Global oceanic microseism sources as seen by seismic arrays and predicted by wave action models. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	76
35	Limitations of strain estimation techniques from discrete deformation observations. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
36	Source distribution of ocean microseisms and implications for time-dependent noise tomography. Comptes Rendus - Geoscience, 2011, 343, 548-557.	1.2	21

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37	The origin of deep ocean microseisms in the North Atlantic Ocean. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 777-793.	2.1	232
38	Spatiotemporal filtering using principal component analysis and Karhunen-Loeve expansion approaches for regional GPS network analysis. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	252
39	OCEAN SCIENCE: Enhanced: The Ocean's Seismic Hum. Science, 2005, 307, 682-683.	12.6	40
40	The effect of the second order GPS ionospheric correction on receiver positions. Geophysical Research Letters, 2003, 30, .	4.0	192
41	Waveform inversion of very long period impulsive signals associated with magmatic injection beneath Kilauea volcano, Hawaii. Journal of Geophysical Research, 1998, 103, 23839-23862.	3.3	213
42	Bubble collapse as the source of tremor at Old Faithful Geyser. Journal of Geophysical Research, 1998, 103, 24283-24299.	3.3	65