

Philippe H LognonnÃ©

List of Publications by Year in descending order

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235
papers

11,043
citations

23500

58
h-index

40881

93
g-index

249
all docs

249
docs citations

249
times ranked

3842
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic Detection of the Lunar Core. <i>Science</i> , 2011, 331, 309-312.	6.0	451
2	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
3	Ionospheric detection of gravity waves induced by tsunamis. <i>Geophysical Journal International</i> , 2005, 160, 840-848.	1.0	266
4	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	3.7	238
5	A new seismic model of the Moon: implications for structure, thermal evolution and formation of the Moon. <i>Earth and Planetary Science Letters</i> , 2003, 211, 27-44.	1.8	216
6	Very preliminary reference Moon model. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 188, 96-113.	0.7	214
7	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	5.4	207
8	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	5.4	194
9	Ionospheric remote sensing of the Denali Earthquake Rayleigh surface waves. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	179
10	Acoustic waves generated from seismic surface waves: propagation properties determined from Doppler sounding observations and normal-mode modelling. <i>Geophysical Journal International</i> , 2004, 158, 1067-1077.	1.0	173
11	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	6.0	169
12	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	5.4	161
13	Computation of seismograms and atmospheric oscillations by normal-mode summation for a spherical earth model with realistic atmosphere. <i>Geophysical Journal International</i> , 1998, 135, 388-406.	1.0	159
14	The resonant response of the ionosphere imaged after the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 853-857.	0.9	159
15	From Sumatra 2004 to Tohoku's 2011: The systematic GPS detection of the ionospheric signature induced by tsunamigenic earthquakes. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3626-3636.	0.8	155
16	Selection of the InSight Landing Site. <i>Space Science Reviews</i> , 2017, 211, 5-95.	3.7	150
17	Three-dimensional waveform modeling of ionospheric signature induced by the 2004 Sumatra tsunami. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	142
18	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	6.0	140

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19	A seismic model of the lunar mantle and constraints on temperature and mineralogy. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 159, 140-166.	0.7	136
20	Planetary seismology. <i>Surveys in Geophysics</i> , 1993, 14, 239-302.	2.1	132
21	Imaging and modeling the ionospheric airglow response over Hawaii to the tsunami generated by the Tohoku earthquake of 11 March 2011. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	127
22	Constraints on the Martian lithosphere from gravity and topography data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	122
23	Ionospheric gravity waves detected offshore Hawaii after tsunamis. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	122
24	Detection and modeling of Rayleigh wave induced patterns in the ionosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	121
25	The effects of the atmospheric pressure changes on seismic signals or how to improve the quality of a station. <i>Bulletin of the Seismological Society of America</i> , 1996, 86, 1760-1769.	1.1	117
26	Ground-based GPS imaging of ionospheric post-seismic signal. <i>Planetary and Space Science</i> , 2006, 54, 528-540.	0.9	115
27	PLANETARY SEISMOLOGY. <i>Annual Review of Earth and Planetary Sciences</i> , 2005, 33, 571-604.	4.6	108
28	Ionospheric response to earthquakes of different magnitudes: Larger quakes perturb the ionosphere stronger and longer. <i>Geophysical Research Letters</i> , 2013, 40, 1675-1681.	1.5	108
29	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020, 11, 1014.	5.8	107
30	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021, 373, 434-438.	6.0	105
31	InSight Auxiliary Payload Sensor Suite (APSS). <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	104
32	First ionospheric images of the seismic fault slip on the example of the Tohoku-oki earthquake. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	102
33	Geomagnetic dependence of ionospheric disturbances induced by tsunamigenic internal gravity waves. <i>Geophysical Journal International</i> , 2008, 173, 753-765.	1.0	99
34	The Marsquake catalogue from InSight, sols 0â€“478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	0.7	97
35	Lithosphere-ionosphere coupling after the 2003 explosive eruption of the Soufriere Hills Volcano, Montserrat. <i>Geophysical Journal International</i> , 2009, 179, 1537-1546.	1.0	94
36	Normal modes modelling of post-seismic ionospheric oscillations. <i>Geophysical Research Letters</i> , 2001, 28, 697-700.	1.5	90

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37	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
38	Pre-mission InSights on the Interior of Mars. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	85
39	Lateral variations of lunar crustal thickness from the Apollo seismic data set. <i>Earth and Planetary Science Letters</i> , 2006, 243, 1-14.	1.8	83
40	The BepiColombo Laser Altimeter (BELA): Concept and baseline design. <i>Planetary and Space Science</i> , 2007, 55, 1398-1413.	0.9	80
41	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017, 211, 611-650.	3.7	80
42	Three-dimensional numerical modeling of tsunami-related internal gravity waves in the Hawaiian atmosphere. <i>Earth, Planets and Space</i> , 2011, 63, 847-851.	0.9	77
43	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	77
44	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. <i>Earth and Space Science</i> , 2020, 7, e2020EA001317.	1.1	75
45	The Noise Model of the SEIS Seismometer of the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017, 211, 383-428.	3.7	73
46	Verifying single-station seismic approaches using Earth-based data: Preparation for data return from the InSight mission to Mars. <i>Icarus</i> , 2015, 248, 230-242.	1.1	71
47	A consistent picture of early hydrodynamic escape of Venus atmosphere explaining present Ne and Ar isotopic ratios and low oxygen atmospheric content. <i>Earth and Planetary Science Letters</i> , 2009, 286, 503-513.	1.8	70
48	Does the Moon possess a molten core? Probing the deep lunar interior using results from LLR and Lunar Prospector. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	69
49	Modelling of coupled normal modes of the Earth: the spectral method. <i>Geophysical Journal International</i> , 1990, 102, 365-395.	1.0	68
50	Interior structure of terrestrial planets: Modeling Mars' mantle and its electromagnetic, geodetic, and seismic properties. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	68
51	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020, 13, 199-204.	5.4	68
52	Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. <i>Space Science Reviews</i> , 2017, 211, 429-455.	3.7	65
53	Normal modes and seismograms in an anelastic rotating Earth. <i>Journal of Geophysical Research</i> , 1991, 96, 20309-20319.	3.3	64
54	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.	0.7	64

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55	The NetLander very broad band seismometer. <i>Planetary and Space Science</i> , 2000, 48, 1289-1302.	0.9	61
56	Three-dimensional ionospheric tomography of post-seismic perturbations produced by the Denali earthquake from GPS data. <i>Geophysical Journal International</i> , 2005, 163, 1049-1064.	1.0	61
57	Prompt gravity signal induced by the 2011 Tohoku-Oki earthquake. <i>Nature Communications</i> , 2016, 7, 13349.	5.8	61
58	Lunar Seismology: An Update on Interior Structure Models. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	60
59	First seismic receiver functions on the Moon. <i>Geophysical Research Letters</i> , 2001, 28, 3031-3034.	1.5	59
60	Lunar Seismology: A Data and Instrumentation Review. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	59
61	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.	0.7	58
62	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	58
63	Ultra broad band seismology on InterMarsNet. <i>Planetary and Space Science</i> , 1996, 44, 1237-1249.	0.9	57
64	Single-station and single-event marsquake location and inversion for structure using synthetic Martian waveforms. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 258, 28-42.	0.7	56
65	First tsunami gravity wave detection in ionospheric radio occultation data. <i>Earth and Space Science</i> , 2015, 2, 125-133.	1.1	55
66	Planetary Magnetic Dynamo Effect on Atmospheric Protection of Early Earth and Mars. <i>Space Science Reviews</i> , 2007, 129, 279-300.	3.7	53
67	Moon meteoritic seismic hum: Steady state prediction. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	53
68	Estimations of the Seismic Pressure Noise on Mars Determined from Large Eddy Simulations and Demonstration of Pressure Decorrelation Techniques for the Insight Mission. <i>Space Science Reviews</i> , 2017, 211, 457-483.	3.7	53
69	Tidally induced surface displacements, external potential variations, and gravity variations on Mars. <i>Icarus</i> , 2003, 161, 281-296.	1.1	52
70	Farside explorer: unique science from a mission to the farside of the moon. <i>Experimental Astronomy</i> , 2012, 33, 529-585.	1.6	52
71	A probabilistic framework for single-station location of seismicity on Earth and Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 262, 48-65.	0.7	50
72	Modeling of Ground Deformation and Shallow Surface Waves Generated by Martian Dust Devils and Perspectives for Near-Surface Structure Inversion. <i>Space Science Reviews</i> , 2017, 211, 501-524.	3.7	49

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73	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	48
74	<i>Planetary Seismology</i> , 2007, , 69-122.		48
75	Nostradamus: The radar that wanted to be a seismometer. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	47
76	Network science landers for Mars. <i>Advances in Space Research</i> , 1999, 23, 1915-1924.	1.2	46
77	Modelling of the total electronic content and magnetic field anomalies generated by the 2011 Tohoku-Åki tsunami and associated acoustic-gravity waves. <i>Geophysical Journal International</i> , 2012, , no-no.	1.0	46
78	InSight Constraints on the Global Character of the Martian Crust. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	45
79	Parameters of seismic source as deduced from 1ÅHz ionospheric GPS data: Case study of the 2011 Tohoku-Åki event. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5942-5950.	0.8	44
80	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006387.	1.5	44
81	First Focal Mechanisms of Marsquakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006546.	1.5	43
82	An Investigation of the Mechanical Properties of Some Martian Regolith Simulants with Respect to the Surface Properties at the InSight Mission Landing Site. <i>Space Science Reviews</i> , 2017, 211, 191-213.	3.7	42
83	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.	1.1	42
84	The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	41
85	GOCE: The first seismometer in orbit around the Earth. <i>Geophysical Research Letters</i> , 2013, 40, 1015-1020.	1.5	40
86	Crust stratigraphy and heterogeneities of the first kilometers at the dichotomy boundary in western Elysium Planitia and implications for InSight lander. <i>Icarus</i> , 2020, 338, 113511.	1.1	40
87	High-Frequency Seismic Events on Mars Observed by InSight. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006670.	1.5	40
88	Seismometer Detection of Dust Devil Vortices by Ground Tilt. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 3015-3023.	1.1	39
89	The rheology and thermal history of Mars revealed by the orbital evolution of Phobos. <i>Nature</i> , 2019, 569, 523-527.	13.7	39
90	Response of the ionosphere to the seismic triggered acoustic waves: electron density and electromagnetic fluctuations. <i>Geophysical Journal International</i> , 2009, 176, 1-13.	1.0	38

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91	Seismic waveform modeling and surface wave tomography in a three-dimensional Earth: asymptotic and non-asymptotic approaches. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 119, 37-56.	0.7	37
92	<i>Planetary Seismology</i> , 2015, , 65-120.		37
93	Preparing for InSight: An Invitation to Participate in a Blind Test for Martian Seismicity. <i>Seismological Research Letters</i> , 2017, 88, 1290-1302.	0.8	37
94	Detecting atmospheric perturbations produced by Venus quakes. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	36
95	Power and duration of impact flashes on the Moon: Implication for the cause of radiation. <i>Icarus</i> , 2012, 218, 115-124.	1.1	36
96	A top-down origin for martian mantle plumes. <i>Icarus</i> , 2006, 185, 197-210.	1.1	35
97	Present-day Mars' Seismicity Predicted From Thermal Evolution Models of Interior Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 2580-2589.	1.5	35
98	Erratum to "Very Preliminary Reference Moon Model", by R.F. Garcia, J. Gagnepain-Beyneix, S. Chevrot, P. Lognonné [Phys. Earth Planet. Inter. 188 (2011) 96-113]. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 202-203, 89-91.	0.7	34
99	Autocorrelation of the Ground Vibrations Recorded by the SEIS InSight Seismometer on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006498.	1.5	34
100	Improving Constraints on Planetary Interiors With PPs Receiver Functions. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006983.	1.5	34
101	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	1.5	33
102	A Comodulation Analysis of Atmospheric Energy Injection Into the Ground Motion at InSight, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006538.	1.5	33
103	A sophisticated lander for scientific exploration of Mars: scientific objectives and implementation of the Mars-96 Small Station. <i>Planetary and Space Science</i> , 1998, 46, 717-737.	0.9	32
104	Seismic waves in the ionosphere. <i>Europhysics News</i> , 2006, 37, 11-15.	0.1	32
105	A swarm of small shield volcanoes on Syria Planum, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
106	Lander radioscience for obtaining the rotation and orientation of Mars. <i>Planetary and Space Science</i> , 2009, 57, 1050-1067.	0.9	32
107	Volatiles in the atmosphere of Mars: The effects of volcanism and escape constrained by isotopic data. <i>Earth and Planetary Science Letters</i> , 2011, 303, 299-309.	1.8	32
108	Large impacts detected by the Apollo seismometers: Impactor mass and source cutoff frequency estimations. <i>Icarus</i> , 2011, 211, 1049-1065.	1.1	32

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109	Optimisation of seismic network design: Application to a geophysical international lunar network. <i>Planetary and Space Science</i> , 2011, 59, 343-354.	0.9	32
110	Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution. <i>Planetary and Space Science</i> , 2012, 68, 123-145.	0.9	32
111	The seismic OPTIMISM experiment. <i>Planetary and Space Science</i> , 1998, 46, 739-747.	0.9	31
112	Tsunami detection in the ionosphere. <i>Space Research Today</i> , 2005, 163, 23-27.	1.0	31
113	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
114	Analysis of Regolith Properties Using Seismic Signals Generated by InSight's HP3 Penetrator. <i>Space Science Reviews</i> , 2017, 211, 315-337.	3.7	31
115	Vital Signs: Seismology of Icy Ocean Worlds. <i>Astrobiology</i> , 2018, 18, 37-53.	1.5	31
116	Pressure Effects on the SEIS's InSight Instrument, Improvement of Seismic Records, and Characterization of Long Period Atmospheric Waves From Ground Displacements. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006278.	1.5	31
117	Seismic Noise Autocorrelations on Mars. <i>Earth and Space Science</i> , 2021, 8, e2021EA001755.	1.1	31
118	Excitation of Jovian Seismic Waves by the Shoemaker-Levy 9 Cometary Impact. <i>Icarus</i> , 1994, 110, 180-195.	1.1	30
119	Monitoring of Dust Devil Tracks Around the InSight Landing Site, Mars, and Comparison With In Situ Atmospheric Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087234.	1.5	30
120	Resonances and Lander Modes Observed by InSight on Mars (1-9 Hz). <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2924-2950.	1.1	30
121	Modeling of atmospheric-coupled Rayleigh waves on planets with atmosphere: From Earth observation to Mars and Venus perspectives. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1447-1468.	0.5	29
122	Traveling ionospheric disturbances propagating ahead of the Tohoku-Oki tsunami: a case study. <i>Geophysical Journal International</i> , 2016, 204, 1148-1158.	1.0	29
123	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	1.3	29
124	Water, Life, and Planetary Geodynamical Evolution. <i>Space Science Reviews</i> , 2007, 129, 167-203.	3.7	28
125	Tsunami Wave Height Estimation from GPS-Derived Ionospheric Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4329-4348.	0.8	28
126	Martian Infrasound: Numerical Modeling and Analysis of InSight's Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006376.	1.5	28

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127	Network science, NetLander: a european mission to study the planet Mars. Planetary and Space Science, 2004, 52, 977-985.	0.9	27
128	Evaluation of deep moonquake source parameters: Implication for fault characteristics and thermal state. Journal of Geophysical Research E: Planets, 2017, 122, 1487-1504.	1.5	27
129	Tsunami signature in the ionosphere: A simulation of OTH radar observations. Radio Science, 2011, 46, .	0.8	26
130	Planetary Seismology. , 2007, , 69-122.		25
131	Onâ€Deck Seismology: Lessons from InSight for Future Planetary Seismology. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006353.	1.5	25
132	Magnitude Scales for Marsquakes Calibrated from InSight Data. Bulletin of the Seismological Society of America, 2021, 111, 3003-3015.	1.1	25
133	Radar sounding of temperate permafrost in Alaska: Analogy to the Martian midlatitude to high-latitude ice-rich terrains. Journal of Geophysical Research, 2011, 116, .	3.3	24
134	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006382.	1.5	24
135	Vortexâ€Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multiâ€Instrument Observations, Analysis, and Implications. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006757.	1.5	23
136	Energy Envelope and Attenuation Characteristics of High-Frequency (HF) and Very-High-Frequency (VF) Martian Events. Bulletin of the Seismological Society of America, 2021, 111, 3016-3034.	1.1	23
137	The present-day atmosphere of Mars: Where does it come from?. Earth and Planetary Science Letters, 2009, 277, 384-393.	1.8	22
138	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.	3.7	22
139	Towards multiscalar and multiparameter networks for the next century: The French efforts. Physics of the Earth and Planetary Interiors, 1998, 108, 155-174.	0.7	21
140	10 Normal modes of the earth and planets. International Geophysics, 2002, 81, 125-l.	0.6	21
141	Evidence for crustal seismic anisotropy at the InSight lander site. Earth and Planetary Science Letters, 2022, 593, 117654.	1.8	21
142	Frâ€chet derivatives of coupled seismograms with respect to an anelastic rotating earth. Geophysical Journal International, 1996, 124, 456-482.	1.0	20
143	Finite-Difference Modeling of Acoustic and Gravity Wave Propagation in Mars Atmosphere: Application to Infrasounds Emitted by Meteor Impacts. Space Science Reviews, 2017, 211, 547-570.	3.7	20
144	The whirlwinds of Elysium: A catalog and meteorological characteristics of â€œdust devilâ€vortices observed by InSight on Mars. Icarus, 2021, 355, 114119.	1.1	20

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145	Geometry and Segmentation of Cerberus Fossae, Mars: Implications for Marsquake Properties. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	20
146	Impact Seismology: A Search for Primary Pressure Waves Following Impacts A and H. Icarus, 1996, 121, 331-340.	1.1	19
147	Sounding the subsurface of Athabasca Valles using MARSIS radar data: Exploring the volcanic and fluvial hypotheses for the origin of the rafted plate terrain. Journal of Geophysical Research, 2009, 114, .	3.3	19
148	Impact cutoff frequency â€œ momentum scaling law inverted from Apollo seismic data. Earth and Planetary Science Letters, 2015, 427, 57-65.	1.8	19
149	Simulations of Seismic Wave Propagation on Mars. Space Science Reviews, 2017, 211, 571-594.	3.7	19
150	Super High Frequency Events: A New Class of Events Recorded by the InSight Seismometers on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006599.	1.5	19
151	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006518.	1.5	19
152	Planetary seismometry. , 0, , 36-48.		18
153	Magnitude Scales for Marsquakes. Bulletin of the Seismological Society of America, 2018, 108, 2764-2777.	1.1	18
154	Seismic sources of InSight marsquakes and seismotectonic context of Elysium Planitia, Mars. Tectonophysics, 2022, 837, 229434.	0.9	18
155	Scattering Attenuation of the Martian Interior through Coda-Wave Analysis. Bulletin of the Seismological Society of America, 2021, 111, 3035-3054.	1.1	17
156	Seismic High-Resolution Acquisition Electronics for the NASA InSight Mission on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2909-2923.	1.1	17
157	Numerical assessment of the effects of topography and crustal thickness on martian seismograms using a coupled modal solutionâ€œspectral element method. Icarus, 2008, 196, 78-89.	1.1	16
158	Tsunami modeling with solid Earthâ€œoceanâ€œatmosphere coupled normal modes. Geophysical Journal International, 2017, 211, 1119-1138.	1.0	16
159	The Seismic Moment and Seismic Efficiency of Small Impacts on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006540.	1.5	16
160	MSS/1: Singleâ€œStation and Singleâ€œEvent Marsquake Inversion. Earth and Space Science, 2020, 7, e2020EA001118.	1.1	16
161	Constraining Martian Regolith and Vortex Parameters From Combined Seismic and Meteorological Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006410.	1.5	16
162	New approach to detect seismic surface waves in 1Hz-sampled GPS time series. Scientific Reports, 2011, 1, 44.	1.6	15

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163	Resonances of the InSight Seismometer on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2951-2963.	1.1	15
164	Anatomy of Continuous Mars SEIS and Pressure Data from Unsupervised Learning. Bulletin of the Seismological Society of America, 2021, 111, 2964-2981.	1.1	14
165	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	1.8	13
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