

Mark P Panning

List of Publications by Year in descending order

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75
papers

4,241
citations

136740

32
h-index

110170

64
g-index

84
all docs

84
docs citations

84
times ranked

2309
citing authors

#	ARTICLE	IF	CITATIONS
1	Global anisotropy and the thickness of continents. <i>Nature</i> , 2003, 422, 707-711.	13.7	397
2	A three-dimensional radially anisotropic model of shear velocity in the whole mantle. <i>Geophysical Journal International</i> , 2006, 167, 361-379.	1.0	343
3	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
4	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	3.7	238
5	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
6	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	5.4	194
7	Inferences on Flow at the Base of Earth's Mantle Based on Seismic Anisotropy. <i>Science</i> , 2004, 303, 351-353.	6.0	188
8	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	6.0	169
9	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	6.0	140
10	Geophysical Investigations of Habitability in Ice-Covered Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 180-205.	1.5	133
11	Importance of crustal corrections in the development of a new global model of radial anisotropy. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	130
12	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021, 373, 434-438.	6.0	105
13	The Marsquake catalogue from InSight, sols 0-478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	0.7	97
14	Pre-mission InSights on the Interior of Mars. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	85
15	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
16	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	1.5	80
17	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	77
18	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

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19	Measurement and implications of frequency dependence of attenuation. <i>Earth and Planetary Science Letters</i> , 2009, 282, 285-293.	1.8	66
20	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
21	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
22	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	48
23	InSight Constraints on the Global Character of the Martian Crust. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	45
24	First Focal Mechanisms of Marsquakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006546.	1.5	43
25	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
26	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
27	The rheology and thermal history of Mars revealed by the orbital evolution of Phobos. <i>Nature</i> , 2019, 569, 523-527.	13.7	39
28	Expected Seismicity and the Seismic Noise Environment of Europa. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 163-179.	1.5	38
29	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
30	Insights Into Permafrost and Seasonal Activeâ€“Layer Dynamics From Ambient Seismic Noise Monitoring. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1798-1816.	1.0	37
31	Seismic Wave Propagation in Icy Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 206-232.	1.5	35
32	Improving Constraints on Planetary Interiors With PPs Receiver Functions. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006983.	1.5	34
33	Seismic waveform modelling in a 3-D Earth using the Born approximation: potential shortcomings and a remedy. <i>Geophysical Journal International</i> , 2009, 177, 161-178.	1.0	33
34	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	1.5	33
35	Vital Signs: Seismology of Icy Ocean Worlds. <i>Astrobiology</i> , 2018, 18, 37-53.	1.5	31
36	Seismic Noise Autocorrelations on Mars. <i>Earth and Space Science</i> , 2021, 8, e2021EA001755.	1.1	31

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37	Long-period seismology on Europa: 2. Predicted seismic response. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	30
38	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
39	On the computation of long period seismograms in a 3-D earth using normal mode based approximations. <i>Geophysical Journal International</i> , 2008, 175, 520-536.	1.0	29
40	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	1.3	29
41	A simple method for improving crustal corrections in waveform tomography. <i>Geophysical Journal International</i> , 2010, , no-no.	1.0	25
42	On-Deck Seismology: Lessons from InSight for Future Planetary Seismology. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006353.	1.5	25
43	Long-period seismology on Europa: 1. Physically consistent interior models. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	23
44	Seismicity on tidally active solid-surface worlds. <i>Icarus</i> , 2020, 338, 113466.	1.1	20
45	Surface wave tomography for azimuthal anisotropy in a strongly reduced parameter space. <i>Geophysical Journal International</i> , 2008, 174, 629-648.	1.0	19
46	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006518.	1.5	19
47	USArray shear wave splitting shows seismic anisotropy from both lithosphere and asthenosphere. <i>Geology</i> , 2015, 43, 667-670.	2.0	17
48	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020, 7, e2020EA001118.	1.1	16
49	Near-source velocity structure and isotropic moment tensors: A case study of the Long Valley Caldera. <i>Geophysical Research Letters</i> , 2001, 28, 1815-1818.	1.5	14
50	Exploration of Icy Ocean Worlds Using Geophysical Approaches. <i>Planetary Science Journal</i> , 2021, 2, 150.	1.5	14
51	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117171.	1.8	13
52	Empirical recurrence rates for ground motion signals on planetary surfaces. <i>Icarus</i> , 2018, 303, 273-279.	1.1	12
53	Bayesian inversion of the Martian structure using geodynamic constraints. <i>Geophysical Journal International</i> , 2021, 226, 1615-1644.	1.0	12
54	Azimuthal anisotropy in the Chile Ridge subduction region retrieved from ambient noise. <i>Lithosphere</i> , 2011, 3, 393-400.	0.6	11

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55	On the Detectability and Use of Normal Modes for Determining Interior Structure of Mars. Space Science Reviews, 2018, 214, 1.	3.7	11
56	Karst-driven flexural isostasy in North-Central Florida. Geochemistry, Geophysics, Geosystems, 2017, 18, 3327-3339.	1.0	10
57	Geophysical Observations of Phobos Transits by InSight. Geophysical Research Letters, 2020, 47, e2020GL089099.	1.5	10
58	Non-linear 3-D Born shear waveform tomography in Southeast Asia. Geophysical Journal International, 2012, 190, 463-475.	1.0	9
59	Seismic response of the Mars Curiosity Rover: Implications for future planetary seismology. Icarus, 2019, 317, 373-378.	1.1	9
60	Seismic signal from waves on Titan's seas. Earth and Planetary Science Letters, 2019, 520, 250-259.	1.8	9
61	Standing on Apollo's Shoulders: A Microseismometer for the Moon. Planetary Science Journal, 2021, 2, 36.	1.5	9
62	Wind and surface roughness considerations for seismic instrumentation on a relocatable lander for Titan. Planetary and Space Science, 2021, 206, 105320.	0.9	8
63	The Lunar Geophysical Network Landing Sites Science Rationale. Planetary Science Journal, 2022, 3, 40.	1.5	7
64	Hydrostratigraphy characterization of the Floridan aquifer system using ambient seismic noise. Geophysical Journal International, 2017, 209, 876-889.	1.0	5
65	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , .	0.8	5
66	Ambient Noise Tomography With Common Receiver Clusters in Distributed Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 656-666.	1.6	5
67	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. Experimental Astronomy, 2022, 54, 809-847.	1.6	5
68	Modeling approaches in planetary seismology. , 2015, , 140-156.		4
69	Crustal Shear Wave Velocity Structure of Central Idaho and Eastern Oregon From Ambient Seismic Noise: Results From the IDOR Project. Journal of Geophysical Research: Solid Earth, 2019, 124, 1601-1625.	1.4	4
70	Seismic Detection of Euroquakes Originating From Europa's Silicate Interior. Earth and Space Science, 2022, 9, .	1.1	3
71	Seismology on Titan: A seismic signal and noise budget in preparation for Dragonfly. , 2020, , .		2
72	Reply to "Comment on "Measurement and implications of frequency dependence of attenuation" by I. Morozov. Earth and Planetary Science Letters, 2010, 293, 216-217.	1.8	1

#	ARTICLE	IF	CITATIONS
73	Underground Microseismic Event Monitoring and Localization within Sensor Networks. Sensors, 2021, 21, 2830.	2.1	1
74	Measuring Fundamental and Higher Mode Surface Wave Dispersion on Mars From Seismic Waveforms. Earth and Space Science, 2021, 8, e2020EA001263.	1.1	0
75	Elastic Wave Analyzer for Icy Sub-Surfaces (EWAIS) in the Solar System. , 2021, , .		0