

# W Thomas Pike

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,894  
citations

147801

31  
h-index

168389

53  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2273  
citing authors

#	ARTICLE	IF	CITATIONS
1	H <sub>2</sub> O at the Phoenix Landing Site. <i>Science</i> , 2009, 325, 58-61.	12.6	500
2	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
3	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	8.1	238
4	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
5	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
6	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
7	Ground ice at the Phoenix Landing Site: Stability state and origin. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	167
8	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	12.9	161
9	Selection of the InSight Landing Site. <i>Space Science Reviews</i> , 2017, 211, 5-95.	8.1	150
10	Geophysical Investigations of Habitability in Ice-Covered Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 180-205.	3.6	133
11	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020, 11, 1014.	12.8	107
12	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021, 373, 434-438.	12.6	105
13	The Marsquake catalogue from InSight, sols 0-478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	1.9	97
14	Introduction to special section on the Phoenix Mission: Landing Site Characterization Experiments, Mission Overviews, and Expected Science. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	95
15	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017, 211, 611-650.	8.1	80
16	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	77
17	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
18	The Noise Model of the SEIS Seismometer of the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017, 211, 383-428.	8.1	73

#	ARTICLE	IF	CITATIONS
19	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
20	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	58
21	Microscopy capabilities of the Microscopy, Electrochemistry, and Conductivity Analyzer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
22	Quantification of the dry history of the Martian soil inferred from in situ microscopy. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	50
23	First Focal Mechanisms of Marsquakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006546.	3.6	43
24	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars InSight Mission. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2982-3002.	2.3	42
25	High-Frequency Seismic Events on Mars Observed by InSight. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006670.	3.6	40
26	Microscopy analysis of soils at the Phoenix landing site, Mars: Classification of soil particles and description of their optical and magnetic properties. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
27	Expected Seismicity and the Seismic Noise Environment of Europa. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 163-179.	3.6	38
28	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
29	A broad-band silicon microseismometer with 0.25 NG/rtHz performance. , 2018, , .		33
30	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.	3.6	33
31	Assessment of InSight Landing Site Predictions. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006502.	3.6	32
32	Vital Signs: Seismology of Icy Ocean Worlds. <i>Astrobiology</i> , 2018, 18, 37-53.	3.0	31
33	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
34	A self-levelling nano-g silicon seismometer. , 2014, , .		25
35	Onâ€“Deck Seismology: Lessons from InSight for Future Planetary Seismology. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006353.	3.6	25
36	Vortexâ€“Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multiâ€“Instrument Observations, Analysis, and Implications. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006757.	3.6	23

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37	A Numerical Model of the SEIS Leveling System Transfer Matrix and Resonances: Application to SEIS Rotational Seismology and Dynamic Ground Interaction. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	22
38	Seismic Coupling of Short-Period Wind Noise Through Mars's Regolith for NASA's InSight Lander. <i>Space Science Reviews</i> , 2017, 211, 485-500.	8.1	20
39	Degradation of Homestead Hollow at the InSight Landing Site Based on the Distribution and Properties of Local Deposits. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006350.	3.6	20
40	Super High Frequency Events: A New Class of Events Recorded by the InSight Seismometers on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006599.	3.6	19
41	LunarEX a proposal to cosmic vision. <i>Experimental Astronomy</i> , 2009, 23, 711-740.	3.7	18
42	Planetary seismometry. , 0, , 36-48.		18
43	Magnetic properties experiments and the Surface Stereo Imager calibration target onboard the Mars Phoenix 2007 Lander: Design, calibration, and science goals. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
44	Seismic High-Resolution Acquisition Electronics for the NASA InSight Mission on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2909-2923.	2.3	17
45	Lunar Net a proposal in response to an ESA M3 call in 2010 for a medium sized mission. <i>Experimental Astronomy</i> , 2012, 33, 587-644.	3.7	15
46	Resonances of the InSight Seismometer on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2951-2963.	2.3	15
47	Determination of the dynamics of micromachined lateral suspensions in the scanning electron microscope. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, S82-S88.	2.6	13
48	Improved design of micromachined lateral suspensions using intermediate frames. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1680-1694.	2.6	12
49	Life Sciences Investigations for ESA's First Lunar Lander. <i>Earth, Moon and Planets</i> , 2010, 107, 11-23.	0.6	10
50	Comparison of InSight Homestead Hollow to Hollows at the Spirit Landing Site. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006435.	3.6	10
51	The first active seismic experiment on Mars to characterize the shallow subsurface structure at the InSight landing site. , 2019, , .		10
52	Solder Pump Technology for Through-Silicon via Fabrication. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 561-563.	2.5	9
53	Standing on Apollo's Shoulders: A Microseismometer for the Moon. <i>Planetary Science Journal</i> , 2021, 2, 36.	3.6	9
54	Full-Band Signal Extraction From Sensors in Extreme Environments: The NASA InSight Microseismometer. <i>IEEE Sensors Journal</i> , 2018, 18, 9382-9392.	4.7	8

#	ARTICLE	IF	CITATIONS
55	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
56	A silicon microseismometer for Mars. , 2013, , .		6
57	A Reconstruction Algorithm for Temporally Aliased Seismic Signals Recorded by the InSight Mars Lander. Earth and Space Science, 2021, 8, e2020EA001234.	2.6	6
58	An online NIPALS algorithm for Partial Least Squares. , 2017, , .		5
59	SURFACE ALTERATION FROM LANDING INSIGHT ON MARS AND ITS IMPLICATIONS FOR SHALLOW REGOLITH STRUCTURE. , 2019, , .		5
60	Isolation of Seismic Signal from InSight/SEIS-SP Microseismometer Measurements. Space Science Reviews, 2018, 214, 1.	8.1	2
61	Ground ice at the Phoenix Landing Site: Stability state and origin. , 2009, , .		1