

Taichi Kawamura

List of Publications by Year in descending order

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61
papers

2,743
citations

186209

28
h-index

182361

51
g-index

61
all docs

61
docs citations

61
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic constraints from a Mars impact experiment using InSight and Perseverance. <i>Nature Astronomy</i> , 2022, 6, 59-64.	4.2	9
2	The Lunar Geophysical Network Landing Sites Science Rationale. <i>Planetary Science Journal</i> , 2022, 3, 40.	1.5	7
3	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	1.3	29
4	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. <i>Experimental Astronomy</i> , 2022, 54, 617-640.	1.6	2
5	Seismic sources of InSight marsquakes and seismotectonic context of Elysium Planitia, Mars. <i>Tectonophysics</i> , 2022, 837, 229434.	0.9	18
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.	0.7	64
7	The Marsquake catalogue from InSight, sols 0â€“478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	0.7	97
8	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.	1.5	19
9	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	1.5	33
10	Low dispersion spectra of lunar impact flashes in 2018 Geminids. <i>Planetary and Space Science</i> , 2021, 195, 105131.	0.9	7
11	Measuring Fundamental and Higher Mode Surface Wave Dispersion on Mars From Seismic Waveforms. <i>Earth and Space Science</i> , 2021, 8, e2020EA001263.	1.1	0
12	High-Frequency Seismic Events on Mars Observed by InSight. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006670.	1.5	40
13	Simulation of Seismic Wave Propagation on Asteroid Ryugu Induced by The Impact Experiment of The Hayabusa2 Mission: Limited Mass Transport by Low Yield Strength of Porous Regolith. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006594.	1.5	8
14	Numerical Simulation of Lunar Seismic Wave Propagation: Investigation of Subsurface Scattering Properties Near Apollo 12 Landing Site. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006406.	1.5	9
15	Listening for the Landing: Seismic Detections of Perseverance's Arrival at Mars With InSight. <i>Earth and Space Science</i> , 2021, 8, e2020EA001585.	1.1	5
16	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
17	First Focal Mechanisms of Marsquakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006546.	1.5	43
18	Magnitude Scales for Marsquakes Calibrated from InSight Data. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3003-3015.	1.1	25

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19	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	6.0	169
20	Scattering Attenuation of the Martian Interior through Coda-Wave Analysis. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3035-3054.	1.1	17
21	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117171.	1.8	13
22	Resonances of the InSight Seismometer on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2951-2963.	1.1	15
23	Energy Envelope and Attenuation Characteristics of High-Frequency (HF) and Very-High-Frequency (VF) Martian Events. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3016-3034.	1.1	23
24	Anatomy of Continuous Mars SEIS and Pressure Data from Unsupervised Learning. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2964-2981.	1.1	14
25	Numerical Simulations of the Apollo 16 Artificial Impacts on the Moon. <i>Earth and Space Science</i> , 2021, 8, e2021EA001887.	1.1	7
26	Questions to Heaven. <i>Astronomy and Geophysics</i> , 2021, 62, 6.22-6.25.	0.1	2
27	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006382.	1.5	24
28	Lunar Seismology: A Data and Instrumentation Review. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	59
29	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
30	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020, 7, e2020EA001118.	1.1	16
31	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
32	Pressure Effects on the SEIS 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
33	Lagrangian-based Simulations of Hypervelocity Impact Experiments on Mars Regolith Proxy. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087393.	1.5	7
34	NASA's InSight mission on Mars—first glimpses of the planet's interior from seismology. <i>Nature Communications</i> , 2020, 11, 1451.	5.8	8
35	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	5.4	161
36	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

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37	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	5.4	194
38	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
39	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
40	Lunar Seismology: An Update on Interior Structure Models. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	60
41	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	3.7	238
42	Mars's Background Free Oscillations. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	7
43	Estimation of the Seismic Moment Rate from an Incomplete Seismicity Catalog, in the Context of the InSight Mission to Mars. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1125-1147.	1.1	7
44	Present-day Mars' Seismicity Predicted From Thermal Evolution Models of Interior Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 2580-2589.	1.5	35
45	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
46	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	48
47	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
48	Evaluation of deep moonquake source parameters: Implication for fault characteristics and thermal state. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1487-1504.	1.5	27
49	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
50	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
51	Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. <i>Space Science Reviews</i> , 2017, 211, 429-455.	3.7	65
52	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
53	Impact seismology on terrestrial and giant planets. , 2015, , 250-263.		4
54	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

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55	Lunar Surface Gravimeter as a lunar seismometer: Investigation of a new source of seismic information on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 343-358.	1.5	9
56	Designing a torque-less wind shield for broadband observation of marsquakes. <i>Planetary and Space Science</i> , 2014, 104, 288-294.	0.9	7
57	The present-day flux of large meteoroids on the lunar surface—A synthesis of models and observational techniques. <i>Planetary and Space Science</i> , 2012, 74, 179-193.	0.9	46
58	Cratering asymmetry on the Moon: New insight from the Apollo Passive Seismic Experiment. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	8
59	Sublimation—™s impact on temporal change of albedo dichotomy on Iapetus. <i>Icarus</i> , 2011, 214, 596-605.	1.1	9
60	Timing and duration of mare volcanism in the central region of the northern farside of the Moon. <i>Earth, Planets and Space</i> , 2011, 63, 5-13.	0.9	25
61	X-Ray Fluorescence Spectrometry of Lunar Surface by XRS Onboard SELENE (Kaguya). <i>Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan</i> , 2009, 7, Tk_39-Tk_42.	0.2	9