

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	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
2	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	3.7	238
3	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
4	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	5.4	194
5	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	6.0	169
6	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	5.4	161
7	The Marsquake catalogue from InSight, sols 0-478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	0.7	97
8	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
9	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
10	Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. <i>Space Science Reviews</i> , 2017, 211, 429-455.	3.7	65
11	Companion guide to the marsquake catalog from InSight, Sols 0-478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	0.7	64
12	Lunar Seismology: An Update on Interior Structure Models. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	60
13	Lunar Seismology: A Data and Instrumentation Review. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	59
14	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
15	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
16	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	48
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	First Focal Mechanisms of Marsquakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006546.	1.5	43
20	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
21	High-Frequency Seismic Events on Mars Observed by InSight. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006670.	1.5	40
22	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
23	Present-Day Mars' Seismicity Predicted From Thermal Evolution Models of Interior Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 2580-2589.	1.5	35
24	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	1.5	33
25	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
26	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
27	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
28	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
29	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	1.3	29
30	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
31	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
32	Magnitude Scales for Marsquakes Calibrated from InSight Data. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3003-3015.	1.1	25
33	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
34	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
35	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
36	Seismic sources of InSight marsquakes and seismotectonic context of Elysium Planitia, Mars. <i>Tectonophysics</i> , 2022, 837, 229434.	0.9	18

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37	Scattering Attenuation of the Martian Interior through Coda-Wave Analysis. Bulletin of the Seismological Society of America, 2021, 111, 3035-3054.	1.1	17
38	MSS/1: Single-Station and Single-Event Marsquake Inversion. Earth and Space Science, 2020, 7, e2020EA001118.	1.1	16
39	Resonances of the InSight Seismometer on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2951-2963.	1.1	15
40	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
41	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	1.8	13
42	Sublimation's impact on temporal change of albedo dichotomy on Iapetus. Icarus, 2011, 214, 596-605.	1.1	9
43	Lunar Surface Gravimeter as a lunar seismometer: Investigation of a new source of seismic information on the Moon. Journal of Geophysical Research E: Planets, 2015, 120, 343-358.	1.5	9
44	Numerical Simulation of Lunar Seismic Wave Propagation: Investigation of Subsurface Scattering Properties Near Apollo 12 Landing Site. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006406.	1.5	9
45	X-Ray Fluorescence Spectrometry of Lunar Surface by XRS Onboard SELENE (Kaguya). Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tk_39-Tk_42.	0.2	9
46	Seismic constraints from a Mars impact experiment using InSight and Perseverance. Nature Astronomy, 2022, 6, 59-64.	4.2	9
47	Cratering asymmetry on the Moon: New insight from the Apollo Passive Seismic Experiment. Geophysical Research Letters, 2011, 38, .	1.5	8
48	NASA's InSight mission on Mars's first glimpses of the planet's interior from seismology. Nature Communications, 2020, 11, 1451.	5.8	8
49	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. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006594.	1.5	8
50	Designing a torque-less wind shield for broadband observation of marsquakes. Planetary and Space Science, 2014, 104, 288-294.	0.9	7
51	Mars's Background Free Oscillations. Space Science Reviews, 2019, 215, 1.	3.7	7
52	Estimation of the Seismic Moment Rate from an Incomplete Seismicity Catalog, in the Context of the InSight Mission to Mars. Bulletin of the Seismological Society of America, 2019, 109, 1125-1147.	1.1	7
53	Lagrangian-based Simulations of Hypervelocity Impact Experiments on Mars Regolith Proxy. Geophysical Research Letters, 2020, 47, e2020GL087393.	1.5	7
54	Low dispersion spectra of lunar impact flashes in 2018 Geminids. Planetary and Space Science, 2021, 195, 105131.	0.9	7

