

David Mimoun

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,658
citations

201575

27
h-index

223716

46
g-index

54
all docs

54
docs citations

54
times ranked

1766
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	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	5.4	161
6	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	3.7	160
7	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	131
8	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
9	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
10	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	77
11	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
12	Planetary and exoplanetary low frequency radio observations from the Moon. <i>Planetary and Space Science</i> , 2012, 74, 156-166.	0.9	68
13	Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. <i>Space Science Reviews</i> , 2017, 211, 429-455.	3.7	65
14	Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 153, 50-60.	1.5	57
15	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
16	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
17	Farside explorer: unique science from a mission to the farside of the moon. <i>Experimental Astronomy</i> , 2012, 33, 529-585.	1.6	52
18	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	4.7	47

#	ARTICLE	IF	CITATIONS
19	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
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	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
22	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009, 23, 849-892.	1.6	38
23	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
24	Simulation of the capabilities of an orbiter for monitoring the entry of interplanetary matter into the terrestrial atmosphere. <i>Planetary and Space Science</i> , 2014, 103, 238-249.	0.9	36
25	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
26	Laser-induced breakdown spectroscopy acoustic testing of the Mars 2020 microphone. <i>Planetary and Space Science</i> , 2019, 165, 260-271.	0.9	32
27	In situ recording of Mars soundscape. <i>Nature</i> , 2022, 605, 653-658.	13.7	30
28	Detection of Artificially Generated Seismic Signals Using Balloon-Borne Infrasonics Sensors. <i>Geophysical Research Letters</i> , 2018, 45, 3393-3403.	1.5	26
29	Aerial Seismology Using Balloon-Based Barometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 10191-10201.	2.7	25
30	Recording laser-induced sparks on Mars with the SuperCam microphone. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 106000.	1.5	25
31	Micro-meteoroid seismic uplift and regolith concentration on kilometer scale asteroids. <i>Icarus</i> , 2015, 253, 159-168.	1.1	18
32	Numerical Simulation of the Atmospheric Signature of Artificial and Natural Seismic Events. <i>Geophysical Research Letters</i> , 2018, 45, 12,085.	1.5	17
33	Probing the internal structure of the asteroid Didymos with a passive seismic investigation. <i>Planetary and Space Science</i> , 2017, 144, 89-105.	0.9	16
34	Constraining Martian Regolith and Vortex Parameters From Combined Seismic and Meteorological Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006410.	1.5	16
35	An active source seismo-acoustic experiment using tethered balloons to validate instrument concepts and modelling tools for atmospheric seismology. <i>Geophysical Journal International</i> , 2021, 225, 186-199.	1.0	15
36	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. <i>Planetary and Space Science</i> , 2020, 193, 104960.	0.9	15

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37	A novel facility for reduced-gravity testing: A setup for studying low-velocity collisions into granular surfaces. <i>Review of Scientific Instruments</i> , 2016, 87, 084504.	0.6	13
38	Experimental Wind Characterization with the SuperCam Microphone under a Simulated martian Atmosphere. <i>Icarus</i> , 2021, 354, 114060.	1.1	12
39	Infrasound From Large Earthquakes Recorded on a Network of Balloons in the Stratosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	9
40	Exploring planets and asteroids with 6DoF sensors: Utopia and realism. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	8
41	High Precision SEIS Calibration for the InSight Mission and Its Applications. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	7
42	The Site Tilt and Lander Transfer Function from the Short-Period Seismometer of InSight on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2889-2908.	1.1	7
43	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. <i>Seismological Research Letters</i> , 0, , .	0.8	5
44	Forward Modeling of the Phobos Tides and Applications to the First Martian Year of the InSight Mission. <i>Earth and Space Science</i> , 2021, 8, e2021EA001669.	1.1	4
45	Finding SEIS North on Mars: Comparisons Between SEIS Sundial, Inertial and Imaging Measurements and Consequences for Seismic Analysis. <i>Earth and Space Science</i> , 2021, 8, e2020EA001286.	1.1	3
46	Isolation of Seismic Signal from InSight/SEIS-SP Microseismometer Measurements. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	2
47	Determining True North on Mars by Using a Sundial on InSight. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	2
48	Sub-band interferometry on polarimetric SAR dataset. , 2007, , .		1
49	Fiber optic gyroscope For 6-component planetary seismology. , 2019, , .		1
50	Probing the interior of asteroid Apophis: a unique opportunity in 2029. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 481-482.	0.0	0