

David Mimoun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4036676/publications.pdf>

Version: 2024-02-01

50
papers

2,658
citations

201674
27
h-index

223800
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. Nature Geoscience, 2020, 13, 183-189. | 12.9 | 274 |
| 2 | SEIS: Insight's Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12. | 8.1 | 238 |
| 3 | Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220. | 12.9 | 207 |
| 4 | The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212. | 12.9 | 194 |
| 5 | The atmosphere of Mars as observed by InSight. Nature Geoscience, 2020, 13, 190-198. | 12.9 | 161 |
| 6 | The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4. | 8.1 | 160 |
| 7 | The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. Space Science Reviews, 2021, 217, 1. | 8.1 | 131 |
| 8 | Atmospheric Science with InSight. Space Science Reviews, 2018, 214, 1. | 8.1 | 88 |
| 9 | Planned Products of the Mars Structure Service for the InSight Mission to Mars. Space Science Reviews, 2017, 211, 611-650. | 8.1 | 80 |
| 10 | Geology and Physical Properties Investigations by the InSight Lander. Space Science Reviews, 2018, 214, 1. | 8.1 | 77 |
| 11 | The Noise Model of the SEIS Seismometer of the InSight Mission to Mars. Space Science Reviews, 2017, 211, 383-428. | 8.1 | 73 |
| 12 | Planetary and exoplanetary low frequency radio observations from the Moon. Planetary and Space Science, 2012, 74, 156-166. | 1.7 | 68 |
| 13 | Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. Space Science Reviews, 2017, 211, 429-455. | 8.1 | 65 |
| 14 | Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 50-60. | 2.9 | 57 |
| 15 | Single-station and single-event marsquake location and inversion for structure using synthetic Martian waveforms. Physics of the Earth and Planetary Interiors, 2016, 258, 28-42. | 1.9 | 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. Space Science Reviews, 2017, 211, 457-483. | 8.1 | 53 |
| 17 | Farside explorer: unique science from a mission to the farside of the moon. Experimental Astronomy, 2012, 33, 529-585. | 3.7 | 52 |
| 18 | The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, . | 10.3 | 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. | 3.6 | 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. | 8.1 | 41 |
| 21 | Seismometer Detection of Dust Devil Vortices by Ground Tilt. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 3015-3023. | 2.3 | 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. | 3.7 | 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. | 1.9 | 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. | 1.7 | 36 |
| 25 | Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution. <i>Planetary and Space Science</i> , 2012, 68, 123-145. | 1.7 | 32 |
| 26 | Laser-induced breakdown spectroscopy acoustic testing of the Mars 2020 microphone. <i>Planetary and Space Science</i> , 2019, 165, 260-271. | 1.7 | 32 |
| 27 | In situ recording of Mars soundscape. <i>Nature</i> , 2022, 605, 653-658. | 27.8 | 30 |
| 28 | Detection of Artificially Generated Seismic Signals Using Balloon-Borne Infrasonic Sensors. <i>Geophysical Research Letters</i> , 2018, 45, 3393-3403. | 4.0 | 26 |
| 29 | Aerial Seismology Using Balloon-Based Barometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 10191-10201. | 6.3 | 25 |
| 30 | Recording laser-induced sparks on Mars with the SuperCam microphone. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 106000. | 2.9 | 25 |
| 31 | Micro-meteoroid seismic uplift and regolith concentration on kilometeric scale asteroids. <i>Icarus</i> , 2015, 253, 159-168. | 2.5 | 18 |
| 32 | Numerical Simulation of the Atmospheric Signature of Artificial and Natural Seismic Events. <i>Geophysical Research Letters</i> , 2018, 45, 12,085. | 4.0 | 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. | 1.7 | 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. | 3.6 | 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. | 2.4 | 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. | 1.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A novel facility for reduced-gravity testing: A setup for studying low-velocity collisions into granular surfaces. Review of Scientific Instruments, 2016, 87, 084504. | 1.3 | 13 |
| 38 | Experimental Wind Characterization with the SuperCam Microphone under a Simulated martian Atmosphere. Icarus, 2021, 354, 114060. | 2.5 | 12 |
| 39 | Infrasound From Large Earthquakes Recorded on a Network of Balloons in the Stratosphere. Geophysical Research Letters, 2022, 49, . | 4.0 | 9 |
| 40 | Exploring planets and asteroids with 6DoF sensors: Utopia and realism. Earth, Planets and Space, 2020, 72, . | 2.5 | 8 |
| 41 | High Precision SEIS Calibration for the InSight Mission and Its Applications. Space Science Reviews, 2019, 215, 1. | 8.1 | 7 |
| 42 | 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 |
| 43 | Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , . | 1.9 | 5 |
| 44 | Forward Modeling of the Phobos Tides and Applications to the First Martian Year of the InSight Mission. Earth and Space Science, 2021, 8, e2021EA001669. | 2.6 | 4 |
| 45 | Finding SEIS North on Mars: Comparisons Between SEIS Sundial, Inertial and Imaging Measurements and Consequences for Seismic Analysis. Earth and Space Science, 2021, 8, e2020EA001286. | 2.6 | 3 |
| 46 | Isolation of Seismic Signal from InSight/SEIS-SP Microseismometer Measurements. Space Science Reviews, 2018, 214, 1. | 8.1 | 2 |
| 47 | Determining True North on Mars by Using a Sundial on InSight. Space Science Reviews, 2019, 215, 1. | 8.1 | 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. Proceedings of the International Astronomical Union, 2012, 10, 481-482. | 0.0 | 0 |