

Martin Knapmeyer

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,794
citations

236925

25
h-index

175258

52
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63
all docs

63
docs citations

63
times ranked

2397
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
2	The landing(s) of Philae and inferences about comet surface mechanical properties. <i>Science</i> , 2015, 349, aaa9816.	12.6	212
3	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
4	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
5	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
6	Working models for spatial distribution and level of Mars' seismicity. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	149
7	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	12.6	140
8	Long-Term Evolution of the Martian Crust-Mantle System. <i>Space Science Reviews</i> , 2013, 174, 49-111.	8.1	124
9	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	10.1	124
10	Geology, geochemistry, and geophysics of the Moon: Status of current understanding. <i>Planetary and Space Science</i> , 2012, 74, 15-41.	1.7	104
11	Imaging crustal discontinuities and the downgoing slab beneath western Crete. <i>Geophysical Journal International</i> , 2000, 143, 1-21.	2.4	100
12	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
13	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
14	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
15	The Thermal, Mechanical, Structural, and Dielectric Properties of Cometary Nuclei After Rosetta. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	61
16	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.	1.9	56
17	The Philae lander mission and science overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160248.	3.4	53
18	Farside explorer: unique science from a mission to the farside of the moon. <i>Experimental Astronomy</i> , 2012, 33, 529-585.	3.7	52

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19	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
20	High-Frequency Seismic Events on Mars Observed by InSight. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006670.	3.6	40
21	Present-Day Mars' Seismicity Predicted From Thermal Evolution Models of Interior Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 2580-2589.	4.0	35
22	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
23	Analysis of Regolith Properties Using Seismic Signals Generated by InSight's HP3 Penetrator. <i>Space Science Reviews</i> , 2017, 211, 315-337.	8.1	31
24	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	3.1	29
25	Structure and elastic parameters of the near surface of Abydos site on comet 67P/Churyumov-Gerasimenko, as obtained by SESAME/CASSE listening to the MUPUS insertion phase. <i>Icarus</i> , 2018, 310, 165-193.	2.5	28
26	Magnitude Scales for Marsquakes Calibrated from InSight Data. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3003-3015.	2.3	25
27	TTBox: A MatLab Toolbox for the Computation of 1D Teleseismic Travel Times. <i>Seismological Research Letters</i> , 2004, 75, 726-733.	1.9	24
28	Thermal fracturing on comets. <i>Astronomy and Astrophysics</i> , 2018, 610, A76.	5.1	24
29	Re-evaluation of Apollo 17 Lunar Seismic Profiling Experiment data. <i>Planetary and Space Science</i> , 2017, 135, 43-54.	1.7	23
30	LunarNet—a proposal to cosmic vision. <i>Experimental Astronomy</i> , 2009, 23, 711-740.	3.7	18
31	Constraining models of activity on comet 67P/Churyumov-Gerasimenko with Rosetta trajectory, rotation, and water production measurements. <i>Astronomy and Astrophysics</i> , 2019, 630, A18.	5.1	18
32	Rosetta Lander - Philae: Operations on comet 67P/Churyumov-Gerasimenko, analysis of wake-up activities and final state. <i>Acta Astronautica</i> , 2017, 137, 38-43.	3.2	16
33	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
34	The SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumov-Gerasimenko. <i>Acta Astronautica</i> , 2016, 125, 234-249.	3.2	14
35	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117171.	4.4	13
36	Influence of Body Waves, Instrumentation Resonances, and Prior Assumptions on Rayleigh Wave Ellipticity Inversion for Shallow Structure at the InSight Landing Site. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	10

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37	Seismic Velocity Variations in a 3D Martian Mantle: Implications for the InSight Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006755.	3.6	10
38	Compressive strength and elastic modulus at Agilkia on comet 67P/Churyumov-Gerasimenko derived from the SESAME/CASSE touchdown signals. <i>Icarus</i> , 2018, 303, 251-264.	2.5	9
39	A method for inverting the touchdown shock of the Philae lander on comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2015, 106, 46-55.	1.7	8
40	A seismic-network mission proposal as an example for modular robotic lunar exploration missions. <i>Acta Astronautica</i> , 2017, 134, 121-132.	3.2	8
41	Location of seismic events using inaccurate data from very sparse networks. <i>Geophysical Journal International</i> , 2008, 175, 975-991.	2.4	7
42	Planetary core size: A seismological approach. <i>Planetary and Space Science</i> , 2011, 59, 1062-1068.	1.7	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.	2.3	7
44	Re-evaluation of Apollo 17 Lunar Seismic Profiling Experiment data including new LROC-derived coordinates for explosive packages 1 and 7, at Taurus-Littrow, Moon. <i>Planetary and Space Science</i> , 2021, 206, 105307.	1.7	7
45	The Lunar Geophysical Network Landing Sites Science Rationale. <i>Planetary Science Journal</i> , 2022, 3, 40.	3.6	7
46	Numerical Accuracy of Travel-time Software in Comparison with Analytic Results. <i>Seismological Research Letters</i> , 2005, 76, 74-81.	1.9	6
47	Uncertainty of Apollo deep moonquake locations and implications for future network designs. <i>Icarus</i> , 2012, 220, 971-980.	2.5	5
48	A robotically deployable lunar surface science station and its validation in a Moon-analogue environment. <i>Planetary and Space Science</i> , 2020, 193, 105080.	1.7	5
49	Modeling approaches in planetary seismology. , 2015, , 140-156.		4
50	Long-Term Evolution of the Martian Crust-Mantle System. <i>Space Sciences Series of ISSI</i> , 2012, , 49-111.	0.0	4
51	Surface mechanical properties of comet 67P. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SG0801.	1.5	2
52	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. <i>Experimental Astronomy</i> , 2022, 54, 617-640.	3.7	2
53	Seismicity and interior structure of the Moon. , 2015, , 203-224.		1
54	Corrigendum to “The SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumov-Gerasimenko” [<i>Acta Astronaut.</i> , DOI: 10.1016/j.actaastro.2016.02.018]. <i>Acta Astronautica</i> , 2016, 123, 227-228.	3.2	1

#	ARTICLE	IF	CITATIONS
55	4.2.3.3 Planetary seismology. Landolt-Börnstein - Group VI Astronomy and Astrophysics, 2009, , 282-322.	0.1	1
56	The Network Infrastructure for the ROBEX Demomission Space. , 2018, , .		0