Martin Knapmeyer

List of Publications by Year
in descending order

56	2,794	236925 25	175258 52
papers	citations	h-index	g-index

63	63	63	2397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Lunar Geophysical Network Landing Sites Science Rationale. Planetary Science Journal, 2022, 3, 40.	3.6	7
2	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. The Seismic Record, 2022, 2, 88-99.	3.1	29
3	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. Experimental Astronomy, 2022, 54, 617-640.	3.7	2
4	Highâ€Frequency Seismic Events on Mars Observed by InSight. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006670.	3.6	40
5	Magnitude Scales for Marsquakes Calibrated from InSight Data. Bulletin of the Seismological Society of America, 2021, 111, 3003-3015.	2.3	25
6	Seismic Velocity Variations in a 3D Martian Mantle: Implications for the InSight Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006755.	3.6	10
7	Thickness and structure of the martian crust from InSight seismic data. Science, 2021, 373, 438-443.	12.6	140
8	Seismic detection of the martian core. Science, 2021, 373, 443-448.	12.6	169
9	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. Planetary and Space Science, 2021, 206, 105307.	1.7	7
10	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	4.4	13
11	A robotically deployable lunar surface science station and its validation in a Moon-analogue environment. Planetary and Space Science, 2020, 193, 105080.	1.7	5
12	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. Earth and Space Science, 2020, 7, e2020EA001317.	2.6	75
13	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
14	The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212.	12.9	194
15	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
16	Surface mechanical properties of comet 67P. Japanese Journal of Applied Physics, 2019, 58, SG0801.	1.5	2
17	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. Nature Astronomy, 2019, 3, 971-976.	10.1	124
18	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.	2.3	7

#	Article	IF	Citations
19	The Thermal, Mechanical, Structural, and Dielectric Properties of Cometary Nuclei After Rosetta. Space Science Reviews, 2019, 215, 1.	8.1	61
20	Constraining models of activity on comet 67P/Churyumov-Gerasimenko with Rosetta trajectory, rotation, and water production measurements. Astronomy and Astrophysics, 2019, 630, A18.	5.1	18
21	Presentâ€Day Mars' Seismicity Predicted From 3â€D Thermal Evolution Models of Interior Dynamics. Geophysical Research Letters, 2018, 45, 2580-2589.	4.0	35
22	Structure and elastic parameters of the near surface of Abydos site on comet 67P/Churyumovâ€“Gerasimenko, as obtained by SESAME/CASSE listening to the MUPUS insertion phase. Icarus, 2018, 310, 165-193.	2.5	28
23	Compressive strength and elastic modulus at Agilkia on comet 67P/Churyumov-Gerasimenko derived from the SESAME/CASSE touchdown signals. Icarus, 2018, 303, 251-264.	2.5	9
24	Thermal fracturing on comets. Astronomy and Astrophysics, 2018, 610, A76.	5.1	24
25	The Network Infrastructure for the ROBEX Demomission Space. , 2018, , .		0
26	The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. Space Science Reviews, 2018, 214, 1.	8.1	41
27	Influence of Body Waves, Instrumentation Resonances, and Prior Assumptions on Rayleigh Wave Ellipticity Inversion for Shallow Structure at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	8.1	10
28	Re-evaluation of Apollo 17 Lunar Seismic Profiling Experiment data. Planetary and Space Science, 2017, 135, 43-54.	1.7	23
29	A seismic-network mission proposal as an example for modular robotic lunar exploration missions. Acta Astronautica, 2017, 134, 121-132.	3.2	8
30	Rosetta Lander - Philae: Operations on comet 67P/Churyumov-Gerasimenko, analysis of wake-up activities and final state. Acta Astronautica, 2017, 137, 38-43.	3.2	16
31	Planned Products of the Mars Structure Service for the InSight Mission to Mars. Space Science Reviews, 2017, 211, 611-650.	8.1	80
32	The Philae lander mission and science overview. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160248.	3.4	53
33	Analysis of Regolith Properties Using Seismic Signals Generated by InSightâ€™s HP3 Penetrator. Space Science Reviews, 2017, 211, 315-337.	8.1	31
34	Corrigendum to â€œThe SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumovâ€“Gerasimenkoâ€•[Acta Astronaut., DOI: 10.1016/j.actaastro.2016.02.018]. Acta Astronautica, 2016, 123, 227-228.	3.2	1
35	The SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumovâ€“Gerasimenko. Acta Astronautica, 2016, 125, 234-249.	3.2	14
36	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

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37	Seismicity and interior structure of the Moon. , 2015, , 203-224.		1
38	Modeling approaches in planetary seismology. , 2015, , 140-156.		4
39	The landing(s) of Philae and inferences about comet surface mechanical properties. Science, 2015, 349, aaa9816.	12.6	212
40	A method for inverting the touchdown shock of the Philae lander on comet 67P/Churyumov-Gerasimenko. Planetary and Space Science, 2015, 106, 46-55.	1.7	8
41	Long-Term Evolution of the Martian Crust-Mantle System. Space Science Reviews, 2013, 174, 49-111.	8.1	124
42	Geology, geochemistry, and geophysics of the Moon: Status of current understanding. Planetary and Space Science, 2012, 74, 15-41.	1.7	104
43	Uncertainty of Apollo deep moonquake locations and implications for future network designs. Icarus, 2012, 220, 971-980.	2.5	5
44	Lunar Netâ€”a proposal in response to an ESA M3 call in 2010 for a medium sized mission. Experimental Astronomy, 2012, 33, 587-644.	3.7	15
45	Farside explorer: unique science from a mission to the farside of the moon. Experimental Astronomy, 2012, 33, 529-585.	3.7	52
46	Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution. Planetary and Space Science, 2012, 68, 123-145.	1.7	32
47	Long-Term Evolution of the Martian Crust-Mantle System. Space Sciences Series of ISSI, 2012, , 49-111.	0.0	4
48	Planetary core size: A seismological approach. Planetary and Space Science, 2011, 59, 1062-1068.	1.7	7
49	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	3.7	77
50	LunarEXâ€”a proposal to cosmic vision. Experimental Astronomy, 2009, 23, 711-740.	3.7	18
51	4.2.3.3 Planetary seismology. Landolt-Bâ€šâ€,rnstein - Group VI Astronomy and Astrophysics, 2009, , 282-322.	0.1	1
52	Location of seismic events using inaccurate data from very sparse networks. Geophysical Journal International, 2008, 175, 975-991.	2.4	7
53	Working models for spatial distribution and level of Mars' seismicity. Journal of Geophysical Research, 2006, 111, .	3.3	149
54	Numerical Accuracy of Travel-time Software in Comparison with Analytic Results. Seismological Research Letters, 2005, 76, 74-81.	1.9	6

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55	TTBox: A MatLab Toolbox for the Computation of 1D Teleseismic Travel Times. Seismological Research Letters, 2004, 75, 726-733.	1.9	24
56	Imaging crustal discontinuities and the downgoing slab beneath western Crete. Geophysical Journal International, 2000, 143, 1-21.	2.4	100