

Hauke Hussmann

List of Publications by Year in descending order

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46
papers

2,217
citations

430874

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265206

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47
all docs

47
docs citations

47
times ranked

2109
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic orbits for interferometric and tomographic radar imaging of Saturn's moon Enceladus. Acta Astronautica, 2022, 191, 326-345.	3.2	2
2	The Ganymede Laser Altimeter (GALA) for the Jupiter Icy Moons Explorer (JUICE): Mission, science, and instrumentation of its receiver modules. Advances in Space Research, 2022, 69, 2283-2304.	2.6	10
3	Terminator orbits around the triple asteroid 2001-SN263 in application to the deep space mission ASTER. Acta Astronautica, 2022, 198, 631-641.	3.2	0
4	Geodesy, Geophysics and Fundamental Physics Investigations of the BepiColombo Mission. Space Science Reviews, 2021, 217, 1.	8.1	25
5	The BepiColombo Laser Altimeter. Space Science Reviews, 2021, 217, 1.	8.1	15
6	Processing of laser altimeter time-of-flight measurements to geodetic coordinates. Journal of Geodesy, 2021, 95, 1.	3.6	6
7	Improvement of orbit determination using laser altimeter crossovers: JUICE mission case study. Acta Astronautica, 2021, 182, 587-598.	3.2	3
8	Orbital evolution of the BepiColombo Mercury Planetary Orbiter (MPO) in the gravity field of Mercury. Planetary and Space Science, 2021, 200, 105195.	1.7	1
9	BepiColombo - Mission Overview and Science Goals. Space Science Reviews, 2021, 217, 1.	8.1	76
10	The surface roughness of Europa derived from Galileo stereo images. Icarus, 2020, 343, 113669.	2.5	15
11	Prospects for measuring Mercury's tidal Love number h_2 with the BepiColombo Laser Altimeter. Astronomy and Astrophysics, 2020, 633, A85.	5.1	11
12	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	1.7	15
13	Geodesy and geophysics of Mercury: Prospects in view of the BepiColombo mission. European Physical Journal: Special Topics, 2020, 229, 1379-1389.	2.6	2
14	Rationale for BepiColombo Studies of Mercury's Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	46
15	The BepiColombo Laser Altimeter (BELA): a post-launch summary. CEAS Space Journal, 2019, 11, 371-380.	2.3	5
16	Measuring Ganymede's Librations with Laser Altimetry. Geosciences (Switzerland), 2019, 9, 320.	2.2	8
17	The Ganymede laser altimeter (GALA): key objectives, instrument design, and performance. CEAS Space Journal, 2019, 11, 381-390.	2.3	13
18	BELA transmitter performance and pointing stability verification campaign at DLR-PF. Acta Astronautica, 2019, 154, 103-118.	3.2	2

#	ARTICLE	IF	CITATIONS
19	Early resonances of Tethys and Dione: Implications for Ithaca Chasma. <i>Icarus</i> , 2019, 319, 407-416.	2.5	7
20	Viscoelastic Tides of Mercury and the Determination of its Inner Core Size. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2760-2772.	3.6	24
21	The performance of the BepiColombo Laser Altimeter (BELA) prior launch and prospects for Mercury orbit operations. <i>Planetary and Space Science</i> , 2018, 159, 84-92.	1.7	20
22	The reference frames of Mercury after the MESSENGER mission. <i>Journal of Geodesy</i> , 2018, 92, 949-961.	3.6	3
23	Optical/mechanical design of the focal plane receiver of the Ganymede Laser Altimeter (GALA) for the Jupiter Icy Moons Explorer (JUICE) mission. , 2018, , .		0
24	Frequency-dependent tidal dissipation in a viscoelastic Saturnian core and expansion of Mimas's semi-major axis. <i>Astronomy and Astrophysics</i> , 2017, 599, L10.	5.1	9
25	Spacecraft orbit lifetime within two binary near-Earth asteroid systems. <i>Planetary and Space Science</i> , 2017, 146, 1-9.	1.7	12
26	Analysis of one-way laser ranging data to LRO, time transfer and clock characterization. <i>Icarus</i> , 2017, 283, 38-54.	2.5	12
27	Constraints on dissipation in the deep interiors of Ganymede and Europa from tidal phase-lags. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2016, 126, 131-144.	1.4	16
28	Interiors and Evolution of Icy Satellites. , 2015, , 605-635.		24
29	Mercury's resonant rotation from secular orbital elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2015, 123, 263-277.	1.4	16
30	Measuring tidal deformations by laser altimetry. A performance model for the Ganymede Laser Altimeter. <i>Planetary and Space Science</i> , 2015, 117, 184-191.	1.7	31
31	Structural and tidal models of Titan and inferences on cryovolcanism. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1013-1036.	3.6	41
32	Ice rheology and tidal heating of Enceladus. <i>Icarus</i> , 2013, 226, 10-19.	2.5	32
33	Jupiter ICy moons Explorer (JUICE): An ESA mission to orbit Ganymede and to characterise the Jupiter system. <i>Planetary and Space Science</i> , 2013, 78, 1-21.	1.7	455
34	Review of Exchange Processes on Ganymede in View of Its Planetary Protection Categorization. <i>Astrobiology</i> , 2013, 13, 991-1004.	3.0	16
35	Stability and evolution of orbits around the binary asteroid 175706 (1996 FG3): Implications for the MarcoPolo-R mission. <i>Planetary and Space Science</i> , 2012, 70, 102-113.	1.7	23
36	Measuring tidal deformations at Europa's surface. <i>Advances in Space Research</i> , 2011, 48, 718-724.	2.6	14

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37	Evolution of Icy Satellites. <i>Space Science Reviews</i> , 2010, 153, 447-484.	8.1	49
38	Implications of Rotation, Orbital States, Energy Sources, and Heat Transport for Internal Processes in Icy Satellites. <i>Space Science Reviews</i> , 2010, 153, 317-348.	8.1	52
39	Tidal friction in close-in satellites and exoplanets: The Darwin theory re-visited. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 101, 171-201.	1.4	198
40	Hydrothermal Systems in Small Ocean Planets. <i>Astrobiology</i> , 2007, 7, 987-1005.	3.0	213
41	Tidal friction in close-in planets. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 179-186.	0.0	2
42	Subsurface oceans and deep interiors of medium-sized outer planet satellites and large trans-neptunian objects. <i>Icarus</i> , 2006, 185, 258-273.	2.5	245
43	Thermal-orbital evolution of Io and Europa. <i>Icarus</i> , 2004, 171, 391-410.	2.5	193
44	Interior structure models and tidal Love numbers of Titan. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	111
45	Thermal Equilibrium States of Europa's Ice Shell: Implications for Internal Ocean Thickness and Surface Heat Flow. <i>Icarus</i> , 2002, 156, 143-151.	2.5	142
46	The case for landed Mercury science. <i>Experimental Astronomy</i> , 0, , 1.	3.7	0