

Alexander Stark

List of Publications by Year in descending order

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41
papers

396
citations

759233

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839539

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51
all docs

51
docs citations

51
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic orbits for interferometric and tomographic radar imaging of Saturn's moon Enceladus. <i>Acta Astronautica</i> , 2022, 191, 326-345.	3.2	2
2	Planetary polar explorer – the case for a next-generation remote sensing mission to low Mars orbit. <i>Experimental Astronomy</i> , 2022, 54, 695-711.	3.7	6
3	Altimetry Measurements From Planetary Radar Sounders and Application to SHARAD on Mars. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	6
4	The Ganymede Laser Altimeter (GALA) for the Jupiter Icy Moons Explorer (JUICE): Mission, science, and instrumentation of its receiver modules. <i>Advances in Space Research</i> , 2022, 69, 2283-2304.	2.6	10
5	Prospects for mapping temporal height variations of the seasonal CO ₂ snow/ice caps at the Martian poles by co-registration of MOLA profiles. <i>Planetary and Space Science</i> , 2022, 214, 105446.	1.7	5
6	Recomputation and Updating of MOLA Geolocation. <i>Remote Sensing</i> , 2022, 14, 2201.	4.0	3
7	Spatio-Temporal Level Variations of the Martian Seasonal South Polar Cap From Co-Registration of MOLA Profiles. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	4
8	Terminator orbits around the triple asteroid 2001-SN263 in application to the deep space mission ASTER. <i>Acta Astronautica</i> , 2022, 198, 631-641.	3.2	0
9	Encounter trajectories for deep space mission ASTER to the triple near Earth asteroid 2001-SN263. The laser altimeter (ALR) point of view. <i>Advances in Space Research</i> , 2021, 67, 648-661.	2.6	3
10	Comprehensive in-orbit performance evaluation of the BepiColombo Laser Altimeter (BELA). <i>Planetary and Space Science</i> , 2021, 195, 105088.	1.7	2
11	Geodesy, Geophysics and Fundamental Physics Investigations of the BepiColombo Mission. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	25
12	The BepiColombo Laser Altimeter. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	15
13	Processing of laser altimeter time-of-flight measurements to geodetic coordinates. <i>Journal of Geodesy</i> , 2021, 95, 1.	3.6	6
14	Improvement of orbit determination using laser altimeter crossovers: JUICE mission case study. <i>Acta Astronautica</i> , 2021, 182, 587-598.	3.2	3
15	Orbital evolution of the BepiColombo Mercury Planetary Orbiter (MPO) in the gravity field of Mercury. <i>Planetary and Space Science</i> , 2021, 200, 105195.	1.7	1
16	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. <i>Planetary and Space Science</i> , 2021, 208, 105324.	1.7	12
17	Determination of the lunar body tide from global laser altimetry data. <i>Journal of Geodesy</i> , 2021, 95, 1.	3.6	9
18	The surface roughness of Europa derived from Galileo stereo images. <i>Icarus</i> , 2020, 343, 113669.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Prospects for measuring Mercury's tidal Love number h_2 with the BepiColombo Laser Altimeter. <i>Astronomy and Astrophysics</i> , 2020, 633, A85.	5.1	11
20	Geodesy and geophysics of Mercury: Prospects in view of the BepiColombo mission. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1379-1389.	2.6	2
21	Measuring Ganymede's Librations with Laser Altimetry. <i>Geosciences (Switzerland)</i> , 2019, 9, 320.	2.2	8
22	The Ganymede laser altimeter (GALA): key objectives, instrument design, and performance. <i>CEAS Space Journal</i> , 2019, 11, 381-390.	2.3	13
23	Performance Model Simulation of Ganymede Laser Altimeter (GALA) for the JUICE Mission. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2019, 17, 150-154.	0.2	1
24	Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2019, 17, 234-243.	0.2	4
25	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
26	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
27	The reference frames of Mercury after the MESSENGER mission. <i>Journal of Geodesy</i> , 2018, 92, 949-961.	3.6	3
28	Toward high-resolution global topography of Mercury from MESSENGER orbital stereo imaging: A prototype model for the H6 (Kuiper) quadrangle. <i>Planetary and Space Science</i> , 2017, 142, 26-37.	1.7	18
29	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
30	First MESSENGER orbital observations of Mercury's librations. <i>Geophysical Research Letters</i> , 2015, 42, 7881-7889.	4.0	44
31	Mercury's resonant rotation from secular orbital elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2015, 123, 263-277.	1.4	16
32	New Ganymede control point network and global shape model. <i>Planetary and Space Science</i> , 2015, 117, 246-249.	1.7	14
33	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
34	Mercury's rotational parameters from MESSENGER image and laser altimeter data: A feasibility study. <i>Planetary and Space Science</i> , 2015, 117, 64-72.	1.7	13
35	Mercury's global shape and topography from MESSENGER limb images. <i>Planetary and Space Science</i> , 2014, 103, 299-308.	1.7	12
36	Accurate non-relativistic photoionization cross section for He at non-resonant photon energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 035004.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Final state spectrum of ${}^3\text{He}$ International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 103-105.	2.5	1
38	THERMAL EFFECTS ON CAMERA FOCAL LENGTH IN MESSENGER STAR CALIBRATION AND ORBITAL IMAGING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 103-105.	0.2	1
39	ENCELADUS GEODETIC FRAMEWORK. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W1, 113-118.	0.2	3
40	The case for landed Mercury science. Experimental Astronomy, 0, , 1.	3.7	0
41	HIGH-RESOLUTION TOPOGRAPHY OF MERCURY FROM MESSENGER ORBITAL STEREO IMAGING â€” THE SOUTHERN HEMISPHERE QUADRANGLES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1389-1394.	0.2	0