Alexander Stark

List of Publications by Year
in descending order

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41	396	759233 12	839539 18
papers	citations	h-index	g-index

51	51	51	488
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First <scp>MESSENGER</scp> orbital observations of Mercury's librations. Geophysical Research Letters, 2015, 42, 7881-7889.	4.0	44
2	Measuring tidal deformations by laser altimetry. A performance model for the Ganymede Laser Altimeter. Planetary and Space Science, 2015, 117, 184-191.	1.7	31
3	Geodesy, Geophysics and Fundamental Physics Investigations of the BepiColombo Mission. Space Science Reviews, 2021, 217, 1.	8.1	25
4	Viscoelastic Tides of Mercury and the Determination of its Inner Core Size. Journal of Geophysical Research E: Planets, 2018, 123, 2760-2772.	3.6	24
5	The performance of the BepiColombo Laser Altimeter (BELA) prior launch and prospects for Mercury orbit operations. Planetary and Space Science, 2018, 159, 84-92.	1.7	20
6	Toward high-resolution global topography of Mercury from MESSENGER orbital stereo imaging: A prototype model for the H6 (Kuiper) quadrangle. Planetary and Space Science, 2017, 142, 26-37.	1.7	18
7	Mercuryâ€™s resonant rotation from secular orbital elements. Celestial Mechanics and Dynamical Astronomy, 2015, 123, 263-277.	1.4	16
8	Constraints on dissipation in the deep interiors of Ganymede and Europa from tidal phase-lags. Celestial Mechanics and Dynamical Astronomy, 2016, 126, 131-144.	1.4	16
9	The surface roughness of Europa derived from Galileo stereo images. Icarus, 2020, 343, 113669.	2.5	15
10	The BepiColombo Laser Altimeter. Space Science Reviews, 2021, 217, 1.	8.1	15
11	New Ganymede control point network and global shape model. Planetary and Space Science, 2015, 117, 246-249.	1.7	14
12	Mercury's rotational parameters from MESSENGER image and laser altimeter data: A feasibility study. Planetary and Space Science, 2015, 117, 64-72.	1.7	13
13	The Ganymede laser altimeter (GALA): key objectives, instrument design, and performance. CEAS Space Journal, 2019, 11, 381-390.	2.3	13
14	Mercury×³s global shape and topography from MESSENGER limb images. Planetary and Space Science, 2014, 103, 299-308.	1.7	12
15	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. Planetary and Space Science, 2021, 208, 105324.	1.7	12
16	Prospects for measuring Mercuryâ€™s tidal Love numberh₂with the BepiColombo Laser Altimeter. Astronomy and Astrophysics, 2020, 633, A85.	5.1	11
17	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
18	Determination of the lunar body tide from global laser altimetry data. Journal of Geodesy, 2021, 95, 1.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Measuring Ganymedeâ€™s Librations with Laser Altimetry. Geosciences (Switzerland), 2019, 9, 320.	2.2	8
20	Processing of laser altimeter time-of-flight measurements to geodetic coordinates. Journal of Geodesy, 2021, 95, 1.	3.6	6
21	Planetary polar explorer â€“ the case for a next-generation remote sensing mission to low Mars orbit. Experimental Astronomy, 2022, 54, 695-711.	3.7	6
22	Altimetry Measurements From Planetary Radar Sounders and Application to SHARAD on Mars. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	6
23	Prospects for mapping temporal height variations of the seasonal CO2 snow/ice caps at the Martian poles by co-registration of MOLA profiles. Planetary and Space Science, 2022, 214, 105446.	1.7	5
24	Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 234-243.	0.2	4
25	Spatioâ€Temporal Level Variations of the Martian Seasonal South Polar Cap From Coâ€Registration of MOLA Profiles. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	4
26	Accurate non-relativistic photoionization cross section for He at non-resonant photon energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035004.	1.5	3
27	The reference frames of Mercury after the MESSENGER mission. Journal of Geodesy, 2018, 92, 949-961.	3.6	3
28	Encounter trajectories for deep space mission ASTER to the triple near Earth asteroid 2001-SN263. The laser altimeter (ALR) point of view. Advances in Space Research, 2021, 67, 648-661.	2.6	3
29	Improvement of orbit determination using laser altimeter crossovers: JUICE mission case study. Acta Astronautica, 2021, 182, 587-598.	3.2	3
30	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
31	Recomputation and Updating of MOLA Geolocation. Remote Sensing, 2022, 14, 2201.	4.0	3
32	Geodesy and geophysics of Mercury: Prospects in view of the BepiColombo mission. European Physical Journal: Special Topics, 2020, 229, 1379-1389.	2.6	2
33	Comprehensive in-orbit performance evaluation of the BepiColombo Laser Altimeter (BELA). Planetary and Space Science, 2021, 195, 105088.	1.7	2
34	Periodic orbits for interferometric and tomographic radar imaging of Saturnâ€™s moon Enceladus. Acta Astronautica, 2022, 191, 326-345.	3.2	2
35	Final-state spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>after<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Î²</mml:mi><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></mml:msup></m	2.5	1
36	Performance Model Simulation of Ganymede Laser Altimeter (GALA) for the JUICE Mission. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 150-154.	0.2	1

#	Article	IF	Citations
37	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
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	The case for landed Mercury science. Experimental Astronomy, 0, , 1.	3.7	0
40	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
41	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