

David E Smith

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,588
citations

304743

22
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

2092
citing authors

#	ARTICLE	IF	CITATIONS
1	The Lunar Orbiter Laser Altimeter Investigation on the Lunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 209-241.	8.1	394
2	The Mercury Laser Altimeter Instrument for the MESSENGER Mission. Space Science Reviews, 2007, 131, 451-479.	8.1	231
3	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. Science, 2012, 336, 217-220.	12.6	223
4	The curious case of Mercury's internal structure. Journal of Geophysical Research E: Planets, 2013, 118, 1204-1220.	3.6	210
5	GRGM900C: A degree 900 lunar gravity model from GRAIL primary and extended mission data. Geophysical Research Letters, 2014, 41, 3382-3389.	4.0	152
6	Global surface slopes and roughness of the Moon from the Lunar Orbiter Laser Altimeter. Journal of Geophysical Research, 2011, 116, .	3.3	149
7	Evidence for surface water ice in the lunar polar regions using reflectance measurements from the Lunar Orbiter Laser Altimeter and temperature measurements from the Diviner Lunar Radiometer Experiment. Icarus, 2017, 292, 74-85.	2.5	119
8	Constraints on Ceres' Internal Structure and Evolution From Its Shape and Gravity Measured by the Dawn Spacecraft. Journal of Geophysical Research E: Planets, 2017, 122, 2267-2293.	3.6	117
9	Summary of the results from the lunar orbiter laser altimeter after seven years in lunar orbit. Icarus, 2017, 283, 70-91.	2.5	116
10	High-degree gravity models from GRAIL primary mission data. Journal of Geophysical Research E: Planets, 2013, 118, 1676-1698.	3.6	114
11	The Lunar Reconnaissance Orbiter Laser Ranging Investigation. Space Science Reviews, 2010, 150, 63-80.	8.1	91
12	A procedure for determining the nature of Mercury's core. Meteoritics and Planetary Science, 2002, 37, 1269-1283.	1.6	90
13	Lunar topographic roughness maps from Lunar Orbiter Laser Altimeter (LOLA) data: Scale dependence and correlation with geologic features and units. Icarus, 2013, 226, 52-66.	2.5	90
14	Solar system expansion and strong equivalence principle as seen by the NASA MESSENGER mission. Nature Communications, 2018, 9, 289.	12.8	81
15	Geodetic Evidence That Mercury Has A Solid Inner Core. Geophysical Research Letters, 2019, 46, 3625-3633.	4.0	80
16	Improved LOLA elevation maps for south pole landing sites: Error estimates and their impact on illumination conditions. Planetary and Space Science, 2021, 203, 105119.	1.7	48
17	Detection of the lunar body tide by the Lunar Orbiter Laser Altimeter. Geophysical Research Letters, 2014, 41, 2282-2288.	4.0	45
18	First MESSENGER orbital observations of Mercury's librations. Geophysical Research Letters, 2015, 42, 7881-7889.	4.0	44

#	ARTICLE	IF	CITATIONS
19	Science Goals and Mission Architecture of the Europa Lander Mission Concept. <i>Planetary Science Journal</i> , 2022, 3, 22.	3.6	42
20	Kilometer-scale topographic roughness of Mercury: Correlation with geologic features and units. <i>Geophysical Research Letters</i> , 2014, 41, 8245-8251.	4.0	39
21	Orbit determination of the Lunar Reconnaissance Orbiter: Status after seven years. <i>Planetary and Space Science</i> , 2018, 162, 2-19.	1.7	39
22	The laser ranging experiment of the Lunar Reconnaissance Orbiter: Five years of operations and data analysis. <i>Icarus</i> , 2017, 283, 55-69.	2.5	23
23	Simulated recovery of Europa's global shape and tidal Love numbers from altimetry and radio tracking during a dedicated flyby tour. <i>Geophysical Research Letters</i> , 2015, 42, 3166-3173.	4.0	17
24	Deriving Mercury Geodetic Parameters With Altimetric Crossovers From the Mercury Laser Altimeter (MLA). <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006683.	3.6	9
25	Small and lightweight laser retro-reflector arrays for lunar landers. <i>Applied Optics</i> , 2019, 58, 9259.	1.8	9
26	In-flight characterization of the lunar orbiter laser altimeter instrument pointing and far-field pattern. <i>Applied Optics</i> , 2018, 57, 7702.	1.8	6
27	Searching for Lunar Horizon Glow With the Lunar Orbiter Laser Altimeter. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2728-2744.	3.6	6
28	The science mission of SpaceX's Beresheet lander. <i>Planetary and Space Science</i> , 2020, 194, 105115.	1.7	3