David E Smith

List of Publications by Year
in descending order

28	2,588	304743 22	501196 28
papers	citations	h-index	g-index

29	29	29	2092
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Science Goals and Mission Architecture of the Europa Lander Mission Concept. Planetary Science Journal, 2022, 3, 22.	3.6	42
2	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
3	Deriving Mercury Geodetic Parameters With Altimetric Crossovers From the Mercury Laser Altimeter (MLA). Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006683.	3.6	9
4	The science mission of SpaceILâ€™s Beresheet lander. Planetary and Space Science, 2020, 194, 105115.	1.7	3
5	Searching for Lunar Horizon Glow With the Lunar Orbiter Laser Altimeter. Journal of Geophysical Research E: Planets, 2019, 124, 2728-2744.	3.6	6
6	Geodetic Evidence That Mercury Has A Solid Inner Core. Geophysical Research Letters, 2019, 46, 3625-3633.	4.0	80
7	Small and lightweight laser retro-reflector arrays for lunar landers. Applied Optics, 2019, 58, 9259.	1.8	9
8	Solar system expansion and strong equivalence principle as seen by the NASA MESSENGER mission. Nature Communications, 2018, 9, 289.	12.8	81
9	Orbit determination of the Lunar Reconnaissance Orbiter: Status after seven years. Planetary and Space Science, 2018, 162, 2-19.	1.7	39
10	In-flight characterization of the lunar orbiter laser altimeter instrument pointing and far-field pattern. Applied Optics, 2018, 57, 7702.	1.8	6
11	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
12	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
13	Summary of the results from the lunar orbiter laser altimeter after seven years in lunar orbit. Icarus, 2017, 283, 70-91.	2.5	116
14	The laser ranging experiment of the Lunar Reconnaissance Orbiter: Five years of operations and data analysis. Icarus, 2017, 283, 55-69.	2.5	23
15	First <scp>MESSENGER</scp> orbital observations of Mercury's librations. Geophysical Research Letters, 2015, 42, 7881-7889.	4.0	44
16	Simulated recovery of Europa's global shape and tidal Love numbers from altimetry and radio tracking during a dedicated flyby tour. Geophysical Research Letters, 2015, 42, 3166-3173.	4.0	17
17	Kilometerâ€scale topographic roughness of Mercury: Correlation with geologic features and units. Geophysical Research Letters, 2014, 41, 8245-8251.	4.0	39
18	Detection of the lunar body tide by the Lunar Orbiter Laser Altimeter. Geophysical Research Letters, 2014, 41, 2282-2288.	4.0	45

#	Article	IF	Citations
19	GRGM900C: A degree 900 lunar gravity model from GRAIL primary and extended mission data. Geophysical Research Letters, 2014, 41, 3382-3389.	4.0	152
20	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
21	Highâ€'degree gravity models from GRAIL primary mission data. Journal of Geophysical Research E: Planets, 2013, 118, 1676-1698.	3.6	114
22	The curious case of Mercury's internal structure. Journal of Geophysical Research E: Planets, 2013, 118, 1204-1220.	3.6	210
23	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. Science, 2012, 336, 217-220.	12.6	223
24	Global surface slopes and roughness of the Moon from the Lunar Orbiter Laser Altimeter. Journal of Geophysical Research, 2011, 116, .	3.3	149
25	The Lunar Reconnaissance Orbiter Laser Ranging Investigation. Space Science Reviews, 2010, 150, 63-80.	8.1	91
26	The Lunar Orbiter Laser Altimeter Investigation onÂtheÂLunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 209-241.	8.1	394
27	The Mercury Laser Altimeter Instrument for the MESSENGER Mission. Space Science Reviews, 2007, 131, 451-479.	8.1	231
28	A procedure for determining the nature of Mercury's core. Meteoritics and Planetary Science, 2002, 37, 1269-1283.	1.6	90