

Maria T Zuber

List of Publications by Year in descending order

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149
papers

17,993
citations

9786

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132
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151
all docs

151
docs citations

151
times ranked

6536
citing authors

#	ARTICLE	IF	CITATIONS
1	The Psyche Topography and Geomorphology Investigation. <i>Space Science Reviews</i> , 2022, 218, 1.	8.1	4
2	Distinguishing the Origin of Asteroid (16) Psyche. <i>Space Science Reviews</i> , 2022, 218, 17.	8.1	13
3	Maximum Energies of Trapped Particles Around Magnetized Planets and Small Bodies. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
4	Investigating the Influences of Crustal Thickness and Temperature on the Uplift of Mantle Materials Beneath Large Impact Craters on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006533.	3.6	3
5	Large impact cratering during lunar magma ocean solidification. <i>Nature Communications</i> , 2021, 12, 5433.	12.8	16
6	High-Resolution Gravity Field Models from GRAIL Data and Implications for Models of the Density Structure of the Moon's Crust. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006086.	3.6	38
7	Observations, Meteorites, and Models: A Preflight Assessment of the Composition and Formation of (16) Psyche. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006296.	3.6	61
8	Nucleic Acid Sequencing Under Mars-Like Conditions. , 2019, , .		1
9	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
10	Nucleic Acid Extraction and Sequencing from Low-Biomass Synthetic Mars Analog Soils for <i>In Situ</i> Life Detection. <i>Astrobiology</i> , 2019, 19, 1139-1152.	3.0	17
11	Slurry extrusion on Ceres from a convective mud-bearing mantle. <i>Nature Geoscience</i> , 2019, 12, 505-509.	12.9	42
12	Geodetic Evidence That Mercury Has A Solid Inner Core. <i>Geophysical Research Letters</i> , 2019, 46, 3625-3633.	4.0	80
13	Deep Structure of the Lunar South Pole-Aitken Basin. <i>Geophysical Research Letters</i> , 2019, 46, 5100-5106.	4.0	22
14	Variations in Martian Lithospheric Strength Based on Gravity/Topography Analysis. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3095-3118.	3.6	12
15	High-resolution shape model of Ceres from stereophotoclinometry using Dawn Imaging Data. <i>Icarus</i> , 2019, 319, 812-827.	2.5	51
16	Radial gravity anomalies associated with the ejecta of the Orientale basin. <i>Icarus</i> , 2019, 319, 444-458.	2.5	3
17	Solar system expansion and strong equivalence principle as seen by the NASA MESSENGER mission. <i>Nature Communications</i> , 2018, 9, 289.	12.8	81
18	Isostatic Compensation of the Lunar Highlands. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 646-665.	3.6	10

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19	Ring faults and ring dikes around the Orientale basin on the Moon. <i>Icarus</i> , 2018, 310, 1-20.	2.5	31
20	The Ceres gravity field, spin pole, rotation period and orbit from the Dawn radiometric tracking and optical data. <i>Icarus</i> , 2018, 299, 411-429.	2.5	65
21	Olivine-bearing lithologies on the Moon: Constraints on origins and transport mechanisms from M3 spectroscopy, radiative transfer modeling, and GRAIL crustal thickness. <i>Icarus</i> , 2018, 300, 287-304.	2.5	27
22	Orbit determination of the Lunar Reconnaissance Orbiter: Status after seven years. <i>Planetary and Space Science</i> , 2018, 162, 2-19.	1.7	39
23	Controls on the Formation of Lunar Multiring Basins. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3035-3050.	3.6	19
24	Sequencing nothing: Exploring failure modes of nanopore sensing and implications for life detection. <i>Life Sciences in Space Research</i> , 2018, 18, 80-86.	2.3	13
25	Constraints on Lunar Crustal Porosity From the Gravitational Signature of Impact Craters. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2281-2294.	3.6	8
26	CarrierSeq: a sequence analysis workflow for low-input nanopore sequencing. <i>BMC Bioinformatics</i> , 2018, 19, 108.	2.6	18
27	Reexamination of Early Lunar Chronology With GRAIL Data: Terranes, Basins, and Impact Fluxes. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1596-1617.	3.6	25
28	Detection and characterization of buried lunar craters with GRAIL data. <i>Icarus</i> , 2017, 289, 157-172.	2.5	25
29	Small-scale density variations in the lunar crust revealed by GRAIL. <i>Icarus</i> , 2017, 291, 107-123.	2.5	34
30	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. <i>Icarus</i> , 2017, 292, 74-85.	2.5	119
31	GRAIL gravity observations of the transition from complex crater to peak-ring basin on the Moon: Implications for crustal structure and impact basin formation. <i>Icarus</i> , 2017, 292, 54-73.	2.5	19
32	Ceres's obliquity history and its implications for the permanently shadowed regions. <i>Geophysical Research Letters</i> , 2017, 44, 2652-2661.	4.0	29
33	Constraints on Ceres' Internal Structure and Evolution From Its Shape and Gravity Measured by the Dawn Spacecraft. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2267-2293.	3.6	117
34	The interior structure of Ceres as revealed by surface topography. <i>Earth and Planetary Science Letters</i> , 2017, 476, 153-164.	4.4	117
35	Analysis of one-way laser ranging data to LRO, time transfer and clock characterization. <i>Icarus</i> , 2017, 283, 38-54.	2.5	12
36	Summary of the results from the lunar orbiter laser altimeter after seven years in lunar orbit. <i>Icarus</i> , 2017, 283, 70-91.	2.5	116

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37	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
38	Thicknesses of mare basalts on the Moon from gravity and topography. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 854-870.	3.6	51
39	A partially differentiated interior for (1) Ceres deduced from its gravity field and shape. <i>Nature</i> , 2016, 537, 515-517.	27.8	169
40	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , 2016, 353, 1008-1010.	12.6	178
41	Interactions between complex craters and the lunar crust: Analysis using GRAIL data. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1488-1497.	3.6	12
42	Subsurface morphology and scaling of lunar impact basins. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1695-1712.	3.6	37
43	Identification of buried lunar impact craters from GRAIL data and implications for the nearside maria. <i>Geophysical Research Letters</i> , 2016, 43, 2445-2455.	4.0	56
44	Formation of the Orientale lunar multiring basin. <i>Science</i> , 2016, 354, 441-444.	12.6	78
45	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. <i>Science</i> , 2016, 354, 438-441.	12.6	38
46	Lunar phase function at 1064Ånm from Lunar Orbiter Laser Altimeter passive and active radiometry. <i>Icarus</i> , 2016, 273, 96-113.	2.5	19
47	Gravitational search for cryptovolcanism on the Moon: Evidence for large volumes of early igneous activity. <i>Icarus</i> , 2016, 273, 284-295.	2.5	27
48	Seasonal and static gravity field of Mars from MGS, Mars Odyssey and MRO radio science. <i>Icarus</i> , 2016, 272, 228-245.	2.5	172
49	Improved calibration of reflectance data from the LRO Lunar Orbiter Laser Altimeter (LOLA) and implications for space weathering. <i>Icarus</i> , 2016, 273, 315-328.	2.5	34
50	A new lunar digital elevation model from the Lunar Orbiter Laser Altimeter and SELENE Terrain Camera. <i>Icarus</i> , 2016, 273, 346-355.	2.5	326
51	The low-degree shape of Mercury. <i>Geophysical Research Letters</i> , 2015, 42, 6951-6958.	4.0	36
52	Preimpact porosity controls the gravity signature of lunar craters. <i>Geophysical Research Letters</i> , 2015, 42, 9711-9716.	4.0	50
53	The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. <i>Geophysical Research Letters</i> , 2015, 42, 6939-6944.	4.0	63
54	First <sc>MESSENGER</sc> orbital observations of Mercury's librations. <i>Geophysical Research Letters</i> , 2015, 42, 7881-7889.	4.0	44

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55	Lunar impact basins revealed by Gravity Recovery and Interior Laboratory measurements. <i>Science Advances</i> , 2015, 1, e1500852.	10.3	173
56	Excavation of the lunar mantle by basin-forming impact events on the Moon. <i>Earth and Planetary Science Letters</i> , 2015, 409, 243-251.	4.4	64
57	Deep-seated thrust faults bound the Mare Crisium lunar mascon. <i>Earth and Planetary Science Letters</i> , 2015, 427, 183-190.	4.4	39
58	Magnetic field modeling for Mercury using dynamo models with a stable layer and laterally variable heat flux. <i>Icarus</i> , 2015, 260, 263-268.	2.5	30
59	Support of long-wavelength topography on Mercury inferred from MESSENGER measurements of gravity and topography. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 287-310.	3.6	48
60	The global albedo of the Moon at 1064 nm from LOLA. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1665-1679.	3.6	96
61	Gravity field expansion in ellipsoidal harmonic and polyhedral internal representations applied to Vesta. <i>Icarus</i> , 2014, 240, 118-132.	2.5	48
62	The tidal-rotational shape of the Moon and evidence for polar wander. <i>Nature</i> , 2014, 512, 181-184.	27.8	55
63	GRAIL gravity constraints on the vertical and lateral density structure of the lunar crust. <i>Geophysical Research Letters</i> , 2014, 41, 5771-5777.	4.0	126
64	Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. <i>Nature</i> , 2014, 514, 68-71.	27.8	85
65	The Vesta gravity field, spin pole and rotation period, landmark positions, and ephemeris from the Dawn tracking and optical data. <i>Icarus</i> , 2014, 240, 103-117.	2.5	98
66	High-resolution lunar gravity fields from the GRAIL Primary and Extended Missions. <i>Geophysical Research Letters</i> , 2014, 41, 1452-1458.	4.0	103
67	Constraints on Vesta's interior structure using gravity and shape models from the Dawn mission. <i>Icarus</i> , 2014, 240, 146-160.	2.5	55
68	The formation of lunar mascon basins from impact to contemporary form. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2378-2397.	3.6	57
69	The gravity field, orientation, and ephemeris of Mercury from MESSENGER observations after three years in orbit. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2417-2436.	3.6	110
70	Lunar interior properties from the GRAIL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1546-1578.	3.6	185
71	High-resolution local gravity model of the south pole of the Moon from GRAIL extended mission data. <i>Geophysical Research Letters</i> , 2014, 41, 3367-3374.	4.0	12
72	GRGM900C: A degree 900 lunar gravity model from GRAIL primary and extended mission data. <i>Geophysical Research Letters</i> , 2014, 41, 3382-3389.	4.0	152

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73	The Scientific Measurement System of the Gravity Recovery and Interior Laboratory (GRAIL) Mission. <i>Space Science Reviews</i> , 2013, 178, 25-55.	8.1	32
74	Gravity Recovery and Interior Laboratory (GRAIL): Mapping the Lunar Interior from Crust to Core. <i>Space Science Reviews</i> , 2013, 178, 3-24.	8.1	128
75	Effects of Hydrothermal Cooling and Magma Injection on Mid-Ocean Ridge Temperature Structure, Deformation, and Axial Morphology. <i>Geophysical Monograph Series</i> , 2013, , 151-165.	0.1	3
76	Asymmetric Distribution of Lunar Impact Basins Caused by Variations in Target Properties. <i>Science</i> , 2013, 342, 724-726.	12.6	103
77	Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. <i>Science</i> , 2013, 339, 675-678.	12.6	177
78	Gravity Field of the Moon from the Gravity Recovery and Interior Laboratory (GRAIL) Mission. <i>Science</i> , 2013, 339, 668-671.	12.6	389
79	The Crust of the Moon as Seen by GRAIL. <i>Science</i> , 2013, 339, 671-675.	12.6	726
80	Lunar topographic roughness maps from Lunar Orbiter Laser Altimeter (LOLA) data: Scale dependence and correlation with geologic features and units. <i>Icarus</i> , 2013, 226, 52-66.	2.5	90
81	Crustal thickness and support of topography on Venus. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 859-875.	3.6	86
82	The Origin of Lunar Mascon Basins. <i>Science</i> , 2013, 340, 1552-1555.	12.6	174
83	Free space laser communication experiments from Earth to the Lunar Reconnaissance Orbiter in lunar orbit. <i>Optics Express</i> , 2013, 21, 1865.	3.4	63
84	High-degree gravity models from GRAIL primary mission data. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1676-1698.	3.6	114
85	The curious case of Mercury's internal structure. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1204-1220.	3.6	210
86	The JPL lunar gravity field to spherical harmonic degree 660 from the GRAIL Primary Mission. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1415-1434.	3.6	143
87	Gravity Field and Internal Structure of Mercury from MESSENGER. <i>Science</i> , 2012, 336, 214-217.	12.6	305
88	Constraints on the volatile distribution within Shackleton crater at the lunar south pole. <i>Nature</i> , 2012, 486, 378-381.	27.8	159
89	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. <i>Science</i> , 2012, 336, 217-220.	12.6	223
90	Lunar impact basins: Stratigraphy, sequence and ages from superposed impact crater populations measured from Lunar Orbiter Laser Altimeter (LOLA) data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	114

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91	The transition from complex craters to multi-ring basins on the Moon: Quantitative geometric properties from Lunar Reconnaissance Orbiter Lunar Orbiter Laser Altimeter (LOLA) data. Journal of Geophysical Research, 2012, 117, .	3.3	40
92	Large impact basins on Mercury: Global distribution, characteristics, and modification history from MESSENGER orbital data. Journal of Geophysical Research, 2012, 117, .	3.3	68
93	Dawn at Vesta: Testing the Protoplanetary Paradigm. Science, 2012, 336, 684-686.	12.6	422
94	Vesta's Shape and Morphology. Science, 2012, 336, 687-690.	12.6	222
95	Global maps of lunar neutron fluxes from the LEND instrument. Journal of Geophysical Research, 2012, 117, .	3.3	35
96	Orbit determination of the Lunar Reconnaissance Orbiter. Journal of Geodesy, 2012, 86, 193-207.	3.6	117
97	Global surface slopes and roughness of the Moon from the Lunar Orbiter Laser Altimeter. Journal of Geophysical Research, 2011, 116, .	3.3	149
98	Chondrites as samples of differentiated planetesimals. Earth and Planetary Science Letters, 2011, 305, 1-10.	4.4	247
99	The transition from complex crater to peak-ring basin on the Moon: New observations from the Lunar Orbiter Laser Altimeter (LOLA) instrument. Icarus, 2011, 214, 377-393.	2.5	74
100	Mars high resolution gravity fields from MRO, Mars seasonal gravity, and other dynamical parameters. Icarus, 2011, 211, 401-428.	2.5	308
101	Illumination conditions of the lunar polar regions using LOLA topography. Icarus, 2011, 211, 1066-1081.	2.5	218
102	The Dawn Gravity Investigation at Vesta and Ceres. , 2011, , 461-486.		3
103	Global Distribution of Large Lunar Craters: Implications for Resurfacing and Impactor Populations. Science, 2010, 329, 1504-1507.	12.6	210
104	The Lunar Reconnaissance Orbiter Laser Ranging Investigation. Space Science Reviews, 2010, 150, 63-80.	8.1	91
105	The Lunar Orbiter Laser Altimeter Investigation on the Lunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 209-241.	8.1	394
106	Initial observations from the Lunar Orbiter Laser Altimeter (LOLA). Geophysical Research Letters, 2010, 37, .	4.0	356
107	Elliptical structure of the lunar South Pole-Aitken basin. Icarus, 2009, 204, 399-408.	2.5	127
108	Could Pantheon Fossae be the result of the Apollodorus crater-forming impact within the Caloris basin, Mercury?. Earth and Planetary Science Letters, 2009, 285, 320-327.	4.4	27

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109	The Borealis basin and the origin of the martian crustal dichotomy. <i>Nature</i> , 2008, 453, 1212-1215.	27.8	285
110	Mars North Polar Deposits: Stratigraphy, Age, and Geodynamical Response. <i>Science</i> , 2008, 320, 1182-1185.	12.6	271
111	Sulfur-induced greenhouse warming on early Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
112	The Radio Frequency Subsystem and Radio Science on the MESSENGER Mission. <i>Space Science Reviews</i> , 2007, 131, 557-571.	8.1	33
113	Thickness of the Martian crust: Improved constraints from geoid-to-topography ratios. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	205
114	Depth, distribution, and density of CO ₂ deposition on Mars. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	72
115	Crustal structure of Mars from gravity and topography. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	360
116	Correction to "Localized gravity/topography admittance and correlation spectra on Mars: Implications for regional and global evolution". <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	151
117	Title is missing!. <i>Solar System Research</i> , 2003, 37, 378-386.	0.7	9
118	Spacing of faults at the scale of the lithosphere and localization instability: 1. Theory. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	20
119	Spacing of faults at the scale of the lithosphere and localization instability: 2. Application to the Central Indian Basin. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	15
120	Two Mars years of clouds detected by the Mars Orbiter Laser Altimeter. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	58
121	Clues to the lithospheric structure of Mars from wrinkle ridge sets and localization instability. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	95
122	Mars Orbiter Laser Altimeter pulse width measurements and footprint-scale roughness. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	89
123	A unified description of localization for application to large-scale tectonics. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 1-1.	3.3	109
124	Mechanisms of normal fault development at mid-ocean ridges. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 7-1-EPM 7-17.	3.3	35
125	Localized gravity/topography admittance and correlation spectra on Mars: Implications for regional and global evolution. <i>Journal of Geophysical Research</i> , 2002, 107, 19-1-19-25.	3.3	243
126	A procedure for determining the nature of Mercury's core. <i>Meteoritics and Planetary Science</i> , 2002, 37, 1269-1283.	1.6	90

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127	Mars Orbiter Laser Altimeter: Experiment summary after the first year of global mapping of Mars. <i>Journal of Geophysical Research</i> , 2001, 106, 23689-23722.	3.3	1,344
128	An improved solution of the gravity field of Mars (GMM-2B) from Mars Global Surveyor. <i>Journal of Geophysical Research</i> , 2001, 106, 23359-23376.	3.3	227
129	Degree-1 mantle convection and the crustal dichotomy on Mars. <i>Earth and Planetary Science Letters</i> , 2001, 189, 75-84.	4.4	223
130	The crust and mantle of Mars. <i>Nature</i> , 2001, 412, 220-227.	27.8	256
131	Ancient Geodynamics and Global-Scale Hydrology on Mars. <i>Science</i> , 2001, 291, 2587-2591.	12.6	453
132	A comparison of ocean topography derived from the Shuttle Laser Altimeter-01 and TOPEX/POSEIDON. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000, 38, 1425-1438.	6.3	7
133	A dynamic origin for the global asymmetry of lunar mare basalts. <i>Earth and Planetary Science Letters</i> , 2000, 177, 131-140.	4.4	127
134	Isostatic response of the Australian lithosphere: Estimation of effective elastic thickness and anisotropy using multitaper spectral analysis. <i>Journal of Geophysical Research</i> , 2000, 105, 19163-19184.	3.3	145
135	Internal Structure and Early Thermal Evolution of Mars from Mars Global Surveyor Topography and Gravity. <i>Science</i> , 2000, 287, 1788-1793.	12.6	518
136	The Shape of 433 Eros from the NEAR-Shoemaker Laser Rangefinder. <i>Science</i> , 2000, 289, 2097-2101.	12.6	171
137	Long-wavelength topographic relaxation for self-gravitating planets and implications for the time-dependent compensation of surface topography. <i>Journal of Geophysical Research</i> , 2000, 105, 4153-4164.	3.3	76
138	Measurement and Analysis of Lunar Basin Depths from Clementine Altimetry. <i>Icarus</i> , 1998, 131, 107-122.	2.5	94
139	Mars: Northern hemisphere slopes and slope distributions. <i>Geophysical Research Letters</i> , 1998, 25, 4413-4416.	4.0	48
140	The relationship between MOLA northern hemisphere topography and the 6.1-Mbar atmospheric pressure surface of Mars. <i>Geophysical Research Letters</i> , 1998, 25, 4397-4400.	4.0	42
141	Shape of the northern hemisphere of Mars from the Mars Orbiter Laser Altimeter (MOLA). <i>Geophysical Research Letters</i> , 1998, 25, 4393-4396.	4.0	23
142	A 70th degree lunar gravity model (GLGM-2) from Clementine and other tracking data. <i>Journal of Geophysical Research</i> , 1997, 102, 16339-16359.	3.3	125
143	Topography of the lunar south polar region: Implications for the size and location of permanently shaded areas. <i>Geophysical Research Letters</i> , 1997, 24, 2183-2186.	4.0	17
144	Topography of the Moon from the Clementine lidar. <i>Journal of Geophysical Research</i> , 1997, 102, 1591-1611.	3.3	246

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145	The lunar crust: Global structure and signature of major basins. Journal of Geophysical Research, 1996, 101, 16841-16863.	3.3	206
146	Simultaneous estimation of the masses of Mars, Phobos, and Deimos using spacecraft distant encounters. Geophysical Research Letters, 1995, 22, 2171-2174.	4.0	28
147	New gravity field for Mars fuels research. Eos, 1994, 75, 97.	0.1	0
148	The Shape and Internal Structure of the Moon from the Clementine Mission. Science, 1994, 266, 1839-1843.	12.6	349
149	The Mars Observer laser altimeter investigation. Journal of Geophysical Research, 1992, 97, 7781-7797.	3.3	446