

Ralph D Lorenz

List of Publications by Year in descending order

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475
papers

17,220
citations

15504

65
h-index

30087

103
g-index

523
all docs

523
docs citations

523
times ranked

4799
citing authors

#	ARTICLE	IF	CITATIONS
1	The lakes of Titan. <i>Nature</i> , 2007, 445, 61-64.	27.8	507
2	The Sand Seas of Titan: Cassini RADAR Observations of Longitudinal Dunes. <i>Science</i> , 2006, 312, 724-727.	12.6	351
3	The second law of thermodynamics and the global climate system: A review of the maximum entropy production principle. <i>Reviews of Geophysics</i> , 2003, 41, .	23.0	320
4	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
5	Titan's Surface, Revealed by HST Imaging. <i>Icarus</i> , 1996, 119, 336-349.	2.5	235
6	Cassini Radar Views the Surface of Titan. <i>Science</i> , 2005, 308, 970-974.	12.6	231
7	Hydrocarbon lakes on Titan: Distribution and interaction with a porous regolith. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	227
8	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	12.9	207
9	Dunes on Titan observed by Cassini Radar. <i>Icarus</i> , 2008, 194, 690-703.	2.5	193
10	Cryovolcanic features on Titan's surface as revealed by the Cassini Titan Radar Mapper. <i>Icarus</i> , 2007, 186, 395-412.	2.5	191
11	Titan, Mars and Earth : Entropy production by latitudinal heat transport. <i>Geophysical Research Letters</i> , 2001, 28, 415-418.	4.0	190
12	Hydrocarbon lakes on Titan. <i>Icarus</i> , 2007, 186, 385-394.	2.5	188
13	Titan's inventory of organic surface materials. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	184
14	Rapid and Extensive Surface Changes Near Titan's Equator: Evidence of April Showers. <i>Science</i> , 2011, 331, 1414-1417.	12.6	184
15	Titan's Rotation Reveals an Internal Ocean and Changing Zonal Winds. <i>Science</i> , 2008, 319, 1649-1651.	12.6	178
16	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. <i>Planetary and Space Science</i> , 2007, 55, 2025-2036.	1.7	168
17	Radar: The Cassini Titan Radar Mapper. <i>Space Science Reviews</i> , 2004, 115, 71-110.	8.1	162
18	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	12.9	161

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19	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	8.1	160
20	An asymmetric distribution of lakes on Titan as a possible consequence of orbital forcing. <i>Nature Geoscience</i> , 2009, 2, 851-854.	12.9	153
21	Physical properties of the organic aerosols and clouds on Titan. <i>Planetary and Space Science</i> , 2001, 49, 79-99.	1.7	151
22	Fluvial channels on Titan: Initial Cassini RADAR observations. <i>Planetary and Space Science</i> , 2008, 56, 1132-1144.	1.7	151
23	Mountains on Titan observed by Cassini Radar. <i>Icarus</i> , 2007, 192, 77-91.	2.5	140
24	A soft solid surface on Titan as revealed by the Huygens Surface Science Package. <i>Nature</i> , 2005, 438, 792-795.	27.8	139
25	Geophysical Investigations of Habitability in Ice-Covered Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 180-205.	3.6	133
26	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	131
27	Impact craters on Titan. <i>Icarus</i> , 2010, 206, 334-344.	2.5	126
28	Distribution and interplay of geologic processes on Titan from Cassini radar data. <i>Icarus</i> , 2010, 205, 540-558.	2.5	122
29	The bathymetry of a Titan sea. <i>Geophysical Research Letters</i> , 2014, 41, 1432-1437.	4.0	119
30	Transient surface liquid in Titan's polar regions from Cassini. <i>Icarus</i> , 2011, 211, 655-671.	2.5	113
31	Interior structure models and tidal Love numbers of Titan. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	111
32	Determining Titan surface topography from Cassini SAR data. <i>Icarus</i> , 2009, 202, 584-598.	2.5	108
33	Tidal Dissipation on Titan. <i>Icarus</i> , 1995, 115, 278-294.	2.5	107
34	Titan's surface at 2.2-cm wavelength imaged by the Cassini RADAR radiometer: Calibration and first results. <i>Icarus</i> , 2009, 200, 222-239.	2.5	104
35	Global pattern of Titan's dunes: Radar survey from the Cassini prime mission. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	102
36	Erosion on Titan: Past and Present. <i>Icarus</i> , 1996, 122, 79-91.	2.5	101

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37	Photochemically Driven Collapse of Titan's Atmosphere. <i>Science</i> , 1997, 275, 642-644.	12.6	101
38	On the volatile inventory of Titan from isotopic abundances in nitrogen and methane. <i>Planetary and Space Science</i> , 1999, 47, 1291-1303.	1.7	100
39	Titan's fluvial valleys: Morphology, distribution, and spectral properties. <i>Planetary and Space Science</i> , 2012, 60, 34-51.	1.7	98
40	The life, death and afterlife of a raindrop on Titan. <i>Planetary and Space Science</i> , 1993, 41, 647-655.	1.7	97
41	The temperature of Europa's subsurface water ocean. <i>Icarus</i> , 2004, 168, 498-502.	2.5	97
42	Linear dunes on Titan and earth: Initial remote sensing comparisons. <i>Geomorphology</i> , 2010, 121, 122-132.	2.6	97
43	Titan Radar Mapper observations from Cassini's T3 fly-by. <i>Nature</i> , 2006, 441, 709-713.	27.8	95
44	Sediment transport by liquid surficial flow: Application to Titan. <i>Icarus</i> , 2006, 181, 235-242.	2.5	91
45	Fluvial erosion and post-erosional processes on Titan. <i>Icarus</i> , 2008, 197, 526-538.	2.5	88
46	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
47	Size and Shape of Saturn's Moon Titan. <i>Science</i> , 2009, 324, 921-923.	12.6	86
48	Near-Infrared spectral mapping of Titan's mountains and channels. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
49	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	3.6	80
50	Rivers, Lakes, Dunes, and Rain: Crustal Processes in Titan's Methane Cycle. <i>Annual Review of Earth and Planetary Sciences</i> , 2009, 37, 299-320.	11.0	79
51	Titan's surface at 2.18-cm wavelength imaged by the Cassini RADAR radiometer: Results and interpretations through the first ten years of observation. <i>Icarus</i> , 2016, 270, 443-459.	2.5	79
52	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
53	DETERMINING TITAN'S SPIN STATE FROM CASSINI RADAR IMAGES. <i>Astronomical Journal</i> , 2008, 135, 1669-1680.	4.7	78
54	Titan's Topography and Shape at the End of the Cassini Mission. <i>Geophysical Research Letters</i> , 2017, 44, 11,754.	4.0	78

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55	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
56	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	77
57	Cassini RADAR observations of Enceladus, Tethys, Dione, Rhea, Iapetus, Hyperion, and Phoebe. <i>Icarus</i> , 2006, 183, 479-490.	2.5	76
58	Numerical calculations of the longevity of impact oases on Titan. <i>Icarus</i> , 2005, 173, 243-253.	2.5	75
59	A model of Titan's haze of fractal aerosols constrained by multiple observations. <i>Planetary and Space Science</i> , 2003, 51, 963-976.	1.7	74
60	Cassini SAR, radiometry, scatterometry and altimetry observations of Titan's dune fields. <i>Icarus</i> , 2011, 213, 608-624.	2.5	74
61	Titan's young surface: Initial impact crater survey by Cassini RADAR and model comparison. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	72
62	Titan's global crater population: A new assessment. <i>Planetary and Space Science</i> , 2012, 60, 26-33.	1.7	71
63	A global topographic map of Titan. <i>Icarus</i> , 2013, 225, 367-377.	2.5	70
64	Global mapping and characterization of Titan's dune fields with Cassini: Correlation between RADAR and VIMS observations. <i>Icarus</i> , 2014, 230, 168-179.	2.5	68
65	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	66
66	Titan's diverse landscapes as evidenced by Cassini RADAR's third and fourth looks at Titan. <i>Icarus</i> , 2008, 195, 415-433.	2.5	65
67	Pillow lava on Titan: expectations and constraints on cryovolcanic processes. <i>Planetary and Space Science</i> , 1996, 44, 1021-1028.	1.7	64
68	Planets, life and the production of entropy. <i>International Journal of Astrobiology</i> , 2002, 1, 3-13.	1.6	64
69	Companion guide to the marsquake catalog from InSight, Sols 0-478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	1.9	64
70	Martian surface wind speeds described by the Weibull distribution. <i>Journal of Spacecraft and Rockets</i> , 1996, 33, 754-756.	1.9	63
71	Radar-bright channels on Titan. <i>Icarus</i> , 2010, 207, 948-958.	2.5	62
72	Revealing the Mysteries of Venus: The DAVINCI Mission. <i>Planetary Science Journal</i> , 2022, 3, 117.	3.6	62

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73	Analytic Solutions for the Antigreenhouse Effect: Titan and the Early Earth. <i>Icarus</i> , 1999, 137, 56-61.	2.5	61
74	Titan Unveiled. , 2010, , .		61
75	Titan's damp ground: Constraints on Titan surface thermal properties from the temperature evolution of the Huygens GCMS inlet. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1705-1714.	1.6	60
76	Smoothness of Titan's Ontario Lacus: Constraints from Cassini RADAR specular reflection data. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	59
77	A post-Cassini view of Titan's methane-based hydrologic cycle. <i>Nature Geoscience</i> , 2018, 11, 306-313.	12.9	59
78	Deep Space 2: The Mars Microprobe Mission. <i>Journal of Geophysical Research</i> , 1999, 104, 27013-27030.	3.3	58
79	Prediction of aeolian features on planets: Application to Titan paleoclimatology. <i>Journal of Geophysical Research</i> , 1995, 100, 26377.	3.3	57
80	Seasonal Change on Titan Observed with the Hubble Space Telescope WFPC-2. <i>Icarus</i> , 1999, 142, 391-401.	2.5	57
81	Liquids and solids on the surface of Titan: results of a new photochemical model. <i>Planetary and Space Science</i> , 1994, 42, 5-14.	1.7	56
82	Titan's North-South Asymmetry from HST and Voyager Imaging: Comparison with Models and Ground-Based Photometry. <i>Icarus</i> , 1997, 127, 173-189.	2.5	55
83	COMPUTATIONAL MATHEMATICS: Full Steam Ahead-Probably. <i>Science</i> , 2003, 299, 837-838.	12.6	55
84	Cassini RADAR images at Hotei Arcus and western Xanadu, Titan: Evidence for geologically recent cryovolcanic activity. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	55
85	Microwave dielectric constant of Titan-relevant materials. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	54
86	Threshold of wave generation on Titan's lakes and seas: Effect of viscosity and implications for Cassini observations. <i>Icarus</i> , 2010, 207, 932-937.	2.5	54
87	Analytic investigation of climate stability on Titan: sensitivity to volatile inventory. <i>Planetary and Space Science</i> , 1999, 47, 1503-1515.	1.7	53
88	Regional geomorphology and history of Titan's Xanadu province. <i>Icarus</i> , 2011, 211, 672-685.	2.5	52
89	Growth mechanisms and dune orientation on Titan. <i>Geophysical Research Letters</i> , 2014, 41, 6093-6100.	4.0	52
90	Physical properties of ammonia-rich ice: Application to Titan. <i>Geophysical Research Letters</i> , 2001, 28, 215-218.	4.0	51

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91	Electrical properties of Titan's surface from Cassini RADAR scatterometer measurements. <i>Icarus</i> , 2007, 188, 367-385.	2.5	51
92	Dune Worlds. , 2014, , .		51
93	PLANETARY SCIENCE: The Weather on Titan. <i>Science</i> , 2000, 290, 467-468.	12.6	50
94	Mapping of Titan: Results from the first Titan radar passes. <i>Icarus</i> , 2006, 185, 443-456.	2.5	49
95	Bathymetry and absorptivity of Titan's Ontario Lacus. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
96	Modeling of Ground Deformation and Shallow Surface Waves Generated by Martian Dust Devils and Perspectives for Near-Surface Structure Inversion. <i>Space Science Reviews</i> , 2017, 211, 501-524.	8.1	49
97	On the statistical distribution of dust devil diameters. <i>Icarus</i> , 2011, 215, 381-390.	2.5	48
98	Dust devil height and spacing with relation to the martian planetary boundary layer thickness. <i>Icarus</i> , 2015, 260, 246-262.	2.5	48
99	Laboratory measurements of cryogenic liquid alkane microwave absorptivity and implications for the composition of Ligeia Mare, Titan. <i>Geophysical Research Letters</i> , 2015, 42, 1340-1345.	4.0	48
100	Titan's surface reviewed: the nature of bright and dark terrain. <i>Planetary and Space Science</i> , 1997, 45, 981-992.	1.7	47
101	Titan's smile and collar: HST Observations of seasonal change 1994-2000. <i>Geophysical Research Letters</i> , 2001, 28, 4453-4456.	4.0	47
102	A 3km atmospheric boundary layer on Titan indicated by dune spacing and Huygens data. <i>Icarus</i> , 2010, 205, 719-721.	2.5	47
103	The evolution of Titan's detached haze layer near equinox in 2009. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	47
104	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	10.3	47
105	Solar panel clearing events, dust devil tracks, and in-situ vortex detections on Mars. <i>Icarus</i> , 2015, 248, 162-164.	2.5	46
106	Geomorphologic mapping of titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017, 282, 214-236.	2.5	46
107	Ablation and chemistry of meteoric materials in the atmosphere of Titan. <i>Advances in Space Research</i> , 1996, 17, 157-160.	2.6	45
108	Hiding Titan's ocean: densification and hydrocarbon storage in an icy regolith. <i>Planetary and Space Science</i> , 1996, 44, 1029-1037.	1.7	45

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109	Radarclinometry of the sand seas of Africa's Namibia and Saturn's moon Titan. <i>Icarus</i> , 2010, 208, 385-394.	2.5	45
110	AVIATR's Aerial Vehicle for In-situ and Airborne Titan Reconnaissance. <i>Experimental Astronomy</i> , 2012, 33, 55-127.	3.7	45
111	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. <i>Planetary Science</i> , 2013, 2, .	1.5	45
112	Physics of saltation and sand transport on Titan: A brief review. <i>Icarus</i> , 2014, 230, 162-167.	2.5	45
113	A Study of Daytime Convective Vortices and Turbulence in the Martian Planetary Boundary Layer Based on Half a Year of InSight Atmospheric Measurements and Large Eddy Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	45
114	Titan's surface before Cassini. <i>Planetary and Space Science</i> , 2005, 53, 557-576.	1.7	44
115	Composition, seasonal change, and bathymetry of Ligeia Mare, Titan, derived from its microwave thermal emission. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 233-251.	3.6	44
116	Surface of Ligeia Mare, Titan, from Cassini altimeter and radiometer analysis. <i>Geophysical Research Letters</i> , 2014, 41, 308-313.	4.0	43
117	Vortex Encounter Rates with Fixed Barometer Stations: Comparison with Visual Dust Devil Counts and Large-Eddy Simulations. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4461-4472.	1.7	43
118	Transient features in a Titan sea. <i>Nature Geoscience</i> , 2014, 7, 493-496.	12.9	43
119	History and Applications of Dust Devil Studies. <i>Space Science Reviews</i> , 2016, 203, 5-37.	8.1	43
120	Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.	4.0	43
121	Crater topography on Titan: Implications for landscape evolution. <i>Icarus</i> , 2013, 223, 82-90.	2.5	42
122	Wind driven capillary-gravity waves on Titan's lakes: Hard to detect or non-existent?. <i>Icarus</i> , 2013, 225, 403-412.	2.5	42
123	Heuristic estimation of dust devil vortex parameters and trajectories from single-station meteorological observations: Application to InSight at Mars. <i>Icarus</i> , 2016, 271, 326-337.	2.5	42
124	Thermal and Evolved Gas Analyzer: Part of the Mars Volatile and Climate Surveyor integrated payload. <i>Journal of Geophysical Research</i> , 2001, 106, 17683-17698.	3.3	41
125	The potential for prebiotic chemistry in the possible cryovolcanic dome Ganesa Macula on Titan. <i>International Journal of Astrobiology</i> , 2006, 5, 57-65.	1.6	41
126	Power law of dust devil diameters on Mars and Earth. <i>Icarus</i> , 2009, 203, 683-684.	2.5	41

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127	Fluvial erosion as a mechanism for crater modification on Titan. <i>Icarus</i> , 2016, 270, 114-129.	2.5	41
128	Thermally anomalous features in the subsurface of Enceladus's south polar terrain. <i>Nature Astronomy</i> , 2017, 1, .	10.1	41
129	Titan under a red giant sun: A new kind of "habitable" moon. <i>Geophysical Research Letters</i> , 1997, 24, 2905-2908.	4.0	40
130	Thermodynamics of Geysers: Application to Titan. <i>Icarus</i> , 2002, 156, 176-183.	2.5	40
131	Seismometer Detection of Dust Devil Vortices by Ground Tilt. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 3015-3023.	2.3	39
132	Field Measurements of Terrestrial and Martian Dust Devils. <i>Space Science Reviews</i> , 2016, 203, 39-87.	8.1	39
133	Dust devil track survey at Elysium Planitia, Mars: Implications for the InSight landing sites. <i>Icarus</i> , 2016, 266, 315-330.	2.5	39
134	Titan's surface and rotation: new results from Voyager 1 images. <i>Icarus</i> , 2004, 170, 113-124.	2.5	38
135	Sea-surface wave growth under extraterrestrial atmospheres: Preliminary wind tunnel experiments with application to Mars and Titan. <i>Icarus</i> , 2005, 175, 556-560.	2.5	38
136	Titan's surface from Cassini RADAR SAR and high resolution radiometry data of the first five flybys. <i>Icarus</i> , 2007, 191, 211-222.	2.5	38
137	The longevity and aspect ratio of dust devils: Effects on detection efficiencies and comparison of landed and orbital imaging at Mars. <i>Icarus</i> , 2013, 226, 964-970.	2.5	38
138	Elevation distribution of Titan's craters suggests extensive wetlands. <i>Icarus</i> , 2014, 228, 27-34.	2.5	38
139	The flushing of Ligeia: Composition variations across Titan's seas in a simple hydrological model. <i>Geophysical Research Letters</i> , 2014, 41, 5764-5770.	4.0	38
140	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016, 270, 130-161.	2.5	38
141	Expected Seismicity and the Seismic Noise Environment of Europa. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 163-179.	3.6	38
142	Bathymetry and composition of Titan's Ontario Lacus derived from Monte Carlo-based waveform inversion of Cassini RADAR altimetry data. <i>Icarus</i> , 2018, 300, 203-209.	2.5	38
143	Analysis and interpretation of Cassini Titan radar altimeter echoes. <i>Icarus</i> , 2009, 200, 240-255.	2.5	37
144	Dust Devil Steady-State Structure from a Fluid Dynamics Perspective. <i>Space Science Reviews</i> , 2016, 203, 209-244.	8.1	37

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145	Titan's "Magic Islands": Transient features in a hydrocarbon sea. <i>Icarus</i> , 2016, 271, 338-349.	2.5	37
146	Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.	1.7	37
147	Thermal interactions of the Huygens probe with the Titan environment: Constraint on near-surface wind. <i>Icarus</i> , 2006, 182, 559-566.	2.5	36
148	A model intercomparison of Titan's climate and low-latitude environment. <i>Icarus</i> , 2019, 333, 113-126.	2.5	36
149	Selection and Characteristics of the Dragonfly Landing Site near Selk Crater, Titan. <i>Planetary Science Journal</i> , 2021, 2, 24.	3.6	36
150	Cassini RADAR: prospects for Titan surface investigations using the microwave radiometer. <i>Planetary and Space Science</i> , 2003, 51, 353-364.	1.7	35
151	Production and global transport of Titan's sand particles. <i>Planetary Science</i> , 2015, 4, .	1.5	35
152	Dust Devil Sediment Transport: From Lab to Field to Global Impact. <i>Space Science Reviews</i> , 2016, 203, 377-426.	8.1	35
153	Laboratory measurements of nitrogen dissolution in Titan lake fluids. <i>Icarus</i> , 2017, 289, 94-105.	2.5	35
154	Seismic Wave Propagation in Icy Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 206-232.	3.6	35
155	Penetration tests on the DS-2 Mars microprobes: penetration depth and impact accelerometry. <i>Planetary and Space Science</i> , 2000, 48, 419-436.	1.7	34
156	Thermophysical properties of Alaskan loess: An analog material for the Martian polar layered terrain?. <i>Geophysical Research Letters</i> , 2000, 27, 2769-2772.	4.0	34
157	Overview of the coordinated ground-based observations of Titan during the Huygens mission. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
158	TiME - The Titan Mare Explorer. , 2013, , .		34
159	Dust Devil Formation. <i>Space Science Reviews</i> , 2016, 203, 183-207.	8.1	34
160	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	34
161	Latitudinal Variation of Aerosol Sizes Inferred from Titan's Shadow. <i>Icarus</i> , 1997, 125, 369-379.	2.5	33
162	The seas of Titan. <i>Eos</i> , 2003, 84, 125.	0.1	33

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163	A radar map of Titan Seas: Tidal dissipation and ocean mixing through the throat of Kraken. <i>Icarus</i> , 2014, 237, 9-15.	2.5	33
164	Strategies for Detecting Biological Molecules on Titan. <i>Astrobiology</i> , 2018, 18, 571-585.	3.0	33
165	Flight Power Scaling of Airplanes, Airships, and Helicopters: Application to Planetary Exploration. <i>Journal of Aircraft</i> , 2001, 38, 208-214.	2.4	32
166	Characteristics of Icy Surfaces. <i>Space Science Reviews</i> , 2010, 153, 63-111.	8.1	32
167	Planetary penetrators: Their origins, history and future. <i>Advances in Space Research</i> , 2011, 48, 403-431.	2.6	32
168	Winds and tides of Ligeia Mare, with application to the drift of the proposed time TiME (Titan Mare) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	32
169	Dust Devil Populations and Statistics. <i>Space Science Reviews</i> , 2016, 203, 277-297.	8.1	32
170	Material transport map of Titan: The fate of dunes. <i>Icarus</i> , 2016, 270, 183-196.	2.5	32
171	Liquid-filled canyons on Titan. <i>Geophysical Research Letters</i> , 2016, 43, 7887-7894.	4.0	32
172	Laser-induced breakdown spectroscopy acoustic testing of the Mars 2020 microphone. <i>Planetary and Space Science</i> , 2019, 165, 260-271.	1.7	32
173	Impacts and cratering on Titan: a pre-Cassini view. <i>Planetary and Space Science</i> , 1997, 45, 1009-1019.	1.7	31
174	Convective plumes and the scarcity of Titan's clouds. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	31
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176	Formulation of a wind specification for Titan late polar summer exploration. <i>Planetary and Space Science</i> , 2012, 70, 73-83.	1.7	31
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