

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
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523
all docs

523
docs citations

523
times ranked

4799
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploration of Enceladus and Titan: investigating ocean worldsâ€™ evolution and habitability in the Saturn system. <i>Experimental Astronomy</i> , 2022, 54, 877-910.	3.7	3
2	Gravitational atmospheric tides as a probe of Titanâ€™s interior: Application to Dragonfly. <i>Astronomy and Astrophysics</i> , 2022, 658, A108.	5.1	2
3	Science goals and new mission concepts for future exploration of Titanâ€™s atmosphere, geology and habitability: titan POLar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). <i>Experimental Astronomy</i> , 2022, 54, 911-973.	3.7	5
4	Mission Incredible: A Titan Sample Return Using In-Situ Propellants. , 2022, , .		0
5	The Dirty Secrets of Planetary Exploration: Lessons from Interactions with Regolith. , 2022, , .		0
6	The InSight-HP3 mole on Mars: Lessons learned from attempts to penetrate to depth in the Martian soil. <i>Advances in Space Research</i> , 2022, 69, 3140-3163.	2.6	24
7	In situ recording of Mars soundscape. <i>Nature</i> , 2022, 605, 653-658.	27.8	30
8	Turbulence for extraterrestrial aviation: Gust specification for Dragonfly's powered flights. <i>Planetary and Space Science</i> , 2022, 214, 105459.	1.7	4
9	Titan's surface bearing strength: Contact force models for the Dragonfly rotorcraft lander. <i>Planetary and Space Science</i> , 2022, 214, 105449.	1.7	1
10	Investigation of magnetic field signals during vortex-induced pressure drops at InSight. <i>Planetary and Space Science</i> , 2022, 217, 105487.	1.7	3
11	Sand Transport on Titan: A Sticky Problem. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
12	Descent Dynamics of the Pioneer Venus Large Probe. , 2022, , .		0
13	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	10.3	47
14	Revealing the Mysteries of Venus: The DAVINCI Mission. <i>Planetary Science Journal</i> , 2022, 3, 117.	3.6	62
15	Correction: Descent Dynamics of the Pioneer Venus Large Probe. , 2022, , .		1
16	Near-surface structure of a large linear dune and an associated crossing dune of the northern Namib Sand Sea from Ground Penetrating Radar: Implications for the history of large linear dunes on Earth and Titan. <i>Aeolian Research</i> , 2022, 57, 100813.	2.7	3
17	Companion guide to the marsquake catalog from InSight, Sols 0â€™478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	1.9	64
18	The whirlwinds of Elysium: A catalog and meteorological characteristics of â€™dust devilâ€™vortices observed by InSight on Mars. <i>Icarus</i> , 2021, 355, 114119.	2.5	20

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19	Large-Eddy Simulation of Titan's near-surface atmosphere: Convective turbulence and flow over dunes with application to Huygens and Dragonfly. <i>Icarus</i> , 2021, 357, 114229.	2.5	6
20	Scaling sediment mobilization beneath rotorcraft for Titan and Mars. <i>Aeolian Research</i> , 2021, 48, 100653.	2.7	7
21	The low electrical conductivity of Titan's lower atmosphere. <i>Icarus</i> , 2021, 354, 114092.	2.5	4
22	Dust devil winds: Assessing dry convective vortex intensity limits at planetary surfaces. <i>Icarus</i> , 2021, 354, 114062.	2.5	8
23	Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 2: Local Meteorology, Transport Dynamics, and Model Analysis. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006514.	3.6	19
24	Experimental Wind Characterization with the SuperCam Microphone under a Simulated martian Atmosphere. <i>Icarus</i> , 2021, 354, 114060.	2.5	12
25	Aeroshell Contamination Venting on Long-Duration Planetary Missions. <i>Journal of Spacecraft and Rockets</i> , 2021, 58, 240-243.	1.9	1
26	Selection and Characteristics of the Dragonfly Landing Site near Selk Crater, Titan. <i>Planetary Science Journal</i> , 2021, 2, 24.	3.6	36
27	Constraining Martian Regolith and Vortex Parameters From Combined Seismic and Meteorological Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006410.	3.6	16
28	The Science Case for a Titan Flagship-class Orbiter with Probes. , 2021, 53, .		0
29	Toward More Realistic Simulation and Prediction of Dust Storms on Mars. , 2021, 53, .		3
30	Modeling transmission windows in Titan's lower troposphere: Implications for infrared spectrometers aboard future aerial and surface missions. <i>Icarus</i> , 2021, 357, 114228.	2.5	3
31	The Challenging Depths of Titan's Seas. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006786.	3.6	2
32	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
33	An engineering model of Titan surface winds for Dragonfly landed operations. <i>Advances in Space Research</i> , 2021, 67, 2219-2230.	2.6	7
34	Physical-based scattering model for Titan: Integrating Cassini microwave data (active and passive). <i>Icarus</i> , 2021, 359, 114319.	2.5	1
35	Evolution of the Huygens Probe Spin During Parachute Descent. <i>Journal of Spacecraft and Rockets</i> , 2021, 58, 609-618.	1.9	4
36	Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multi-Instrument Observations, Analysis, and Implications. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006757.	3.6	23

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37	Observation of Cassini's Entry into Saturn: No Detection, and Lessons Learned. Research Notes of the AAS, 2021, 5, 133.	0.7	0
38	Titan: Earth-like on the Outside, Ocean World on the Inside. Planetary Science Journal, 2021, 2, 112.	3.6	21
39	Prediction of aerodynamically-triggered condensation: Application to the Dragonfly rotorcraft in Titan's atmosphere. Aerospace Science and Technology, 2021, 114, 106738.	4.8	5
40	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. Planetary Science Journal, 2021, 2, 130.	3.6	80
41	Near Surface Properties of Martian Regolith Derived From InSight HP ³ RAD Temperature Observations During Phobos Transits. Geophysical Research Letters, 2021, 48, e2021GL093542.	4.0	13
42	First Mars year of observations with the InSight solar arrays: Winds, dust devil shadows, and dust accumulation. Icarus, 2021, 364, 114468.	2.5	15
43	Wind and surface roughness considerations for seismic instrumentation on a relocatable lander for Titan. Planetary and Space Science, 2021, 206, 105320.	1.7	8
44	Lander and rover histories of dust accumulation on and removal from solar arrays on Mars. Planetary and Space Science, 2021, 207, 105337.	1.7	23
45	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. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	45
46	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4.	8.1	160
47	Search for Infrasound Signals in InSight Data Using Coupled Pressure/Ground Deformation Methods. Bulletin of the Seismological Society of America, 2021, 111, 3055-3064.	2.3	8
48	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	4.4	13
49	Paleoclimate Evolution on Titan After Episodic Massive Methane Outgassing Simulated by a Global Climate Model. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	2
50	How far is far enough? Requirements derivation for planetary mobility systems. Advances in Space Research, 2020, 65, 1383-1401.	2.6	9
51	Influence of the Multi-Mission Radioisotope Thermoelectric Generator (MMRTG) on the local atmospheric environment. Planetary and Space Science, 2020, 193, 105075.	1.7	17
52	Martian Ripples Making a Splash. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006658.	3.6	14
53	Titan Turtle: NIAC Phase II Design for a Submersible Vehicle for Titan Exploration. , 2020, , .		0
54	Geophysical Observations of Phobos Transits by InSight. Geophysical Research Letters, 2020, 47, e2020GL089099.	4.0	10

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55	Key Technologies and Instrumentation for Subsurface Exploration of Ocean Worlds. Space Science Reviews, 2020, 216, 1.	8.1	18
56	Dust devils on Mars. Physics Today, 2020, 73, 62-63.	0.3	1
57	Prospects for Detecting Volcanic Events with Microwave Radiometry. Remote Sensing, 2020, 12, 2544.	4.0	1
58	Scientific Observations With the InSight Solar Arrays: Dust, Clouds, and Eclipses on Mars. Earth and Space Science, 2020, 7, e2019EA000992.	2.6	24
59	Triboelectric Charging and Brownout Hazard Evaluation for a Planetary Rotorcraft. , 2020, , .		5
60	The root of anomalously specular reflections from solid surfaces on Saturn's moon Titan. Nature Communications, 2020, 11, 2829.	12.8	6
61	Dust Devils on Titan. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006238.	3.6	3
62	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	1.7	15
63	Schumann resonance on Titan: A critical Re-assessment. Icarus, 2020, 351, 113942.	2.5	9
64	The atmosphere of Mars as observed by InSight. Nature Geoscience, 2020, 13, 190-198.	12.9	161
65	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
66	Titan's impact crater population after Cassini. Icarus, 2020, 344, 113664.	2.5	20
67	On-Deck Seismology: Lessons from InSight for Future Planetary Seismology. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006353.	3.6	25
68	Monitoring of Dust Devil Tracks Around the InSight Landing Site, Mars, and Comparison With In Situ Atmospheric Data. Geophysical Research Letters, 2020, 47, e2020GL087234.	4.0	30
69	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
70	A Transit Lightcurve of Deimos, Observed with the InSight Solar Arrays. Research Notes of the AAS, 2020, 4, 57.	0.7	1
71	Maunder's Work on Planetary Habitability in 1913: Early Use of the term "Habitable Zone" and a "Drake Equation" Calculation. Research Notes of the AAS, 2020, 4, 79.	0.7	5
72	Seismology on Titan: A seismic signal and noise budget in preparation for Dragonfly. , 2020, , .		2

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73	A Thermal Inertia Map of Titan. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1728-1742.	3.6	11
74	A model intercomparison of Titan's climate and low-latitude environment. <i>Icarus</i> , 2019, 333, 113-126.	2.5	36
75	Constraints on Venus Lightning From Akatsuki's First 3 Years in Orbit. <i>Geophysical Research Letters</i> , 2019, 46, 7955-7961.	4.0	9
76	Application of Pneumatics in Delivering Samples to Instruments on Planetary Missions. , 2019, , .		5
77	Experimental investigation of surface adhesion of Titan analog materials: Mitigation by dust-repellent coatings. <i>Planetary and Space Science</i> , 2019, 179, 104721.	1.7	8
78	A theory of angel hair: Analytic prediction of frictional heating of particulates in pneumatic transport. <i>Powder Technology</i> , 2019, 355, 264-267.	4.2	5
79	Hydrogen sensing in Titan's atmosphere: Motivations and techniques. <i>Planetary and Space Science</i> , 2019, 174, 1-7.	1.7	5
80	Calculating risk and payoff in planetary exploration and life detection missions. <i>Advances in Space Research</i> , 2019, 64, 944-956.	2.6	16
81	A Bayesian approach to biosignature detection on ocean worlds. <i>Nature Astronomy</i> , 2019, 3, 466-467.	10.1	10
82	Large-scale, sub-tropical cloud activity near Titan's 1995 equinox. <i>Icarus</i> , 2019, 331, 1-14.	2.5	1
83	Seismic signal from waves on Titan's seas. <i>Earth and Planetary Science Letters</i> , 2019, 520, 250-259.	4.4	9
84	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	34
85	Deep and methane-rich lakes on Titan. <i>Nature Astronomy</i> , 2019, 3, 535-542.	10.1	30
86	Modeling of Seasonal Lake Level Fluctuations of Titan's Seas/Lakes. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 617-635.	3.6	7
87	One dimensional effervescence modeling of an extraterrestrial submarine in the Saturn Titan Seas. <i>Planetary and Space Science</i> , 2019, 170, 1-15.	1.7	0
88	An Investigation of the Behavior of a Coaxial Rotor in Descent and Ground Effect. , 2019, , .		10
89	Laser-induced breakdown spectroscopy acoustic testing of the Mars 2020 microphone. <i>Planetary and Space Science</i> , 2019, 165, 260-271.	1.7	32
90	Collecting amino acids in the Enceladus plume. <i>International Journal of Astrobiology</i> , 2019, 18, 47-59.	1.6	24

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91	EOLIAN BEDFORMS IN THE REGION SURROUNDING THE INSIGHT LANDING SITE, MARS. , 2019, , .		1
92	Alluvial and fluvial fans on Saturn's moon Titan reveal processes, materials and regional geology. Geological Society Special Publication, 2018, 440, 281-305.	1.3	19
93	Seismic Wave Propagation in Icy Ocean Worlds. Journal of Geophysical Research E: Planets, 2018, 123, 206-232.	3.6	35
94	Titan's cold case files - Outstanding questions after Cassini-Huygens. Planetary and Space Science, 2018, 155, 50-72.	1.7	37
95	Onboard Science Insights and Vehicle Dynamics from Scale-Model Trials of the Titan Mare Explorer (TiME) Capsule at Laguna Negra, Chile. Astrobiology, 2018, 18, 607-618.	3.0	2
96	Discharge current measurements on Venera 13 & 14 - Evidence for charged aerosols in the Venus lower atmosphere?. Icarus, 2018, 307, 146-149.	2.5	2
97	Expected Seismicity and the Seismic Noise Environment of Europa. Journal of Geophysical Research E: Planets, 2018, 123, 163-179.	3.6	38
98	Guidance, Navigation, and Control for Exploration of Titan with the Dragonfly Rotorcraft Lander. , 2018, , .		8
99	Vital Signs: Seismology of Icy Ocean Worlds. Astrobiology, 2018, 18, 37-53.	3.0	31
100	Empirical recurrence rates for ground motion signals on planetary surfaces. Icarus, 2018, 303, 273-279.	2.5	12
101	Morphological evidence that Titan's southern hemisphere basins are paleoseas. Icarus, 2018, 310, 140-148.	2.5	24
102	Venus atmospheric structure and dynamics from the VEGA lander and balloons: New results and PDS archive. Icarus, 2018, 305, 277-283.	2.5	17
103	A timelapse camera dataset and Markov model of dust devil activity at Eldorado playa, Nevada, USA. Aeolian Research, 2018, 33, 33-43.	2.7	4
104	Strategies for Detecting Biological Molecules on Titan. Astrobiology, 2018, 18, 571-585.	3.0	33
105	Electric properties of dust devils. Earth and Planetary Science Letters, 2018, 493, 71-81.	4.4	22
106	A post-Cassini view of Titan's methane-based hydrologic cycle. Nature Geoscience, 2018, 11, 306-313.	12.9	59
107	Enceladus plume density from Cassini spacecraft attitude control data. Icarus, 2018, 300, 200-202.	2.5	5
108	Bathymetry and composition of Titan's Ontario Lacus derived from Monte Carlo-based waveform inversion of Cassini RADAR altimetry data. Icarus, 2018, 300, 203-209.	2.5	38

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109	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. <i>Planetary and Space Science</i> , 2018, 155, 73-90.	1.7	26
110	A numerical study of tides in Titan's northern seas, Kraken and Ligeia Maria. <i>Icarus</i> , 2018, 310, 105-126.	2.5	7
111	Geophysical Investigations of Habitability in Ice-Covered Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 180-205.	3.6	133
112	A framework for relating the structures and recovery statistics in pressure time-series surveys for dust devils. <i>Icarus</i> , 2018, 299, 166-174.	2.5	15
113	An analytical solubility model for nitrogen-methane-ethane ternary mixtures. <i>Icarus</i> , 2018, 299, 175-186.	2.5	11
114	Lightning detection on Venus: a critical review. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	24
115	Initiation of a lightning search using the lightning and airglow camera onboard the Venus orbiter Akatsuki. <i>Earth, Planets and Space</i> , 2018, 70, 88.	2.5	8
116	Titan's Twilight and Sunset Solar Illumination. <i>Astronomical Journal</i> , 2018, 156, 247.	4.7	3
117	Titan Submarines: Options for Exploring The Depths of Titan's Seas. , 2018, , .		1
118	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
119	Observational evidence for active dust storms on Titan at equinox. <i>Nature Geoscience</i> , 2018, 11, 727-732.	12.9	18
120	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	19
121	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	77
122	Exploring Titan's cryogenic hydrocarbon seas with boat-deployed expendable dropsondes. <i>Advances in Space Research</i> , 2018, 62, 912-920.	2.6	9
123	Atmospheric test environments for planetary in-situ missions: Never quite "Test as you fly". <i>Advances in Space Research</i> , 2018, 62, 1884-1894.	2.6	6
124	Using an Instrumented Drone to Probe Dust Devils on Oregon's Alvord Desert. <i>Remote Sensing</i> , 2018, 10, 65.	4.0	6
125	Cassini radar observation of Punga Mare and environs: Bathymetry and composition. <i>Earth and Planetary Science Letters</i> , 2018, 496, 89-95.	4.4	20
126	Titan Submarine. , 2018, , 543-608.		1

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127	Laboratory measurements of nitrogen dissolution in Titan lake fluids. <i>Icarus</i> , 2017, 289, 94-105.	2.5	35
128	The changing nature of rainfall during the early history of Mars. <i>Icarus</i> , 2017, 293, 172-179.	2.5	24
129	Energetics of rotary-wing exploration of Titan. , 2017, , .		17
130	Huygens probe: A retrospective and lessons for the future. , 2017, , .		2
131	Thermally anomalous features in the subsurface of Enceladus's south polar terrain. <i>Nature Astronomy</i> , 2017, 1, .	10.1	41
132	Potential Effects of Surface Temperature Variations and Disturbances and Thermal Convection on the Mars InSight HP3 Heat-Flow Determination. <i>Space Science Reviews</i> , 2017, 211, 277-313.	8.1	9
133	Wind shear and turbulence on Titan: Huygens analysis. <i>Icarus</i> , 2017, 295, 119-124.	2.5	8
134	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
135	Titan's Topography and Shape at the End of the Cassini Mission. <i>Geophysical Research Letters</i> , 2017, 44, 11,754.	4.0	78
136	Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.	4.0	43
137	Surface roughness of Titan's hydrocarbon seas. <i>Earth and Planetary Science Letters</i> , 2017, 474, 20-24.	4.4	21
138	Geomorphologic mapping of titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017, 282, 214-236.	2.5	46
139	Drifting buoy and autonomous submersible designs for the scientific exploration of Titan's seas. , 2017, , .		1
140	Viking's Seismometer Measurements on Mars: PDS Data Archive and Meteorological Applications. <i>Earth and Space Science</i> , 2017, 4, 681-688.	2.6	24
141	Gypsum gravel devils in Chile: Movement of largest natural grains by wind?: COMMENT. <i>Geology</i> , 2017, 45, e423-e423.	4.4	0
142	Dust Devil Formation. <i>Space Sciences Series of ISSI</i> , 2017, , 183-207.	0.0	2
143	Dust Devil Populations and Statistics. <i>Space Sciences Series of ISSI</i> , 2017, , 277-297.	0.0	0
144	History and Applications of Dust Devil Studies. <i>Space Sciences Series of ISSI</i> , 2017, , 5-37.	0.0	1

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145	Special Issue on Dust Devils. Space Sciences Series of ISSI, 2017, , 1-4.	0.0	1
146	Field Measurements of Terrestrial and Martian Dust Devils. Space Sciences Series of ISSI, 2017, , 39-87.	0.0	1
147	Dust Devil Steady-State Structure from a Fluid Dynamics Perspective. Space Sciences Series of ISSI, 2017, , 209-244.	0.0	0
148	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Sciences Series of ISSI, 2017, , 377-426.	0.0	1
149	Exploring the depths of Kraken Mare – Power, thermal analysis, and ballast control for the Saturn Titan submarine. Cryogenics, 2016, 74, 31-46.	1.7	28
150	History and Applications of Dust Devil Studies. Space Science Reviews, 2016, 203, 5-37.	8.1	43
151	Fluvial erosion as a mechanism for crater modification on Titan. Icarus, 2016, 270, 114-129.	2.5	41
152	Heat Rejection in the Titan Surface Environment: Potential Impact on Science Investigations. Journal of Thermophysics and Heat Transfer, 2016, 30, 257-265.	1.6	9
153	Dust Devil Populations and Statistics. Space Science Reviews, 2016, 203, 277-297.	8.1	32
154	Dust Devil Steady-State Structure from a Fluid Dynamics Perspective. Space Science Reviews, 2016, 203, 209-244.	8.1	37
155	Material transport map of Titan: The fate of dunes. Icarus, 2016, 270, 183-196.	2.5	32
156	Saturn Spacecraft Power: Trading Radioisotope, Solar, and Fission Power Systems. , 2016, , .		0
157	Liquid-filled canyons on Titan. Geophysical Research Letters, 2016, 43, 7887-7894.	4.0	32
158	Dust Devil Formation. Space Science Reviews, 2016, 203, 183-207.	8.1	34
159	Dust Devil Sediment Transport: From Lab to Field to Global Impact. Space Science Reviews, 2016, 203, 377-426.	8.1	35
160	Field Measurements of Terrestrial and Martian Dust Devils. Space Science Reviews, 2016, 203, 39-87.	8.1	39
161	Point discharge current measurements beneath dust devils. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 150-151, 55-60.	1.6	6
162	Dust devils in thin air: Vortex observations at a high-elevation Mars analog site in the Argentinian Puna. Geophysical Research Letters, 2016, 43, 4010-4016.	4.0	10

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163	Editorial: Topical Volume on Dust Devils. <i>Space Science Reviews</i> , 2016, 203, 1-4.	8.1	2
164	Sun-stirred Kraken Mare: Circulation in Titan's seas induced by solar heating and methane precipitation. <i>Icarus</i> , 2016, 270, 67-84.	2.5	18
165	The electrical properties of Titan's surface at the Huygens landing site measured with the PWA's HASI Mutual Impedance Probe. New approach and new findings. <i>Icarus</i> , 2016, 270, 272-290.	2.5	11
166	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
167	Lander rocket exhaust effects on Europa regolith nitrogen assays. <i>Planetary and Space Science</i> , 2016, 127, 91-94.	1.7	10
168	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
169	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
170	Eruptive behavior of the Marum/Mbwelesu lava lake, Vanuatu and comparisons with lava lakes on Earth and Io. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 105-118.	2.1	11
171	Detecting volcanism on Titan and Venus with microwave radiometry. <i>Icarus</i> , 2016, 270, 30-36.	2.5	5
172	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
173	The tectonics of Titan: Global structural mapping from Cassini RADAR. <i>Icarus</i> , 2016, 270, 14-29.	2.5	29
174	Probing Pluto's underworld: Ice temperatures from microwave radiometry decoupled from surface conditions. <i>Icarus</i> , 2016, 268, 50-55.	2.5	9
175	Dust devil track survey at Elysium Planitia, Mars: Implications for the InSight landing sites. <i>Icarus</i> , 2016, 266, 315-330.	2.5	39
176	Temporal behavior and temperatures of Yasur volcano, Vanuatu from field remote sensing observations, May 2014. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 158-167.	2.1	3
177	Observations of the surface of Titan by the Radar Altimeters on the Huygens Probe. <i>Icarus</i> , 2016, 270, 248-259.	2.5	4
178	Titan's "Magic Islands": Transient features in a hydrocarbon sea. <i>Icarus</i> , 2016, 271, 338-349.	2.5	37
179	Europa ocean sampling by plume flythrough: Astrobiological expectations. <i>Icarus</i> , 2016, 267, 217-219.	2.5	20
180	The roar of Yasur: Handheld audio recorder monitoring of Vanuatu volcanic vent activity. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 168-174.	2.1	4

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