

Cassini imaging of Titan's high-latitude lakes, clouds, and

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Citation Report

#	ARTICLE	IF	CITATIONS
1	CHARACTERIZATION OF CLOUDS IN TITAN'S TROPICAL ATMOSPHERE. <i>Astrophysical Journal</i> , 2009, 702, L105-L109.	1.6	35
2	DISCOVERY OF FOG AT THE SOUTH POLE OF TITAN. <i>Astrophysical Journal</i> , 2009, 706, L110-L113.	1.6	26
3	A review of Titan's atmospheric phenomena. <i>Astronomy and Astrophysics Review</i> , 2009, 17, 105-147.	9.1	15
5	Global circulation as the main source of cloud activity on Titan. <i>Nature</i> , 2009, 459, 678-682.	13.7	76
6	Storms in the tropics of Titan. <i>Nature</i> , 2009, 460, 873-875.	13.7	81
7	An asymmetric distribution of lakes on Titan as a possible consequence of orbital forcing. <i>Nature Geoscience</i> , 2009, 2, 851-854.	5.4	153
8	Shoreline features of Titan's Ontario Lacus from Cassini/VIMS observations. <i>Icarus</i> , 2009, 201, 217-225.	1.1	69
9	The impact of methane thermodynamics on seasonal convection and circulation in a model Titan atmosphere. <i>Icarus</i> , 2009, 203, 250-264.	1.1	53
10	Impact of seas/lakes on polar meteorology of Titan: Simulation by a coupled GCM-Sea model. <i>Icarus</i> , 2009, 204, 619-636.	1.1	57
11	Smoothness of Titan's Ontario Lacus: Constraints from Cassini RADAR specular reflection data. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	59
12	Aerosols in Titan's Atmosphere. , 2009, , 297-321.		12
13	Clouds on Titan during the Cassini prime mission: A complete analysis of the VIMS data. <i>Icarus</i> , 2010, 205, 571-580.	1.1	51
14	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titan's surface properties. <i>Icarus</i> , 2010, 208, 366-384.	1.1	8
15	Simulation of tides in hydrocarbon lakes on Saturn's moon Titan. <i>Ocean Dynamics</i> , 2010, 60, 803-817.	0.9	22
16	Atmospheric/Exospheric Characteristics of Icy Satellites. <i>Space Science Reviews</i> , 2010, 153, 155-184.	3.7	31
17	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Science Reviews</i> , 2010, 153, 375-410.	3.7	19
18	Characteristics of Icy Surfaces. <i>Space Science Reviews</i> , 2010, 153, 63-111.	3.7	32
19	Racetrack and Bonnie Claire: southwestern US playa lakes as analogs for Ontario Lacus, Titan. <i>Planetary and Space Science</i> , 2010, 58, 724-731.	0.9	28

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20	Ground-based measurements of the methane distribution on Titan. <i>Icarus</i> , 2010, 206, 345-351.	1.1	22
21	Latitudinal variations in Titan's methane and haze from Cassini VIMS observations. <i>Icarus</i> , 2010, 206, 352-365.	1.1	28
22	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.	1.1	54
23	Atmospheric control of the cooling rate of impact melts and cryolavas on Titan's surface. <i>Icarus</i> , 2010, 208, 887-895.	1.1	14
24	Observations of a stationary mid-latitude cloud system on Titan. <i>Icarus</i> , 2010, 208, 868-877.	1.1	17
25	Constraints on Titan's topography through fractal analysis of shorelines. <i>Icarus</i> , 2010, 209, 723-737.	1.1	19
26	Characterization of Titan's Ontario Lacus region from Cassini/VIMS observations. <i>Icarus</i> , 2010, 210, 823-831.	1.1	16
27	METHANE GAS STABILIZES SUPERCOOLED ETHANE DROPLETS IN TITAN'S CLOUDS. <i>Astrophysical Journal Letters</i> , 2010, 712, L40-L43.	3.0	12
28	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	66
29	Specular reflection on Titan: Liquids in Kraken Mare. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	69
30	Bathymetry and absorptivity of Titan's Ontario Lacus. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
31	Infrared spectroscopy and vibrational exciton modeling of crystalline, polycrystalline and amorphous acetylene aerosol particles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7924.	1.3	16
32	Seasonal changes in Titan's meteorology. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	76
33	Comparison of Titan's north polar lakes with terrestrial analogs. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
34	SEASONAL CHANGES IN TITAN'S SURFACE TEMPERATURES. <i>Astrophysical Journal Letters</i> , 2011, 737, L15.	3.0	33
35	Titan's cloud seasonal activity from winter to spring with Cassini/VIMS. <i>Icarus</i> , 2011, 216, 89-110.	1.1	68
36	Insolation in Titan's troposphere. <i>Icarus</i> , 2011, 216, 116-119.	1.1	13
37	Transient surface liquid in Titan's polar regions from Cassini. <i>Icarus</i> , 2011, 211, 655-671.	1.1	113

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39	Ground-based radar observations of Titan: 2000-2008. <i>Icarus</i> , 2011, 212, 300-320.	1.1	34
40	Titan: An exogenic world?. <i>Icarus</i> , 2011, 212, 790-806.	1.1	93
41	Shoreline retreat at Titan's Ontario Lacus and Arrakis Planitia from Cassini Imaging Science Subsystem observations. <i>Icarus</i> , 2011, 212, 957-959.	1.1	56
42	The influence of methane, acetylene and carbon dioxide on the crystallization of supercooled ethane droplets in Titan's clouds. <i>Planetary and Space Science</i> , 2011, 59, 722-732.	0.9	10
43	Rapid and Extensive Surface Changes Near Titan's Equator: Evidence of April Showers. <i>Science</i> , 2011, 331, 1414-1417.	6.0	184
44	Locally enhanced precipitation organized by planetary-scale waves on Titan. <i>Nature Geoscience</i> , 2011, 4, 589-592.	5.4	52
45	METHANE-NITROGEN BINARY NUCLEATION: A NEW MICROPHYSICAL MECHANISM FOR CLOUD FORMATION IN TITAN'S ATMOSPHERE. <i>Astrophysical Journal</i> , 2012, 747, 36.	1.6	6
46	TITAN'S TRANSPORT-DRIVEN METHANE CYCLE. <i>Astrophysical Journal Letters</i> , 2012, 756, L26.	3.0	28
47	CLOUD AND HAZE IN THE WINTER POLAR REGION OF TITAN OBSERVED WITH VISUAL AND INFRARED MAPPING SPECTROMETER ON BOARD CASSINI. <i>Astrophysical Journal</i> , 2012, 748, 4.	1.6	9
48	Formulation of a wind specification for Titan late polar summer exploration. <i>Planetary and Space Science</i> , 2012, 70, 73-83.	0.9	31
49	Titan's Methane Weather. <i>Annual Review of Earth and Planetary Sciences</i> , 2012, 40, 355-382.	4.6	32
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51	Edge detection applied to Cassini images reveals no measurable displacement of Ontario Lacus' margin between 2005 and 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
52	Observations of Titan's Northern lakes at 51/4m: Implications for the organic cycle and geology. <i>Icarus</i> , 2012, 221, 768-786.	1.1	72
53	Electromagnetic models and inversion techniques for Titan's Ontario Lacus depth estimation from Cassini RADAR data. <i>Icarus</i> , 2012, 221, 960-969.	1.1	13
54	Geomorphological significance of Ontario Lacus on Titan: Integrated interpretation of Cassini VIMS, ISS and RADAR data and comparison with the Etosha Pan (Namibia). <i>Icarus</i> , 2012, 218, 788-806.	1.1	55
55	Buoyancy of ice in the CH <sub>4</sub> -N <sub>2</sub> system. <i>Icarus</i> , 2012, 219, 733-736.	1.1	25

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56	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	0.9	32
57	A despeckle filter for the Cassini synthetic aperture radar images of Titan's surface. Planetary and Space Science, 2012, 61, 108-113.	0.9	3
58	Dissipation of Titan's north polar cloud at northern spring equinox. Planetary and Space Science, 2012, 60, 86-92.	0.9	33
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60	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. Planetary Science, 2013, 2, .	1.5	45
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66	Titan's surface geology. , 2014, , 63-101.		8
67	Storms, clouds, and weather. , 2014, , 190-223.		9
68	Flooded Valley (Titan). , 2014, , 1-2.		0
69	The exploration of Titan with an orbiter and a lake probe. Planetary and Space Science, 2014, 104, 78-92.	0.9	26
70	Dissolution of benzene, naphthalene, and biphenyl in a simulated Titan lake. Icarus, 2014, 242, 74-81.	1.1	47
71	Cassini/VIMS observes rough surfaces on Titanâ€™s Punga Mare in specular reflection. Planetary Science, 2014, 3, 3.	1.5	31
72	Evidence of Titanâ€™s climate history from evaporite distribution. Icarus, 2014, 243, 191-207.	1.1	62
73	Subsidence-induced methane clouds in Titanâ€™s winter polar stratosphere and upper troposphere. Icarus, 2014, 243, 129-138.	1.1	24

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74	A radar map of Titan Seas: Tidal dissipation and ocean mixing through the throat of Kraken. <i>Icarus</i> , 2014, 237, 9-15.	1.1	33
75	The landscape of Titan as witness to its climate evolution. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2060-2077.	1.5	26
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77	Titan's asymmetric lake distribution mediated by methane transport due to atmospheric eddies. <i>Geophysical Research Letters</i> , 2015, 42, 6213-6220.	1.5	35
78	Polymerization of Building Blocks of Life on Europa and Other Icy Moons. <i>Astrobiology</i> , 2015, 15, 430-441.	1.5	26
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80	Possible temperate lakes on Titan. <i>Icarus</i> , 2015, 257, 313-323.	1.1	13
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82	Meridional variation in tropospheric methane on Titan observed with AO spectroscopy at Keck and VLT. <i>Icarus</i> , 2016, 270, 376-388.	1.1	24
83	The influence of subsurface flow on lake formation and north polar lake distribution on Titan. <i>Icarus</i> , 2016, 277, 103-124.	1.1	20
84	COMPOSITIONAL SIMILARITIES AND DISTINCTIONS BETWEEN TITAN'S EVAPORITIC TERRAINS. <i>Astrophysical Journal</i> , 2016, 821, 17.	1.6	21
85	Nature, distribution, and origin of Titan's Undifferentiated Plains. <i>Icarus</i> , 2016, 270, 162-182.	1.1	45
86	The Lakes and Seas of Titan. <i>Annual Review of Earth and Planetary Sciences</i> , 2016, 44, 57-83.	4.6	118
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91	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.	1.5	44

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93	Titan Science with the <i>James Webb Space Telescope</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018007.	1.0	19
94	Simulating Titan's methane cycle with the TitanWRF General Circulation Model. <i>Icarus</i> , 2016, 267, 106-134.	1.1	37
95	Temporal variations of Titan's surface with Cassini/VIMS. <i>Icarus</i> , 2016, 270, 85-99.	1.1	29
96	Titan's atmosphere and climate. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 432-482.	1.5	228
97	Experimental reflectance study of methane and ethane ice at Titan's surface conditions. <i>Astrophysics and Space Science</i> , 2017, 362, 1.	0.5	0
98	The near-surface methane humidity on Titan. <i>Icarus</i> , 2017, 286, 270-279.	1.1	27
99	Geomorphologic mapping of Titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017, 282, 214-236.	1.1	46
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101	Morphological evidence that Titan's southern hemisphere basins are paleoseas. <i>Icarus</i> , 2018, 310, 140-148.	1.1	24
102	A post-Cassini view of Titan's methane-based hydrologic cycle. <i>Nature Geoscience</i> , 2018, 11, 306-313.	5.4	59
103	Large catchment area recharges Titan's Ontario Lacus. <i>Icarus</i> , 2018, 299, 331-338.	1.1	13
104	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.	1.1	38
105	Titan's Twilight and Sunset Solar Illumination. <i>Astronomical Journal</i> , 2018, 156, 247.	1.9	3
106	Titan Lakes Simulation System (TiLSS): A cryogenic experimental setup to simulate Titan's liquid hydrocarbon surfaces. <i>Review of Scientific Instruments</i> , 2018, 89, 124502.	0.6	0
107	Observational evidence for active dust storms on Titan at equinox. <i>Nature Geoscience</i> , 2018, 11, 727-732.	5.4	18
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111	Large-scale, sub-tropical cloud activity near Titan's 1995 equinox. <i>Icarus</i> , 2019, 331, 1-14.	1.1	1
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113	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	34
114	To sink or swim in Titan's lakes. <i>Nature Geoscience</i> , 2019, 12, 310-311.	5.4	0
115	The case for seasonal surface changes at Titan's lake district. <i>Nature Astronomy</i> , 2019, 3, 506-510.	4.2	19
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117	Using Elliptical Fourier Descriptor Analysis (EFDA) to Quantify Titan Lake Morphology. <i>Astronomical Journal</i> , 2019, 158, 230.	1.9	5
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120	Atmospheric Dynamics in High Obliquity Planets. <i>Icarus</i> , 2020, 340, 113592.	1.1	10
121	The root of anomalously specular reflections from solid surfaces on Saturn's moon Titan. <i>Nature Communications</i> , 2020, 11, 2829.	5.8	6
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123	Lower Surface Temperature at Bright Ephemeral Feature Site on Titan's North Pole. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091708.	1.5	3
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129	Seasonal Change on Titan. , 2009, , 353-372.		4
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131	Composition of Titan's Surface. , 2009, , 141-175.		7
132	Volatile Origin and Cycles: Nitrogen and Methane. , 2009, , 177-199.		18
133	Geology of Icy Bodies. Astrophysics and Space Science Library, 2013, , 279-367.	1.0	8
134	Titan. , 2015, , 2506-2523.		2
135	Methane in the Solar System. Boletin De La Sociedad Geologica Mexicana, 2015, 67, 377-385.	0.1	16
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147	Flooded Valley (Titan). , 2015, , 775-776.		0
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151	Cryovolcanism in the Solar System and Beyond: Considerations on Energy Sources, Geological Aspects, and Astrobiological Perspectives. , 0, , .		0
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153	Foundational Women in planetary geomorphology: some contributions in fluvial, aeolian, and (cryo)volcanic subdisciplines. Earth Surface Processes and Landforms, 0, , .	1.2	1
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