

CITATION REPORT

List of articles citing

In situ measurements of the physical characteristics of Titan s environment

DOI: 10.1038/nature04314
Nature, 2005, 438, 785-91.

Source: <https://exaly.com/paper-pdf/38225241/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
590	The vertical profile of winds on Titan. <i>Nature</i> , 2005 , 438, 800-2	50.4	164
589	A soft solid surface on Titan as revealed by the Huygens Surface Science Package. <i>Nature</i> , 2005 , 438, 792-5	50.4	116
588	An overview of the descent and landing of the Huygens probe on Titan. <i>Nature</i> , 2005 , 438, 758-64	50.4	173
587	Planetary science: Huygens rediscovers Titan. <i>Nature</i> , 2005 , 438, 756-7	50.4	39
586	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005 , 438, 765-78	50.4	457
585	The growth of molecular complexity in the Universe. 2006 , 133, 9-25; discussion 83-102, 449-52		16
584	Titan's damp ground: Constraints on Titan surface thermal properties from the temperature evolution of the Huygens GCMS inlet. 2006 , 41, 1705-1714		56
583	Valley formation and methane precipitation rates on Titan. 2006 , 111,		89
582	Titan's bright spots: Multiband spectroscopic measurement of surface diversity and hazes. 2006 , 111,		17
581	Bistatic observations of Titan's surface with the Huygens probe radio signal. 2006 , 111,		10
580	Titan imagery with Keck adaptive optics during and after probe entry. 2006 , 111,		16
579	The two Titan stellar occultations of 14 November 2003. 2006 , 111,		59
578	Overview of the coordinated ground-based observations of Titan during the Huygens mission. 2006 , 111,		24
577	Winds on Titan from ground-based tracking of the Huygens probe. 2006 , 111,		55
576	High-resolution infrared spectroscopy of ethane in Titan's stratosphere in the Huygens epoch. 2006 , 111,		9
575	Three-dimensional finite difference time domain modeling of the Schumann resonance parameters on Titan, Venus, and Mars. 2006 , 41, n/a-n/a		20
574	Vertical atmospheric flow on Titan as measured by the HASI instrument on board the Huygens probe. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	12

573	Waves and horizontal structures in Titan's thermosphere. 2006 , 111,		44
572	Titan's planetary boundary layer structure at the Huygens landing site. 2006 , 111,		33
571	Planetary science: Titan's exotic weather. <i>Nature</i> , 2006 , 442, 362-3	50.4	5
570	Developmental biology: the hole picture. <i>Nature</i> , 2006 , 442, 363-4	50.4	6
569	Methane storms on Saturn's moon Titan. <i>Nature</i> , 2006 , 442, 428-31	50.4	97
568	Methane drizzle on Titan. <i>Nature</i> , 2006 , 442, 432-5	50.4	135
567	Gravitational tidal waves in Titan's upper atmosphere. <i>Icarus</i> , 2006 , 182, 251-258	3.8	25
566	Thermal interactions of the Huygens probe with the Titan environment: Constraint on near-surface wind. <i>Icarus</i> , 2006 , 182, 559-566	3.8	34
565	Physical properties of Titan's surface at the Huygens landing site from the Surface Science Package Acoustic Properties sensor (API-S). <i>Icarus</i> , 2006 , 185, 457-465	3.8	15
564	Titan's methane cycle. 2006 , 54, 1177-1187		195
563	Electric properties and related physical characteristics of the atmosphere and surface of Titan. 2006 , 54, 1124-1136		46
562	Vertical pressure profile of Titan observations of the PPI/HASI instrument. 2006 , 54, 1117-1123		17
561	Titan and the Cassini-Huygens mission. 2006 ,		
560	Evidence for a polar ethane cloud on Titan. 2006 , 313, 1620-2		149
559	The new Titan: an astrobiological perspective. 2006 ,		
558	Symposia Oral Presentations. <i>Astrobiology</i> , 2006 , 6, 105-173	3.7	1
557	The dynamics behind Titan's methane clouds. 2006 , 103, 18421-6		92
556	Gas phase reaction kinetics at very low temperatures: recent advances on carbon chemistry using the CRESU technique. 2007 , 76, 1093-1106		4

555	Phase behavior of methane haze. 2007 , 98, 013401		22
554	Titan: an astrobiological laboratory in the solar system. 2007 ,		9
553	Predictions of the electrical conductivity and charging of the aerosols in Titan's nighttime atmosphere. 2007 , 112,		16
552	Methane thermodynamics in nanoporous ice: A new methane reservoir on Titan. 2007 , 112,		5
551	Instrumentation for Planetary Exploration Missions. 2007 , 595-641		2
550	Photochemical and discharge-driven pathways to aromatic products from 1,3-butadiene. 2007 , 111, 10914-27	30	
549	TRAMS: A new dynamic cloud model for Titan's methane clouds. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	61
548	A finite difference time domain model for the Titan ionosphere Schumann resonances. 2007 , 42, n/a-n/a		8
547	Nondetection of Titan lightning radio emissions with Cassini/RPWS after 35 close Titan flybys. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	21
546	Near-infrared spectral mapping of Titan's mountains and channels. 2007 , 112,		73
545	Titan: a new astrobiological vision from the Cassini-Huygens data. 263-284		
544	Titan's ion chemistry: a laboratory perspective. 2007 , 26, 281-319		51
543	Discharge experiments simulating chemical evolution on the surface of Titan. <i>Icarus</i> , 2007 , 187, 616-619	3.8	24
542	The composition of Titan's stratosphere from Cassini/CIRS mid-infrared spectra. <i>Icarus</i> , 2007 , 189, 35-62	3.8	343
541	Speed of sound measurements and the methane abundance in Titan's atmosphere. <i>Icarus</i> , 2007 , 189, 538-543	3.8	17
540	Cassini CIRS update on stratospheric ices at Titan's winter pole. <i>Icarus</i> , 2007 , 189, 63-71	3.8	34
539	The Titan 14N/15N and 12C/13C isotopic ratios in HCN from Cassini/CIRS. <i>Icarus</i> , 2007 , 191, 712-721	3.8	63
538	Photochemical kinetics uncertainties in modeling Titan's atmosphere: First consequences. 2007 , 55, 1470-1489	79	

537	Descent motions of the Huygens probe as measured by the Surface Science Package (SSP): Turbulent evidence for a cloud layer. 2007 , 55, 1936-1948		26
536	Electron conductivity and density profiles derived from the mutual impedance probe measurements performed during the descent of Huygens through the atmosphere of Titan. 2007 , 55, 1964-1977		49
535	A technique to determine the mean molecular mass of a planetary atmosphere using pressure and temperature measurements made by an entry probe: Demonstration using Huygens data. 2007 , 55, 1959-1963		
534	Carbon isotopic enrichment in Titan's tholins? Implications for Titan's aerosols. 2007 , 55, 2010-2014		17
533	Near-surface winds at the Huygens site on Titan: Interpretation by means of a general circulation model. 2007 , 55, 1990-2009		26
532	Huygens Entry and descent through Titan's atmosphere Methodology and results of the trajectory reconstruction. 2007 , 55, 1845-1876		30
531	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. 2007 , 55, 2025-2036		146
530	A new numerical model for the simulation of ELF wave propagation and the computation of eigenmodes in the atmosphere of Titan: Did Huygens observe any Schumann resonance?. 2007 , 55, 1978-1989	40	
529	Titan atmosphere profiles from Huygens engineering (temperature and acceleration) sensors. 2007 , 55, 1949-1958		3
528	DISR imaging and the geometry of the descent of the Huygens probe within Titan's atmosphere. 2007 , 55, 1896-1935		66
527	A method to determine the atmospheric temperature profile from in situ pressure data: Application to Titan. 2007 , 55, 2071-2076		
526	The lakes of Titan. <i>Nature</i> , 2007 , 445, 61-4	50.4	418
525	What Cassini-Huygens has revealed about Titan. 2007 , 48, 2.14-2.20		7
524	Hydrocarbon lakes on Titan. <i>Icarus</i> , 2007 , 186, 385-394	3.8	148
523	Atmospheric acoustics of Titan, Mars, Venus, and Earth. <i>Icarus</i> , 2007 , 186, 413-419	3.8	29
522	An experimental study of the reaction kinetics of $C_2(X^1\Sigma^+)$ with hydrocarbons (CH_4 , C_2H_2 , C_2H_4 , C_2H_6 and C_3H_8) over the temperature range 2400 K: Implications for the atmospheres of Titan and the Giant Planets. <i>Icarus</i> , 2007 , 187, 558-568	3.8	42
521	A Schumann-like resonance on Titan driven by Saturn's magnetosphere possibly revealed by the Huygens Probe. <i>Icarus</i> , 2007 , 191, 251-266	3.8	42
520	The 2003 November 14 occultation by Titan of TYC 1343-1865-1. <i>Icarus</i> , 2007 , 192, 503-518	3.8	9

519	Titan's hydrodynamically escaping atmosphere. <i>Icarus</i> , 2008 , 193, 588-594	3.8	72
518	The problems with acoustics on a small planet. <i>Icarus</i> , 2008 , 193, 649-652	3.8	9
517	Astrobiology and habitability of Titan. <i>Space Science Reviews</i> , 2008 , 135, 37-48	7.5	42
516	Updated Review of Planetary Atmospheric Electricity. <i>Space Science Reviews</i> , 2008 , 137, 29-49	7.5	40
515	Neutral Atmospheres. <i>Space Science Reviews</i> , 2008 , 139, 191-234	7.5	24
514	Influence of high abundances of aerosols on the electrical conductivity of the Titan atmosphere. 2008 , 56, 19-26		35
513	Titan's surface from the Cassini RADAR radiometry data during SAR mode. 2008 , 56, 100-108		12
512	Coupling photochemistry with haze formation in Titan's atmosphere, Part I: Model description. 2008 , 56, 27-66		215
511	Coupling photochemistry with haze formation in Titan's atmosphere, Part II: Results and validation with Cassini/Huygens data. 2008 , 56, 67-99		266
510	Huygens probe entry trajectory and attitude estimated simultaneously with Titan atmospheric structure by Kalman filtering. 2008 , 56, 573-585		19
509	The Huygens scientific data archive: Technical overview. 2008 , 56, 770-777		3
508	New laboratory measurements of CH ₄ in Titan's conditions and a reanalysis of the DISR near-surface spectra at the Huygens landing site. 2008 , 56, 613-623		19
507	Analysis of the HASI accelerometers data measured during the impact phase of the Huygens probe on the surface of Titan by means of a simulation with a finite-element model. 2008 , 56, 715-727		12
506	The reflectance spectrum of Titan's surface at the Huygens landing site determined by the descent imager/spectral radiometer. 2008 , 56, 753-769		32
505	Heat balance in Titan's atmosphere. 2008 , 56, 648-659		74
504	Rain and hail can reach the surface of Titan. 2008 , 56, 346-357		74
503	Reconstruction of the trajectory of the Huygens probe using the Huygens Atmospheric Structure Instrument (HASI). 2008 , 56, 586-600		10
502	Huygens probe entry dynamic model and accelerometer data analysis. 2008 , 56, 601-612		13

501	Sensitivity of a Titan ionospheric model to the ion-molecule reaction parameters. 2008 , 56, 1644-1657		50
500	Epistemic bimodality and kinetic hypersensitivity in photochemical models of Titan's atmosphere. 2008 , 56, 1630-1643		23
499	The role of organic haze in Titan's atmospheric chemistry: I. Laboratory investigation on heterogeneous reaction of atomic hydrogen with Titan tholin. <i>Icarus</i> , 2008 , 194, 186-200	3.8	54
498	Titan's middle-atmospheric temperatures and dynamics observed by the Cassini Composite Infrared Spectrometer. <i>Icarus</i> , 2008 , 194, 263-277	3.8	123
497	Titan's diverse landscapes as evidenced by Cassini RADAR's third and fourth looks at Titan. <i>Icarus</i> , 2008 , 195, 415-433	3.8	58
496	The ¹² C/ ¹³ C isotopic ratio in Titan hydrocarbons from Cassini/CIRS infrared spectra. <i>Icarus</i> , 2008 , 195, 778-791	3.8	53
495	Evidence of electrical activity on Titan drawn from the Schumann resonances sent by Huygens probe. <i>Icarus</i> , 2008 , 195, 802-811	3.8	18
494	Removal of Titan's noble gases by their trapping in its haze. <i>Icarus</i> , 2008 , 196, 302-304	3.8	27
493	In situ thermal conductivity measurements of Titan's lower atmosphere. <i>Icarus</i> , 2008 , 197, 579-584	3.8	7
492	Diagnostics of Titan's stratospheric dynamics using Cassini/CIRS data and the 2-dimensional IPSL circulation model. <i>Icarus</i> , 2008 , 197, 556-571	3.8	41
491	The ion chemistry of methylenimine and propionitrile and their relevance to Titan. 2008 , 272, 86-90		10
490	The methane cycle on Titan. 2008 , 1, 159-164		98
489	Mapping and interpretation of Sinlap crater on Titan using Cassini VIMS and RADAR data. 2008 , 113,		54
488	The drying of Titan's dunes: Titan's methane hydrology and its impact on atmospheric circulation. 2008 , 113,		82
487	Horizontal structures and dynamics of Titan's thermosphere. 2008 , 113,		74
486	Comparative Aeronomy. <i>Space Sciences Series of ISSI</i> , 2008 ,	0.1	7
485	Origin of oxygen species in Titan's atmosphere. 2008 , 113,		113
484	Updated Review of Planetary Atmospheric Electricity. <i>Space Sciences Series of ISSI</i> , 2008 , 29-49	0.1	

483	Structure of Titan's low altitude ionized layer from the Relaxation Probe onboard HUYGENS. <i>Geophysical Research Letters</i> , 2008 , 35,	4-9	46
482	Titan's winter polar vortex structure revealed by chemical tracers. 2008 , 113,		51
481	Formation and distribution of benzene on Titan. 2008 , 113,		152
480	Evidence for the existence of supercooled ethane droplets under conditions prevalent in Titan's atmosphere. 2008 , 10, 6211-4		21
479	Dissociative recombination of fully deuterated protonated acetonitrile, CD ₃ CND ⁺ : product branching fractions, absolute cross section and thermal rate coefficient. 2008 , 10, 4014-9		28
478	Reaction mechanism of HCN ⁺ + C ₂ H ₄ : a theoretical study. 2008 , 112, 12252-62		6
477	Theoretical study of HCN(+) + C ₂ H ₂ reaction. 2008 , 112, 8188-97		2
476	Theoretical study of the reaction mechanism of HCN ⁺ and CH ₄ of relevance to Titan's ion chemistry. 2008 , 112, 2693-701		3
475	General relationships between pressure, weight and mass of a hydrostatic fluid. 2008 , 464, 943-950		5
474	Electrical properties of ions in the atmosphere of Titan. 2008 , 142, 012074		1
473	Isotopic Ratios in Titan's Atmosphere from Cassini CIRS Limb Sounding: CO ₂ at Low and Midlatitudes. <i>Astrophysical Journal</i> , 2008 , 681, L101-L103	4-7	34
472	Photochemical Enrichment of Deuterium in Titan's Atmosphere: New Insights from Cassini - Huygens. <i>Astrophysical Journal</i> , 2008 , 689, L61-L64	4-7	19
471	Titan's Tropical Storms in an Evolving Atmosphere. <i>Astrophysical Journal</i> , 2008 , 687, L41-L44	4-7	47
470	CHARACTERIZATION OF CLOUDS IN TITAN'S TROPICAL ATMOSPHERE. <i>Astrophysical Journal</i> , 2009 , 702, L105-L109	4-7	34
469	Fluid loading effects for acoustical sensors in the atmospheres of Mars, Venus, Titan, and Jupiter. 2009 , 125, EL214-9		9
468	Sputtering and heating of Titan's upper atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 753-71	3	19
467	Cassini/Huygens results on Titan's surface. 2009 , 9, 249-268		23
466	Thermodynamics in an icy world: The atmosphere and internal structure of Saturn's moon Titan. 2009 , 81, 1903-1920		6

465	TITAN'S SURFACE BRIGHTNESS TEMPERATURES. <i>Astrophysical Journal</i> , 2009 , 691, L103-L105	4.7	89
464	Cassini RADAR Sequence Planning and Instrument Performance. 2009 , 47, 1777-1795		21
463	Analysis of a cryolava flow-like feature on Titan. 2009 , 57, 870-879		24
462	Investigation of energetic proton penetration in Titan's atmosphere using the Cassini INCA instrument. 2009 , 57, 1538-1546		28
461	Titan at 3 microns: Newly identified spectral features and an improved analysis of haze opacity. <i>Icarus</i> , 2009 , 199, 449-457	3.8	16
460	Exploration of the Outer Solar System by Stellar Occultations. 2009 , 105, 201-208		4
459	Theoretical study on the ion-molecule reaction of HCN+ with NH ₃ . 2009 , 124, 409-420		1
458	Results from the Huygens probe on Titan. 2009 , 17, 149-179		22
457	A view of extraterrestrial soils. 2009 , 60, 1078-1092		11
456	Ethane aerosol phase evolution in Titan's atmosphere. <i>Icarus</i> , 2009 , 199, 564-567	3.8	11
455	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	3.8	95
454	Titan solar occultation observed by Cassini/VIMS: Gas absorption and constraints on aerosol composition. <i>Icarus</i> , 2009 , 201, 198-216	3.8	67
453	Shoreline features of Titan's Ontario Lacus from Cassini/VIMS observations. <i>Icarus</i> , 2009 , 201, 217-225	3.8	65
452	A photochemical model of Titan's atmosphere and ionosphere. <i>Icarus</i> , 2009 , 201, 226-256	3.8	267
451	The detached haze layer in Titan's mesosphere. <i>Icarus</i> , 2009 , 201, 626-633	3.8	64
450	Modeling chemical growth processes in Titan's atmosphere 2. Theoretical study of reactions between C ₂ H and ethene, propene, 1-butene, 2-butene, isobutene, trimethylethene, and tetramethylethene. <i>Icarus</i> , 2009 , 202, 642-655	3.8	29
449	Titan's hydrodynamically escaping atmosphere: Escape rates and the structure of the exobase region. <i>Icarus</i> , 2009 , 202, 632-641	3.8	58
448	Impact of seas/lakes on polar meteorology of Titan: Simulation by a coupled GCM-Sea model. <i>Icarus</i> , 2009 , 204, 619-636	3.8	52

447	New insights on Titan's plasma-driven Schumann resonance inferred from Huygens and Cassini data. 2009 , 57, 1872-1888	40	
446	A global climate model of Titan's atmosphere and surface. 2009 , 57, 1931-1949	37	
445	Thermally driven atmospheric escape: Monte Carlo simulations for Titan's atmosphere. 2009 , 57, 1889-1894	52	
444	Titan's prolific propane: The Cassini CIRS perspective. 2009 , 57, 1573-1585	49	
443	Huygens HASI servo accelerometer: A review and lessons learned. 2009 , 57, 1321-1333	13	
442	Evidence for condensed-phase methane enhancement over Xanadu on Titan. 2009 , 57, 1586-1595	11	
441	Heavy ion formation in Titan's ionosphere: Magnetospheric introduction of free oxygen and a source of Titan's aerosols?. 2009 , 57, 1547-1557	55	
440	Comparing methane and temperature profiles on Titan in 1980 and 2005. 2009 , 57, 1996-2000	6	
439	Titan's carbon budget and the case of the missing ethane. 2009 , 113, 11221-6	48	
438	¹² C/ ¹³ C ratio in ethane on titan and implications for methane's replenishment. 2009 , 113, 11101-6	20	
437	A semiempirical capture model for fast neutral reactions at low temperature. 2009 , 113, 13694-9	10	
436	Aerosols in Titan's Atmosphere. 2009 , 297-321	9	
435	Titan Atmospheric Density Reconstruction Using Cassini Guidance, Navigation, and Control Data. 2009 ,	9	
434	Neutral Atmospheres. <i>Space Sciences Series of ISSI</i> , 2008 , 191-234	0.1	
433	Gaseous reaction mechanism between two H(2)CN radicals. 2009 , 11, 4326-34		
432	The structure and dynamics of Titan's middle atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 649-64	3	24
431	An analysis of VLF electric field spectra measured in Titan's atmosphere by the Huygens probe. 2009 , 114,		3
430	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	15.3	68

429	Composition and chemistry of Titan's stratosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 683-95	3	24
428	The origin of Titan's atmosphere: some recent advances. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 607-15	3	20
427	Detection and mapping of hydrocarbon deposits on Titan. 2010 , 115,		135
426	ABOUT THE POSSIBLE ROLE OF HYDROCARBON LAKES IN THE ORIGIN OF TITAN'S NOBLE GAS ATMOSPHERIC DEPLETION. <i>Astrophysical Journal Letters</i> , 2010 , 721, L117-L120	7.9	15
425	SEASONAL CHANGES IN TITAN'S POLAR TRACE GAS ABUNDANCE OBSERVED BY CASSINI. <i>Astrophysical Journal Letters</i> , 2010 , 724, L84-L89	7.9	33
424	Convective cloud heights as a diagnostic for methane environment on Titan. <i>Icarus</i> , 2010 , 206, 467-484	3.8	29
423	Evidence for layered methane clouds in Titan's troposphere. <i>Icarus</i> , 2010 , 206, 787-790	3.8	14
422	Titan trace gaseous composition from CIRS at the end of the Cassini-Huygens prime mission. <i>Icarus</i> , 2010 , 207, 461-476	3.8	141
421	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titan's surface properties. <i>Icarus</i> , 2010 , 208, 366-384	3.8	8
420	Far-infrared opacity sources in Titan's troposphere reconsidered. <i>Icarus</i> , 2010 , 209, 854-857	3.8	13
419	Sounding of Titan's atmosphere at submillimeter wavelengths from an orbiting spacecraft. 2010 , 58, 1724-1739		19
418	A new approach for estimating Titan's electron conductivity based on data from relaxation probe sensors on the Huygens experiment. 2010 , 58, 1945-1952		8
417	Simulation of tides in hydrocarbon lakes on Saturn's moon Titan. 2010 , 60, 803-817		17
416	Exobiology and Planetary Protection of icy moons. <i>Space Science Reviews</i> , 2010 , 153, 511-535	7.5	12
415	Atmospheric/Exospheric Characteristics of Icy Satellites. <i>Space Science Reviews</i> , 2010 , 153, 155-184	7.5	30
414	Radiolysis and Photolysis of Icy Satellite Surfaces: Experiments and Theory. <i>Space Science Reviews</i> , 2010 , 153, 299-315	7.5	64
413	A new analysis of the ESO Very Large Telescope (VLT) observations of Titan at 2 μ m. 2010 , 58, 1708-1714		3
412	Attitude and angular rates of planetary probes during atmospheric descent: Implications for imaging. 2010 , 58, 838-846		11

411	Cloud formation along mountain ridges on Titan. 2010 , 58, 1740-1747		15
410	Methane absorption coefficients for the jovian planets from laboratory, Huygens, and HST data. <i>Icarus</i> , 2010 , 205, 674-694	3.8	114
409	A 3 km atmospheric boundary layer on Titan indicated by dune spacing and Huygens data. <i>Icarus</i> , 2010 , 205, 719-721	3.8	42
408	Chemical reactions in the Titanian troposphere during lightning. <i>Icarus</i> , 2010 , 207, 938-947	3.8	11
407	Molecular hydrogen in Titanian atmosphere: Implications of the measured tropospheric and thermospheric mole fractions. <i>Icarus</i> , 2010 , 208, 878-886	3.8	56
406	Observations of a stationary mid-latitude cloud system on Titan. <i>Icarus</i> , 2010 , 208, 868-877	3.8	17
405	Titanian atomic hydrogen corona. <i>Icarus</i> , 2010 , 210, 424-435	3.8	14
404	METHANE GAS STABILIZES SUPERCOOLED ETHANE DROPLETS IN TITAN'S CLOUDS. <i>Astrophysical Journal Letters</i> , 2010 , 712, L40-L43	7.9	11
403	Titan and the Cassini-Huygens mission. 489-506		
402	Energetic neutral atoms from Titan: Particle simulations in draped magnetic and electric fields. 2010 , 115, n/a-n/a		8
401	Chemical composition of simulated Titan's midatmospheric aerosols. 2010 , 115,		8
400	Simulating the one-dimensional structure of Titan's upper atmosphere: 2. Alternative scenarios for methane escape. 2010 , 115,		27
399	Composition of Titan's lower atmosphere and simple surface volatiles as measured by the Cassini-Huygens probe gas chromatograph mass spectrometer experiment. 2010 , 115,		313
398	Acceleration of electrons in Titan's ionosphere. 2010 , 115, n/a-n/a		2
397	Mapping Titan's HCN in the far infra-red: implications for photochemistry. 2010 , 147, 51-64; discussion 83-102		30
396	Fast ion-molecule reactions in planetary atmospheres: a semiempirical capture approach. 2010 , 147, 337-48; discussion 379-403		12
395	Upper limits for undetected trace species in the stratosphere of Titan. 2010 , 147, 65-81; discussion 83-102		33
394	Sounding the interior of Titan's lakes by using Micro-Electro-Mechanical Systems (MEMS). 2011 ,		

393	On the interaction of methyl azide (CH ₃ N ₃) ices with ionizing radiation: formation of methanimine (CH ₂ NH), hydrogen cyanide (HCN), and hydrogen isocyanide (HNC). 2011 , 115, 250-64		26
392	Titan's thermospheric response to various plasma environments. 2011 , 116,		67
391	The production of Titan's ultraviolet nitrogen airglow. 2011 , 116,		48
390	Simulating the one-dimensional structure of Titan's upper atmosphere: 3. Mechanisms determining methane escape. 2011 , 116,		24
389	The evolution of Titan's detached haze layer near equinox in 2009. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	41
388	The search for Titan lightning radio emissions. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
387	Encyclopedia of Astrobiology. 2011 , 721-722		
386	Encyclopedia of Astrobiology. 2011 , 397-401		
385	SEASONAL CHANGES IN TITAN'S SURFACE TEMPERATURES. <i>Astrophysical Journal Letters</i> , 2011 , 737, L15	7.9	28
384	The Atmosphere and Internal Structure of Saturn's Moon Titan, a Thermodynamic Study. 2011 ,		
383	A LEO Nano-Satellite Mission for the Detection of Lightning VHF Sferics. 2011 ,		1
382	DUAL ORIGIN OF AEROSOLS IN TITAN'S DETACHED HAZE LAYER. <i>Astrophysical Journal Letters</i> , 2011 , 741, L32	7.9	14
381	First detection of hydrogen isocyanide (HNC) in Titan's atmosphere. <i>Astronomy and Astrophysics</i> , 2011 , 536, L12	5.1	35
380	First results of Herschel-SPIRE observations of Titan. <i>Astronomy and Astrophysics</i> , 2011 , 536, L2	5.1	27
379	Preliminary assignments of 2 ν_2 hot band of 12CH ₄ in the 2 μ m transparency window from long-path FTS spectra. 2011 , 268, 93-93		18
378	Analysis of Titan CH ₄ 3.3 μ m upper atmospheric emission as measured by Cassini/VIMS. <i>Icarus</i> , 2011 , 214, 571-583	3.8	20
377	Distribution of HCN in Titan's upper atmosphere from Cassini/VIMS observations at 3 μ m. <i>Icarus</i> , 2011 , 214, 584-595	3.8	24
376	Condensation in Titan's atmosphere at the Huygens landing site. <i>Icarus</i> , 2011 , 215, 732-750	3.8	52

375	The structure of Titan's atmosphere from Cassini radio occultations. <i>Icarus</i> , 2011 , 215, 460-474	3.8	39
374	Titan's cloud seasonal activity from winter to spring with Cassini/VIMS. <i>Icarus</i> , 2011 , 216, 89-110	3.8	63
373	The mesosphere and lower thermosphere of Titan revealed by Cassini/UVIS stellar occultations. <i>Icarus</i> , 2011 , 216, 507-534	3.8	103
372	Development of a model to compute the extension of life supporting zones for Earth-like exoplanets. 2011 , 41, 545-52		6
371	Titan impacts and escape. <i>Icarus</i> , 2011 , 211, 707-721	3.8	8
370	The composition of liquid methane-nitrogen aerosols in Titan's lower atmosphere from Monte Carlo simulations. <i>Icarus</i> , 2011 , 212, 779-789	3.8	12
369	Cassini SAR, radiometry, scatterometry and altimetry observations of Titan's dune fields. <i>Icarus</i> , 2011 , 213, 608-624	3.8	69
368	Concept options for the aerial survey of Titan. 2011 , 47, 1-19		12
367	The near-IR spectrum of Titan modeled with an improved methane line list. <i>Icarus</i> , 2011 , 213, 218-232	3.8	28
366	Titan's new pole: Implications for the Huygens entry and descent trajectory and landing coordinates. 2011 , 47, 1622-1632		5
365	First assignment of the 5 μ and 4+4 μ band systems of 12CH ₄ in the 6287-6550 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 28-40	2.1	59
364	Retrieval and tentative identification of the 3 μ m spectral feature in Titan's haze. 2011 , 59, 699-704		32
363	The influence of methane, acetylene and carbon dioxide on the crystallization of supercooled ethane droplets in Titan's clouds. 2011 , 59, 722-732		10
362	Titan under a red dwarf star and as a rogue planet: requirements for liquid methane. 2011 , 59, 835-839		24
361	On the strong and selective isotope effect in the UV excitation of N ₂ with implications toward the nebula and Martian atmosphere. 2011 , 108, 6020-5		43
360	A model for the vertical sound speed and absorption profiles in Titan's atmosphere based on Cassini-Huygens data. 2012 , 131, 3671-9		13
359	Hydrogen and methane in Titan's atmosphere: chemistry, diffusion, escape, and the Hunten limiting flux principle 1This article is part of a Special Issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December 2010 after a very illustrious career.. 2012 , 90, 795-805		22
358	Two boundary layers in Titan's lower troposphere inferred from a climate model. 2012 , 5, 106-109		33

357	USING SCHUMANN RESONANCE MEASUREMENTS FOR CONSTRAINING THE WATER ABUNDANCE ON THE GIANT PLANETS IMPLICATIONS FOR THE SOLAR SYSTEM'S FORMATION. <i>Astrophysical Journal</i> , 2012 , 750, 85	4-7	9
356	THERMAL AND CHEMICAL STRUCTURE VARIATIONS IN TITAN'S STRATOSPHERE DURING THE CASSINI MISSION. <i>Astrophysical Journal</i> , 2012 , 760, 144	4-7	23
355	THE ¹² C/ ¹³ C RATIO ON TITAN FROM CASSINI INMS MEASUREMENTS AND IMPLICATIONS FOR THE EVOLUTION OF METHANE. <i>Astrophysical Journal</i> , 2012 , 749, 160	4-7	54
354	Cassini UVIS observations of Titan nightglow spectra. 2012 , 117, n/a-n/a		22
353	Ion imaging study of reaction dynamics in the N ⁺ + CH ₄ system. 2012 , 137, 154312		15
352	The Opportunities and Challenges in the Use of Extra-Terrestrial Acoustics in the Exploration of the Oceans of Icy Planetary Bodies. 2012 , 109, 91-116		4
351	The Huygens surface science package (SSP): Flight performance review and lessons learned. 2012 , 70, 28-45		11
350	Bimolecular rate constant and product branching ratio measurements for the reaction of C ₂ H with ethene and propene at 79 K. 2012 , 116, 3907-17		28
349	WITHDRAWN: Compositional Effects in Titan's Thermospheric Gravity Waves. <i>Geophysical Research Letters</i> , 2012 , 39,	4-9	
348	The abundance of H ₂ in Titan's troposphere from the Cassini CIRS investigation. 2012 , 69, 89-99		21
347	Robotic lake lander test bed for autonomous surface and subsurface exploration of Titan lakes. 2012 ,		2
346	Mountain torque and its influence on the atmospheric angular momentum on Titan. <i>Icarus</i> , 2012 , 220, 863-876	3-8	6
345	Mechanism for the formation of benzene in the Titan's atmosphere: A theoretical study on the mechanism of reaction. 2012 , 991, 66-73		5
344	Life in the Saturnian Neighborhood. 2012 , 485-522		
343	Optical reflectivity of solid and liquid methane: Application to spectroscopy of Titan's hydrocarbon lakes. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4-9	3
342	Estimating erosional exhumation on Titan from drainage network morphology. 2012 , 117, n/a-n/a		31
341	The CH ₄ structure in Titan's upper atmosphere revisited. 2012 , 117, n/a-n/a		53
340	Mid- and far-infrared absorption spectroscopy of Titan's aerosols analogues. <i>Icarus</i> , 2012 , 221, 320-327	3-8	55

339	The abundance, vertical distribution and origin of H ₂ O in Titan's atmosphere: Herschel observations and photochemical modelling. <i>Icarus</i> , 2012 , 221, 753-767	3.8	50
338	Large Habitable Moons. 175-200		3
337	AN ANALYTIC RADIATIVE-CONVECTIVE MODEL FOR PLANETARY ATMOSPHERES. <i>Astrophysical Journal</i> , 2012 , 757, 104	4.7	71
336	Measurements of Atmospheric Electricity Aloft. 2012 , 33, 991-1057		37
335	Titan global climate model: A new 3-dimensional version of the IPSL Titan GCM. <i>Icarus</i> , 2012 , 218, 707-722	3.8	122
334	Production of N ₂ Vegard-Kaplan and other triplet band emissions in the dayglow of Titan. <i>Icarus</i> , 2012 , 218, 989-1005	3.8	13
333	An empirical line list for methane in the 1.26-1.71 μ m region for planetary investigations (T=80-300K). Application to Titan. <i>Icarus</i> , 2012 , 219, 110-128	3.8	55
332	Observation of the linear C ₂ H ₂ -N ₂ van der Waals complex in the 2CH range using CW-CRDS. 2012 , 530, 31-34		6
331	Frequency-stabilized cavity ring-down spectroscopy. 2012 , 536, 1-8		63
330	Spatial and temporal variations in Titan's surface temperatures from Cassini CIRS observations. 2012 , 60, 62-71		54
329	A despeckle filter for the Cassini synthetic aperture radar images of Titan's surface. 2012 , 61, 108-113		1
328	Dissipation of Titan's north polar cloud at northern spring equinox. 2012 , 60, 86-92		30
327	Applications of a new set of methane line parameters to the modeling of Titan's spectrum in the 1.58 μ m window. 2012 , 61, 85-98		89
326	Titan's lakes chemical composition: Sources of uncertainties and variability. 2012 , 61, 99-107		32
325	The reflectivity spectrum and opposition effect of Titan's surface observed by Huygens' DISR spectrometers. 2012 , 60, 342-355		13
324	The surface energy balance at the Huygens landing site and the moist surface conditions on Titan. 2012 , 60, 376-385		25
323	AVIATR - Aerial Vehicle for In-situ and Airborne Titan Reconnaissance. <i>Experimental Astronomy</i> , 2012 , 33, 55-127	1.3	35
322	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. 2013 , 2,		37

321	Titan's surface and atmosphere from Cassini/VIMS data with updated methane opacity. <i>Icarus</i> , 2013 , 226, 470-486	3.8	88
320	Saturn's thermal emission at 2.2-cm wavelength as imaged by the Cassini RADAR radiometer. <i>Icarus</i> , 2013 , 226, 522-535	3.8	41
319	Does ice float in Titan's lakes and seas?. <i>Icarus</i> , 2013 , 223, 628-631	3.8	13
318	Titan's atmosphere and surface liquid: New calculation using Statistical Associating Fluid Theory. <i>Icarus</i> , 2013 , 222, 53-72	3.8	53
317	Equation of state for solid solution-liquid-vapor equilibria at cryogenic conditions. 2013 , 360, 320-331		10
316	A geological characterization of Ligeia Mare in the northern polar region of Titan. 2013 , 84, 141-147		15
315	Can laboratory tholins mimic the chemistry producing Titan's aerosols? A review in light of ACP experimental results. 2013 , 77, 91-103		42
314	A model of variability in Titan's atmospheric structure. 2013 , 86, 45-56		11
313	A facility for simulating Titan's environment. 2013 , 51, 1213-1220		11
312	Influence of the Aerosol-Size Spread on Dissipative Instability of Aerosol Flows in the Planetary Atmospheres. II. Atmospheres of Mars and Titan. 2013 , 56, 422-432		1
311	Preliminary modeling of CH ₃ D from 4000 to 4550cm ⁻¹ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 114, 1-12	2.1	32
310	Cryovolcanism on Titan: New results from Cassini RADAR and VIMS. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 416-435	4.1	98
309	Upper limits for PH ₃ and H ₂ S in Titan's atmosphere from Cassini CIRS. <i>Icarus</i> , 2013 , 224, 253-256	3.8	11
308	The thermal structure of Titan's upper atmosphere, I: Temperature profiles from Cassini INMS observations. <i>Icarus</i> , 2013 , 226, 552-582	3.8	62
307	A geochemical model of non-ideal solutions in the methane-ethane-propane-nitrogen-acetylene system on Titan. 2013 , 115, 217-240		49
306	Morphotectonic features on Titan and their possible origin. 2013 , 77, 104-117		16
305	CRITICAL REVIEW OF N, N + , N + 2 , N ++ , And N ++ 2 MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2013 , 204, 20	8	89
304	Infrared spectroscopy and phase behavior of n-butane aerosols and thin films at cryogenic temperatures. 2013 , 117, 11745-59		4

303	Constraints on Titan's middle atmosphere ammonia abundance from Herschel/SPIRE sub-millimetre spectra. 2013 , 75, 136-147		42
302	Ion imaging study of dissociative charge transfer in the N ₂ (+) + CH ₄ system. 2013 , 138, 124304		9
301	Plumbing the depths of Ligeia: considerations for depth sounding in Titan's hydrocarbon seas. 2013 , 134, 4335		15
300	Self-assembly of tholins in environments simulating Titan liquidospheres: implications for formation of primitive coacervates on Titan. 2013 , 12, 282-291		7
299	SOLAR OCCULTATION BY TITAN MEASURED BY CASSINI /UVIS. <i>Astrophysical Journal Letters</i> , 2013 , 766, L16	7.9	8
298	A TRANSMISSION SPECTRUM OF TITAN'S NORTH POLAR ATMOSPHERE FROM A SPECULAR REFLECTION OF THE SUN. <i>Astrophysical Journal</i> , 2013 , 777, 161	4.7	18
297	Amino acid precursors from a simulated lower atmosphere of titan: experiments of cosmic ray energy source with ¹³ C- and ¹⁵ N-stable isotope probing mass spectrometry. 2013 , 29, 777-85		6
296	Compositional effects in Titan's thermospheric gravity waves. <i>Geophysical Research Letters</i> , 2013 , 40, 43-47	4.9	8
295	Atmospheric Prebiotic Chemistry and Organic Hazes. 2013 , 17, 1710-1723		38
294	Quantum Tunnelling to the Origin and Evolution of Life. 2013 , 17, 1758-1770		35
293	The genesis of Cassini-Huygens. 10-21		
292	Thermal structure of Titan's troposphere and middle atmosphere. 102-121		1
291	The composition of Titan's atmosphere. 158-189		9
290	Storms, clouds, and weather. 190-223		6
289	Chemistry of Titan's atmosphere. 224-284		17
288	Titan's upper atmosphere: thermal structure, dynamics, and energetics. 322-354		2
287	Titan's ionosphere. 376-418		11
286	Titan's upper atmosphere/exosphere, escape processes, and rates. 355-375		6

285	The atypical generation mechanism of Titan's Schumann resonance. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 520-531	4.1	6
284	A time-dependent photochemical model for Titan's atmosphere and the origin of H ₂ O. <i>Astronomy and Astrophysics</i> , 2014 , 566, A143	5.1	19
283	Surface albedo spectral properties of geologically interesting areas on Titan. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 1729-1747	4.1	27
282	Titan's emission processes during eclipse. <i>Icarus</i> , 2014 , 241, 397-408	3.8	6
281	Instruments on board of space missions. 2014 ,		
280	The exploration of Titan with an orbiter and a lake probe. 2014 , 104, 78-92		23
279	Science goals and mission concept for the future exploration of Titan and Enceladus. 2014 , 104, 59-77		12
278	ANALYTICAL SOLUTION FOR WAVES IN PLANETS WITH ATMOSPHERIC SUPERROTATION. II. LAMB, SURFACE, AND CENTRIFUGAL WAVES. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 213, 18	8	29
277	A non-monotonic eddy diffusivity profile of Titan's atmosphere revealed by Cassini observations. 2014 , 104, 48-58		19
276	Response of granular media to rapid penetration. 2014 , 66, 60-82		84
275	Measurements and modeling of long-path 12CH ₄ spectra in the 4800-300 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 138, 116-123	2.1	27
274	The distribution of methane in Titan's stratosphere from Cassini/CIRS observations. <i>Icarus</i> , 2014 , 231, 323-337	3.8	36
273	Effect of the Synthesis Temperature on the Optical Indices of Organic Materials Produced by N ₂ /CH ₄ RF Plasma. 2014 , 11, 409-417		9
272	Non-uniform global methane distribution in Titan's troposphere evidenced by Cassini radio occultations. <i>Icarus</i> , 2014 , 231, 1-12	3.8	8
271	Structural and tidal models of Titan and inferences on cryovolcanism. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 1013-1036	4.1	32
270	ALMA MEASUREMENTS OF THE HNC AND HC ₃ N DISTRIBUTIONS IN TITAN'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2014 , 795, L30	7.9	39
269	The Titan Haze Simulation experiment on COSMIC: Probing Titan's atmospheric chemistry at low temperature. <i>Icarus</i> , 2014 , 243, 325-336	3.8	23
268	Dissolution of benzene, naphthalene, and biphenyl in a simulated Titan lake. <i>Icarus</i> , 2014 , 242, 74-81	3.8	38

267	Simulations of Titan's paleoclimate. <i>Icarus</i> , 2014 , 243, 264-273	3.8	36
266	The methane mole fraction in Titan's stratosphere from DISR measurements during the Huygens probe's descent. <i>Icarus</i> , 2014 , 242, 64-73	3.8	38
265	Subsidence-induced methane clouds in Titan's winter polar stratosphere and upper troposphere. <i>Icarus</i> , 2014 , 243, 129-138	3.8	19
264	Gravity waves in Titan's lower stratosphere from Huygens probe in situ temperature measurements. <i>Icarus</i> , 2014 , 227, 49-55	3.8	11
263	Spectroscopic studies of non-volatile residue formed by photochemistry of solid C ₄ N ₂ : A model of condensed aerosol formation on Titan. <i>Icarus</i> , 2014 , 234, 81-90	3.8	18
262	Revisited modeling of Titan's middle atmosphere electrical conductivity. <i>Icarus</i> , 2014 , 238, 230-234	3.8	21
261	THE HIGH-RESOLUTION EXTREME-ULTRAVIOLET SPECTRUM OF N ₂ BY ELECTRON IMPACT. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 28	8	20
260	Developing a self-consistent description of Titan's upper atmosphere without hydrodynamic escape. 2014 , 119, 4957-4972		30
259	Herschel/PACS spectroscopy of trace gases of the stratosphere of Titan. <i>Astronomy and Astrophysics</i> , 2014 , 561, A4	5.1	27
258	Density waves in Titan's upper atmosphere. 2014 , 119, 490-518		14
257	HST observations of the limb polarization of Titan. <i>Astronomy and Astrophysics</i> , 2014 , 572, A6	5.1	5
256	Adding Missed Science to Cassini's Ops Plan. 2014 ,		
255	VERTICAL DISTRIBUTION OF C ₃ -HYDROCARBONS IN THE STRATOSPHERE OF TITAN. <i>Astrophysical Journal Letters</i> , 2015 , 803, L19	7.9	22
254	An efficient method for energy levels calculation using full symmetry and exact kinetic energy operator: tetrahedral molecules. 2015 , 142, 094118		31
253	Assessing the Ecophysiology of Methanogens in the Context of Recent Astrobiological and Planetological Studies. 2015 , 5, 1652-86		45
252	Environmental control of deep convective clouds on Titan: The combined effect of CAPE and wind shear on storm dynamics, morphology, and lifetime. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 739-759	4.1	13
251	Polymerization of Building Blocks of Life on Europa and Other Icy Moons. <i>Astrobiology</i> , 2015 , 15, 430-413.7	3.7	17
250	Solar System Exploration Augmented by In-Situ Resource Utilization: Human Mercury and Saturn Exploration. 2015 ,		

249	An empirical approach to modeling ion production rates in Titan's ionosphere II: Ion production rates on the nightside. 2015 , 120, 1281-1298		14
248	The Cassini-Huygens Visit to Saturn. 2015 ,		6
247	Noble gases, nitrogen, and methane from the deep interior to the atmosphere of Titan. <i>Icarus</i> , 2015 , 250, 570-586	3.8	33
246	A Revised Sensitivity Model for Cassini INMS: Results at Titan. <i>Space Science Reviews</i> , 2015 , 190, 47-84	7.5	44
245	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. <i>Astrophysical Journal Letters</i> , 2015 , 800, L14	7.9	59
244	Instrumentation for Planetary Exploration Missions. 2015 , 719-755		2
243	GCM simulations of Titan's middle and lower atmosphere and comparison to observations. <i>Icarus</i> , 2015 , 250, 516-528	3.8	77
242	Electron-molecule chemistry and charging processes on organic ices and Titan's icy aerosol surrogates. <i>Icarus</i> , 2015 , 258, 109-119	3.8	6
241	Solvation of nitrogen compounds in Titan's seas, precipitates, and atmosphere. <i>Icarus</i> , 2015 , 256, 1-12	3.8	15
240	N ₂ -broadening coefficients of CH ₃ CN rovibrational lines and their temperature dependence for the Earth and Titan atmospheres. <i>Icarus</i> , 2015 , 256, 30-36	3.8	8
239	Methane storms as a driver of Titan's dune orientation. 2015 , 8, 362-366		44
238	Methane high-temperature partition function from contact transformations and variational calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 167, 53-63	2.1	18
237	WITHDRAWN: Emergent model for predicting the average surface temperature of rocky planets with diverse atmospheres. 2015 ,		3
236	. 2015 ,		0
235	Linewidths and temperature exponents of CH ₃ CN-N ₂ . 2015 ,		
234	TITAN'S UPPER ATMOSPHERE FROM CASSINI/UVIS SOLAR OCCULTATIONS. <i>Astrophysical Journal</i> , 2015 , 814, 86	4.7	17
233	Titan's liquids: Exotic behavior and its implications on global fluid circulation. <i>Icarus</i> , 2015 , 250, 64-75	3.8	35
232	Seasonal variations in Titan's middle atmosphere during the northern spring derived from Cassini/CIRS observations. <i>Icarus</i> , 2015 , 250, 95-115	3.8	78

231	CH ₃ CN self-broadening coefficients and their temperature dependences for the Earth and Titan atmospheres. <i>Icarus</i> , 2015 , 250, 76-82	3.8	11
230	Titan atmosphere as observed by Cassini/VIMS solar occultations: CH ₄ , CO and evidence for C ₂ H ₆ absorption. <i>Icarus</i> , 2015 , 248, 1-24	3.8	50
229	Self-consistent modeling of induced magnetic field in Titan atmosphere accounting for the generation of Schumann resonance. <i>Icarus</i> , 2015 , 247, 126-136	3.8	3
228	The Climate of Titan. <i>Annual Review of Earth and Planetary Sciences</i> , 2016 , 44, 353-380	15.3	44
227	Electrical properties and porosity of the first meter of the nucleus of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016 , 591, A32	5.1	28
226	THE VARIABILITY OF HCN IN TITAN UPPER ATMOSPHERE AS IMPLIED BY THE CASSINI ION-NEUTRAL MASS SPECTROMETER MEASUREMENTS. <i>Astrophysical Journal Letters</i> , 2016 , 826, L5	7.9	7
225	Planetary space weather: scientific aspects and future perspectives. 2016 , 6, A31		28
224	Vertical structure and optical properties of Titan aerosols from radiance measurements made inside and outside the atmosphere. <i>Icarus</i> , 2016 , 270, 355-375	3.8	37
223	Meridional variation in tropospheric methane on Titan observed with AO spectroscopy at Keck and VLT. <i>Icarus</i> , 2016 , 270, 376-388	3.8	21
222	Measurements and modeling of cold ¹³ CH ₄ spectra in the 3750-700 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 174, 88-100	2.1	18
221	Titan meridional wind profile and Huygens orientation and swing inferred from the geometry of DISR imaging. <i>Icarus</i> , 2016 , 270, 326-338	3.8	12
220	Numerical study of tides in Ontario Lacus, a hydrocarbon lake on the surface of the Saturnian moon Titan. 2016 , 66, 461-482		6
219	Nature, distribution, and origin of Titan Undifferentiated Plains. <i>Icarus</i> , 2016 , 270, 162-182	3.8	38
218	Ancient micrometeorites suggestive of an oxygen-rich Archaean upper atmosphere. <i>Nature</i> , 2016 , 533, 235-8	50.4	32
217	Global energy budgets and Trenberth diagrams for the climates of terrestrial and gas giant planets. 2016 , 142, 703-720		23
216	The electrical properties of Titan surface at the Huygens landing site measured with the PWA/ASI Mutual Impedance Probe. New approach and new findings. <i>Icarus</i> , 2016 , 270, 272-290	3.8	10
215	Near-infrared spectra of liquid/solid acetylene under Titan relevant conditions and implications for Cassini/VIMS detections. <i>Icarus</i> , 2016 , 270, 429-434	3.8	4
214	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016 , 270, 130-161	3.8	30

213	Titan-like exoplanets: Variations in geometric albedo and effective transit height with haze production rate. 2016 , 129, 1-12		6
212	The 6 μ m spectrum of Titan from ISO/SWS observations. <i>Icarus</i> , 2016 , 270, 389-398	3.8	2
211	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	3.8	68
210	The Hera Saturn entry probe mission. 2016 , 130, 80-103		22
209	Access of energetic particles to Titan's exobase: A study of Cassini's T9 flyby. 2016 , 130, 40-53		18
208	Physico-chemical models of the internal structure of partially differentiated Titan. 2016 , 54, 27-47		11
207	Solar System Exploration Augmented by In-Situ Resource Utilization: Mercury and Saturn Propulsion Investigations. 2016 ,		0
206	Possible ground fog detection from SLI imagery of Titan. <i>Icarus</i> , 2016 , 271, 269-278	3.8	1
205	Sublimation of ice-holins mixtures: A morphological and spectro-photometric study. <i>Icarus</i> , 2016 , 266, 288-305	3.8	29
204	Simulating Titan's methane cycle with the TitanWRF General Circulation Model. <i>Icarus</i> , 2016 , 267, 106-134	3.8	27
203	Analyses and modeling of the ¹² CH ₄ spectrum at 80 K between 6539 and 6800 cm ⁻¹ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 168, 207-216	2.1	20
202	Optimizing multidisciplinary scaled tests in terrestrial atmosphere for extraterrestrial unmanned aerial vehicle missions. 2016 , 230, 77-89		1
201	Observations of the surface of Titan by the Radar Altimeters on the Huygens Probe. <i>Icarus</i> , 2016 , 270, 248-259	3.8	2
200	SURFACE TEMPERATURES ON TITAN DURING NORTHERN WINTER AND SPRING. <i>Astrophysical Journal Letters</i> , 2016 , 816, L17	7.9	40
199	Temporal variations of Titan's surface with Cassini/VIMS. <i>Icarus</i> , 2016 , 270, 85-99	3.8	24
198	Solar System Exploration Augmented by In-Situ Resource Utilization: Human Planetary Base Issues for Mercury and Saturn. 2017 ,		1
197	Modeling survey of ices in Titan's stratosphere. 2017 , 137, 20-31		23
196	Nitrogen condensation in Titan's atmosphere under contemporary atmospheric composition. <i>Icarus</i> , 2017 , 289, 120-133	3.8	2

195	Lightning detection in planetary atmospheres. 2017 , 72, 46-50		7
194	Titan's atmosphere and climate. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 432-482	4.1	148
193	Laboratory measurements of nitrogen dissolution in Titan lake fluids. <i>Icarus</i> , 2017 , 289, 94-105	3.8	26
192	Titan brighter at twilight than in daylight. 2017 , 1,		15
191	Acetonitrile cluster solvation in a cryogenic ethane-methane-propane liquid: Implications for Titan lake chemistry. 2017 , 146, 104308		4
190	Bubble streams in Titan's seas as a product of liquid N ₂ + CH ₄ + C ₂ H ₆ cryogenic mixture. 2017 , 1,		19
189	The Titan Haze Simulation (THS) experiment on COSmIC. Part II. Ex-situ analysis of aerosols produced at low temperature. <i>Icarus</i> , 2017 , 289, 214-226	3.8	27
188	A whiff of nebular gas in Titan's atmosphere [Potential implications for the conditions and timing of Titan's formation. <i>Icarus</i> , 2017 , 293, 231-242	3.8	7
187	Comparative planetary nitrogen atmospheres: Density and thermal structures of Pluto and Triton. <i>Icarus</i> , 2017 , 291, 55-64	3.8	43
186	Experimental reflectance study of methane and ethane ice at Titan's surface conditions. 2017 , 362, 1		
185	ALMA detection and astrobiological potential of vinyl cyanide on Titan. 2017 , 3, e1700022		38
184	Far-infrared Spectroscopic Characterization of Anti-vinyl Alcohol. <i>Astrophysical Journal</i> , 2017 , 847, 67	4.7	10
183	AtmosPerf: A Numeric Method to Evaluate Autonomous Gliders for Exploration of Outer Solar System Atmospheres. 2017 ,		
182	Measurements and modeling of long-path 12CH ₄ spectra in the 5300-5500 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 202, 255-264	2.1	19
181	The formation and evolution of Titan's winter polar vortex. 2017 , 8, 1586		31
180	Mapping Vinyl Cyanide and Other Nitriles in Titan's Atmosphere Using ALMA. <i>Astronomical Journal</i> , 2017 , 154, 206	4.9	16
179	CO concentration in the upper stratosphere and mesosphere of Titan from VIMS dayside limb observations at 4.7 μm. <i>Icarus</i> , 2017 , 293, 119-131	3.8	3
178	The effect of adsorbed liquid and material density on saltation threshold: Insight from laboratory and wind tunnel experiments. <i>Icarus</i> , 2017 , 297, 97-109	3.8	7

177	The near-surface methane humidity on Titan. <i>Icarus</i> , 2017 , 286, 270-279	3.8	21
176	Upper Atmospheres and Ionospheres of Planets and Satellites. 2017 , 1-26		
175	New Insights on the Physical Nature of the Atmospheric Greenhouse Effect Deduced from an Empirical Planetary Temperature Model. 2017 , 01,		3
174	SEASONAL EVOLUTION OF TITAN'S STRATOSPHERE NEAR THE POLES. <i>Astrophysical Journal Letters</i> , 2018 , 854,	7.9	32
173	Electrical Properties of Tholins and Derived Constraints on the Huygens Landing Site Composition at the Surface of Titan. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 807-822	4.1	2
172	Geological Evolution of Titan's Equatorial Regions: Possible Nature and Origin of the Dune Material. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1089-1112	4.1	20
171	Retrieval of H ₂ O abundance in Titan's stratosphere: A (re)analysis of CIRS/Cassini and PACS/Herschel observations. <i>Icarus</i> , 2018 , 311, 288-305	3.8	4
170	Aerosols: The key to understanding Titan's lower ionosphere. 2018 , 153, 157-162		5
169	The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 489-507	4.1	27
168	Seasonal radiative modeling of Titan's stratospheric temperatures at low latitudes. <i>Icarus</i> , 2018 , 302, 437-450	3.8	17
167	Transparency of 2 μ m window of Titan's atmosphere. 2018 , 151, 109-124		4
166	New accurate theoretical line lists of 12CH ₄ and 13CH ₄ in the 0-3400 μ m range: Application to the modeling of methane absorption in Titan's atmosphere. <i>Icarus</i> , 2018 , 303, 114-130	3.8	33
165	Supersaturation on Pluto and elsewhere. <i>Icarus</i> , 2018 , 312, 36-44	3.8	9
164	Strategies for Detecting Biological Molecules on Titan. <i>Astrobiology</i> , 2018 , 18, 571-585	3.7	20
163	Temperature, Clouds, and Aerosols in the Terrestrial Bodies of the Solar System. 2018 , 1-29		
162	The seasonal cycle of Titan's detached haze. 2018 , 2, 495-500		13
161	Scientific rationale for Uranus and Neptune in situ explorations. 2018 , 155, 12-40		48
160	Behaviour of solid phase ethyl cyanide in simulated conditions of Titan. <i>Icarus</i> , 2018 , 300, 477-485	3.8	8

159	Large catchment area recharges Titan's Ontario Lacus. <i>Icarus</i> , 2018 , 299, 331-338	3.8	12
158	Spatial variations in Titan's atmospheric temperature: ALMA and Cassini comparisons from 2012 to 2015. <i>Icarus</i> , 2018 , 307, 380-390	3.8	14
157	Dating very young planetary surfaces from crater statistics: A review of issues and challenges. 2018 , 53, 554-582		35
156	Spacecraft I have known and loved Presidential Address. 2018 , 59, 6.32-6.37		
155	Composition and Chemistry of the Atmospheres of Terrestrial Planets: Venus, the Earth, Mars, and Titan. 2018 , 187-214		
154	Temperature, Clouds, and Aerosols in the Terrestrial Bodies of the Solar System. 2018 , 235-263		
153	Upper Atmospheres and Ionospheres of Planets and Satellites. 2018 , 349-374		1
152	UV's Light-induced Aging of Titan's Haze and Ice. <i>Astrophysical Journal</i> , 2018 , 852, 117	4.7	10
151	Assignment and modelling of 12CH ₄ spectra in the 5550-695, 5718-725 and 5792-814 cm ⁻¹ regions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 219, 323-332	2.1	11
150	Comparison of soluble and insoluble organic matter in analogues of Titan's aerosols. 2018 , 495, 185-191		23
149	Equilibrium chemistry down to 100 K. <i>Astronomy and Astrophysics</i> , 2018 , 614, A1	5.1	81
148	The DREAMS experiment flown on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. 2018 , 122, 484-493		7
147	Remarks about the data processing of the Relaxation Probe on the Huygens experiment. 2019 , 179, 104716		
146	A model intercomparison of Titan's climate and low-latitude environment. <i>Icarus</i> , 2019 , 333, 113-126	3.8	24
145	Streamer propagation in the atmosphere of Titan and other N ₂ :CH ₄ mixtures compared to N ₂ :O ₂ mixtures. <i>Icarus</i> , 2019 , 333, 294-305	3.8	7
144	. 2019 ,		
143	Improved line list of 12CH ₄ in the 8850-1180 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 239, 106646	2.1	5
142	Low-temperature synthesis of polycyclic aromatic hydrocarbons in Titan's surface ices and on airless bodies. 2019 , 5, eaaw5841		16

141	Cassini Composite Infrared Spectrometer (CIRS) Observations of Titan 2004-2017. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 244, 14	8	7
140	Measurement of CH ₃ D on Titan at Submillimeter Wavelengths. <i>Astronomical Journal</i> , 2019 , 157, 219	4.9	6
139	Chemical Ionization Mass Spectrometry: Applications for the Measurement of Nonvolatile Organics at Ocean Worlds. <i>Astrobiology</i> , 2019 , 19, 1196-1210	3.7	3
138	Corrigendum: Living at the Extremes: Extremophiles and the Limits of Life in a Planetary Context. 2019 , 10, 1785		5
137	Titan Surface Temperatures during the Cassini Mission. <i>Astrophysical Journal Letters</i> , 2019 , 877, L8	7.9	9
136	Climatology of CH ₄ , HCN and C ₂ H ₂ in Titan's upper atmosphere from Cassini/VIMS observations. <i>Icarus</i> , 2019 , 331, 83-97	3.8	5
135	Cassini-Huygens' exploration of the Saturn system: 13 years of discovery. 2019 , 364, 1046-1051		18
134	Improved line list of ¹² CH ₄ in the 3760-1000 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 225, 351-362	2.1	7
133	Living at the Extremes: Extremophiles and the Limits of Life in a Planetary Context. 2019 , 10, 780		159
132	Seasonal evolution of Titan's stratosphere during the Cassini mission. <i>Geophysical Research Letters</i> , 2019 , 46, 3079-3089	4.9	25
131	Seasonal Changes in Titan's Upper Haze Resulting from Saturn's Eccentric Orbit. <i>Astrophysical Journal Letters</i> , 2019 , 872, L23	7.9	1
130	Preface. 2019 , xiii-xvi		
129	The Solar System. 2019 , 1-10		
128	Atmospheric Structure. 2019 , 11-29		
127	Spectroscopy. 2019 , 30-51		
126	Aerosol Extinction and Scattering. 2019 , 52-64		
125	Quantitative Spectroscopy. 2019 , 65-77		
124	Spectrographs. 2019 , 78-85		

123	Spectroscopic Methods to Study Planetary Atmospheres. 2019 , 86-102		
122	Solar Radiation, Its Absorption in the Atmospheres, and Airglow. 2019 , 103-119		
121	Chemical Kinetics. 2019 , 120-139		
120	Photochemical Modeling. 2019 , 140-154		
119	Mars. 2019 , 155-237		1
118	Venus. 2019 , 238-366		
117	Titan. 2019 , 367-442		
116	Triton. 2019 , 443-466		
115	Pluto and Charon. 2019 , 467-496		
114	Index. 2019 , 536-542		
113	Plate Section (PDF Only). 2019 ,		
112	Astrobiology on Titan: Geophysics to Organic Chemistry. 2019 , 409-418		
111	Nitrogen Exsolution and Bubble Formation in Titan's Lakes. <i>Geophysical Research Letters</i> , 2019 , 46, 13658-13667	4.9	2
110	Seasonal Variations of Titan's Brightness. <i>Geophysical Research Letters</i> , 2019 , 46, 13649-13657	4.9	2
109	Simulating the density of organic species in the atmosphere of Titan with a coupled ion-neutral photochemical model. <i>Icarus</i> , 2019 , 324, 120-197	3.8	81
108	Spatial and seasonal variations in C ₃ H hydrocarbon abundance in Titan's stratosphere from Cassini CRIS observations. <i>Icarus</i> , 2019 , 317, 454-469	3.8	8
107	ExoMars Atmospheric Mars Entry and Landing Investigations and Analysis (AMELIA). <i>Space Science Reviews</i> , 2019 , 215, 1	7.5	7
106	Chemical Composition of Gas-Phase Positive Ions during Laboratory Simulations of Titan's Haze Formation. 2019 , 3, 202-211		11

105	Photoreactivity of condensed acetylene on Titan aerosols analogues. <i>Icarus</i> , 2019 , 321, 358-366	3.8	8
104	Seasonal evolution of temperatures in Titan's lower stratosphere. <i>Icarus</i> , 2020 , 344, 113188	3.8	8
103	N ₂ and H ₂ broadened isobutane infrared absorption cross sections and butane upper limits on Titan. <i>Icarus</i> , 2020 , 344, 113460	3.8	6
102	Mapping the zonal structure of Titan's northern polar vortex. <i>Icarus</i> , 2020 , 337, 113441	3.8	6
101	On the H ₂ abundance and ortho-to-para ratio in Titan's troposphere. <i>Icarus</i> , 2020 , 344, 113261	3.8	5
100	Seasonal changes in the middle atmosphere of Titan from Cassini/CIRS observations: Temperature and trace species abundance profiles from 2004 to 2017. <i>Icarus</i> , 2020 , 344, 113547	3.8	12
99	The 3.4 μ m absorption in Titan's stratosphere: Contribution of ethane, propane, butane and complex hydrogenated organics. <i>Icarus</i> , 2020 , 339, 113571	3.8	7
98	Optimization of ion trajectories in a dynamically harmonized Fourier-transform ion cyclotron resonance cell using a design of experiments strategy. 2020 , 34, e8659		6
97	Matching of Models of the Internal Structure and Thermal Regime of Partially Differentiated Titan with Gravity Field. 2020 , 54, 405-419		4
96	Reference Model Payload for Ice Giant Entry Probe Missions. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	1
95	The Atmospheric Structure of the Ice Giant Planets from In Situ Measurements by Entry Probes. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	1
94	The chemical composition of impact craters on Titan. <i>Astronomy and Astrophysics</i> , 2020 , 641, A16	5.1	7
93	Nondetection of Radio Emissions From Titan Lightning by Cassini RPWS. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006496	4.1	0
92	Temperature Variability in Titan's Upper Atmosphere: The Role of Wave Dissipation. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006163	4.1	2
91	Air-sea interactions on Titan: Lake evaporation, atmospheric circulation, and cloud formation. <i>Icarus</i> , 2020 , 351, 113903	3.8	3
90	Line list of ¹² CH ₄ in the 4300-600 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 253, 107061	2.1	3
89	Dust Devils on Titan. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006238	4.1	2
88	Atmospheric Electricity at the Ice Giants. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	10

87	Schumann resonance on Titan: A critical Re-assessment. <i>Icarus</i> , 2020 , 351, 113942	3.8	5
86	Potential vorticity structure of Titan's polar vortices from Cassini CIRS observations. <i>Icarus</i> , 2021 , 354, 114030	3.8	8
85	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	3.8	6
84	Encyclopedia of Astrobiology. 2021 , 1-14		
83	Experimental Simulation of Titan's Stratospheric Photochemistry: Benzene (C ₆ H ₆) Ices. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006566	4.1	6
82	Detectability of biosignatures on LHS 1140 b. <i>Astronomy and Astrophysics</i> , 2021 , 647, A48	5.1	6
81	Titan's Interior Structure and Dynamics After the Cassini-Huygens Mission. <i>Annual Review of Earth and Planetary Sciences</i> , 2021 , 49,	15.3	6
80	Polarized Radiation and the Emergence of Biological Homochirality on Earth and Beyond. <i>Astrophysical Journal</i> , 2021 , 910, 85	4.7	0
79	Modeling transmission windows in Titan's lower troposphere: Implications for infrared spectrometers aboard future aerial and surface missions. <i>Icarus</i> , 2021 , 357, 114228	3.8	1
78	Induced Magnetospheres. <i>Geophysical Monograph Series</i> , 2021 , 407-425	1.1	
77	The Physics of Falling Raindrops in Diverse Planetary Atmospheres. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006653	4.1	3
76	Lower Surface Temperature at Bright Ephemeral Feature Site on Titan's North Pole. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091708	4.9	1
75	Cryovolcanism and Degassing on Titan, a Moon of Saturn. <i>Journal of Volcanology and Seismology</i> , 2021 , 15, 201-215	0.7	
74	An Atmospheric Origin for HCN-Derived Polymers on Titan. <i>Processes</i> , 2021 , 9, 965	2.9	1
73	Phase Diagram for the Methane-Ethane System and Its Implications for Titan's Lakes. <i>Planetary Science Journal</i> , 2021 , 2, 118	2.9	2
72	Titan: Earth-like on the Outside, Ocean World on the Inside. <i>Planetary Science Journal</i> , 2021 , 2, 112	2.9	6
71	Investigating the Condensation of Benzene (C ₆ H ₆) in Titan's South Polar Cloud System with a Combination of Laboratory, Observational, and Modeling Tools. <i>Planetary Science Journal</i> , 2021 , 2, 121	2.9	2
70	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021 , 2, 130	2.9	17

69	Modelling of the 2 ν_1 - ν_1 and ν_1 band transitions of 13CH4 using high resolution Raman spectroscopy measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 270, 107682	2.1	1
68	Distribution and intensity of water ice signature in South Xanadu and Tui Regio. <i>Icarus</i> , 2021 , 364, 114464.8	4.8	2
67	Tracking Short-term Variations in the Haze Distribution of Titan's Atmosphere with SINFONI VLT. <i>Planetary Science Journal</i> , 2021 , 2, 180	2.9	0
66	Geomorphological map of the South Belet Region of Titan. <i>Icarus</i> , 2021 , 366, 114516	3.8	1
65	Vertical compositional variations of liquid hydrocarbons in Titan's alkanofers. <i>Astronomy and Astrophysics</i> , 2021 , 653, A80	5.1	1
64	Venus lightning: Estimation of charge and dimensions of charge regions for lightning initiation. <i>Icarus</i> , 2021 , 365, 114473	3.8	1
63	Encyclopedia of Astrobiology. 2021 , 1-15		
62	Atmospheric Structure and Composition. 2009 , 235-257		15
61	Atmospheric Dynamics and Meteorology. 2009 , 323-352		8
60	Mass Loss Processes in Titan's Upper Atmosphere. 2009 , 373-391		36
59	Energy Deposition Processes in Titan's Upper Atmosphere and Its Induced Magnetosphere. 2009 , 393-453		28
58	Mapping Products of Titan's Surface. 2009 , 489-510		2
57	Titan's Interior Structure. 2009 , 61-73		21
56	Composition of Titan's Surface. 2009 , 141-175		7
55	Encyclopedia of Planetary Landforms. 2015 , 988-1023		1
54	Encyclopedia of Astrobiology. 2015 , 2506-2523		2
53	Spectroscopy and Photochemistry of Planetary Atmospheres and Ionospheres: Mars, Venus, Titan, Triton and Pluto. 2019 ,		4
52	Far-infrared photometric observations of the outer planets and satellites with Herschel-PACS. <i>Astronomy and Astrophysics</i> , 2016 , 588, A109	5.1	7

51	SEASONAL DISAPPEARANCE OF FAR-INFRARED HAZE IN TITAN'S STRATOSPHERE. <i>Astrophysical Journal Letters</i> , 2012 , 754, L3	7.9	25
50	Storms, polar deposits and the methane cycle in Titan's atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 713-28	3	17
49	Evidence of Temporal Variation of Titan Atmospheric Density in 2005-2013. 2013 ,		2
48	Detection of Cyclopropenylidene on Titan with ALMA. <i>Astronomical Journal</i> , 2020 , 160, 205	4.9	13
47	Detection of CH ₃ C ₃ N in Titan's Atmosphere. <i>Astrophysical Journal Letters</i> , 2020 , 903, L22	7.9	6
46	VERTICAL PROPERTIES OF THE GLOBAL HAZE ON TITAN DEDUCED FROM METHANE BAND SPECTROSCOPY BETWEEN 7100 AND 9200 cm ⁻¹ . <i>Journal of the Korean Astronomical Society</i> , 2008 , 41, 65-76		3
45	Earth-Based Perspective and Pre-Cassini/Huygens Knowledge of Titan. 2009 , 9-34		3
44	Exobiology and Planetary Protection of icy moons. <i>Space Sciences Series of ISSI</i> , 2010 , 509-533	0.1	
43	Atmospheric/Exospheric Characteristics of Icy Satellites. <i>Space Sciences Series of ISSI</i> , 2010 , 153-182	0.1	
42	Radiolysis and Photolysis of Icy Satellite Surfaces: Experiments and Theory. <i>Space Sciences Series of ISSI</i> , 2010 , 297-313	0.1	
41	Introduction and Scope. <i>SpringerBriefs in Astronomy</i> , 2013 , 1-6	0.7	
40	Titan. <i>SpringerBriefs in Astronomy</i> , 2013 , 35-44	0.7	
39	Encyclopedia of Planetary Landforms. 2014 , 1-39		
38	Titan. 2014 , 1-19		
37	Encyclopedia of Astrobiology. 2014 , 1-9		
36	The Titan Huygens Probe mission. 2015 , 221-239		
35	Encyclopedia of Astrobiology. 2015 , 383-397		1
34	Encyclopedia of Astrobiology. 2015 , 1136-1142		

33	Composition and Chemistry of the Atmospheres of Terrestrial Planets: Venus, the Earth, Mars, and Titan. 2017 , 1-28		1
32	Encyclopedia of Astrobiology. 2019 , 1-19		
31	Astrobiology and Habitability of Titan. <i>Space Sciences Series of ISSI</i> , 2008 , 37-48	0.1	1
30	The atmospheres of rocky exoplanets. II. Influence of surface composition on the diversity of cloud condensates. <i>Astronomy and Astrophysics</i> ,	5.1	1
29	Molecular hydrogen in the upper atmospheres of Saturn and Titan. <i>Icarus</i> , 2022 , 114876	3.8	0
28	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan POLar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). <i>Experimental Astronomy</i> , 1	1.3	0
27	Out of Thin Air? Astrobiology and Atmospheric Chemotrophy.. <i>Astrobiology</i> , 2022 ,	3.7	2
26	Trajectory-based Simulation of Far-infrared Collision-induced Absorption Profiles of CH ₄ N ₂ for Modeling Titan's Atmosphere. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 258, 33	8	1
25	Ground-based HCN submillimetre measurements in Titan's atmosphere: an intercomparison with Herschel observations. <i>Astronomy and Astrophysics</i> , 2022 , 658, A88	5.1	1
24	Improved line list of 12CH ₄ in the 4100-300 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 279, 108021	2.1	0
23	The Titan Haze Simulation (THS) experiment on COSMIC. Part III. XANES study of laboratory analogs of Titan tholins. <i>Icarus</i> , 2022 , 376, 114841	3.8	0
22	Crater production on Titan and surface chronology. <i>Astronomy and Astrophysics</i> ,	5.1	
21	Paleoclimate Evolution on Titan After Episodic Massive Methane Outgassing Simulated by a Global Climate Model. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126,	4.1	0
20	Convection behind the Humidification of Titan's Stratosphere. <i>Astrophysical Journal</i> , 2021 , 922, 239	4.7	0
19	Asteroid Prospecting and Space Mining. <i>Space and Society</i> , 2022 , 217-232	0.2	
18	Analysis of four solar occultations by Titan's atmosphere with the infrared channel of the VIMS instrument: Haze, CH ₄ , CH ₃ D, and CO vertical profiles. <i>Astronomy and Astrophysics</i> ,	5.1	0
17	Variability in Titan's Mesospheric HCN and Temperature Structure as Observed by ALMA. <i>Planetary Science Journal</i> , 2022 , 3, 146	2.9	
16	Gravity Waves in Titan's Atmosphere: A Comparison Between Linearized Wave Model Calculations and HASI Observations. <i>Journal of Geophysical Research E: Planets</i> , 2022 , 127,	4.1	1

15	Decoding the Descent Dynamics of the Huygens Probe. 2022 ,	
14	Paleoclimate of Titan with hydrocarbon oceans and continents simulated by a global climate model. 2023 , 389, 115253	0
13	Topographic Gravity Waves Observed in the Martian Thermosphere: A Statistical Perspective From a 1-D Full-Wave Model. 2022 , 127,	1
12	1,3-Butadiene on Titan: Crystal Structure, Thermal Expansivity, and Raman Signatures.	2
11	Potential Caves: Inventory of Subsurface Access Points on the Surface of Titan.	0
10	AirSea Interactions on Titan: Effect of Radiative Transfer on the Lake Evaporation and Atmospheric Circulation. 2022 , 3, 232	0
9	Detection and characterization of wind-blown charged sand grains on Titan with the DraGMet/EFIELD experiment on Dragonfly. 2023 , 391, 115345	0
8	Hydrocarbon lakes and seas & internal ocean on Titan Resemblance with primitive earth prebiotic chemistry. 2023 , 617-672	0
7	Aeronomy. 2023 , 1299-1336	0
6	Laboratory generation of hazes in Titan's upper atmosphere using ECR plasma. 2023 , 229, 105661	0
5	Floating Liquid Droplets on the Surface of Cryogenic Liquids: Implications for Titan Rain. 2023 , 7, 439-448	0
4	Simulation of Cocrystal Formation in Planetary Atmospheres: The C ₆ H ₆ :C ₂ H ₂ Cocrystal Produced by Gas Deposition. 2023 , 127, 2322-2335	0
3	The Low-Altitude Ionosphere of the Ice Giant Planets. 2023 , 128,	0
2	Updated Radiative Transfer Model for Titan in the Near-infrared Wavelength Range: Validation against Huygens Atmospheric and Surface Measurements and Application to the Cassini/VIMS Observations of the Dragonfly Landing Area. 2023 , 4, 44	0
1	Decomposition of Benzene during Impacts in N ₂ -dominated Atmospheres. 2023 , 945, 149	0