

Titan's Atmospheric Temperatures, Winds, and Compos

Science

308, 975-978

DOI: [10.1126/science.1111150](https://doi.org/10.1126/science.1111150)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Measurements of CH ₃ D and CH ₄ in Titan from Infrared Spectroscopy. <i>Astrophysical Journal</i> , 2005, 629, L53-L56.	4.5	54
2	Cassini at Titan: the story so far. <i>Astronomy and Geophysics</i> , 2005, 46, 5.20-5.25.	0.2	1
3	The vertical profile of winds on Titan. <i>Nature</i> , 2005, 438, 800-802.	27.8	202
4	The abundances of constituents of Titan's atmosphere from the GCMS instrument on the Huygens probe. <i>Nature</i> , 2005, 438, 779-784.	27.8	848
5	In situ measurements of the physical characteristics of Titan's environment. <i>Nature</i> , 2005, 438, 785-791.	27.8	620
6	Maps of Titan's surface from 1 to 2.5 μ m. <i>Icarus</i> , 2005, 177, 89-105.	2.5	31
7	Characterization of zonal winds in the stratosphere of Titan with UVES. <i>Icarus</i> , 2005, 179, 497-510.	2.5	29
8	Intensive Titan Exploration Begins. <i>Science</i> , 2005, 308, 969-970.	12.6	24
9	Ion Neutral Mass Spectrometer Results from the First Flyby of Titan. <i>Science</i> , 2005, 308, 982-986.	12.6	402
10	The Evolution of Titan's Mid-Latitude Clouds. <i>Science</i> , 2005, 310, 474-477.	12.6	139
11	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
12	Titan's stratospheric zonal wind, temperature, and ethane abundance a year prior to Huygens insertion. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	37
13	A Code Calibration Study for Huygens Entry Aeroheating., 2006, , .		18
14	Characterization of zonal winds in the stratosphere of Titan with UVES: 2. Observations coordinated with the Huygens Probe entry. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	19
15	Radiative heating predictions for Huygens entry. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	17
16	Stratospheric global winds on Titan at the time of Huygens descent. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	23
17	Overview of the coordinated ground-based observations of Titan during the Huygens mission. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
18	High-resolution infrared spectroscopy of ethane in Titan's stratosphere in the Huygens epoch. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	9

#	ARTICLE	IF	CITATIONS
19	Vertical atmospheric flow on Titan as measured by the HASI instrument on board the Huygens probe. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	13
20	Waves and horizontal structures in Titan's thermosphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	52
21	Spectroscopy and energetics of the acetylene molecule: dynamical complexity alongside structural simplicity. <i>International Reviews in Physical Chemistry</i> , 2006, 25, 655-718.	2.3	31
22	The Nitrogen Chemistry of Titan's Upper Atmosphere Revealed. <i>Astrophysical Journal</i> , 2006, 647, L175-L178.	4.5	206
23	Seasonal evolution of Titan's dark polar hood: midsummer disappearance observed by the Hubble Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1683-1687.	4.4	15
24	Titan's 3-micron spectral region from ISO high-resolution spectroscopy. <i>Icarus</i> , 2006, 180, 176-185.	2.5	74
25	The vertical structure of Titan's upper atmosphere from Cassini Ion Neutral Mass Spectrometer measurements. <i>Icarus</i> , 2006, 182, 567-576.	2.5	112
26	A gas-poor planetesimal capture model for the formation of giant planet satellite systems. <i>Icarus</i> , 2006, 181, 486-509.	2.5	63
27	Gravitational tidal waves in Titan's upper atmosphere. <i>Icarus</i> , 2006, 182, 251-258.	2.5	28
28	Photochemical kinetics uncertainties in modeling Titan's atmosphere: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2006, 7, 211-230.	11.6	77
29	GCM simulation of balloon trajectories on Titan. <i>Planetary and Space Science</i> , 2006, 54, 685-694.	1.7	20
30	Titan's methane cycle. <i>Planetary and Space Science</i> , 2006, 54, 1177-1187.	1.7	219
31	Composition of Titan's surface from Cassini VIMS. <i>Planetary and Space Science</i> , 2006, 54, 1524-1539.	1.7	89
32	On the discovery of CO nighttime emissions on Titan by Cassini/VIMS: Derived stratospheric abundances and geological implications. <i>Planetary and Space Science</i> , 2006, 54, 1552-1562.	1.7	27
33	THE ATMOSPHERES OF SATURN AND TITAN IN THE NEAR-INFRARED: FIRST RESULTS OF CASSINI/VIMS. <i>Earth, Moon and Planets</i> , 2006, 96, 119-147.	0.6	57
34	Latitudinal variations of HCN, HC3N, and C2N2 in Titan's stratosphere derived from Cassini CIRS data. <i>Icarus</i> , 2006, 181, 243-255.	2.5	105
35	A tidal explanation for the Titan haze layers. <i>Icarus</i> , 2006, 183, 471-478.	2.5	10
36	PLANETARY SCIENCE: Titan's Polar Weather. <i>Science</i> , 2006, 313, 1582-1583.	12.6	7

#	ARTICLE	IF	CITATIONS
37	Titan and the Cassini-Huygens mission. AIP Conference Proceedings, 2006, , .	0.4	0
38	Evidence for a Polar Ethane Cloud on Titan. Science, 2006, 313, 1620-1622.	12.6	161
39	The new Titan: an astrobiological perspective. , 2006, , .		0
40	Organic haze on Titan and the early Earth. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18035-18042.	7.1	205
41	Symposia Oral Presentations. Astrobiology, 2006, 6, 105-173.	3.0	1
42	Photolytically Generated Aerosols in the Mesosphere and Thermosphere of Titan. Astrophysical Journal, 2007, 661, L199-L202.	4.5	106
43	Photodissociation dynamics of the 2-propyl radical, C ₃ H ₇ . Journal of Chemical Physics, 2007, 126, 144302.	3.0	27
44	Interiors and Evolution of Icy Satellites. , 2007, , 509-539.		8
45	MWIR imaging spectrometer with digital time delay integration for remote sensing and characterization of solar system objects. Proceedings of SPIE, 2007, , .	0.8	1
46	Titan: an astrobiological laboratory in the solar system. , 2007, , .		10
47	PlanetWRF: A general purpose, local to global numerical model for planetary atmospheric and climate dynamics. Journal of Geophysical Research, 2007, 112, .	3.3	220
48	Conceptual Design of an Airship Mission to Titan. , 2007, , .		1
49	Photochemical and Discharge-Driven Pathways to Aromatic Products from 1,3-Butadiene. Journal of Physical Chemistry A, 2007, 111, 10914-10927.	2.5	30
50	Internal Rotation in Symmetric Tops. Advances in Atomic, Molecular and Optical Physics, 2007, 54, 423-509.	2.3	12
51	Titan: a new astrobiological vision from the Cassiniâ€“Huygens data. , 0, , 263-284.		0
52	Density functional theory study of (HCN) _n clusters up to n=10. Computational and Theoretical Chemistry, 2007, 803, 45-60.	1.5	25
53	Global-scale surface spectral variations on Titan seen from Cassini/VIMS. Icarus, 2007, 186, 242-258.	2.5	110
54	Vertical abundance profiles of hydrocarbons in Titan's atmosphere at 15° S and 80° N retrieved from Cassini/CIRS spectra. Icarus, 2007, 188, 120-138.	2.5	176

#	ARTICLE	IF	CITATIONS
55	Discharge experiments simulating chemical evolution on the surface of Titan. <i>Icarus</i> , 2007, 187, 616-619.	2.5	25
56	The composition of Titan's stratosphere from Cassini/CIRS mid-infrared spectra. <i>Icarus</i> , 2007, 189, 35-62.	2.5	367
57	Cassini CIRS update on stratospheric ices at Titan's winter pole. <i>Icarus</i> , 2007, 189, 63-71.	2.5	38
58	The Titan ¹⁴ N/ ¹⁵ N and ¹² C/ ¹³ C isotopic ratios in HCN from Cassini/CIRS. <i>Icarus</i> , 2007, 191, 712-721.	2.5	75
59	Detection of ¹³ CH ₃ D on Titan. <i>Icarus</i> , 2007, 191, 397-400.	2.5	69
60	Ion chemistry and N-containing molecules in Titan's upper atmosphere. <i>Icarus</i> , 2007, 191, 722-742.	2.5	377
61	The distortion dipole rotational spectrum of : A low temperature far-infrared study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 103, 102-117.	2.3	27
62	Photochemical kinetics uncertainties in modeling Titan's atmosphere: First consequences. <i>Planetary and Space Science</i> , 2007, 55, 1470-1489.	1.7	87
63	Near-surface winds at the Huygens site on Titan: Interpretation by means of a general circulation model. <i>Planetary and Space Science</i> , 2007, 55, 1990-2009.	1.7	27
64	The distribution of hydrocarbons in Titan's atmosphere: An evolutionary algorithm-based model. <i>Planetary and Space Science</i> , 2007, 55, 2128-2136.	1.7	6
65	What Cassini-Huygens has revealed about Titan. <i>Astronomy and Geophysics</i> , 2007, 48, 2.14-2.20.	0.2	8
66	Oxygen compounds in Titan's stratosphere as observed by Cassini CIRS. <i>Icarus</i> , 2007, 186, 354-363.	2.5	127
67	Vertical profiles of HCN, HC ₃ N, and C ₂ H ₂ in Titan's atmosphere derived from Cassini/CIRS data. <i>Icarus</i> , 2007, 186, 364-384.	2.5	121
68	An experimental study of the reaction kinetics of C ₂ (X ¹ Σ ^{g+}) with hydrocarbons (CH ₄ , C ₂ H ₂ , C ₂ H ₄ , C ₂ H ₆) Tj ETQq1 1 0.784314 rgB / Giant Planets. <i>Icarus</i> , 2007, 187, 558-568.	2.5	44
69	Characteristics of Titan's stratospheric aerosols and condensate clouds from Cassini CIRS far-infrared spectra. <i>Icarus</i> , 2007, 191, 223-235.	2.5	95
70	N ₂ -, O ₂ - and air-broadened half-widths and line shifts for transitions in the $\hat{1}/2_3$ band of methane in the 2726- to 3200-cm ⁻¹ spectral region. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 268-281.	1.2	28
71	Observation of a tilt of Titan's middle-atmospheric superrotation. <i>Icarus</i> , 2008, 197, 549-555.	2.5	40
72	Detection of C ₂ HD and the D/H ratio on Titan. <i>Icarus</i> , 2008, 197, 539-548.	2.5	39

#	ARTICLE	IF	CITATIONS
73	Astrobiology and habitability of Titan. <i>Space Science Reviews</i> , 2008, 135, 37-48.	8.1	51
74	Neutral Atmospheres. <i>Space Science Reviews</i> , 2008, 139, 191-234.	8.1	27
75	THz spectrum of monodeuterated methane. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 580-586.	2.3	11
76	Review of quantitative spectroscopy of polyynes. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 963-973.	2.3	10
77	Low-temperature measurements of HCN broadened by N ₂ in the 14-1½µm spectral region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 922-951.	2.3	7
78	Coupling photochemistry with haze formation in Titan's atmosphere, Part I: Model description. <i>Planetary and Space Science</i> , 2008, 56, 27-66.	1.7	236
79	Heat balance in Titan's atmosphere. <i>Planetary and Space Science</i> , 2008, 56, 648-659.	1.7	84
80	Global and temporal variations in hydrocarbons and nitriles in Titan's stratosphere for northern winter observed by Cassini/CIRS. <i>Icarus</i> , 2008, 193, 595-611.	2.5	65
81	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. <i>Icarus</i> , 2008, 194, 212-242.	2.5	83
82	Titan's middle-atmospheric temperatures and dynamics observed by the Cassini Composite Infrared Spectrometer. <i>Icarus</i> , 2008, 194, 263-277.	2.5	133
83	Low temperature (39±298 K) kinetics study of the reactions of the C ₄ H radical with various hydrocarbons observed in Titan's atmosphere. <i>Icarus</i> , 2008, 194, 746-757.	2.5	32
84	HST spectral imaging of Titan's haze and methane profile between 0.6 and 1 ½µm during the 2000 opposition. <i>Icarus</i> , 2008, 194, 721-745.	2.5	11
85	The 12C/13C isotopic ratio in Titan hydrocarbons from Cassini/CIRS infrared spectra. <i>Icarus</i> , 2008, 195, 778-791.	2.5	62
86	Laboratory studies of methane and ethane adsorption and nucleation onto organic particles: Application to Titan's clouds. <i>Icarus</i> , 2008, 195, 792-801.	2.5	40
87	Coupled ion and neutral rotating model of Titan's upper atmosphere. <i>Icarus</i> , 2008, 197, 110-136.	2.5	77
88	Diagnostics of Titan's stratospheric dynamics using Cassini/CIRS data and the 2-dimensional IPSL circulation model. <i>Icarus</i> , 2008, 197, 556-571.	2.5	44
89	Condensation in Titan's stratosphere during polar winter. <i>Icarus</i> , 2008, 197, 572-578.	2.5	27
90	Horizontal structures and dynamics of Titan's thermosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	83

#	ARTICLE	IF	CITATIONS
91	Comparative Aeronomy. Space Sciences Series of ISSI, 2008, , .	0.0	7
92	Origin of oxygen species in Titan's atmosphere. Journal of Geophysical Research, 2008, 113, .	3.3	129
93	Titan's winter polar vortex structure revealed by chemical tracers. Journal of Geophysical Research, 2008, 113, .	3.3	58
94	Acetylene as Fast Food: Implications for Development of Life on Anoxic Primordial Earth and in the Outer Solar System. Astrobiology, 2008, 8, 45-58.	3.0	39
95	Sequestration of Noble Gases by documentclass{aastex} usepackage{amsbsy} usepackage{amsmath} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{enewcommandmdefault{wncyr} anewcommandsfdefault{wncyss} anewcommandencodingdefault{OT2} ormalfont selectfont} DeclareTextFontCommand{extcyr}	4.5	18
96	DETERMINATION OF THE MINIMUM MASSES OF HEAVY ELEMENTS IN THE ENVELOPES OF JUPITER AND SATURN. Astrophysical Journal, 2009, 696, 1348-1354.	4.5	76
97	The direct simulation of acoustics on Earth, Mars, and Titan. Journal of the Acoustical Society of America, 2009, 125, 640-650.	1.1	9
98	Deep Space Craft. , 2009, , .		9
99	Organics Produced by Irradiation of Frozen and Liquid HCN Solutions: Implications for Chemical Evolution Studies. Astrobiology, 2009, 9, 279-288.	3.0	20
100	Thermodynamics in an icy world: The atmosphere and internal structure of Saturn's moon Titan. Pure and Applied Chemistry, 2009, 81, 1903-1920.	1.9	6
101	TITAN'S SURFACE BRIGHTNESS TEMPERATURES. Astrophysical Journal, 2009, 691, L103-L105.	4.5	102
102	Titan at 3 microns: Newly identified spectral features and an improved analysis of haze opacity. Icarus, 2009, 199, 449-457.	2.5	16
103	Titan's stratospheric C2N2, C3H4, and C4H2 abundances from Cassini/CIRS far-infrared spectra. Icarus, 2009, 202, 620-631.	2.5	96
104	Determination of the complex refractive indices of Titan haze analogs using photothermal deflection spectroscopy. Icarus, 2009, 203, 663-671.	2.5	21
105	Ethane aerosol phase evolution in Titan's atmosphere. Icarus, 2009, 199, 564-567.	2.5	11
106	Titan solar occultation observed by Cassini/VIMS: Gas absorption and constraints on aerosol composition. Icarus, 2009, 201, 198-216.	2.5	75
107	A photochemical model of Titan's atmosphere and ionosphere. Icarus, 2009, 201, 226-256.	2.5	298
108	Temperature-dependent photoabsorption cross-sections of cyanoacetylene and diacetylene in the mid- and vacuum-UV: Application to Titan's atmosphere. Planetary and Space Science, 2009, 57, 10-22.	1.7	26

#	ARTICLE	IF	CITATIONS
109	Negative ion chemistry in Titan's upper atmosphere. <i>Planetary and Space Science</i> , 2009, 57, 1558-1572.	1.7	240
110	A global climate model of Titan's atmosphere and surface. <i>Planetary and Space Science</i> , 2009, 57, 1931-1949.	1.7	42
111	Production of hydrocarbons and nitriles using a afterglow plasma for simulation of Titan's atmosphere. <i>Planetary and Space Science</i> , 2009, 57, 1621-1630.	1.7	14
112	Flowing afterglow studies of temperature dependencies for electron dissociative recombination of HCNH ⁺ , CH ₃ CNH ⁺ and CH ₃ CH ₂ CNH ⁺ and their symmetrical proton-bound dimers. <i>Planetary and Space Science</i> , 2009, 57, 1642-1647.	1.7	24
113	Heavy ions, temperatures and winds in Titan's ionosphere: Combined Cassini CAPS and INMS observations. <i>Planetary and Space Science</i> , 2009, 57, 1847-1856.	1.7	113
114	Theoretical investigation of the potential energy surface of the van der Waals complex CH ₄ ••N ₂ . <i>Journal of Chemical Physics</i> , 2009, 131, 134304.	3.0	18
115	Titan's Carbon Budget and the Case of the Missing Ethane. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11221-11226.	2.5	52
116	Laboratory Studies of Molecular Growth in the Titan Ionosphere. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11211-11220.	2.5	32
117	The Origin and Evolution of Titan. , 2009, , 35-59.		25
118	Neutral Atmospheres. <i>Space Sciences Series of ISSI</i> , 2008, , 191-234.	0.0	1
119	The structure and dynamics of Titan's middle atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 649-664.	3.4	29
120	The coupling of winds, aerosols and chemistry in Titan's atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 665-682.	3.4	23
121	A CROSSED MOLECULAR BEAMS STUDY ON THE FORMATION OF THE EXOTIC CYANOETHYNYL RADICAL IN TITAN'S ATMOSPHERE. <i>Astrophysical Journal</i> , 2009, 701, 1797-1803.	4.5	18
122	Dynamical implications of seasonal and spatial variations in Titan's stratospheric composition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 697-711.	3.4	50
123	Detection and mapping of hydrocarbon deposits on Titan. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	147
124	Atmospheric moons Galileo would have loved. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 130-140.	0.0	1
125	SEASONAL CHANGES IN TITAN'S POLAR TRACE GAS ABUNDANCE OBSERVED BY CASSINI. <i>Astrophysical Journal Letters</i> , 2010, 724, L84-L89.	8.3	34
126	D/H RATIO OF TITAN FROM OBSERVATIONS OF THE CASSINI/COMPOSITE INFRARED SPECTROMETER. <i>Astrophysical Journal</i> , 2010, 708, 342-353.	4.5	18

#	ARTICLE	IF	CITATIONS
127	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission. <i>Icarus</i> , 2010, 205, 559-570.	2.5	168
128	The photochemical products of benzene in Titan's upper atmosphere. <i>Icarus</i> , 2010, 207, 477-484.	2.5	37
129	Evidence for layered methane clouds in Titan's troposphere. <i>Icarus</i> , 2010, 206, 787-790.	2.5	15
130	Titan trace gaseous composition from CIRS at the end of the Cassini-Huygens prime mission. <i>Icarus</i> , 2010, 207, 461-476.	2.5	161
131	Compositional evidence for Titan's stratospheric tilt. <i>Planetary and Space Science</i> , 2010, 58, 792-800.	1.7	15
132	Sounding of Titan's atmosphere at submillimeter wavelengths from an orbiting spacecraft. <i>Planetary and Space Science</i> , 2010, 58, 1724-1739.	1.7	20
133	High spectral resolution infrared studies of Titan: Winds, temperature, and composition. <i>Planetary and Space Science</i> , 2010, 58, 1715-1723.	1.7	20
134	On the Possibility of Gly and Ala Amino Acids on Titan's Surface. <i>Earth, Moon and Planets</i> , 2010, 106, 113-118.	0.6	0
135	Atmospheric/Exospheric Characteristics of Icy Satellites. <i>Space Science Reviews</i> , 2010, 153, 155-184.	8.1	31
136	Chemical Composition of Icy Satellite Surfaces. <i>Space Science Reviews</i> , 2010, 153, 113-154.	8.1	65
137	From Democritus to Schrödinger: a reflection on quantum molecular modeling. <i>Structural Chemistry</i> , 2010, 21, 1289-1314.	2.0	10
138	The photochemical model of Titan's atmosphere and ionosphere: A version without hydrodynamic escape. <i>Planetary and Space Science</i> , 2010, 58, 1507-1515.	1.7	60
139	Cryogenic absorption cells operating inside a Bruker IFS-125HR: First results for $^{13}\text{CH}_4$ at $7\frac{1}{4}\mu\text{m}$. <i>Journal of Molecular Spectroscopy</i> , 2010, 262, 122-134.	1.2	29
140	Titan haze distribution and optical properties retrieved from recent observations. <i>Icarus</i> , 2010, 208, 850-867.	2.5	85
141	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission II: Aerosol extinction profiles in the $600\text{--}1420\text{ cm}^{-1}$ spectral range. <i>Icarus</i> , 2010, 210, 852-866.	2.5	45
142	Titan and the Cassini-Huygens mission. , 0, , 489-506.		0
143	Simulating the one-dimensional structure of Titan's upper atmosphere: 1. Formulation of the Titan Global Ionosphere-Thermosphere Model and benchmark simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
144	Simulating the one-dimensional structure of Titan's upper atmosphere: 2. Alternative scenarios for methane escape. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27

#	ARTICLE	IF	CITATIONS
145	Composition of Titan's lower atmosphere and simple surface volatiles as measured by the Cassini-Huygens probe gas chromatograph mass spectrometer experiment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	377
146	Determination of the Absolute Photoionization Cross Sections of CH ₃ and I Produced from a Pyrolysis Source, by Combined Synchrotron and Vacuum Ultraviolet Laser Studies. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3237-3246.	2.5	56
147	Side-Chain Effects on the Electronic Relaxation of Radicals followed by Time-Resolved Pump-Probe Spectroscopy: 2,3-Dimethylbut-2-yl vs <i>tert</i> -Butyl. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3045-3049.	2.5	6
148	Static polarizability surfaces of the van der Waals complex CH ₄ -N ₂ . <i>Journal of Chemical Physics</i> , 2010, 132, 164304.	3.0	11
149	Dipole moment surface of the van der Waals complex CH ₄ -N ₂ . <i>Journal of Chemical Physics</i> , 2010, 133, 184302.	3.0	20
150	Low temperature rate coefficients for reactions of the butadiynyl radical, C ₄ H, with various hydrocarbons. Part I: reactions with alkanes (CH ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀ , C ₅ H ₁₂ , C ₆ H ₁₄ , C ₇ H ₁₆ , C ₈ H ₁₈ , C ₉ H ₂₀ , C ₁₀ H ₂₂ , C ₁₁ H ₂₄ , C ₁₂ H ₂₆ , C ₁₃ H ₂₈ , C ₁₄ H ₃₀ , C ₁₅ H ₃₂ , C ₁₆ H ₃₄ , C ₁₇ H ₃₆ , C ₁₈ H ₃₈ , C ₁₉ H ₄₀ , C ₂₀ H ₄₂ , C ₂₁ H ₄₄ , C ₂₂ H ₄₆ , C ₂₃ H ₄₈ , C ₂₄ H ₅₀ , C ₂₅ H ₅₂ , C ₂₆ H ₅₄ , C ₂₇ H ₅₆ , C ₂₈ H ₅₈ , C ₂₉ H ₆₀ , C ₃₀ H ₆₂ , C ₃₁ H ₆₄ , C ₃₂ H ₆₆ , C ₃₃ H ₆₈ , C ₃₄ H ₇₀ , C ₃₅ H ₇₂ , C ₃₆ H ₇₄ , C ₃₇ H ₇₆ , C ₃₈ H ₇₈ , C ₃₉ H ₈₀ , C ₄₀ H ₈₂ , C ₄₁ H ₈₄ , C ₄₂ H ₈₆ , C ₄₃ H ₈₈ , C ₄₄ H ₉₀ , C ₄₅ H ₉₂ , C ₄₆ H ₉₄ , C ₄₇ H ₉₆ , C ₄₈ H ₉₈ , C ₄₉ H ₁₀₀ , C ₅₀ H ₁₀₂ , C ₅₁ H ₁₀₄ , C ₅₂ H ₁₀₆ , C ₅₃ H ₁₀₈ , C ₅₄ H ₁₁₀ , C ₅₅ H ₁₁₂ , C ₅₆ H ₁₁₄ , C ₅₇ H ₁₁₆ , C ₅₈ H ₁₁₈ , C ₅₉ H ₁₂₀ , C ₆₀ H ₁₂₂ , C ₆₁ H ₁₂₄ , C ₆₂ H ₁₂₆ , C ₆₃ H ₁₂₈ , C ₆₄ H ₁₃₀ , C ₆₅ H ₁₃₂ , C ₆₆ H ₁₃₄ , C ₆₇ H ₁₃₆ , C ₆₈ H ₁₃₈ , C ₆₉ H ₁₄₀ , C ₇₀ H ₁₄₂ , C ₇₁ H ₁₄₄ , C ₇₂ H ₁₄₆ , C ₇₃ H ₁₄₈ , C ₇₄ H ₁₅₀ , C ₇₅ H ₁₅₂ , C ₇₆ H ₁₅₄ , C ₇₇ H ₁₅₆ , C ₇₈ H ₁₅₈ , C ₇₉ H ₁₆₀ , C ₈₀ H ₁₆₂ , C ₈₁ H ₁₆₄ , C ₈₂ H ₁₆₆ , C ₈₃ H ₁₆₈ , C ₈₄ H ₁₇₀ , C ₈₅ H ₁₇₂ , C ₈₆ H ₁₇₄ , C ₈₇ H ₁₇₆ , C ₈₈ H ₁₇₈ , C ₈₉ H ₁₈₀ , C ₉₀ H ₁₈₂ , C ₉₁ H ₁₈₄ , C ₉₂ H ₁₈₆ , C ₉₃ H ₁₈₈ , C ₉₄ H ₁₉₀ , C ₉₅ H ₁₉₂ , C ₉₆ H ₁₉₄ , C ₉₇ H ₁₉₆ , C ₉₈ H ₁₉₈ , C ₉₉ H ₂₀₀ , C ₁₀₀ H ₂₀₂ , C ₁₀₁ H ₂₀₄ , C ₁₀₂ H ₂₀₆ , C ₁₀₃ H ₂₀₈ , C ₁₀₄ H ₂₁₀ , C ₁₀₅ H ₂₁₂ , C ₁₀₆ H ₂₁₄ , C ₁₀₇ H ₂₁₆ , C ₁₀₈ H ₂₁₈ , C ₁₀₉ H ₂₂₀ , C ₁₁₀ H ₂₂₂ , C ₁₁₁ H ₂₂₄ , C ₁₁₂ H ₂₂₆ , C ₁₁₃ H ₂₂₈ , C ₁₁₄ H ₂₃₀ , C ₁₁₅ H ₂₃₂ , C ₁₁₆ H ₂₃₄ , C ₁₁₇ H ₂₃₆ , C ₁₁₈ H ₂₃₈ , C ₁₁₉ H ₂₄₀ , C ₁₂₀ H ₂₄₂ , C ₁₂₁ H ₂₄₄ , C ₁₂₂ H ₂₄₆ , C ₁₂₃ H ₂₄₈ , C ₁₂₄ H ₂₅₀ , C ₁₂₅ H ₂₅₂ , C ₁₂₆ H ₂₅₄ , C ₁₂₇ H ₂₅₆ , C ₁₂₈ H ₂₅₈ , C ₁₂₉ H ₂₆₀ , C ₁₃₀ H ₂₆₂ , C ₁₃₁ H ₂₆₄ , C ₁₃₂ H ₂₆₆ , C ₁₃₃ H ₂₆₈ , C ₁₃₄ H ₂₇₀ , C ₁₃₅ H ₂₇₂ , C ₁₃₆ H ₂₇₄ , C ₁₃₇ H ₂₇₆ , C ₁₃₈ H ₂₇₈ , C ₁₃₉ H ₂₈₀ , C ₁₄₀ H ₂₈₂ , C ₁₄₁ H ₂₈₄ , C ₁₄₂ H ₂₈₆ , C ₁₄₃ H ₂₈₈ , C ₁₄₄ H ₂₉₀ , C ₁₄₅ H ₂₉₂ , C ₁₄₆ H ₂₉₄ , C ₁₄₇ H ₂₉₆ , C ₁₄₈ H ₂₉₈ , C ₁₄₉ H ₃₀₀ , C ₁₅₀ H ₃₀₂ , C ₁₅₁ H ₃₀₄ , C ₁₅₂ H ₃₀₆ , C ₁₅₃ H ₃₀₈ , C ₁₅₄ H ₃₁₀ , C ₁₅₅ H ₃₁₂ , C ₁₅₆ H ₃₁₄ , C ₁₅₇ H ₃₁₆ , C ₁₅₈ H ₃₁₈ , C ₁₅₉ H ₃₂₀ , C ₁₆₀ H ₃₂₂ , C ₁₆₁ H ₃₂₄ , C ₁₆₂ H ₃₂₆ , C ₁₆₃ H ₃₂₈ , C ₁₆₄ H ₃₃₀ , C ₁₆₅ H ₃₃₂ , C ₁₆₆ H ₃₃₄ , C ₁₆₇ H ₃₃₆ , C ₁₆₈ H ₃₃₈ , C ₁₆₉ H ₃₄₀ , C ₁₇₀ H ₃₄₂ , C ₁₇₁ H ₃₄₄ , C ₁₇₂ H ₃₄₆ , C ₁₇₃ H ₃₄₈ , C ₁₇₄ H ₃₅₀ , C ₁₇₅ H ₃₅₂ , C ₁₇₆ H ₃₅₄ , C ₁₇₇ H ₃₅₆ , C ₁₇₈ H ₃₅₈ , C ₁₇₉ H ₃₆₀ , C ₁₈₀ H ₃₆₂ , C ₁₈₁ H ₃₆₄ , C ₁₈₂ H ₃₆₆ , C ₁₈₃ H ₃₆₈ , C ₁₈₄ H ₃₇₀ , C ₁₈₅ H ₃₇₂ , C ₁₈₆ H ₃₇₄ , C ₁₈₇ H ₃₇₆ , C ₁₈₈ H ₃₇₈ , C ₁₈₉ H ₃₈₀ , C ₁₉₀ H ₃₈₂ , C ₁₉₁ H ₃₈₄ , C ₁₉₂ H ₃₈₆ , C ₁₉₃ H ₃₈₈ , C ₁₉₄ H ₃₉₀ , C ₁₉₅ H ₃₉₂ , C ₁₉₆ H ₃₉₄ , C ₁₉₇ H ₃₉₆ , C ₁₉₈ H ₃₉₈ , C ₁₉₉ H ₄₀₀ , C ₂₀₀ H ₄₀₂ , C ₂₀₁ H ₄₀₄ , C ₂₀₂ H ₄₀₆ , C ₂₀₃ H ₄₀₈ , C ₂₀₄ H ₄₁₀ , C ₂₀₅ H ₄₁₂ , C ₂₀₆ H ₄₁₄ , C ₂₀₇ H ₄₁₆ , C ₂₀₈ H ₄₁₈ , C ₂₀₉ H ₄₂₀ , C ₂₁₀ H ₄₂₂ , C ₂₁₁ H ₄₂₄ , C ₂₁₂ H ₄₂₆ , C ₂₁₃ H ₄₂₈ , C ₂₁₄ H ₄₃₀ , C ₂₁₅ H ₄₃₂ , C ₂₁₆ H ₄₃₄ , C ₂₁₇ H ₄₃₆ , C ₂₁₈ H ₄₃₈ , C ₂₁₉ H ₄₄₀ , C ₂₂₀ H ₄₄₂ , C ₂₂₁ H ₄₄₄ , C ₂₂₂ H ₄₄₆ , C ₂₂₃ H ₄₄₈ , C ₂₂₄ H ₄₅₀ , C ₂₂₅ H ₄₅₂ , C ₂₂₆ H ₄₅₄ , C ₂₂₇ H ₄₅₆ , C ₂₂₈ H ₄₅₈ , C ₂₂₉ H ₄₆₀ , C ₂₃₀ H ₄₆₂ , C ₂₃₁ H ₄₆₄ , C ₂₃₂ H ₄₆₆ , C ₂₃₃ H ₄₆₈ , C ₂₃₄ H ₄₇₀ , C ₂₃₅ H ₄₇₂ , C ₂₃₆ H ₄₇₄ , C ₂₃₇ H ₄₇₆ , C ₂₃₈ H ₄₇₈ , C ₂₃₉ H ₄₈₀ , C ₂₄₀ H ₄₈₂ , C ₂₄₁ H ₄₈₄ , C ₂₄₂ H ₄₈₆ , C ₂₄₃ H ₄₈₈ , C ₂₄₄ H ₄₉₀ , C ₂₄₅ H ₄₉₂ , C ₂₄₆ H ₄₉₄ , C ₂₄₇ H ₄₉₆ , C ₂₄₈ H ₄₉₈ , C ₂₄₉ H ₅₀₀ , C ₂₅₀ H ₅₀₂ , C ₂₅₁ H ₅₀₄ , C ₂₅₂ H ₅₀₆ , C ₂₅₃ H ₅₀₈ , C ₂₅₄ H ₅₁₀ , C ₂₅₅ H ₅₁₂ , C ₂₅₆ H ₅₁₄ , C ₂₅₇ H ₅₁₆ , C ₂₅₈ H ₅₁₈ , C ₂₅₉ H ₅₂₀ , C ₂₆₀ H ₅₂₂ , C ₂₆₁ H ₅₂₄ , C ₂₆₂ H ₅₂₆ , C ₂₆₃ H ₅₂₈ , C ₂₆₄ H ₅₃₀ , C ₂₆₅ H ₅₃₂ , C ₂₆₆ H ₅₃₄ , C ₂₆₇ H ₅₃₆ , C ₂₆₈ H ₅₃₈ , C ₂₆₉ H ₅₄₀ , C ₂₇₀ H ₅₄₂ , C ₂₇₁ H ₅₄₄ , C ₂₇₂ H ₅₄₆ , C ₂₇₃ H ₅₄₈ , C ₂₇₄ H ₅₅₀ , C ₂₇₅ H ₅₅₂ , C ₂₇₆ H ₅₅₄ , C ₂₇₇ H ₅₅₆ , C ₂₇₈ H ₅₅₈ , C ₂₇₉ H ₅₆₀ , C ₂₈₀ H ₅₆₂ , C ₂₈₁ H ₅₆₄ , C ₂₈₂ H ₅₆₆ , C ₂₈₃ H ₅₆₈ , C ₂₈₄ H ₅₇₀ , C ₂₈₅ H ₅₇₂ , C ₂₈₆ H ₅₇₄ , C ₂₈₇ H ₅₇₆ , C ₂₈₈ H ₅₇₈ , C ₂₈₉ H ₅₈₀ , C ₂₉₀ H ₅₈₂ , C ₂₉₁ H ₅₈₄ , C ₂₉₂ H ₅₈₆ , C ₂₉₃ H ₅₈₈ , C ₂₉₄ H ₅₉₀ , C ₂₉₅ H ₅₉₂ , C ₂₉₆ H ₅₉₄ , C ₂₉₇ H ₅₉₆ , C ₂₉₈ H ₅₉₈ , C ₂₉₉ H ₆₀₀ , C ₃₀₀ H ₆₀₂ , C ₃₀₁ H ₆₀₄ , C ₃₀₂ H ₆₀₆ , C ₃₀₃ H ₆₀₈ , C ₃₀₄ H ₆₁₀ , C ₃₀₅ H ₆₁₂ , C ₃₀₆ H ₆₁₄ , C ₃₀₇ H ₆₁₆ , C ₃₀₈ H ₆₁₈ , C ₃₀₉ H ₆₂₀ , C ₃₁₀ H ₆₂₂ , C ₃₁₁ H ₆₂₄ , C ₃₁₂ H ₆₂₆ , C ₃₁₃ H ₆₂₈ , C ₃₁₄ H ₆₃₀ , C ₃₁₅ H ₆₃₂ , C ₃₁₆ H ₆₃₄ , C ₃₁₇ H ₆₃₆ , C ₃₁₈ H ₆₃₈ , C ₃₁₉ H ₆₄₀ , C ₃₂₀ H ₆₄₂ , C ₃₂₁ H ₆₄₄ , C ₃₂₂ H ₆₄₆ , C ₃₂₃ H ₆₄₈ , C ₃₂₄ H ₆₅₀ , C ₃₂₅ H ₆₅₂ , C ₃₂₆ H ₆₅₄ , C ₃₂₇ H ₆₅₆ , C ₃₂₈ H ₆₅₈ , C ₃₂₉ H ₆₆₀ , C ₃₃₀ H ₆₆₂ , C ₃₃₁ H ₆₆₄ , C ₃₃₂ H ₆₆₆ , C ₃₃₃ H ₆₆₈ , C ₃₃₄ H ₆₇₀ , C ₃₃₅ H ₆₇₂ , C ₃₃₆ H ₆₇₄ , C ₃₃₇ H ₆₇₆ , C ₃₃₈ H ₆₇₈ , C ₃₃₉ H ₆₈₀ , C ₃₄₀ H ₆₈₂ , C ₃₄₁ H ₆₈₄ , C ₃₄₂ H ₆₈₆ , C ₃₄₃ H ₆₈₈ , C ₃₄₄ H ₆₉₀ , C ₃₄₅ H ₆₉₂ , C ₃₄₆ H ₆₉₄ , C ₃₄₇ H ₆₉₆ , C ₃₄₈ H ₆₉₈ , C ₃₄₉ H ₇₀₀ , C ₃₅₀ H ₇₀₂ , C ₃₅₁ H ₇₀₄ , C ₃₅₂ H ₇₀₆ , C ₃₅₃ H ₇₀₈ , C ₃₅₄ H ₇₁₀ , C ₃₅₅ H ₇₁₂ , C ₃₅₆ H ₇₁₄ , C ₃₅₇ H ₇₁₆ , C ₃₅₈ H ₇₁₈ , C ₃₅₉ H ₇₂₀ , C ₃₆₀ H ₇₂₂ , C ₃₆₁ H ₇₂₄ , C ₃₆₂ H ₇₂₆ , C ₃₆₃ H ₇₂₈ , C ₃₆₄ H ₇₃₀ , C ₃₆₅ H ₇₃₂ , C ₃₆₆ H ₇₃₄ , C ₃₆₇ H ₇₃₆ , C ₃₆₈ H ₇₃₈ , C ₃₆₉ H ₇₄₀ , C ₃₇₀ H ₇₄₂ , C ₃₇₁ H ₇₄₄ , C ₃₇₂ H ₇₄₆ , C ₃₇₃ H ₇₄₈ , C ₃₇₄ H ₇₅₀ , C ₃₇₅ H ₇₅₂ , C ₃₇₆ H ₇₅₄ , C ₃₇₇ H ₇₅₆ , C ₃₇₈ H ₇₅₈ , C ₃₇₉ H ₇₆₀ , C ₃₈₀ H ₇₆₂ , C ₃₈₁ H ₇₆₄ , C ₃₈₂ H ₇₆₆ , C ₃₈₃ H ₇₆₈ , C ₃₈₄ H ₇₇₀ , C ₃₈₅ H ₇₇₂ , C ₃₈₆ H ₇₇₄ , C ₃₈₇ H ₇₇₆ , C ₃₈₈ H ₇₇₈ , C ₃₈₉ H ₇₈₀ , C ₃₉₀ H ₇₈₂ , C ₃₉₁ H ₇₈₄ , C ₃₉₂ H ₇₈₆ , C ₃₉₃ H ₇₈₈ , C ₃₉₄ H ₇₉₀ , C ₃₉₅ H ₇₉₂ , C ₃₉₆ H ₇₉₄ , C ₃₉₇ H ₇₉₆ , C ₃₉₈ H ₇₉₈ , C ₃₉₉ H ₈₀₀ , C ₄₀₀ H ₈₀₂ , C ₄₀₁ H ₈₀₄ , C ₄₀₂ H ₈₀₆ , C ₄₀₃ H ₈₀₈ , C ₄₀₄ H ₈₁₀ , C ₄₀₅ H ₈₁₂ , C ₄₀₆ H ₈₁₄ , C ₄₀₇ H ₈₁₆ , C ₄₀₈ H ₈₁₈ , C ₄₀₉ H ₈₂₀ , C ₄₁₀ H ₈₂₂ , C ₄₁₁ H ₈₂₄ , C ₄₁₂ H ₈₂₆ , C ₄₁₃ H ₈₂₈ , C ₄₁₄ H ₈₃₀ , C ₄₁₅ H ₈₃₂ , C ₄₁₆ H ₈₃₄ , C ₄₁₇ H ₈₃₆ , C ₄₁₈ H ₈₃₈ , C ₄₁₉ H ₈₄₀ , C ₄₂₀ H ₈₄₂ , C ₄₂₁ H ₈₄₄ , C ₄₂₂ H ₈₄₆ , C ₄₂₃ H ₈₄₈ , C ₄₂₄ H ₈₅₀ , C ₄₂₅ H ₈₅₂ , C ₄₂₆ H ₈₅₄ , C ₄₂₇ H ₈₅₆ , C ₄₂₈ H ₈₅₈ , C ₄₂₉ H ₈₆₀ , C ₄₃₀ H ₈₆₂ , C ₄₃₁ H ₈₆₄ , C ₄₃₂ H ₈₆₆ , C ₄₃₃ H ₈₆₈ , C ₄₃₄ H ₈₇₀ , C ₄₃₅ H ₈₇₂ , C ₄₃₆ H ₈₇₄ , C ₄₃₇ H ₈₇₆ , C ₄₃₈ H ₈₇₈ , C ₄₃₉ H ₈₈₀ , C ₄₄₀ H ₈₈₂ , C ₄₄₁ H ₈₈₄ , C ₄₄₂ H ₈₈₆ , C ₄₄₃ H ₈₈₈ , C ₄₄₄ H ₈₉₀ , C ₄₄₅ H ₈₉₂ , C ₄₄₆ H ₈₉₄ , C ₄₄₇ H ₈₉₆ , C ₄₄₈ H ₈₉₈ , C ₄₄₉ H ₉₀₀ , C ₄₅₀ H ₉₀₂ , C ₄₅₁ H ₉₀₄ , C ₄₅₂ H ₉₀₆ , C ₄₅₃ H ₉₀₈ , C ₄₅₄ H ₉₁₀ , C ₄₅₅ H ₉₁₂ , C ₄₅₆ H ₉₁₄ , C ₄₅₇ H ₉₁₆ , C ₄₅₈ H ₉₁₈ , C ₄₅₉ H ₉₂₀ , C ₄₆₀ H ₉₂₂ , C ₄₆₁ H ₉₂₄ , C ₄₆₂ H ₉₂₆ , C ₄₆₃ H ₉₂₈ , C ₄₆₄ H ₉₃₀ , C ₄₆₅ H ₉₃₂ , C ₄₆₆ H ₉₃₄ , C ₄₆₇ H ₉₃₆ , C ₄₆₈ H ₉₃₈ , C ₄₆₉ H ₉₄₀ , C ₄₇₀ H ₉₄₂ , C ₄₇₁ H ₉₄₄ , C ₄₇₂ H ₉₄₆ , C ₄₇₃ H ₉₄₈ , C ₄₇₄ H ₉₅₀ , C ₄₇₅ H ₉₅₂ , C ₄₇₆ H ₉₅₄ , C ₄₇₇ H ₉₅₆ , C ₄₇₈ H ₉₅₈ , C ₄₇₉ H ₉₆₀ , C ₄₈₀ H ₉₆₂ , C ₄₈₁ H ₉₆₄ , C ₄₈₂ H ₉₆₆ , C ₄₈₃ H ₉₆₈ , C ₄₈₄ H ₉₇₀ , C ₄₈₅ H ₉₇₂ , C ₄₈₆ H ₉₇₄ , C ₄₈₇ H ₉₇₆ , C ₄₈₈ H ₉₇₈ , C ₄₈₉ H ₉₈₀ , C ₄₉₀ H ₉₈₂ , C ₄₉₁ H ₉₈₄ , C ₄₉₂ H ₉₈₆ , C ₄₉₃ H ₉₈₈ , C ₄₉₄ H ₉₉₀ , C ₄₉₅ H ₉₉₂ , C ₄₉₆ H ₉₉₄ , C ₄₉₇ H ₉₉₆ , C ₄₉₈ H ₉₉₈ , C ₄₉₉ H ₁₀₀₀ , C ₅₀₀ H ₁₀₀₂ , C ₅₀₁ H ₁₀₀₄ , C ₅₀₂ H ₁₀₀₆ , C ₅₀₃ H ₁₀₀₈ , C ₅₀₄ H ₁₀₁₀ , C ₅₀₅ H ₁₀₁₂ , C ₅₀₆ H ₁₀₁₄ , C ₅₀₇ H ₁₀₁₆ , C ₅₀₈ H ₁₀₁₈ , C ₅₀₉ H ₁₀₂₀ , C ₅₁₀ H ₁₀₂₂ , C ₅₁₁ H ₁₀₂₄ , C ₅₁₂ H ₁₀₂₆ , C ₅₁₃ H ₁₀₂₈ , C ₅₁₄ H ₁₀₃₀ , C ₅₁₅ H ₁₀₃₂ , C ₅₁₆ H ₁₀₃₄ , C ₅₁₇ H ₁₀₃₆ , C ₅₁₈ H ₁₀₃₈ , C ₅₁₉ H ₁₀₄₀ , C ₅₂₀ H ₁₀₄₂ , C ₅₂₁ H ₁₀₄₄ , C ₅₂₂ H ₁₀₄₆ , C ₅₂₃ H ₁₀₄₈ , C ₅₂₄ H ₁₀₅₀ , C ₅₂₅ H ₁₀₅₂ , C ₅₂₆ H ₁₀₅₄ , C ₅₂₇ H ₁₀₅₆ , C ₅₂₈ H ₁₀₅₈ , C ₅₂₉ H ₁₀₆₀ , C ₅₃₀ H ₁₀₆₂ , C ₅₃₁ H ₁₀₆₄ , C ₅₃₂ H ₁₀₆₆ , C ₅₃₃ H ₁₀₆₈ , C ₅₃₄ H ₁₀₇₀ , C ₅₃₅ H ₁₀₇₂ , C ₅₃₆ H ₁₀₇₄ , C ₅₃₇ H ₁₀₇₆ , C ₅₃₈ H ₁₀₇₈ , C ₅₃₉ H ₁₀₈₀ , C ₅₄₀ H ₁₀₈₂ , C ₅₄₁ H ₁₀₈₄ , C ₅₄₂ H ₁₀₈₆ , C ₅₄₃ H ₁₀₈₈ , C ₅₄₄ H ₁₀₉₀ , C ₅₄₅ H ₁₀₉₂ , C ₅₄₆ H ₁₀₉₄ , C ₅₄₇ H ₁₀₉₆ , C ₅₄₈ H ₁₀₉₈ , C ₅₄₉ H ₁₁₀₀ , C ₅₅₀ H ₁₁₀₂ , C ₅₅₁ H ₁₁₀₄ , C ₅₅₂ H ₁₁₀₆ , C ₅₅₃ H ₁₁₀₈ , C ₅₅₄ H ₁₁₁₀ , C ₅₅₅ H ₁₁₁₂ , C ₅₅₆ H ₁₁₁₄ , C ₅₅₇ H ₁₁₁₆ , C ₅₅₈ H ₁₁₁₈ , C ₅₅₉ H ₁₁₂₀ , C ₅₆₀ H ₁₁₂₂ , C ₅₆₁ H ₁₁₂₄ , C ₅₆₂ H ₁₁₂₆ , C ₅₆₃ H ₁₁₂₈ , C ₅₆₄ H ₁₁₃₀ , C ₅₆₅ H ₁₁₃₂ , C ₅₆₆ H ₁₁₃₄ , C ₅₆₇ H ₁₁₃₆ , C ₅₆₈ H ₁₁₃₈ , C ₅₆₉ H ₁₁₄₀ , C ₅₇₀ H ₁₁₄₂ , C ₅₇₁ H ₁₁₄₄ , C ₅₇₂ H ₁₁₄₆ , C ₅₇₃ H ₁₁₄₈ , C ₅₇₄ H ₁₁₅₀ , C ₅₇₅ H ₁₁₅₂ , C ₅₇₆ H ₁₁₅₄ , C ₅₇₇ H ₁₁₅₆ , C ₅₇₈ H ₁₁₅₈ , C ₅₇₉ H ₁₁₆₀ , C ₅₈₀ H ₁₁₆₂ , C ₅₈₁ H ₁₁₆₄ , C ₅₈₂ H ₁₁₆₆ , C ₅₈₃ H ₁₁₆₈ , C ₅₈₄ H ₁₁₇₀ , C ₅₈₅ H ₁₁₇₂ , C ₅₈₆ H ₁₁₇₄ , C ₅₈₇ H ₁₁₇₆ , C ₅₈₈ H ₁₁₇₈ , C ₅₈₉ H ₁₁₈₀ , C ₅₉₀ H ₁₁₈₂ , C ₅₉₁ H ₁₁₈₄ , C ₅₉₂ H ₁₁₈₆ , C ₅₉₃ H ₁₁₈₈ , C ₅₉₄ H ₁₁₉₀ , C ₅₉₅ H ₁₁₉₂ , C ₅₉₆ H ₁₁₉₄ , C ₅₉₇ H ₁₁₉₆ , C ₅₉₈ H ₁₁₉₈ , C ₅₉₉ H ₁₂₀₀ , C ₆₀₀ H ₁₂₀₂ , C ₆₀₁ H ₁₂₀₄ , C ₆₀₂ H ₁₂₀₆ , C ₆₀₃ H ₁₂₀₈ , C ₆₀₄ H ₁₂₁₀ , C ₆₀₅ H ₁₂₁₂ , C ₆₀₆ H ₁₂₁₄ , C ₆₀₇ H ₁₂₁₆ , C ₆₀₈ H ₁₂₁₈ , C ₆₀₉ H ₁₂₂₀ , C ₆₁₀ H ₁₂₂₂ , C ₆₁₁ H ₁₂₂₄ , C ₆₁₂ H ₁₂₂₆ , C ₆₁₃ H ₁₂₂₈ , C ₆₁₄ H ₁₂₃₀ , C ₆₁₅ H ₁₂₃₂ , C ₆₁₆ H ₁₂₃₄ , C ₆₁₇ H ₁₂₃₆ , C ₆₁₈ H ₁₂₃₈ , C ₆₁₉		

#	ARTICLE	IF	CITATIONS
164	Stratospheric superrotation in the TitanWRF model. <i>Icarus</i> , 2011, 213, 636-654.	2.5	81
165	CONSTRAINTS ON CHARON'S ORBITAL ELEMENTS FROM THE DOUBLE STELLAR OCCULTATION OF 2008 JUNE 22. <i>Astronomical Journal</i> , 2011, 141, 67.	4.7	21
166	Potential Climatic Impact of Organic Haze on Early Earth. <i>Astrobiology</i> , 2011, 11, 135-149.	3.0	43
167	THERMAL AND CHEMICAL STRUCTURE VARIATIONS IN TITAN'S STRATOSPHERE DURING THE CASSINI MISSION. <i>Astrophysical Journal</i> , 2012, 760, 144.	4.5	25
168	ISOTOPIC RATIOS IN TITAN'S METHANE: MEASUREMENTS AND MODELING. <i>Astrophysical Journal</i> , 2012, 749, 159.	4.5	91
169	Formulation of a wind specification for Titan late polar summer exploration. <i>Planetary and Space Science</i> , 2012, 70, 73-83.	1.7	31
170	On the formation of polyacetylenes and cyanopolyacetylenes in Titan's atmosphere and their role in astrobiology. <i>Chemical Society Reviews</i> , 2012, 41, 5490.	38.1	40
171	Titan Tholins: Simulating Titan Organic Chemistry in the Cassini-Huygens Era. <i>Chemical Reviews</i> , 2012, 112, 1882-1909.	47.7	193
172	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. <i>Nature</i> , 2012, 491, 732-735.	27.8	80
173	NMR identification of hexamethylenetetramine and its precursor in Titan tholins: Implications for Titan prebiotic chemistry. <i>Icarus</i> , 2012, 220, 627-634.	2.5	23
174	Life in the Saturnian Neighborhood. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 485-522.	0.3	0
175	The structure of Titan's atmosphere from Cassini radio occultations: Occultations from the Prime and Equinox missions. <i>Icarus</i> , 2012, 221, 1020-1031.	2.5	58
176	Large Habitable Moons. , 2012, , 175-200.		4
177	Ab initio effective rotational Hamiltonians: A comparative study. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2201-2220.	2.0	26
178	Cyanoacetylene (HC ₃ N) and ammonia (NH ₃) complexes: A DFT theoretical and experimental study. <i>Chemical Physics</i> , 2012, 400, 98-102.	1.9	2
179	Titan global climate model: A new 3-dimensional version of the IPSL Titan GCM. <i>Icarus</i> , 2012, 218, 707-722.	2.5	141
180	Dissipation of Titan's north polar cloud at northern spring equinox. <i>Planetary and Space Science</i> , 2012, 60, 86-92.	1.7	33
181	Titan's atmosphere and surface liquid: New calculation using Statistical Associating Fluid Theory. <i>Icarus</i> , 2013, 222, 53-72.	2.5	60

#	ARTICLE	IF	CITATIONS
182	A model of variability in Titan's atmospheric structure. <i>Planetary and Space Science</i> , 2013, 86, 45-56.	1.7	14
183	Identification of nitrogenous organic species in Titan aerosols analogs: Nitrogen fixation routes in early atmospheres. <i>Icarus</i> , 2013, 226, 33-40.	2.5	22
184	The two-micron spectral characteristics of the Titanian haze derived from Cassini/VIMS solar occultation spectra. <i>Planetary and Space Science</i> , 2013, 88, 93-99.	1.7	8
185	Irradiated benzene ice provides clues to meteoritic organic chemistry. <i>Icarus</i> , 2013, 226, 1201-1209.	2.5	23
186	An improved third order dipole moment surface for methane. <i>Journal of Molecular Spectroscopy</i> , 2013, 291, 77-84.	1.2	19
187	Observed Ices in the Solar System. <i>Astrophysics and Space Science Library</i> , 2013, , 3-46.	2.7	17
188	LARGE ABUNDANCES OF POLYCYCLIC AROMATIC HYDROCARBONS IN TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2013, 770, 132.	4.5	106
189	Low Temperature Rate Coefficients for the Reaction $CN + HC_3N$. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12155-12164.	2.5	20
190	Low-Temperature Mechanisms for the Formation of Substituted Azanaphthalenes through Consecutive CN and C_2H Additions to Styrene and <i>N</i> -Methylenebenzenamine: A Theoretical Study. <i>Journal of the American Chemical Society</i> , 2013, 135, 7251-7263.	13.7	14
191	Constraints on Titan's middle atmosphere ammonia abundance from Herschel/SPIRE sub-millimetre spectra. <i>Planetary and Space Science</i> , 2013, 75, 136-147.	1.7	50
192	Simulations of the latitudinal variability of CO_2 and OCS passive tracers below the clouds of Venus using the Laboratoire de Météorologie Dynamique GCM. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1983-1990.	3.6	7
193	IN SITU MEASUREMENTS OF THE SIZE AND DENSITY OF TITAN AEROSOL ANALOGS. <i>Astrophysical Journal Letters</i> , 2013, 770, L10.	8.3	52
194	EVOLUTION OF THE STRATOSPHERIC TEMPERATURE AND CHEMICAL COMPOSITION OVER ONE TITANIAN YEAR. <i>Astrophysical Journal</i> , 2013, 779, 177.	4.5	47
195	DISTRIBUTION OF CO_2 IN SATURN'S ATMOSPHERE FROM CASSINI/CIRS INFRARED OBSERVATIONS. <i>Astrophysical Journal</i> , 2013, 776, 73.	4.5	7
196	DETECTION OF PROPENE IN TITAN'S STRATOSPHERE. <i>Astrophysical Journal Letters</i> , 2013, 776, L14.	8.3	84
197	Strong Temporal Variation Over One Saturnian Year: From Voyager to Cassini. <i>Scientific Reports</i> , 2013, 3, 2410.	3.3	11
198	Atmospheric Prebiotic Chemistry and Organic Hazes. <i>Current Organic Chemistry</i> , 2013, 17, 1710-1723.	1.6	48
199	The general circulation of Titan's lower and middle atmosphere. , 2014, , 122-157.		9

#	ARTICLE	IF	CITATIONS
200	The composition of Titan's atmosphere. , 2014, , 158-189.		14
201	Titan's ionosphere. , 2014, , 376-418.		16
202	Science goals and mission concept for the future exploration of Titan and Enceladus. Planetary and Space Science, 2014, 104, 59-77.	1.7	15
203	Adaptive real-time dual-comb spectroscopy. Nature Communications, 2014, 5, 3375.	12.8	298
204	Solubility and stability investigation of Titan aerosol analogs: New insight from NMR analysis. Icarus, 2014, 232, 54-59.	2.5	12
205	Spectroscopy from Space. Reviews in Mineralogy and Geochemistry, 2014, 78, 399-446.	4.8	17
206	The distribution of methane in Titan's stratosphere from Cassini/CIRS observations. Icarus, 2014, 231, 323-337.	2.5	43
207	ALMA MEASUREMENTS OF THE HNC AND HC ₃ N DISTRIBUTIONS IN TITAN'S ATMOSPHERE. Astrophysical Journal Letters, 2014, 795, L30.	8.3	53
208	A comprehensive NMR structural study of Titan aerosol analogs: Implications for Titan's atmospheric chemistry. Icarus, 2014, 243, 31-38.	2.5	22
209	The Titan Haze Simulation experiment on COSMIC: Probing Titan's atmospheric chemistry at low temperature. Icarus, 2014, 243, 325-336.	2.5	32
210	Identification of primary amines in Titan tholins using microchip nonaqueous capillary electrophoresis. Earth and Planetary Science Letters, 2014, 403, 99-107.	4.4	34
211	The methane mole fraction in Titan's stratosphere from DISR measurements during the Huygens probe's descent. Icarus, 2014, 242, 64-73.	2.5	46
212	Identification of nitrogenous organic species in Titan aerosols analogs: Implication for prebiotic chemistry on Titan and early Earth. Icarus, 2014, 238, 86-92.	2.5	37
213	Developing a self-consistent description of Titan's upper atmosphere without hydrodynamic escape. Journal of Geophysical Research: Space Physics, 2014, 119, 4957-4972.	2.4	38
214	<i>Herschel</i>/PACS spectroscopy of trace gases of the stratosphere of Titan. Astronomy and Astrophysics, 2014, 561, A4.	5.1	35
215	EMPIRICAL LINE LISTS AND ABSORPTION CROSS SECTIONS FOR METHANE AT HIGH TEMPERATURES. Astrophysical Journal, 2015, 813, 12.	4.5	50
216	Temperature dependences of N ₂ -broadening and shift coefficients in the $\hat{1}/26$ perpendicular band of 12CH ₃ D. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 163, 120-141.	2.3	11
217	Electrical interferences observed in the Cassini CIRS spectrometer. Experimental Astronomy, 2015, 39, 367-386.	3.7	3

#	ARTICLE	IF	CITATIONS
218	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. <i>Astrophysical Journal Letters</i> , 2015, 800, L14.	8.3	73
219	Interiors and Evolution of Icy Satellites. , 2015, , 605-635.		24
220	Relative high-resolution absorption cross sections of C ₂ H ₆ at low temperatures. <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 102-106.	1.2	8
221	Twilight on Ligeia: Implications of communications geometry and seasonal winds for exploring Titan's seas 2020-2040. <i>Advances in Space Research</i> , 2015, 56, 190-204.	2.6	5
222	GCM simulations of Titan's middle and lower atmosphere and comparison to observations. <i>Icarus</i> , 2015, 250, 516-528.	2.5	97
223	Optical constants of Titan aerosols and their tholins analogs: Experimental results and modeling/observational data. <i>Planetary and Space Science</i> , 2015, 109-110, 159-174.	1.7	31
224	Seasonal variations in Titan's middle atmosphere during the northern spring derived from Cassini/CIRS observations. <i>Icarus</i> , 2015, 250, 95-115.	2.5	99
225	The neutral photochemistry of nitriles, amines and imines in the atmosphere of Titan. <i>Icarus</i> , 2015, 247, 218-247.	2.5	118
226	An intensity study of the torsional bands of ethane at 35 Åµm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 151, 123-132.	2.3	13
227	The Climate of Titan. <i>Annual Review of Earth and Planetary Sciences</i> , 2016, 44, 353-380.	11.0	64
228	Exploring the depths of Kraken Mare – Power, thermal analysis, and ballast control for the Saturn Titan submarine. <i>Cryogenics</i> , 2016, 74, 31-46.	1.7	28
229	COMPOSITIONAL SIMILARITIES AND DISTINCTIONS BETWEEN TITAN'S EVAPORITIC TERRAINS. <i>Astrophysical Journal</i> , 2016, 821, 17.	4.5	21
230	Pressure dependent low temperature kinetics for CN + CH ₃ : competition between chemical reaction and van der Waals complex formation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15118-15132.	2.8	21
231	Uptake of acetylene on cosmic dust and production of benzene in Titan's atmosphere. <i>Icarus</i> , 2016, 278, 88-99.	2.5	14
232	Effects of a Single Water Molecule on the Reaction Barrier of Interstellar CO ₂ Formation Reaction. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6596-6603.	2.5	17
233	Titan's organic aerosols: Molecular composition and structure of laboratory analogues inferred from pyrolysis gas chromatography mass spectrometry analysis. <i>Icarus</i> , 2016, 277, 442-454.	2.5	16
234	ISOTOPIC RATIOS OF CARBON AND OXYGEN IN TITAN'S CO USING ALMA. <i>Astrophysical Journal Letters</i> , 2016, 821, L8.	8.3	46
235	Search for methane isotope fractionation due to Rayleigh distillation on Titan. <i>Icarus</i> , 2016, 275, 232-238.	2.5	2

#	ARTICLE	IF	CITATIONS
236	Physico-chemical models of the internal structure of partially differentiated Titan. <i>Geochemistry International</i> , 2016, 54, 27-47.	0.7	12
237	Temperature dependences of self- and N ₂ -broadened line-shape parameters in the $\hat{\nu}_{23}$ and $\hat{\nu}_{25}$ bands of 12CH ₃ D: Measurements and calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 181-215.	2.3	10
238	Low-Temperature Alkaline pH Hydrolysis of Oxygen-Free Titan Tholins: Carbonates' Impact. <i>Astrobiology</i> , 2017, 17, 8-26.	3.0	19
239	The effect of like-charge attraction on aerosol growth in the atmosphere of Titan. <i>Icarus</i> , 2017, 291, 245-253.	2.5	18
240	Ethylene-1-13C (13C12CH ₄): First analysis of the $\hat{\nu}_{22}$, $\hat{\nu}_{23}$ and $2\hat{\nu}_{10}$ bands and re-analysis of the $\hat{\nu}_{12}$ band and of the ground vibrational state. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 403-413.	2.3	7
241	Titan's atmosphere and climate. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 432-482.	3.6	228
242	Semi-empirical calculations of line-shape parameters and their temperature dependences for parallel bands of monodeuterated methane perturbed by nitrogen. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 355-366.	2.3	4
243	Disruption of Saturn's quasi-periodic equatorial oscillation by the great northern storm. <i>Nature Astronomy</i> , 2017, 1, 765-770.	10.1	37
244	The formation and evolution of Titan's winter polar vortex. <i>Nature Communications</i> , 2017, 8, 1586.	12.8	41
245	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.	2.5	5
246	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 3-69.	2.3	2,840
247	Kinetics of CO ⁺ and CO ₂ ⁺ with N and O atoms. <i>Journal of Chemical Physics</i> , 2018, 148, 084305.	3.0	13
248	Equatorial Oscillation and Planetary Wave Activity in Saturn's Stratosphere Through the Cassini Epoch. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 246-261.	3.6	19
249	Chemistry During the Gas-Rich Stage of Planet Formation. , 2018, , 1-30.		1
250	Semi-empirical calculations of line-shape parameters and their temperature dependences for the $\hat{\nu}_{6}$ band of CH ₃ D perturbed by N ₂ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 212, 75-87.	2.3	3
251	Laboratory investigations of Titan haze formation: In situ measurement of gas and particle composition. <i>Icarus</i> , 2018, 301, 136-151.	2.5	37
252	The reaction of C ₅ N ⁺ with acetylene as a possible intermediate step to produce large anions in Titan's ionosphere. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5377-5388.	2.8	4
253	Spatial variations in Titan's atmospheric temperature: ALMA and Cassini comparisons from 2012 to 2015. <i>Icarus</i> , 2018, 307, 380-390.	2.5	16

#	ARTICLE	IF	CITATIONS
254	Organic Ices in Titan's Stratosphere. Space Science Reviews, 2018, 214, 1.	8.1	34
255	Chemistry During the Gas-Rich Stage of Planet Formation. , 2018, , 2221-2250.		7
256	In situ investigation of neutrals involved in the formation of Titan tholins. Icarus, 2019, 317, 182-196.	2.5	17
257	Numerical Modeling of the General Circulation of the Atmosphere of Titan at Equinox. Solar System Research, 2019, 53, 278-293.	0.7	1
258	Cassini Composite Infrared Spectrometer (CIRS) Observations of Titan 2004-2017. Astrophysical Journal, Supplement Series, 2019, 244, 14.	7.7	12
259	Measurement of CH ₃ D on Titan at Submillimeter Wavelengths. Astronomical Journal, 2019, 157, 219.	4.7	8
260	An equatorial thermal wind equation: Applications to Jupiter. Icarus, 2019, 324, 198-223.	2.5	12
261	Seasonal Evolution of Titan's Stratosphere During the Cassini Mission. Geophysical Research Letters, 2019, 46, 3079-3089.	4.0	37
262	Seasonal Variations of Titan's Brightness. Geophysical Research Letters, 2019, 46, 13649-13657.	4.0	4
263	Photoreactivity of condensed acetylene on Titan aerosols analogues. Icarus, 2019, 321, 358-366.	2.5	11
264	Abundance measurements of Titan's stratospheric HCN, HC ₃ N, C ₃ H ₄ , and CH ₃ CN from ALMA observations. Icarus, 2019, 319, 417-432.	2.5	36
265	N ₂ and H ₂ broadened isobutane infrared absorption cross sections and butane upper limits on Titan. Icarus, 2020, 344, 113460.	2.5	9
266	Titan's neutral atmosphere seasonal variations up to the end of the Cassini mission. Icarus, 2020, 344, 113413.	2.5	14
267	Mapping the zonal structure of Titan's northern polar vortex. Icarus, 2020, 337, 113441.	2.5	12
268	Seasonal changes in the middle atmosphere of Titan from Cassini/CIRS observations: Temperature and trace species abundance profiles from 2004 to 2017. Icarus, 2020, 344, 113547.	2.5	22
269	The $\frac{1}{4}$ absorption in Titan's stratosphere: Contribution of ethane, propane, butane and complex hydrogenated organics. Icarus, 2020, 338, 113571.	2.5	11
270	Superrotation in Planetary Atmospheres. Space Science Reviews, 2020, 216, 1.	8.1	22
271	Temperature and chemical species distributions in the middle atmosphere observed during Titan's late northern spring to early summer. Astronomy and Astrophysics, 2020, 641, A116.	5.1	20

#	ARTICLE	IF	CITATIONS
272	A theory for like-charge attraction of polarizable ions. <i>Journal of Electrostatics</i> , 2020, 105, 103435.	1.9	6
273	Potential vorticity structure of Titan's polar vortices from Cassini CIRS observations. <i>Icarus</i> , 2021, 354, 114030.	2.5	17
274	Haze Seasonal Variations of Titan's Upper Atmosphere during the Cassini Mission. <i>Astrophysical Journal</i> , 2021, 907, 36.	4.5	11
275	<i>Ab initio</i> investigation of the CO-N ₂ quantum scattering: The collisional perturbation of the pure rotational R(0) line in CO. <i>Journal of Chemical Physics</i> , 2021, 154, 054314.	3.0	8
276	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
277	Line-strengths, collisional coefficients and narrowing parameters in the ν_2 band of methane: H ₂ , He, N ₂ , O ₂ , Ar and CO ₂ collider effects. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107758.	2.3	1
278	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107949.	2.3	770
279	Atmospheric Structure and Composition. , 2009, , 235-257.		21
280	Atmospheric Dynamics and Meteorology. , 2009, , 323-352.		11
281	Seasonal Change on Titan. , 2009, , 353-372.		4
282	Volatile Origin and Cycles: Nitrogen and Methane. , 2009, , 177-199.		18
283	Nitrogen in the Stratosphere of Titan from Cassini CIRS Infrared Spectroscopy. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2013, , 123-143.	0.3	2
284	H ₂ -pressure broadening and frequency shifts of methane in the $\nu_2+\nu_3$ band measured in the temperature range between 80 and 370 ÅK. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107264.	2.3	5
286	Quantum-cascade-laser-based dual-comb thermometry and speciation at high temperatures. <i>Measurement Science and Technology</i> , 2021, 32, 035501.	2.6	15
287	Storms, polar deposits and the methane cycle in Titan's atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 713-728.	3.4	20
288	Comparative Climatology of Terrestrial Planets. , 2013, , .		6
289	Identification of DNA Bases and Their Cations in Astrochemical Environments: Computational Spectroscopy of Thymine as a Test Case. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	0
290	4.2.3.7 Atmospheres of the planets and satellites. <i>Landolt-Börnstein - Group VI Astronomy and Astrophysics</i> , 2009, , 491-500.	0.1	0

#	ARTICLE	IF	CITATIONS
291	Titan in the Cassini-Huygens Extended Mission. , 2009, , 455-477.		0
292	Science Instruments and Experiments. , 2009, , 181-240.		0
293	Chemical Composition of Icy Satellite Surfaces. Space Sciences Series of ISSI, 2010, , 111-152.	0.0	0
294	Atmospheric/Exospheric Characteristics of Icy Satellites. Space Sciences Series of ISSI, 2010, , 153-182.	0.0	0
295	Unbiased Estimations of Atmosphere Vortices: The Saturn's Storm by Cassini VIMS-V as Case Study. Journal of Signal and Information Processing, 2016, 07, 75-83.	0.4	0
296	Interaction-induced Dipole Moment. Springer Briefs in Molecular Science, 2017, , 17-50.	0.1	0
297	Titan Submarine. , 2018, , 543-608.		1
298	Cassini at Saturn: The First Results. , 2006, , 217-249.		0
299	Cassini-Huygens. , 2007, , 173-344.		0
300	Astrobiology and Habitability of Titan. Space Sciences Series of ISSI, 2008, , 37-48.	0.0	2
301	Measuring Winds in Titan's Atmosphere with High-precision Doppler Velocimetry. , 2008, , 215-218.		0
302	Low Temperature Plasma for Astrochemistry: Toward a Further Understanding with Continuous and Precise Temperature Control. Plasma and Fusion Research, 2020, 15, 1506041-1506041.	0.7	1
303	A Cross-laboratory Comparison Study of Titan Haze Analogs: Surface Energy. Planetary Science Journal, 2022, 3, 2.	3.6	6
304	Inference of a "Hot Ice" Layer in Nitrogen-Rich Planets: Demixing the Phase Diagram and Phase Composition for Variable Concentration Helium-Nitrogen Mixtures Based on Isothermal Compression. Journal of Physical Chemistry A, 2022, 126, 3745-3757.	2.5	0
305	Variability in Titan's Mesospheric HCN and Temperature Structure as Observed by ALMA. Planetary Science Journal, 2022, 3, 146.	3.6	2
306	Vertical Distribution of Cyclopropenylidene and Propadiene in the Atmosphere of Titan. Astrophysical Journal, 2022, 933, 230.	4.5	3
307	50 Years of Spaceflight with Fourier Transform Spectrometers (FTS) designed at NASA GSFC. , 2022, , .		0
308	Influence of observed seasonally varying composition on Titan's stratospheric circulation. Icarus, 2023, 390, 115291.	2.5	5

#	ARTICLE	IF	CITATIONS
309	Hydrocarbon lakes and seas & internal ocean on Titanâ€™s Resemblance with primitive earthâ€™s prebiotic chemistry. , 2023, , 617-672.		0
310	Mechanisms of like-charge attraction in three-body systems. Journal of Electrostatics, 2023, 122, 103793.	1.9	2
311	Simulation of Cocystal Formation in Planetary Atmospheres: The C ₆ H ₆ :C ₂ H ₂ Cocystal Produced by Gas Deposition. Journal of Physical Chemistry A, 2023, 127, 2322-2335.	2.5	0
312	Experimental Characterization of the Pyridine:Acetylene Co-crystal and Implications for Titanâ€™s Surface. ACS Earth and Space Chemistry, 2023, 7, 597-608.	2.7	2
313	Reaction Kinetics of CN + Toluene and Its Implication on the Production of Aromatic Nitriles in the Taurus Molecular Cloud and Titanâ€™s Atmosphere. Astrophysical Journal, 2023, 950, 55.	4.5	0
314	Temporal Evolution of Titanâ€™s Stratospheric Temperatures and Trace Gases from a Two-dimensional Retrieval of Cassini Composite Infrared Spectrometer Data. Planetary Science Journal, 2023, 4, 140.	3.6	0
315	Mechanisms of like-charge attraction in many-body systems. Journal of Electrostatics, 2023, 126, 103859.	1.9	1
316	Characterizing phase transitions for Titan's surface molecules: Implications for Dragonfly. Planetary and Space Science, 2023, 239, 105804.	1.7	0
317	The Heat and Momentum Budgets of Titan's Middle Atmosphere. Journal of Geophysical Research E: Planets, 2023, 128, .	3.6	0
318	The Composition and Chemistry of Titanâ€™s Atmosphere. ACS Earth and Space Chemistry, 2024, 8, 406-456.	2.7	0