Sandrine Vinatier

List of Publications by Year in descending order

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56 3,457 35 56
papers citations h-index g-index

61 61 61 1628 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	The composition of Titan's stratosphere from Cassini/CIRS mid-infrared spectra. Icarus, 2007, 189, 35-62.	2.5	367
2	Titan's Atmospheric Temperatures, Winds, and Composition. Science, 2005, 308, 975-978.	12.6	318
3	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
4	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission. Icarus, 2010, 205, 559-570.	2.5	168
5	Titan trace gaseous composition from CIRS at the end of the Cassini–Huygens prime mission. Icarus, 2010, 207, 461-476.	2.5	161
6	Oxygen compounds in Titan's stratosphere as observed by Cassini CIRS. Icarus, 2007, 186, 354-363.	2.5	127
7	Vertical profiles of HCN, HC3N, and C2H2 in Titan's atmosphere derived from Cassini/CIRS data. Icarus, 2007, 186, 364-384.	2.5	121
8	Seasonal variations in Titan's middle atmosphere during the northern spring derived from Cassini/CIRS observations. Icarus, 2015, 250, 95-115.	2.5	99
9	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
10	ISOTOPIC RATIOS IN TITAN's METHANE: MEASUREMENTS AND MODELING. Astrophysical Journal, 2012, 749, 159.	4.5	91
11	Heat balance in Titan's atmosphere. Planetary and Space Science, 2008, 56, 648-659.	1.7	84
12	DETECTION OF PROPENE IN TITAN'S STRATOSPHERE. Astrophysical Journal Letters, 2013, 776, L14.	8.3	84
13	Optical constants of Titan's stratospheric aerosols in the 70–1500cmâ^'1 spectral range constrained by Cassini/CIRS observations. Icarus, 2012, 219, 5-12.	2.5	82
14	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. Nature, 2012, 491, 732-735.	27.8	80
15	The Titan 14N/15N and 12C/13C isotopic ratios in HCN from Cassini/CIRS. Icarus, 2007, 191, 712-721.	2.5	75
16	Titan's atmosphere as observed by Cassini/VIMS solar occultations: CH4, CO and evidence for C2H6 absorption. Icarus, 2015, 248, 1-24.	2.5	64
17	Mid- and far-infrared absorption spectroscopy of Titan's aerosols analogues. Icarus, 2012, 221, 320-327.	2.5	63
18	The 12C/13C isotopic ratio in Titan hydrocarbons from Cassini/CIRS infrared spectra. Icarus, 2008, 195, 778-791.	2.5	62

#	Article	IF	Citations
19	HCN ice in Titan's high-altitude southern polar cloud. Nature, 2014, 514, 65-67.	27.8	59
20	Titan's winter polar vortex structure revealed by chemical tracers. Journal of Geophysical Research, 2008, 113, .	3.3	58
21	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
22	Titan's prolific propane: The Cassini CIRS perspective. Planetary and Space Science, 2009, 57, 1573-1585.	1.7	54
23	EVOLUTION OF THE STRATOSPHERIC TEMPERATURE AND CHEMICAL COMPOSITION OVER ONE TITANIAN YEAR. Astrophysical Journal, 2013, 779, 177.	4.5	47
24	Study of Titan's fall southern stratospheric polar cloud composition with Cassini/CIRS: Detection of benzene ice. Icarus, 2018, 310, 89-104.	2.5	46
25	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission II: Aerosol extinction profiles in the 600–1420 cmⰒ1 spectral range. Icarus, 2010, 210, 852-866.	2.5	45
26	Diagnostics of Titan's stratospheric dynamics using Cassini/CIRS data and the 2-dimensional IPSL circulation model. Icarus, 2008, 197, 556-571.	2.5	44
27	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
28	Isotopic Ratios in Titan's Atmosphere from <i>Cassini</i> CIRS Limb Sounding: HC ₃ N in the North. Astrophysical Journal, 2008, 681, L109-L111.	4.5	43
29	The distribution of methane in Titan's stratosphere from Cassini/CIRS observations. Icarus, 2014, 231, 323-337.	2.5	43
30	Isotopic Ratios in Titan's Atmosphere from <i>Cassini</i> CIRS Limb Sounding: CO ₂ at Low and Midlatitudes. Astrophysical Journal, 2008, 681, L101-L103.	4.5	42
31	The formation and evolution of Titan's winter polar vortex. Nature Communications, 2017, 8, 1586.	12.8	41
32	Upper limits for undetected trace species in the stratosphere of Titan. Faraday Discussions, 2010, 147, 65.	3.2	40
33	Detection of C2HD and the D/H ratio on Titan. Icarus, 2008, 197, 539-548.	2.5	39
34	Remote sensing of surface pressure on Mars with the Mars Express/OMEGA spectrometer: 1. Retrieval method. Journal of Geophysical Research, 2007, 112, .	3.3	38
35	Seasonal Evolution of Titan's Stratosphere During the Cassini Mission. Geophysical Research Letters, 2019, 46, 3079-3089.	4.0	37
36	Seasonal evolution of C ₂ N ₂ , C ₃ H ₄ , and C ₄ H ₂ abundances in Titan's lower stratosphere. Astronomy and Astrophysics, 2018, 609, A64.	5.1	32

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37	Remote sensing of surface pressure on Mars with the Mars Express/OMEGA spectrometer: 2. Meteorological maps. Journal of Geophysical Research, 2007, 112, .	3.3	31
38	SEASONAL DISAPPEARANCE OF FAR-INFRARED HAZE IN TITAN'S STRATOSPHERE. Astrophysical Journal Letters, 2012, 754, L3.	8.3	26
39	THERMAL AND CHEMICAL STRUCTURE VARIATIONS IN TITAN'S STRATOSPHERE DURING THE <i>CASSINI</i> MISSION. Astrophysical Journal, 2012, 760, 144.	4.5	25
40	EVOLUTION OF THE FAR-INFRARED CLOUD AT TITAN'S SOUTH POLE. Astrophysical Journal Letters, 2015, 804, L34.	8.3	22
41	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
42	Seasonal radiative modeling of Titan's stratospheric temperatures at low latitudes. Icarus, 2018, 302, 437-450.	2.5	21
43	Detection of Propadiene on Titan. Astrophysical Journal Letters, 2019, 881, L33.	8.3	21
44	Titan: Earth-like on the Outside, Ocean World on the Inside. Planetary Science Journal, 2021, 2, 112.	3.6	21
45	Sounding of Titan's atmosphere at submillimeter wavelengths from an orbiting spacecraft. Planetary and Space Science, 2010, 58, 1724-1739.	1.7	20
46	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
47	FIRST OBSERVATION IN THE SOUTH OF TITAN'S FAR-INFRARED 220 cm ^{–1} CLOUD. Astrophysical Journal Letters, 2012, 761, L15.	8.3	19
48	Stratospheric benzene and hydrocarbon aerosols detected in Saturn's auroral regions. Astronomy and Astrophysics, 2015, 580, A89.	5.1	19
49	A tropical haze band in Titan's stratosphere. Icarus, 2010, 207, 485-490.	2.5	16
50	Cassini Composite Infrared Spectrometer (CIRS) Observations of Titan 2004–2017. Astrophysical Journal, Supplement Series, 2019, 244, 14.	7.7	12
51	Haze Seasonal Variations of Titan's Upper Atmosphere during the Cassini Mission. Astrophysical Journal, 2021, 907, 36.	4.5	11
52	On the H2 abundance and ortho-to-para ratio in Titan's troposphere. Icarus, 2020, 344, 113261.	2.5	7
53	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
54	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). Experimental Astronomy, 2022, 54, 911-973.	3.7	5

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#	Article	IF	CITATIONS
55	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. Planetary Science Journal, 2021, 2, 121.	3.6	4
56	Nitrogen in the Stratosphere of Titan from Cassini CIRS Infrared Spectroscopy. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 123-143.	0.3	2