

ThÃ©rÃ¨se Encrenaz

List of Publications by Year in descending order

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91
papers

5,069
citations

76326

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docs citations

95
times ranked

3796
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#	ARTICLE	IF	CITATIONS
1	Observability of temperate exoplanets with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 375-390.	3.7	1
2	Invited review: Infrared spectroscopy of planetary atmospheres: Searching for insights into their past and present histories. <i>Icarus</i> , 2022, 376, 114885.	2.5	2
3	Climatology of SO ₂ and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset. <i>Icarus</i> , 2020, 335, 113368.	2.5	50
4	HDO and SO ₂ thermal mapping on Venus. <i>Astronomy and Astrophysics</i> , 2020, 639, A69.	5.1	19
5	A stringent upper limit of the PH ₃ abundance at the cloud top of Venus. <i>Astronomy and Astrophysics</i> , 2020, 643, L5.	5.1	49
6	Mars atmospheric chemistry simulations with the GEM-Mars general circulation model. <i>Icarus</i> , 2019, 326, 197-224.	2.5	52
7	HDO and SO ₂ thermal mapping on Venus. <i>Astronomy and Astrophysics</i> , 2019, 623, A70.	5.1	26
8	Ground-based infrared mapping of H ₂ O on Mars near opposition. <i>Astronomy and Astrophysics</i> , 2019, 627, A60.	5.1	8
9	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	119
10	Scientific rationale for Uranus and Neptune in situ explorations. <i>Planetary and Space Science</i> , 2018, 155, 12-40.	1.7	69
11	Transit spectroscopy of temperate Jupiters with ARIEL: a feasibility study. <i>Experimental Astronomy</i> , 2018, 46, 31-44.	3.7	28
12	New measurements of D/H on Mars using EXES aboard SOFIA. <i>Astronomy and Astrophysics</i> , 2018, 612, A112.	5.1	26
13	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	3.7	249
14	Stringent upper limit of CH ₄ on Mars based on SOFIA/EXES observations. <i>Astronomy and Astrophysics</i> , 2018, 610, A78.	5.1	10
15	Thermal Structure and Composition. , 2017, , 42-75.		19
16	Unique Spectroscopy and Imaging of Mars with the <i>James Webb Space Telescope</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018004.	3.1	5
17	Mars: a small terrestrial planet. <i>Astronomy and Astrophysics Review</i> , 2016, 24, 1.	25.5	22
18	HDO and SO ₂ thermal mapping on Venus. <i>Astronomy and Astrophysics</i> , 2016, 595, A74.	5.1	24

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19	A map of D/H on Mars in the thermal infrared using EXES aboard SOFIA. <i>Astronomy and Astrophysics</i> , 2016, 586, A62.	5.1	39
20	Submillimeter mapping of mesospheric minor species on Venus with ALMA. <i>Planetary and Space Science</i> , 2015, 113-114, 275-291.	1.7	45
21	Seasonal variations of hydrogen peroxide and water vapor on Mars: Further indications of heterogeneous chemistry. <i>Astronomy and Astrophysics</i> , 2015, 578, A127.	5.1	53
22	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
23	Transit spectroscopy of exoplanets from space: how to optimize the wavelength coverage and spectral resolving power. <i>Experimental Astronomy</i> , 2015, 40, 523-543.	3.7	29
24	Strong water isotopic anomalies in the martian atmosphere: Probing current and ancient reservoirs. <i>Science</i> , 2015, 348, 218-221.	12.6	245
25	Thermal imaging of Uranus: Upper-tropospheric temperatures one season after Voyager. <i>Icarus</i> , 2015, 260, 94-102.	2.5	22
26	High-resolution imaging spectroscopy of planetary atmospheres. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 145-152.	1.2	2
27	The first submillimeter observation of CO in the stratosphere of Uranus. <i>Astronomy and Astrophysics</i> , 2014, 562, A33.	5.1	52
28	Infrared spectroscopy of exoplanets: observational constraints. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130083.	3.4	6
29	A sensitive search for organics (CH ₄ , CH ₃ OH, H ₂ CO, C ₂ H ₆ , C ₂ H ₂ , C ₂ H ₄), hydroperoxyl (HO ₂), nitrogen compounds (N ₂ O, NH ₃ , HCN) and chlorine species (HCl, CH ₃ Cl) on Mars using ground-based high-resolution infrared spectroscopy. <i>Icarus</i> , 2013, 223, 11-27.	2.5	126
30	Sub-millimeter observations of the terrestrial atmosphere during an Earth flyby of the MIRO sounder on the Rosetta spacecraft. <i>Planetary and Space Science</i> , 2013, 82-83, 99-112.	1.7	3
31	Spectroscopy of planetary atmospheres in our Galaxy. <i>Astronomy and Astrophysics Review</i> , 2013, 21, 1.	25.5	102
32	HDO and SO ₂ thermal mapping on Venus. <i>Astronomy and Astrophysics</i> , 2013, 559, A65.	5.1	26
33	CHARACTERIZING THE ATMOSPHERES OF TRANSITING PLANETS WITH A DEDICATED SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2012, 746, 45.	4.5	49
34	HDO and SO ₂ thermal mapping on Venus: evidence for strong SO ₂ variability. <i>Astronomy and Astrophysics</i> , 2012, 543, A153.	5.1	40
35	EChO. <i>Experimental Astronomy</i> , 2012, 34, 311-353.	3.7	98
36	Hydrogen peroxide on Mars: Observations, interpretation and future plans. <i>Planetary and Space Science</i> , 2012, 68, 3-17.	1.7	72

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37	Continuum and spectroscopic observations of asteroid (21) Lutetia at millimeter and submillimeter wavelengths with the MIRO instrument on the Rosetta spacecraft. <i>Planetary and Space Science</i> , 2012, 66, 31-42.	1.7	38
38	A stringent upper limit to SO ₂ in the Martian atmosphere. <i>Astronomy and Astrophysics</i> , 2011, 530, A37.	5.1	49
39	A spatially resolved high spectral resolution study of Neptune's stratosphere. <i>Icarus</i> , 2011, 214, 606-621.	2.5	41
40	Annual survey of water vapor behavior from the OMEGA mapping spectrometer onboard Mars Express. <i>Icarus</i> , 2011, 213, 480-495.	2.5	42
41	Jupiter and the other Giants: A Comparative Study. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 155-164.	0.0	0
42	<i>Herschel</i> /HIFI observations of Mars: First detection of O ₂ at submillimetre wavelengths and upper limits on HCl and H ₂ O ₂ . <i>Astronomy and Astrophysics</i> , 2010, 521, L49.	5.1	57
43	Millimeter and submillimeter measurements of asteroid (2867) Steins during the Rosetta fly-by. <i>Planetary and Space Science</i> , 2010, 58, 1077-1087.	1.7	30
44	Water vapor map of Mars near summer solstice using ground-based infrared spectroscopy. <i>Astronomy and Astrophysics</i> , 2010, 520, A33.	5.1	10
45	Ground-Based Observations of the Martian Atmosphere in Support of Space Missions. <i>Earth, Moon and Planets</i> , 2009, 105, 127-134.	0.6	2
46	OMEGA/Mars Express: South Pole Region, water vapor daily variability. <i>Icarus</i> , 2009, 201, 102-112.	2.5	17
47	Wind measurements in Mars' middle atmosphere: IRAM Plateau de Bure interferometric CO observations. <i>Icarus</i> , 2009, 201, 549-563.	2.5	25
48	Water and related chemistry in the solar system. A guaranteed time key programme for Herschel. <i>Planetary and Space Science</i> , 2009, 57, 1596-1606.	1.7	58
49	Simultaneous mapping of H ₂ O and H ₂ O ₂ on Mars from infrared high-resolution imaging spectroscopy. <i>Icarus</i> , 2008, 195, 547-556.	2.5	42
50	Infrared Spectroscopy of Solar-System Planets. <i>Space Science Reviews</i> , 2008, 135, 11-23.	8.1	2
51	Search for methane on Mars: Observations, interpretation and future work. <i>Advances in Space Research</i> , 2008, 42, 1-5.	2.6	6
52	Observations of atmospheric water vapor above the Tharsis volcanoes on Mars with the OMEGA/MEx imaging spectrometer. <i>Icarus</i> , 2008, 194, 53-64.	2.5	31
53	Heterogeneous chemistry in the atmosphere of Mars. <i>Nature</i> , 2008, 454, 971-975.	27.8	130
54	Water in the Solar System. <i>Annual Review of Astronomy and Astrophysics</i> , 2008, 46, 57-87.	24.3	78

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55	Vertical temperature profile and mesospheric winds retrieval on Mars from CO ₂ millimeter observations. <i>Astronomy and Astrophysics</i> , 2008, 489, 795-809.	5.1	18
56	A study of the Martian water vapor over Hellas using OMEGA and PFS aboard Mars Express. <i>Astronomy and Astrophysics</i> , 2008, 484, 547-553.	5.1	8
57	Remote sensing analysis of solar-system objects. <i>Physica Scripta</i> , 2008, T130, 014037.	2.5	3
58	Infrared Spectroscopy of Solar-System Planets. <i>Space Sciences Series of ISSI</i> , 2008, , 11-23.	0.0	0
59	Evidence for methane escape and strong seasonal and dynamical perturbations of Neptune's atmospheric temperatures. <i>Astronomy and Astrophysics</i> , 2007, 473, L5-L8.	5.1	59
60	Martian water vapor: Mars Express PFS/LW observations. <i>Icarus</i> , 2007, 190, 32-49.	2.5	101
61	Water vapor mapping on Mars using OMEGA/Mars Express. <i>Planetary and Space Science</i> , 2007, 55, 333-342.	1.7	50
62	MIRO: Microwave Instrument for Rosetta Orbiter. <i>Space Science Reviews</i> , 2007, 128, 561-597.	8.1	173
63	Compositional constraints on giant planet formation. <i>Planetary and Space Science</i> , 2006, 54, 1188-1196.	1.7	55
64	Infrared imaging spectroscopy of Mars: H ₂ O mapping and determination of CO ₂ isotopic ratios. <i>Icarus</i> , 2005, 179, 43-54.	2.5	42
65	The Planets and Titan Observed by ISO. <i>Space Science Reviews</i> , 2005, 119, 123-139.	8.1	13
66	Neutral Atmospheres of the Giant Planets: An Overview of Composition Measurements. , 2005, , 99-119.		4
67	A mapping of martian water sublimation during early northern summer using OMEGA/Mars Express. <i>Astronomy and Astrophysics</i> , 2005, 441, L9-L12.	5.1	26
68	The Planets and Titan Observed by ISO. , 2005, , 123-139.		3
69	The far-infrared spectra of Jupiter and Saturn. <i>Planetary and Space Science</i> , 2004, 52, 379-383.	1.7	11
70	In memoriam Vasily Ivanovitch Moroz (1931-2004). <i>Planetary and Space Science</i> , 2004, 52, 1231-1232.	1.7	0
71	Far-infrared spectroscopy of the giant planets: measurements of ammonia and phosphine at Jupiter and Saturn and the continuum of Neptune. <i>Advances in Space Research</i> , 2004, 34, 2247-2250.	2.6	11
72	The Solar System. <i>Astronomy and Astrophysics Library</i> , 2004, , .	0.1	52

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73	Detection of Methane in the Atmosphere of Mars. <i>Science</i> , 2004, 306, 1758-1761.	12.6	683
74	Element Abundances and Isotope Ratios in the Giant Planets and Titan. <i>Space Science Reviews</i> , 2003, 106, 121-138.	8.1	64
75	ISO observations of the giant planets and Titan: what have we learnt?. <i>Planetary and Space Science</i> , 2003, 51, 89-103.	1.7	15
76	Chemical markers of possible hot spots on Mars. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	70
77	The formation and evolution of the Solar System. <i>European Review</i> , 2002, 10, 171-184.	0.7	0
78	The Origin of Water Vapor and Carbon Dioxide in Jupiter's Stratosphere. <i>Icarus</i> , 2002, 159, 112-131.	2.5	92
79	The deuterium abundance in Jupiter and Saturn from ISO-SWS observations. <i>Astronomy and Astrophysics</i> , 2001, 370, 610-622.	5.1	204
80	The 2.4â€” spectrum of Mars observed with the infrared space observatory. <i>Planetary and Space Science</i> , 2000, 48, 1393-1405.	1.7	79
81	Detection of the Methyl Radical on Neptune. <i>Astrophysical Journal</i> , 1999, 515, 868-872.	4.5	82
82	The planet Jupiter. <i>Astronomy and Astrophysics Review</i> , 1999, 9, 171-219.	25.5	18
83	External supply of oxygen to the atmospheres of the giant planets. <i>Nature</i> , 1997, 389, 159-162.	27.8	206
84	A Tentative Detection of the 183-GHz Water Vapor Line in the Martian Atmosphere: Constraints upon the H ₂ O Abundance and Vertical Distribution. <i>Icarus</i> , 1995, 113, 110-118.	2.5	23
85	Chemical and thermal response of Jupiter's atmosphere following the impact of comet Shoemakerâ€”Levy 9. <i>Nature</i> , 1995, 373, 592-595.	27.8	90
86	Millimeter-wave observations of Saturn, Uranus, and Neptune - CO and HCN on Neptune. <i>Astrophysical Journal</i> , 1992, 392, L99.	4.5	64
87	Galileo Infrared Imaging Spectroscopy Measurements at Venus. <i>Science</i> , 1991, 253, 1541-1548.	12.6	156
88	Topography of the Martian tropical regions with ISM. <i>Planetary and Space Science</i> , 1991, 39, 225-236.	1.7	15
89	An estimate of the PH ₃ , CH ₃ D, and GeH ₄ Abundances on Jupiter from the Voyager IRIS data at 4.5 Î¼m. <i>Icarus</i> , 1982, 49, 416-426.	2.5	67
90	A method for the determination of abundance ratios in the outer planetsâ€”Application to Jupiter. <i>Icarus</i> , 1979, 39, 1-27.	2.5	23

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91	On the abundance of deuterium in Jupiter's atmosphere. <i>Astrophysical Journal</i> , 1978, 221, 378.	4.5	13