

Emmanuel Lellouch

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Volatile transport modeling on Triton with new observational constraints. <i>Icarus</i> , 2022, 373, 114764.	2.5	7
2	Pluto's atmosphere observations with ALMA: Spatially-resolved maps of CO and HCN emission and first detection of HNC. <i>Icarus</i> , 2022, 372, 114722.	2.5	9
3	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> , 2022, 54, 911-973.	3.7	5
4	Constraints on the structure and seasonal variations of Triton's atmosphere from the 5 October 2017 stellar occultation and previous observations. <i>Astronomy and Astrophysics</i> , 2022, 659, A136.	5.1	8
5	Size and albedo of the largest detected Oort-cloud object: Comet C/2014 UN ₂₇₁ (Bernardinelli-Bernstein). <i>Astronomy and Astrophysics</i> , 2022, 659, L1.	5.1	9
6	A major ice component in Pluto's haze. <i>Nature Astronomy</i> , 2021, 5, 289-297.	10.1	19
7	Compositional Study of Trans-Neptunian Objects at $\lambda \approx 2.2 \mu\text{m}$. <i>Planetary Science Journal</i> , 2021, 2, 10.	3.6	7
8	First direct measurement of auroral and equatorial jets in the stratosphere of Jupiter. <i>Astronomy and Astrophysics</i> , 2021, 647, L8.	5.1	16
9	Trans-Neptunian objects and Centaurs at thermal wavelengths. , 2020, , 153-181.		19
10	Probing the subsurface of the two faces of Iapetus. <i>EPJ Web of Conferences</i> , 2020, 228, 00006.	0.3	3
11	"TNOs are Cool" A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2020, 638, A23.	5.1	6
12	Cassini Composite Infrared Spectrometer (CIRS) Observations of Titan 2004-2017. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 14.	7.7	12
13	An intense thermospheric jet on Titan. <i>Nature Astronomy</i> , 2019, 3, 614-619.	10.1	29
14	The Changing Rotational Light-curve Amplitude of Varuna and Evidence for a Close-in Satellite. <i>Astrophysical Journal Letters</i> , 2019, 883, L21.	8.3	5
15	Sodium and Potassium Signatures of Volcanic Satellites Orbiting Close-in Gas Giant Exoplanets. <i>Astrophysical Journal</i> , 2019, 885, 168.	4.5	38
16	Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988-2016. <i>Astronomy and Astrophysics</i> , 2019, 625, A42.	5.1	29
17	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.	2.5	5
18	"TNOs are Cool" A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2018, 618, A136.	5.1	21

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19	Triton's surface ices: Distribution, temperature and mixing state from VLT/SINFONI observations. <i>Icarus</i> , 2018, 314, 274-293.	2.5	20
20	A post-new horizons global climate model of Pluto including the N ₂ , CH ₄ and CO cycles. <i>Icarus</i> , 2017, 287, 54-71.	2.5	61
21	Venus's winds and temperatures during the MESSENGER's flyby: An approximation to a three-dimensional instantaneous state of the atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 3907-3915.	4.0	18
22	Detection of CO and HCN in Pluto's atmosphere with ALMA. <i>Icarus</i> , 2017, 286, 289-307.	2.5	89
23	D/H Ratios on Saturn and Jupiter from Cassini CIRS. <i>Astronomical Journal</i> , 2017, 154, 178.	4.7	15
24	Size and Shape of Chariklo from Multi-epoch Stellar Occultations. <i>Astronomical Journal</i> , 2017, 154, 159.	4.7	34
25	The thermal emission of Centaurs and trans-Neptunian objects at millimeter wavelengths from ALMA observations. <i>Astronomy and Astrophysics</i> , 2017, 608, A45.	5.1	34
26	The collapse of Io's primary atmosphere in Jupiter eclipse. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1400-1410.	3.6	23
27	PLUTO'S ATMOSPHERE FROM THE 2015 JUNE 29 GROUND-BASED STELLAR OCCULTATION AT THE TIME OF THE NEW HORIZONS FLYBY*. <i>Astrophysical Journal Letters</i> , 2016, 819, L38.	8.3	82
28	PLUTO'S ATMOSPHERE FROM STELLAR OCCULTATIONS IN 2012 AND 2013. <i>Astrophysical Journal</i> , 2015, 811, 53.	4.5	55
29	Detection and characterization of Io's atmosphere from high-resolution 4-1/4m spectroscopy. <i>Icarus</i> , 2015, 253, 99-114.	2.5	27
30	Exploring the spatial, temporal, and vertical distribution of methane in Pluto's atmosphere. <i>Icarus</i> , 2015, 246, 268-278.	2.5	28
31	Scientific rationale for Saturn's in situ exploration. <i>Planetary and Space Science</i> , 2014, 104, 29-47.	1.7	49
32	A ring system detected around the Centaur (10199) Chariklo. <i>Nature</i> , 2014, 508, 72-75.	27.8	230
33	The distribution of methane in Titan's stratosphere from Cassini/CIRS observations. <i>Icarus</i> , 2014, 231, 323-337.	2.5	43
34	THE ALBEDO-COLOR DIVERSITY OF TRANSNEPTUNIAN OBJECTS. <i>Astrophysical Journal Letters</i> , 2014, 793, L2.	8.3	88
35	Trans-Neptunian Objects are Cool. A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2014, 564, A35.	5.1	71
36	Io's contracting atmosphere post 2011 perihelion: Further evidence for partial sublimation support on the anti-Jupiter hemisphere. <i>Icarus</i> , 2013, 226, 1177-1181.	2.5	9

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37	THE SIZE, SHAPE, ALBEDO, DENSITY, AND ATMOSPHERIC LIMIT OF TRANSNEPTUNIAN OBJECT (50000) QUAOAR FROM MULTI-CHORD STELLAR OCCULTATIONS. <i>Astrophysical Journal</i> , 2013, 773, 26.	4.5	79
38	EXPLORING IO'S ATMOSPHERIC COMPOSITION WITH APEX: FIRST MEASUREMENT OF SO_2 AND TENTATIVE DETECTION OF KCl. <i>Astrophysical Journal</i> , 2013, 776, 32.	4.5	24
39	TNOs are Cool: A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2013, 555, A15.	5.1	124
40	The D/H ratio in the atmospheres of Uranus and Neptune from <i>Herschel</i> -PACS observations. <i>Astronomy and Astrophysics</i> , 2013, 551, A126.	5.1	76
41	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2013, 557, A60.	5.1	109
42	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2012, 541, A92.	5.1	86
43	Water vapor in Titan's stratosphere from Cassini CIRS far-infrared spectra. <i>Icarus</i> , 2012, 220, 855-862.	2.5	39
44	Mapping zonal winds at Venus's cloud tops from ground-based Doppler velocimetry. <i>Icarus</i> , 2012, 221, 248-261.	2.5	30
45	The abundance, vertical distribution and origin of H ₂ O in Titan's atmosphere: <i>Herschel</i> observations and photochemical modelling. <i>Icarus</i> , 2012, 221, 753-767.	2.5	61
46	Albedo and atmospheric constraints of dwarf planet Makemake from a stellar occultation. <i>Nature</i> , 2012, 491, 566-569.	27.8	95
47	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2012, 541, L6.	5.1	44
48	TNOs are cool: A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2012, 541, A93.	5.1	59
49	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2012, 541, A94.	5.1	76
50	High resolution spectroscopy of Pluto's atmosphere: detection of the $2.3\mu\text{m}$ CH ₄ bands and evidence for carbon monoxide. <i>Astronomy and Astrophysics</i> , 2011, 530, L4.	5.1	68
51	Earth-based detection of the millimetric thermal emission from the nucleus of comet 8P/Tuttle. <i>Astronomy and Astrophysics</i> , 2011, 528, A54.	5.1	10
52	First detection of hydrogen isocyanide (HNC) in Titan's atmosphere. <i>Astronomy and Astrophysics</i> , 2011, 536, L12.	5.1	40
53	Thermal properties of Pluto's and Charon's surfaces from <i>Spitzer</i> observations. <i>Icarus</i> , 2011, 214, 701-716.	2.5	69
54	A Pluto-like radius and a high albedo for the dwarf planet Eris from an occultation. <i>Nature</i> , 2011, 478, 493-496.	27.8	156

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55	Detection of CO in Triton's atmosphere and the nature of surface-atmosphere interactions. <i>Astronomy and Astrophysics</i> , 2010, 512, L8.	5.1	76
56	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L147.	5.1	51
57	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L146.	5.1	48
58	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2010, 518, L148.	5.1	60
59	TNOs are Cool: A Survey of the Transneptunian Region. <i>Earth, Moon and Planets</i> , 2009, 105, 209-219.	0.6	55
60	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
61	Titania's radius and an upper limit on its atmosphere from the September 8, 2001 stellar occultation. <i>Icarus</i> , 2009, 199, 458-476.	2.5	26
62	Pluto's lower atmosphere structure and methane abundance from high-resolution spectroscopy and stellar occultations. <i>Astronomy and Astrophysics</i> , 2009, 495, L17-L21.	5.1	112
63	Monitoring Venus's mesospheric winds in support of Venus Express: IRAM 30-m and APEX observations. <i>Planetary and Space Science</i> , 2008, 56, 1355-1367.	1.7	32
64	A coordinated campaign of Venus ground-based observations and Venus Express measurements. <i>Planetary and Space Science</i> , 2008, 56, 1317-1319.	1.7	14
65	The composition of Titan's stratosphere from Cassini/CIRS mid-infrared spectra. <i>Icarus</i> , 2007, 189, 35-62.	2.5	367
66	New wind measurements in Venus's lower mesosphere from visible spectroscopy. <i>Planetary and Space Science</i> , 2007, 55, 1741-1756.	1.7	35
67	Venus Express – The first European mission to Venus. <i>Planetary and Space Science</i> , 2007, 55, 1636-1652.	1.7	212
68	Oxygen compounds in Titan's stratosphere as observed by Cassini CIRS. <i>Icarus</i> , 2007, 186, 354-363.	2.5	127
69	The two Titan stellar occultations of 14 November 2003. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	67
70	Charon's size and an upper limit on its atmosphere from a stellar occultation. <i>Nature</i> , 2006, 439, 52-54.	27.8	77
71	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
72	Titan's Atmospheric Temperatures, Winds, and Composition. <i>Science</i> , 2005, 308, 975-978.	12.6	318

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73	Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. Space Science Reviews, 2004, 115, 169-297.	8.1	275
74	Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus. Nature, 2003, 421, 45-47.	27.8	102
75	Large changes in Pluto's atmosphere as revealed by recent stellar occultations. Nature, 2003, 424, 168-170.	27.8	120
76	Carbon Monoxide on Jupiter: Evidence for Both Internal and External Sources. Icarus, 2002, 159, 95-111.	2.5	126
77	The Origin of Water Vapor and Carbon Dioxide in Jupiter's Stratosphere. Icarus, 2002, 159, 112-131.	2.5	92
78	Coordinated thermal and optical observations of Trans-Neptunian object (2000)Varuna from Sierra Nevada. Astronomy and Astrophysics, 2002, 391, 1133-1139.	5.1	23
79	The deuterium abundance in Jupiter and Saturn from ISO-SWS observations. Astronomy and Astrophysics, 2001, 370, 610-622.	5.1	204
80	Pluto's Non-isothermal Surface. Icarus, 2000, 147, 220-250.	2.5	63
81	Carbon monoxide in Jupiter after the impact of comet Shoemaker-Levy 9. Planetary and Space Science, 1997, 45, 1203-1212.	1.7	33
82	Detection of Sulfur Monoxide in Io's Atmosphere. Astrophysical Journal, 1996, 459, .	4.5	72
83	Chemistry induced by the impacts: Observations. , 1996, , 213-242.		34
84	The Thermal Structure of Pluto's Atmosphere: Clear vs Hazy Models. Icarus, 1994, 108, 255-264.	2.5	24
85	Global Circulation, Thermal Structure, and Carbon Monoxide Distribution in Venus' Mesosphere in 1991. Icarus, 1994, 110, 315-339.	2.5	76
86	The structure, stability, and global distribution of Io's atmosphere. Icarus, 1992, 98, 271-295.	2.5	100
87	Io's atmosphere from microwave detection of SO ₂ . Nature, 1990, 346, 639-641.	27.8	63