

Panayotis Lavvas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4962242/publications.pdf>

Version: 2024-02-01

79
papers

4,267
citations

101543

36
h-index

110387

64
g-index

81
all docs

81
docs citations

81
times ranked

2879
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Kinetics and Branching for the Reactions of N_2^+ with C_3H_4 Isomers at Low Temperatures and Implications for Titan's Atmosphere. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1227-1238.	2.7	0
4	UV absorption by silicate cloud precursors in ultra-hot Jupiter WASP-178b. <i>Nature</i> , 2022, 604, 49-52.	27.8	21
5	Signatures of strong magnetization and a metal-poor atmosphere for a Neptune-sized exoplanet. <i>Nature Astronomy</i> , 2022, 6, 141-153.	10.1	26
6	Mass Loss by Atmospheric Escape from Extremely Close-in Planets. <i>Astrophysical Journal</i> , 2022, 929, 52.	4.5	24
7	A large range of haziness conditions in hot-Jupiter atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 4753-4779.	4.4	6
8	A major ice component in Pluto's haze. <i>Nature Astronomy</i> , 2021, 5, 289-297.	10.1	19
9	Heavy Positive Ion Groups in Titan's Ionosphere from Cassini Plasma Spectrometer IBS Observations. <i>Planetary Science Journal</i> , 2021, 2, 26.	3.6	5
10	Impact of photochemical hazes and gases on exoplanet atmospheric thermal structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5643-5657.	4.4	21
11	3D simulations of photochemical hazes in the atmosphere of hot Jupiter HD 189733b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2783-2799.	4.4	36
12	HST PanCET program: non-detection of atmospheric escape in the warm Saturn-sized planet WASP-29 b. <i>Astronomy and Astrophysics</i> , 2021, 649, A40.	5.1	7
13	The <i>Hubble</i> PanCET program: long-term chromospheric evolution and flaring activity of the M dwarf host GJ 3470. <i>Astronomy and Astrophysics</i> , 2021, 650, A73.	5.1	8
14	The near-UV transit of HD 189733b with the <i>XMM-Newton</i> optical monitor. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 2453-2458.	4.4	3
15	The Hubble PanCET Program: A Metal-rich Atmosphere for the Inflated Hot Jupiter HAT-P-41b. <i>Astronomical Journal</i> , 2021, 161, 51.	4.7	16
16	Titan's neutral atmosphere seasonal variations up to the end of the Cassini mission. <i>Icarus</i> , 2020, 344, 113413.	2.5	14
17	Transmission Spectroscopy of WASP-79b from 0.6 to 5.0 μ m. <i>Astronomical Journal</i> , 2020, 159, 5.	4.7	22
18	Detection of Na, K, and H ₂ O in the hazy atmosphere of WASP-6b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5449-5472.	4.4	30

#	ARTICLE	IF	CITATIONS
19	WASP-52b. The effect of star-spot correction on atmospheric retrievals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5361-5375.	4.4	30
20	The Hubble Space Telescope PanCET Program: An Optical to Infrared Transmission Spectrum of HAT-P-32Ab. <i>Astronomical Journal</i> , 2020, 160, 51.	4.7	26
21	The Hubble Space Telescope PanCET Program: Exospheric Mg ii and Fe ii in the Near-ultraviolet Transmission Spectrum of WASP-121b Using Jitter Decorrelation. <i>Astronomical Journal</i> , 2019, 158, 91.	4.7	112
22	Propane clusters in Titan's lower atmosphere: insights from a combined theory/laboratory study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 676-684.	4.4	2
23	Heavy negative ion growth in Titan's polar winter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2254-2261.	4.4	13
24	Photochemical Hazes in Sub-Neptunian Atmospheres with a Focus on GJ 1214b. <i>Astrophysical Journal</i> , 2019, 878, 118.	4.5	34
25	The Hubble PanCET program: an extensive search for metallic ions in the exosphere of GJ 436 b. <i>Astronomy and Astrophysics</i> , 2019, 629, A47.	5.1	34
26	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.	2.5	125
27	Seasonal Evolution of Titan's Stratosphere Near the Poles. <i>Astrophysical Journal Letters</i> , 2018, 854, L30.	8.3	43
28	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. <i>Icarus</i> , 2018, 300, 174-199.	2.5	90
29	An Optical Transmission Spectrum for the Ultra-hot Jupiter WASP-121b Measured with the Hubble Space Telescope. <i>Astronomical Journal</i> , 2018, 156, 283.	4.7	106
30	Hubble PanCET: an extended upper atmosphere of neutral hydrogen around the warm Neptune GJ 3470b. <i>Astronomy and Astrophysics</i> , 2018, 620, A147.	5.1	128
31	Upper Atmospheres and Ionospheres of Planets and Satellites. , 2018, , 349-374.		1
32	Hubble PanCET: an isothermal day-side atmosphere for the bloated gas-giant HAT-P-32Ab. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1705-1717.	4.4	55
33	Haze in Pluto's atmosphere. <i>Icarus</i> , 2017, 290, 112-133.	2.5	72
34	Titan brighter at twilight than in daylight. <i>Nature Astronomy</i> , 2017, 1, .	10.1	17
35	Aerosols optical properties in Titan's detached haze layer before the equinox. <i>Icarus</i> , 2017, 292, 13-21.	2.5	9
36	Detection of CO and HCN in Pluto's atmosphere with ALMA. <i>Icarus</i> , 2017, 286, 289-307.	2.5	89

#	ARTICLE	IF	CITATIONS
37	An ultrahot gas-giant exoplanet with a stratosphere. <i>Nature</i> , 2017, 548, 58-61.	27.8	192
38	HST PanCET Program: A Cloudy Atmosphere for the Promising JWST Target WASP-101b. <i>Astrophysical Journal Letters</i> , 2017, 835, L12.	8.3	56
39	Aerosol Properties of the Atmospheres of Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2017, 847, 32.	4.5	69
40	Upper Atmospheres and Ionospheres of Planets and Satellites. , 2017, , 1-26.		0
41	SUPRATHERMAL ELECTRONS IN TITAN'S SUNLIT IONOSPHERE: MODEL-OBSERVATION COMPARISONS. <i>Astrophysical Journal</i> , 2016, 826, 131.	4.5	8
42	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
43	Titan's surface spectra at the Huygens landing site and Shangri-La. <i>Icarus</i> , 2016, 270, 291-306.	2.5	14
44	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
45	Cassini Imaging Science Subsystem observations of Titan's south polar cloud. <i>Icarus</i> , 2016, 270, 399-408.	2.5	39
46	ON THE POSSIBILITY OF SIGNIFICANT ELECTRON DEPLETION DUE TO NANOGRAIN CHARGING IN THE COMA OF COMET 67P/CHURYUMOV-GERASIMENKO NEAR PERIHELION. <i>Astrophysical Journal</i> , 2015, 798, 130.	4.5	15
47	N ₂ state population in Titan's atmosphere. <i>Icarus</i> , 2015, 260, 29-59.	2.5	15
48	Ionization balance in Titan's nightside ionosphere. <i>Icarus</i> , 2015, 248, 539-546.	2.5	22
49	Titan's haze. , 2014, , 285-321.		11
50	Titan's emission processes during eclipse. <i>Icarus</i> , 2014, 241, 397-408.	2.5	6
51	ELECTRODYNAMICS ON EXTRASOLAR GIANT PLANETS. <i>Astrophysical Journal</i> , 2014, 796, 16.	4.5	29
52	INCREASING POSITIVE ION NUMBER DENSITIES BELOW THE PEAK OF ION-ELECTRON PAIR PRODUCTION IN TITAN'S IONOSPHERE. <i>Astrophysical Journal</i> , 2014, 786, 69.	4.5	9
53	ELECTRON DENSITIES AND ALKALI ATOMS IN EXOPLANET ATMOSPHERES. <i>Astrophysical Journal</i> , 2014, 796, 15.	4.5	56
54	Thermal escape from extrasolar giant planets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130089.	3.4	31

#	ARTICLE	IF	CITATIONS
55	The escape of heavy atoms from the ionosphere of HD209458b. I. A photochemicalâ€“dynamical model of the thermosphere. <i>Icarus</i> , 2013, 226, 1678-1694.	2.5	196
56	Auroral electron precipitation and flux tube erosion in Titanâ€™s upper atmosphere. <i>Icarus</i> , 2013, 226, 186-204.	2.5	20
57	The escape of heavy atoms from the ionosphere of HD209458b. II. Interpretation of the observations. <i>Icarus</i> , 2013, 226, 1695-1708.	2.5	87
58	Aerosol growth in Titanâ€™s ionosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2729-2734.	7.1	126
59	CRITICAL REVIEW OF N, N ⁺ , N ²⁺ , N ² , N ⁺⁺ , And N ⁺⁺ MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 20.	7.7	118
60	EVOLUTION OF THE STRATOSPHERIC TEMPERATURE AND CHEMICAL COMPOSITION OVER ONE TITANIAN YEAR. <i>Astrophysical Journal</i> , 2013, 779, 177.	4.5	47
61	RAPID ASSOCIATION REACTIONS AT LOW PRESSURE: IMPACT ON THE FORMATION OF HYDROCARBONS ON TITAN. <i>Astrophysical Journal</i> , 2012, 744, 11.	4.5	54
62	THERMAL AND CHEMICAL STRUCTURE VARIATIONS IN TITAN'S STRATOSPHERE DURING THE CASSINI MISSION. <i>Astrophysical Journal</i> , 2012, 760, 144.	4.5	25
63	Titan's lakes chemical composition: Sources of uncertainties and variability. <i>Planetary and Space Science</i> , 2012, 61, 99-107.	1.7	47
64	The evolution of Titan's detached haze layer near equinox in 2009. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	47
65	SURFACE CHEMISTRY AND PARTICLE SHAPE: PROCESSES FOR THE EVOLUTION OF AEROSOLS IN TITAN'S ATMOSPHERE. <i>Astrophysical Journal</i> , 2011, 728, 80.	4.5	84
66	Condensation in Titanâ€™s atmosphere at the Huygens landing site. <i>Icarus</i> , 2011, 215, 732-750.	2.5	58
67	The mesosphere and lower thermosphere of Titan revealed by Cassini/UVIS stellar occultations. <i>Icarus</i> , 2011, 216, 507-534.	2.5	124
68	Energy deposition and primary chemical products in Titanâ€™s upper atmosphere. <i>Icarus</i> , 2011, 213, 233-251.	2.5	121
69	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.	8.3	16
70	CHARACTERIZING THE THERMOSPHERE OF HD209458b WITH UV TRANSIT OBSERVATIONS. <i>Astrophysical Journal</i> , 2010, 723, 116-128.	4.5	94
71	Titan trace gaseous composition from CIRS at the end of the Cassiniâ€“Huygens prime mission. <i>Icarus</i> , 2010, 207, 461-476.	2.5	161
72	Titanâ€™s vertical aerosol structure at the Huygens landing site: Constraints on particle size, density, charge, and refractive index. <i>Icarus</i> , 2010, 210, 832-842.	2.5	78

#	ARTICLE	IF	CITATIONS
73	Formation of NH ₃ and CH ₂ NH in Titan's upper atmosphere. Faraday Discussions, 2010, 147, 31.	3.2	66
74	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	3.7	77
75	The detached haze layer in Titan's mesosphere. Icarus, 2009, 201, 626-633.	2.5	72
76	Negative ion chemistry in Titan's upper atmosphere. Planetary and Space Science, 2009, 57, 1558-1572.	1.7	240
77	Laboratory Studies of Molecular Growth in the Titan Ionosphere. Journal of Physical Chemistry A, 2009, 113, 11211-11220.	2.5	32
78	AN ESTIMATE OF THE CHEMICAL COMPOSITION OF TITAN'S LAKES. Astrophysical Journal, 2009, 707, L128-L131.	4.5	131
79	Composition and chemistry of Titan's thermosphere and ionosphere. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 729-741.	3.4	51