List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6472072/publications.pdf Version: 2024-02-01



DETED CAO

#	Article	IF	CITATIONS
1	A HIGH-PRECISION NEAR-INFRARED SURVEY FOR RADIAL VELOCITY VARIABLE LOW-MASS STARS USING CSHELL AND A METHANE GAS CELL. Astrophysical Journal, 2016, 822, 40.	4.5	225
2	Water Vapor and Clouds on the Habitable-zone Sub-Neptune Exoplanet K2-18b. Astrophysical Journal Letters, 2019, 887, L14.	8.3	183
3	A planet within the debris disk around the pre-main-sequence star AU Microscopii. Nature, 2020, 582, 497-500.	27.8	145
4	Aerosol composition of hot giant exoplanets dominated by silicates and hydrocarbon hazes. Nature Astronomy, 2020, 4, 951-956.	10.1	137
5	STABILITY OF CO ₂ ATMOSPHERES ON DESICCATED M DWARF EXOPLANETS. Astrophysical Journal, 2015, 806, 249.	4.5	104
6	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i> . Publications of the Pacific, 2018, 130, 114402.	3.1	100
7	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. Icarus, 2018, 300, 174-199.	2.5	90
8	Nitrogen Oxides in Early Earth's Atmosphere as Electron Acceptors for Life's Emergence. Astrobiology, 2017, 17, 975-983.	3.0	88
9	Formation of Silicate and Titanium Clouds on Hot Jupiters. Astrophysical Journal, 2018, 860, 18.	4.5	86
10	The Intrinsic Temperature and Radiative–Convective Boundary Depth in the Atmospheres of Hot Jupiters. Astrophysical Journal Letters, 2019, 884, L6.	8.3	82
11	Bimodal distribution of sulfuric acid aerosols in the upper haze of Venus. Icarus, 2014, 231, 83-98.	2.5	79
12	The photochemistry of Pluto's atmosphere as illuminated by New Horizons. Icarus, 2017, 287, 110-115.	2.5	75
13	Constraints on the microphysics of Pluto's photochemical haze from New Horizons observations. Icarus, 2017, 287, 116-123.	2.5	73
14	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. Astronomical Journal, 2019, 157, 245.	4.7	72
15	Sulfur Hazes in Giant Exoplanet Atmospheres: Impacts on Reflected Light Spectra. Astronomical Journal, 2017, 153, 139.	4.7	71
16	The Venusian Lower Atmosphere Haze as a Depot for Desiccated Microbial Life: A Proposed Life Cycle for Persistence of the Venusian Aerial Biosphere. Astrobiology, 2021, 21, 1206-1223.	3.0	69
17	Transit Signatures of Inhomogeneous Clouds on Hot Jupiters: Insights from Microphysical Cloud Modeling. Astrophysical Journal, 2019, 887, 170.	4.5	64
18	Sedimentation Efficiency of Condensation Clouds in Substellar Atmospheres. Astrophysical Journal, 2018, 855, 86.	4.5	63

#	Article	IF	CITATIONS
19	Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY ^{â^—} . Astronomical Journal, 2021, 161, 148.	4.7	59
20	Microphysics of KCl and ZnS Clouds on GJ 1214 b. Astrophysical Journal, 2018, 863, 165.	4.5	57
21	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. Astrophysical Journal, 2020, 890, 176.	4.5	53
22	Demonstration of a near-IR line-referenced electro-optical laser frequency comb for precision radial velocity measurements in astronomy. Nature Communications, 2016, 7, 10436.	12.8	52
23	Keck/NIRC2 L'-band Imaging of Jovian-mass Accreting Protoplanets around PDS 70. Astronomical Journal, 2020, 159, 263.	4.7	51
24	Methane on Mars and Habitability: Challenges and Responses. Astrobiology, 2018, 18, 1221-1242.	3.0	50
25	Pluto's haze as a surface material. Icarus, 2018, 314, 232-245.	2.5	50
26	Distribution of sulphuric acid aerosols in the clouds and upper haze of Venus using Venus Express VAST and VeRa temperature profiles. Planetary and Space Science, 2015, 113-114, 205-218.	1.7	47
27	Aerosols in Exoplanet Atmospheres. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006655.	3.6	44
28	Deflating Super-puffs: Impact of Photochemical Hazes on the Observed Mass–Radius Relationship of Low-mass Planets. Astrophysical Journal, 2020, 890, 93.	4.5	44
29	Nonhydrostatic effects and the determination of icy satellites' moment of inertia. Icarus, 2013, 226, 1185-1191.	2.5	39
30	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. Astronomical Journal, 2021, 162, 295.	4.7	39
31	Aggregate Hazes in Exoplanet Atmospheres. Astrophysical Journal, 2019, 874, 61.	4.5	38
32	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. Astronomical Journal, 2019, 158, 244.	4.7	37
33	Design and Construction of Absorption Cells for Precision Radial Velocities in the <i>K</i> Band Using Methane Isotopologues. Publications of the Astronomical Society of the Pacific, 2012, 124, 586-597.	3.1	35
34	Precise Radial Velocities of Cool Low-mass Stars with iSHELL. Astronomical Journal, 2019, 158, 170.	4.7	31
35	Photochemical control of the distribution of Venusian water. Planetary and Space Science, 2015, 113-114, 226-236.	1.7	27
36	Haze evolution in temperate exoplanet atmospheres through surface energy measurements. Nature Astronomy, 2021, 5, 822-831.	10.1	27

#	Article	IF	CITATIONS
37	VERTICAL DISTRIBUTION OF <i>C</i> ₃ -HYDROCARBONS IN THE STRATOSPHERE OF TITAN. Astrophysical Journal Letters, 2015, 803, L19.	8.3	25
38	Hypotheses for Near-Surface Exchange of Methane on Mars. Astrobiology, 2016, 16, 539-550.	3.0	25
39	Into the UV: The Atmosphere of the Hot Jupiter HAT-P-41b Revealed. Astrophysical Journal Letters, 2020, 902, L19.	8.3	25
40	A Featureless Infrared Transmission Spectrum for the Super-puff Planet Kepler-79d. Astronomical Journal, 2020, 160, 201.	4.7	24
41	A Universal Cloud Composition on the Nightsides of Hot Jupiters. Astrophysical Journal Letters, 2021, 918, L7.	8.3	22
42	Optical to Near-infrared Transmission Spectrum of the Warm Sub-Saturn HAT-P-12b. Astronomical Journal, 2020, 159, 234.	4.7	21
43	Aggregate particles in the plumes of Enceladus. Icarus, 2016, 264, 227-238.	2.5	16
44	A New Sedimentation Model for Greater Cloud Diversity in Giant Exoplanets and Brown Dwarfs. Astrophysical Journal, 2022, 925, 33.	4.5	16
45	The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System. Astrophysical Journal Letters, 2022, 927, L5.	8.3	16
46	Precision near-infrared radial velocity instrumentation II: noncircular core fiber scrambler. Proceedings of SPIE, 2013, , .	0.8	14
47	Spatially Resolved Modeling of Optical Albedos for a Sample of Six Hot Jupiters. Astrophysical Journal, 2022, 926, 157.	4.5	14
48	Retrieval of Precise Radial Velocities from Near-infrared High-resolution Spectra of Low-mass Stars. Publications of the Astronomical Society of the Pacific, 2016, 128, 104501.	3.1	13
49	Atmospheric Circulation, Chemistry, and Infrared Spectra of Titan-like Exoplanets around Different Stellar Types. Astrophysical Journal, 2018, 853, 58.	4.5	10
50	Transit Timing Variations for AU Microscopii b and c. Astronomical Journal, 2022, 164, 27.	4.7	10
51	Microphysics of Water Clouds in the Atmospheres of Y Dwarfs and Temperate Giant Planets. Astrophysical Journal, 2022, 927, 184.	4.5	8
52	Retrieval of Chemical Abundances in Titan's Upper Atmosphere From Cassini UVIS Observations With Pointing Motion. Earth and Space Science, 2019, 6, 1057-1066.	2.6	7
53	Precision near-infrared radial velocity instrumentation I: absorption gas cells. Proceedings of SPIE, 2013, , .	0.8	6
54	Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856+534 b. Astronomical Journal, 2021, 162, 296.	4.7	6

#	Article	IF	CITATIONS
55	A bimodal distribution of haze in Pluto's atmosphere. Nature Communications, 2022, 13, 240.	12.8	5
56	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. Astronomical Journal, 2022, 163, 269.	4.7	4
57	The Hubble PanCET Program: A Featureless Transmission Spectrum for WASP-29b and Evidence of Enhanced Atmospheric Metallicity on WASP-80b. Astronomical Journal, 2022, 164, 30.	4.7	4
58	The Diversity of Planetary Atmospheric Chemistry. Space Science Reviews, 2021, 217, 1.	8.1	2
59	Characterization of HD 206893 B from Near- to Thermal-infrared. Astrophysical Journal, 2021, 917, 62.	4.5	2
60	LORRI observations of waves in Pluto's atmosphere. Icarus, 2021, 356, 113825.	2.5	1
61	H-Î \pm Variability of V1298 Tau c. Research Notes of the AAS, 2021, 5, 195.	0.7	1
62	Precise Near-Infrared Radial Velocities. Proceedings of the International Astronomical Union, 2015, 10, 286-287.	0.0	0