

Laura Kreidberg

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

7,191
citations

76326

40
h-index

91884

69
g-index

73
all docs

73
docs citations

73
times ranked

3084
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of exoplanet phase curves with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 417-446.	3.7	10
2	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
3	Two Massive Jupiters in Eccentric Orbits from the TESS Full-frame Images. <i>Astronomical Journal</i> , 2022, 163, 9.	4.7	5
4	Confirmation of Water Absorption in the Thermal Emission Spectrum of the Hot Jupiter WASP-77Ab with HST/WFC3. <i>Astronomical Journal</i> , 2022, 163, 261.	4.7	11
5	Atmospheres of Rocky Exoplanets. <i>Annual Review of Astronomy and Astrophysics</i> , 2022, 60, 159-201.	24.3	29
6	WASP-107b's Density Is Even Lower: A Case Study for the Physics of Planetary Gas Envelope Accretion and Orbital Migration. <i>Astronomical Journal</i> , 2021, 161, 70.	4.7	38
7	Exogeoscience and Its Role in Characterizing Exoplanet Habitability and the Detectability of Life. , 2021, 53, .		0
8	A comprehensive reanalysis of <i>Spitzer's</i> 4.5- μ m phase curves, and the phase variations of the ultra-hot Jupiters MASCARA-1b and KELT-16b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3316-3337.	4.4	28
9	The Dark World: A Tale of WASP-43b in Reflected Light with HST WFC3/UVIS. <i>Astronomical Journal</i> , 2021, 161, 269.	4.7	13
10	The TESS Objects of Interest Catalog from the TESS Prime Mission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 39.	7.7	190
11	TOI-1231 b: A Temperate, Neptune-sized Planet Transiting the Nearby M3 Dwarf NLTT 24399. <i>Astronomical Journal</i> , 2021, 162, 87.	4.7	13
12	TESS Hunt for Young and Maturing Exoplanets (THYME). IV. Three Small Planets Orbiting a 120 Myr Old Star in the Pisces-Eridanus Stream*. <i>Astronomical Journal</i> , 2021, 161, 65.	4.7	34
13	Transmission Spectroscopy for the Warm Sub-Neptune HD 3167c: Evidence for Molecular Absorption and a Possible High-metallicity Atmosphere. <i>Astronomical Journal</i> , 2021, 161, 18.	4.7	25
14	Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827*. <i>Astronomical Journal</i> , 2021, 161, 47.	4.7	10
15	Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856+534 b. <i>Astronomical Journal</i> , 2021, 162, 296.	4.7	6
16	Evidence for H ₂ Dissociation and Recombination Heat Transport in the Atmosphere of KELT-9b. <i>Astrophysical Journal Letters</i> , 2020, 888, L15.	8.3	57
17	An astronomical institute's perspective on meeting the challenges of the climate crisis. <i>Nature Astronomy</i> , 2020, 4, 812-815.	10.1	24
18	A giant planet candidate transiting a white dwarf. <i>Nature</i> , 2020, 585, 363-367.	27.8	111

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19	A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780. <i>Astronomical Journal</i> , 2020, 160, 3.	4.7	62
20	The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System. <i>Astronomical Journal</i> , 2020, 160, 116.	4.7	67
21	The First Habitable-zone Earth-sized Planet from TESS. II. Spitzer Confirms TOI-700 d. <i>Astronomical Journal</i> , 2020, 160, 117.	4.7	29
22	TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert. <i>Astronomical Journal</i> , 2020, 160, 153.	4.7	27
23	An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Suggestive of a Subsolar Water Abundance. <i>Astronomical Journal</i> , 2020, 160, 280.	4.7	21
24	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. <i>Astrophysical Journal</i> , 2020, 890, 176.	4.5	53
25	Spitzer Reveals Evidence of Molecular Absorption in the Atmosphere of the Hot Neptune LTT 9779b. <i>Astrophysical Journal Letters</i> , 2020, 903, L6.	8.3	14
26	Phase Curves of Hot Neptune LTT 9779b Suggest a High-metallicity Atmosphere. <i>Astrophysical Journal Letters</i> , 2020, 903, L7.	8.3	19
27	The TRAPPIST-1 JWST Community Initiative. , 2020, 52, .		12
28	Constraining Exoplanet Metallicities and Aerosols with the Contribution to ARIEL Spectroscopy of Exoplanets (CASE). <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 094401.	3.1	15
29	Absence of a thick atmosphere on the terrestrial exoplanet LHS 3844b. <i>Nature</i> , 2019, 573, 87-90.	27.8	139
30	TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR 858. <i>Astrophysical Journal Letters</i> , 2019, 881, L19.	8.3	80
31	The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf. <i>Astronomical Journal</i> , 2019, 158, 32.	4.7	93
32	A sub-Neptune exoplanet with a low-metallicity methane-depleted atmosphere and Mie-scattering clouds. <i>Nature Astronomy</i> , 2019, 3, 813-821.	10.1	151
33	No Evidence for Lunar Transit in New Analysis of Hubble Space Telescope Observations of the Kepler-1625 System. <i>Astrophysical Journal Letters</i> , 2019, 877, L15.	8.3	51
34	Climate of an ultra hot Jupiter. <i>Astronomy and Astrophysics</i> , 2019, 625, A136.	5.1	71
35	Transit Signatures of Inhomogeneous Clouds on Hot Jupiters: Insights from Microphysical Cloud Modeling. <i>Astrophysical Journal</i> , 2019, 887, 170.	4.5	64
36	The Sub-Neptune Desert and Its Dependence on Stellar Type: Controlled by Lifetime X-Ray Irradiation. <i>Astrophysical Journal</i> , 2019, 876, 22.	4.5	41

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37	HD 202772A b: A Transiting Hot Jupiter around a Bright, Mildly Evolved Star in a Visual Binary Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 51.	4.7	66
38	An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. <i>Astronomical Journal</i> , 2018, 155, 107.	4.7	103
39	Exoplanet Atmosphere Measurements from Transmission Spectroscopy and Other Planet Star Combined Light Observations. , 2018, , 2083-2105.		28
40	Two Warm, Low-density Sub-Jovian Planets Orbiting Bright Stars in K2 Campaigns 13 and 14. <i>Astronomical Journal</i> , 2018, 156, 127.	4.7	13
41	Detection of Helium in the Atmosphere of the Exo-Neptune HAT-P-11b. <i>Astrophysical Journal Letters</i> , 2018, 868, L34.	8.3	73
42	A Framework for Prioritizing the <i>TESS</i> Planetary Candidates Most Amenable to Atmospheric Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114401.	3.1	314
43	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i>. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
44	From thermal dissociation to condensation in the atmospheres of ultra hot Jupiters: WASP-121b in context. <i>Astronomy and Astrophysics</i> , 2018, 617, A110.	5.1	230
45	SPIDERMAN: an open-source code to model phase curves and secondary eclipses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2613-2627.	4.4	33
46	An HST/WFC3 Thermal Emission Spectrum of the Hot Jupiter HAT-P-7b. <i>Astronomical Journal</i> , 2018, 156, 10.	4.7	70
47	H^{\sim} Opacity and Water Dissociation in the Dayside Atmosphere of the Very Hot Gas Giant WASP-18b. <i>Astrophysical Journal Letters</i> , 2018, 855, L30.	8.3	217
48	Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from HST and Spitzer Phase Curve Observations. <i>Astronomical Journal</i> , 2018, 156, 17.	4.7	156
49	Water, High-altitude Condensates, and Possible Methane Depletion in the Atmosphere of the Warm Super-Neptune WASP-107b. <i>Astrophysical Journal Letters</i> , 2018, 858, L6.	8.3	67
50	Exoplanet Atmosphere Measurements from Transmission Spectroscopy and Other Planet Star Combined Light Observations. , 2018, , 1-23.		3
51	Non-detection of a Helium Exosphere for the Hot Jupiter WASP-12b. <i>Research Notes of the AAS</i> , 2018, 2, 44.	0.7	13
52	HELIOS: AN OPEN-SOURCE, GPU-ACCELERATED RADIATIVE TRANSFER CODE FOR SELF-CONSISTENT EXOPLANETARY ATMOSPHERES. <i>Astronomical Journal</i> , 2017, 153, 56.	4.7	128
53	<i>SPITZER</i> PHASE CURVE CONSTRAINTS FOR WASP-43b AT 3.6 AND 4.5 μ m. <i>Astronomical Journal</i> , 2017, 153, 68.	4.7	157
54	A Multi-planet System Transiting the $V_A=9$ Rapidly Rotating F-Star HD 106315. <i>Astronomical Journal</i> , 2017, 153, 256.	4.7	52

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55	NEAR-INFRARED EMISSION SPECTRUM OF WASP-103B USING HUBBLE SPACE TELESCOPE/WIDE FIELD CAMERA 3*. <i>Astronomical Journal</i> , 2017, 153, 34.	4.7	58
56	Determining Empirical Stellar Masses and Radii from Transits and Gaia Parallaxes as Illustrated by Spitzer Observations of KELT-11b. <i>Astronomical Journal</i> , 2017, 154, 25.	4.7	34
57	Observing the Atmospheres of Known Temperate Earth-sized Planets with JWST. <i>Astrophysical Journal</i> , 2017, 850, 121.	4.5	222
58	Trends in Atmospheric Properties of Neptune-size Exoplanets. <i>Astronomical Journal</i> , 2017, 154, 261.	4.7	133
59	Quantifying the Impact of Spectral Coverage on the Retrieval of Molecular Abundances from Exoplanet Transmission Spectra. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 104402.	3.1	4
60	THE IMPACT OF NON-UNIFORM THERMAL STRUCTURE ON THE INTERPRETATION OF EXOPLANET EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2016, 829, 52.	4.5	113
61	PROSPECTS FOR CHARACTERIZING THE ATMOSPHERE OF PROXIMA CENTAURI b. <i>Astrophysical Journal Letters</i> , 2016, 832, L12.	8.3	75
62	NO THERMAL INVERSION AND A SOLAR WATER ABUNDANCE FOR THE HOT JUPITER HD 209458B FROM HST/WFC3 SPECTROSCOPY. <i>Astronomical Journal</i> , 2016, 152, 203.	4.7	144
63	Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 094401.	3.1	98
64	A DETECTION OF WATER IN THE TRANSMISSION SPECTRUM OF THE HOT JUPITER WASP-12b AND IMPLICATIONS FOR ITS ATMOSPHERIC COMPOSITION. <i>Astrophysical Journal</i> , 2015, 814, 66.	4.5	212
65	THE ATMOSPHERIC CIRCULATION OF THE HOT JUPITER WASP-43b: COMPARING THREE-DIMENSIONAL MODELS TO SPECTROPHOTOMETRIC DATA. <i>Astrophysical Journal</i> , 2015, 801, 86.	4.5	116
66	batman: Basic Transit Model cAlculation in Python. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1161-1165.	3.1	685
67	TRANSMISSION SPECTROSCOPY OF THE HOT JUPITER WASP-12b FROM 0.7 TO 5 μ m. <i>Astronomical Journal</i> , 2014, 147, 161.	4.7	154
68	Observations of Transiting Exoplanets with the James Webb Space Telescope (JWST). <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 1134-1173.	3.1	245
69	Clouds in the atmosphere of the super-Earth exoplanet GJ 1214b. <i>Nature</i> , 2014, 505, 69-72.	27.8	688
70	A HUBBLE SPACE TELESCOPE SEARCH FOR A SUB-EARTH-SIZED EXOPLANET IN THE GJ 436 SYSTEM. <i>Astrophysical Journal</i> , 2014, 796, 32.	4.5	37
71	Thermal structure of an exoplanet atmosphere from phase-resolved emission spectroscopy. <i>Science</i> , 2014, 346, 838-841.	12.6	266
72	HUBBLE SPACE TELESCOPE NEAR-IR TRANSMISSION SPECTROSCOPY OF THE SUPER-EARTH HD 97658B. <i>Astrophysical Journal</i> , 2014, 794, 155.	4.5	164

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73	A PRECISE WATER ABUNDANCE MEASUREMENT FOR THE HOT JUPITER WASP-43b. <i>Astrophysical Journal Letters</i> , 2014, 793, L27.	8.3	297