

# Laura Kreidberg

## List of Publications by Year in descending order

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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	Clouds in the atmosphere of the super-Earth exoplanet GJ 1214b. <i>Nature</i> , 2014, 505, 69-72.	27.8	688
2	<code>batman</code> : BAsic Transit Model cAlculation in Python. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1161-1165.	3.1	685
3	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
4	A PRECISE WATER ABUNDANCE MEASUREMENT FOR THE HOT JUPITER WASP-43b. <i>Astrophysical Journal Letters</i> , 2014, 793, L27.	8.3	297
5	Thermal structure of an exoplanet atmosphere from phase-resolved emission spectroscopy. <i>Science</i> , 2014, 346, 838-841.	12.6	266
6	Observations of Transiting Exoplanets with the James Webb Space Telescope ( <i>JWST</i> ). <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 1134-1173.	3.1	245
7	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
8	Observing the Atmospheres of Known Temperate Earth-sized Planets with <i>JWST</i> . <i>Astrophysical Journal</i> , 2017, 850, 121.	4.5	222
9	$H^+$ 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
10	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
11	The <i>TESS</i> Objects of Interest Catalog from the <i>TESS</i> Prime Mission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 39.	7.7	190
12	<i>HUBBLE SPACE TELESCOPE</i> NEAR-IR TRANSMISSION SPECTROSCOPY OF THE SUPER-EARTH HD 97658B. <i>Astrophysical Journal</i> , 2014, 794, 155.	4.5	164
13	<i>SPITZER</i> PHASE CURVE CONSTRAINTS FOR WASP-43b AT 3.6 AND 4.5 $\mu\text{m}$ . <i>Astronomical Journal</i> , 2017, 153, 68.	4.7	157
14	Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from <i>HST</i> and <i>Spitzer</i> Phase Curve Observations. <i>Astronomical Journal</i> , 2018, 156, 17.	4.7	156
15	TRANSMISSION SPECTROSCOPY OF THE HOT JUPITER WASP-12b FROM 0.7 TO 5 $\mu\text{m}$ . <i>Astronomical Journal</i> , 2014, 147, 161.	4.7	154
16	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
17	NO THERMAL INVERSION AND A SOLAR WATER ABUNDANCE FOR THE HOT JUPITER HD 209458B FROM <i>HST</i> / <i>WFC3</i> SPECTROSCOPY. <i>Astronomical Journal</i> , 2016, 152, 203.	4.7	144
18	Absence of a thick atmosphere on the terrestrial exoplanet LHS 3844b. <i>Nature</i> , 2019, 573, 87-90.	27.8	139

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19	Trends in Atmospheric Properties of Neptune-size Exoplanets. <i>Astronomical Journal</i> , 2017, 154, 261.	4.7	133
20	HELIOS: AN OPEN-SOURCE, GPU-ACCELERATED RADIATIVE TRANSFER CODE FOR SELF-CONSISTENT EXOPLANETARY ATMOSPHERES. <i>Astronomical Journal</i> , 2017, 153, 56.	4.7	128
21	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
22	THE IMPACT OF NON-UNIFORM THERMAL STRUCTURE ON THE INTERPRETATION OF EXOPLANET EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2016, 829, 52.	4.5	113
23	A giant planet candidate transiting a white dwarf. <i>Nature</i> , 2020, 585, 363-367.	27.8	111
24	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
25	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
26	Transiting Exoplanet Studies and Community Targets for <i>JWST</i>'s Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 094401.	3.1	98
27	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
28	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
29	PROSPECTS FOR CHARACTERIZING THE ATMOSPHERE OF PROXIMA CENTAURI b. <i>Astrophysical Journal Letters</i> , 2016, 832, L12.	8.3	75
30	Detection of Helium in the Atmosphere of the Exo-Neptune HAT-P-11b. <i>Astrophysical Journal Letters</i> , 2018, 868, L34.	8.3	73
31	Climate of an ultra hot Jupiter. <i>Astronomy and Astrophysics</i> , 2019, 625, A136.	5.1	71
32	An HST/WFC3 Thermal Emission Spectrum of the Hot Jupiter HAT-P-7b. <i>Astronomical Journal</i> , 2018, 156, 10.	4.7	70
33	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
34	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
35	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
36	Transit Signatures of Inhomogeneous Clouds on Hot Jupiters: Insights from Microphysical Cloud Modeling. <i>Astrophysical Journal</i> , 2019, 887, 170.	4.5	64

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37	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
38	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
39	Evidence for H <sub>2</sub> Dissociation and Recombination Heat Transport in the Atmosphere of KELT-9b. <i>Astrophysical Journal Letters</i> , 2020, 888, L15.	8.3	57
40	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
41	A Multi-planet System Transiting the V <sub>A</sub> = $\hat{A}$ 9 Rapidly Rotating F-Star HD 106315. <i>Astronomical Journal</i> , 2017, 153, 256.	4.7	52
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	Atmospheres of Rocky Exoplanets. <i>Annual Review of Astronomy and Astrophysics</i> , 2022, 60, 159-201.	24.3	29
51	Exoplanet Atmosphere Measurements from Transmission Spectroscopy and Other Planet Star Combined Light Observations. , 2018, , 2083-2105.		28
52	A comprehensive reanalysis of Spitzer's 4.5- $\mu$ 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
53	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
54	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

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55	An astronomical institute's perspective on meeting the challenges of the climate crisis. <i>Nature Astronomy</i> , 2020, 4, 812-815.	10.1	24
56	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
57	Phase Curves of Hot Neptune LTT 9779b Suggest a High-metallicity Atmosphere. <i>Astrophysical Journal Letters</i> , 2020, 903, L7.	8.3	19
58	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
59	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
60	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
61	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
62	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
63	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
64	The TRAPPIST-1 JWST Community Initiative. , 2020, 52, .		12
65	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
66	A survey of exoplanet phase curves with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 417-446.	3.7	10
67	Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827* . <i>Astronomical Journal</i> , 2021, 161, 47.	4.7	10
68	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
69	Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856+534 b. <i>Astronomical Journal</i> , 2021, 162, 296.	4.7	6
70	Two Massive Jupiters in Eccentric Orbits from the TESS Full-frame Images. <i>Astronomical Journal</i> , 2022, 163, 9.	4.7	5
71	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
72	Exoplanet Atmosphere Measurements from Transmission Spectroscopy and Other Planet Star Combined Light Observations. , 2018, , 1-23.		3

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73	Exogeoscience and Its Role in Characterizing Exoplanet Habitability and the Detectability of Life. , 2021, 53, .		0