Megan Mansfield

List of Publications by Year
in descending order

26 papers	1,625 citations	394421 19 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1478 citing authors

#	Article	IF	Citations
1	A Framework for Prioritizing the TESS Planetary Candidates Most Amenable to Atmospheric Characterization. Publications of the Astronomical Society of the Pacific, 2018, 130, 114401.	3.1	314
2	From thermal dissociation to condensation in the atmospheres of ultra hot Jupiters: WASP-121b in context. Astronomy and Astrophysics, 2018, 617, A110.	5.1	230
3	H^{â^’} Opacity and Water Dissociation in the Dayside Atmosphere of the Very Hot Gas Giant WASP-18b. Astrophysical Journal Letters, 2018, 855, L30.	8.3	217
4	The Transiting Exoplanet Community Early Release Science Program for JWST. Publications of the Astronomical Society of the Pacific, 2018, 130, 114402.	3.1	100
5	A solar C/O and sub-solar metallicity in a hot Jupiter atmosphere. Nature, 2021, 598, 580-584.	27.8	82
6	Detection of Helium in the Atmosphere of the Exo-Neptune HAT-P-11b. Astrophysical Journal Letters, 2018, 868, L34.	8.3	73
7	An HST/WFC3 Thermal Emission Spectrum of the Hot Jupiter HAT-P-7b. Astronomical Journal, 2018, 156, 10.	4.7	70
8	Evidence for H2 Dissociation and Recombination Heat Transport in the Atmosphere of KELT-9b. Astrophysical Journal Letters, 2020, 888, L15.	8.3	57
9	Identifying Candidate Atmospheres on Rocky M Dwarf Planets via Eclipse Photometry. Astrophysical Journal, 2019, 886, 140.	4.5	46
10	A transition between the hot and the ultra-hot Jupiter atmospheres. Astronomy and Astrophysics, 2020, 639, A36.	5.1	45
11	Exploring the Atmospheric Dynamics of the Extreme Ultrahot Jupiter KELT-9b Using TESS Photometry. Astronomical Journal, 2020, 160, 88.	4.7	44
12	Nondetection of Helium in the Upper Atmospheres of Three Sub-Neptune Exoplanets. Astronomical Journal, 2020, 160, 258.	4.7	44
13	A unique hot Jupiter spectral sequence with evidence for compositional diversity. Nature Astronomy, 2021, 5, 1224-1232.	10.1	40
14	Identifying Atmospheres on Rocky Exoplanets through Inferred High Albedo. Astrophysical Journal, 2019, 886, 141.	4.5	37
15	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. Astronomical Journal, 2019, 158, 244.	4.7	37
16	Analyzing Atmospheric Temperature Profiles and Spectra of M Dwarf Rocky Planets. Astrophysical Journal, 2019, 886, 142.	4.5	30
17	A comprehensive reanalysis of Spitzerâ€™s 4.5â€‰Î¼m phase curves, and the phase variations of the ultra-hot Jupiters MASCARA-1b and KELT-16b. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3316-3337.	4.4	28
18	Spitzer Phase-curve Observations and Circulation Models of the Inflated Ultrahot Jupiter WASP-76b. Astronomical Journal, 2021, 162, 158.	4.7	27

#	Article	IF	Citations
19	No Umbrella Needed: Confronting the Hypothesis of Iron Rain on WASP-76b with Post-processed General Circulation Models. Astrophysical Journal, 2022, 926, 85.	4.5	22
20	Strong H₂O and CO Emission Features in the Spectrum of KELT-20b Driven by Stellar UV Irradiation. Astrophysical Journal Letters, 2022, 925, L3.	8.3	16
21	Effect of Mars Atmospheric Loss on Snow Melt Potential in a 3.5â€‰Gyr Mars Climate Evolution Model. Journal of Geophysical Research E: Planets, 2018, 123, 794-806.	3.6	13
22	Smaller than Expected Bright-spot Offsets in Spitzer Phase Curves of the Hot Jupiter Qatar-1b. Astronomical Journal, 2020, 159, 225.	4.7	13
23	Confirmation of Water Absorption in the Thermal Emission Spectrum of the Hot Jupiter WASP-77Ab with HST/WFC3. Astronomical Journal, 2022, 163, 261.	4.7	11
24	A New Analysis of Eight Spitzer Phase Curves and Hot Jupiter Population Trends: Qatar-1b, Qatar-2b, WASP-52b, WASP-34b, and WASP-140b. Astronomical Journal, 2022, 163, 256.	4.7	10
25	The Volatile Carbon-to-oxygen Ratio as a Tracer for the Formation Locations of Interstellar Comets. Planetary Science Journal, 2022, 3, 150.	3.6	10
26	Eigenspectra: a framework for identifying spectra from 3D eclipse mapping. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5151-5162.	4.4	9