

# Joseph Harrington

## List of Publications by Citations

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|                   |                          |                |                 |
|-------------------|--------------------------|----------------|-----------------|
| 32<br>papers      | 7,904<br>citations       | 19<br>h-index  | 32<br>g-index   |
| 32<br>ext. papers | 13,580<br>ext. citations | 8.3<br>avg, IF | 4.86<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 32 | SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , <b>2020</b> , 17, 261-272   | 21.6 | 6244      |
| 31 | A high C/O ratio and weak thermal inversion in the atmosphere of exoplanet WASP-12b. <i>Nature</i> , <b>2011</b> , 469, 64-7  | 50.4 | 246       |
| 30 | The phase-dependent infrared brightness of the extrasolar planet upsilon Andromedae b. <i>Science</i> , <b>2006</b> , 314, 623-6  | 33.3 | 192       |
| 29 | TRANSIT AND ECLIPSE ANALYSES OF THE EXOPLANET HD 149026b USING BLISS MAPPING. <i>Astrophysical Journal</i> , <b>2012</b> , 754, 136   | 4.7  | 130       |
| 28 | The hottest planet. <i>Nature</i> , <b>2007</b> , 447, 691-3  | 50.4 | 126       |
| 27 | DECIPHERING THE ATMOSPHERIC COMPOSITION OF WASP-12b: A COMPREHENSIVE ANALYSIS OF ITS DAYSIDE EMISSION. <i>Astrophysical Journal</i> , <b>2014</b> , 791, 36                             | 4.7  | 115       |
| 26 | ON THE ORBIT OF EXOPLANET WASP-12b. <i>Astrophysical Journal</i> , <b>2011</b> , 727, 125   | 4.7  | 115       |
| 25 | ON CORRELATED-NOISE ANALYSES APPLIED TO EXOPLANET LIGHT CURVES. <i>Astronomical Journal</i> , <b>2017</b> , 153, 3  | 4.9  | 85        |
| 24 | Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2016</b> , 128, 094401 | 5    | 76        |
| 23 | SPITZER OBSERVATIONS OF THE THERMAL EMISSION FROM WASP-43b. <i>Astrophysical Journal</i> , <b>2014</b> , 781, 116   | 4.7  | 76        |
| 22 | SPITZER SECONDARY ECLIPSES OF WASP-18b. <i>Astrophysical Journal</i> , <b>2011</b> , 742, 35  | 4.7  | 75        |
| 21 | WASP-8b: CHARACTERIZATION OF A COOL AND ECCENTRIC EXOPLANET WITH SPITZER. <i>Astrophysical Journal</i> , <b>2013</b> , 768, 42  | 4.7  | 66        |
| 20 | TEA: A CODE CALCULATING THERMOCHEMICAL EQUILIBRIUM ABUNDANCES. <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 225, 4   | 8    | 59        |
| 19 | THERMAL EMISSION OF WASP-14b REVEALED WITH THREE SPITZER ECLIPSES. <i>Astrophysical Journal</i> , <b>2013</b> , 779, 5  | 4.7  | 56        |
| 18 | The Transiting Exoplanet Community Early Release Science Program for JWST. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2018</b> , 130, 114402                   | 5    | 51        |
| 17 | SPITZER FIVE-BAND ANALYSIS OF THE JUPITER-SIZED PLANET TrES-1. <i>Astrophysical Journal</i> , <b>2014</b> , 797, 42   | 4.7  | 37        |
| 16 | Secondary Eclipses of HAT-P-13b. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 143  | 4.7  | 30        |

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|----|--|-----|----|
| 15 | The thermal emission of the exoplanet WASP-3b. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2014</b> , 441, 3666-3678   | 4.3 | 27 |
| 14 | Jupiter's Tropospheric Thermal Emission. II. Power Spectrum Analysis and Wave Search. <i>Icarus</i> , <b>1996</b> , 124, 32-44   | 3.8 | 19 |
| 13 | Proxima Centauri b is not a transiting exoplanet. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 268-274  | 4.3 | 13 |
| 12 | Least Asymmetry Centering Method and Comparisons. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2014</b> , 126, 1092-1101  | 5   | 13 |
| 11 | Infrared Characterization of Jupiter's Equatorial Disturbance Cycle. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10,987  | 4.9 | 11 |
| 10 | Jupiter's Atmospheric Variability from Long-term Ground-based Observations at 5 $\mu$ m. <i>Astronomical Journal</i> , <b>2019</b> , 158, 130  | 4.9 | 10 |
| 9  | Jupiter's Tropospheric Thermal Emission. I. Observations and Techniques. <i>Icarus</i> , <b>1996</b> , 124, 22-31  | 3.8 | 7  |
| 8  | An Open-source Bayesian Atmospheric Radiative Transfer (BART) Code. II. The Transit Radiative Transfer Module and Retrieval of HAT-P-11b. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 81         | 2.9 | 7  |
| 7  | An Open-source Bayesian Atmospheric Radiative Transfer (BART) Code. III. Initialization, Atmospheric Profile Generator, Post-processing Routines. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 82 | 2.9 | 6  |
| 6  | An Open-source Bayesian Atmospheric Radiative Transfer (BART) Code. I. Design, Tests, and Application to Exoplanet HD 189733b. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 80                    | 2.9 | 6  |
| 5  | Identification and Mitigation of a Vibrational Telescope Systematic with Application to Spitzer. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 9   | 2.9 | 4  |
| 4  | Detection of Planetary Emission from TrES-2 using Spitzer/IRAC. <i>Proceedings of the International Astronomical Union</i> , <b>2008</b> , 4, 536-539  | 0.1 | 1  |
| 3  | Accurate Machine-learning Atmospheric Retrieval via a Neural-network Surrogate Model for Radiative Transfer. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 91                                      | 2.9 | 1  |
| 2  | On the Dayside Atmosphere of WASP-12b. <i>Astrophysical Journal</i> , <b>2022</b> , 931, 86  | 4.7 | 0  |
| 1  | Spitzer Dayside Emission of WASP-34b. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 86   | 2.9 |    |