

Jayesh Goyal

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,901
citations

257357

24
h-index

315616

38
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38
all docs

38
docs citations

38
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Diurnal variations in the stratosphere of the ultrahot giant exoplanet WASP-121b. <i>Nature Astronomy</i> , 2022, 6, 471-479.	4.2	26
2	A comprehensive analysis of WASP-17b's transmission spectrum from space-based observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4185-4209.	1.6	11
3	The Emission Spectrum of the Hot Jupiter WASP-79b from HST/WFC3. <i>Astronomical Journal</i> , 2022, 163, 7.	1.9	4
4	Solar-to-supersolar sodium and oxygen absolute abundances for a "hot Saturn" orbiting a metal-rich star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 3037-3058.	1.6	15
5	Evidence of a Clear Atmosphere for WASP-62b: The Only Known Transiting Gas Giant in the JWST Continuous Viewing Zone. <i>Astrophysical Journal Letters</i> , 2021, 906, L10.	3.0	20
6	ACCESS: An Optical Transmission Spectrum of the High-gravity Hot Jupiter HAT-P-23b. <i>Astronomical Journal</i> , 2021, 161, 278.	1.9	9
7	Pseudo-2D modelling of heat redistribution through H ₂ thermal dissociation/recombination: consequences for ultra-hot Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4515-4530.	1.6	14
8	Transmission spectroscopy with VLT FORS2: a featureless spectrum for the low-density transiting exoplanet WASP-88b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 2853-2870.	1.6	9
9	HST PanCET Program: A Complete Near-UV to Infrared Transmission Spectrum for the Hot Jupiter WASP-79b. <i>Astronomical Journal</i> , 2021, 162, 138.	1.9	21
10	On the Utility of Transmission Color Analysis i: Differentiating Super-Earths and Sub-Neptunes. <i>Astronomical Journal</i> , 2021, 162, 168.	1.9	1
11	Why is it So Hot in Here? Exploring Population Trends in Spitzer Thermal Emission Observations of Hot Jupiters Using Planet-specific, Self-consistent Atmospheric Models. <i>Astrophysical Journal</i> , 2021, 923, 242.	1.6	3
12	Abundance measurements of H ₂ O and carbon-bearing species in the atmosphere of WASP-127b confirm its supersolar metallicity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 4042-4064.	1.6	28
13	A library of self-consistent simulated exoplanet atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4680-4704.	1.6	36
14	Ground-based transmission spectroscopy with FORS2: A featureless optical transmission spectrum and detection of H ₂ O for the ultra-hot Jupiter WASP-103b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5155-5170.	1.6	20
15	Why Is it So Cold in Here? Explaining the Cold Temperatures Retrieved from Transmission Spectra of Exoplanet Atmospheres. <i>Astrophysical Journal Letters</i> , 2020, 893, L43.	3.0	78
16	Detection of Na, K, and H ₂ O in the hazy atmosphere of WASP-6b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5449-5472.	1.6	30
17	A new set of atmosphere and evolution models for cool T-type brown dwarfs and giant exoplanets. <i>Astronomy and Astrophysics</i> , 2020, 637, A38.	2.1	128
18	Into the UV: A Precise Transmission Spectrum of HAT-P-41b Using Hubble's WFC3/UVIS G280 Grism. <i>Astronomical Journal</i> , 2020, 159, 204.	1.9	36

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19	Into the UV: The Atmosphere of the Hot Jupiter HAT-P-41b Revealed. <i>Astrophysical Journal Letters</i> , 2020, 902, L19.	3.0	25
20	An emission spectrum for WASP-121b measured across the 0.8–1.1 μ m wavelength range using the Hubble Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2222-2234.	1.6	61
21	The carbon-to-oxygen ratio: implications for the spectra of hydrogen-dominated exoplanet atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 1123-1137.	1.6	26
22	Fully scalable forward model grid of exoplanet transmission spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4503-4513.	1.6	33
23	A library of ATMO forward model transmission spectra for hot Jupiter exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 5158-5185.	1.6	86
24	The Complete Transmission Spectrum of WASP-39b with a Precise Water Constraint. <i>Astronomical Journal</i> , 2018, 155, 29.	1.9	142
25	The effect of metallicity on the atmospheres of exoplanets with fully coupled 3D hydrodynamics, equilibrium chemistry, and radiative transfer. <i>Astronomy and Astrophysics</i> , 2018, 612, A105.	2.1	49
26	An Optical Transmission Spectrum for the Ultra-hot Jupiter WASP-121b Measured with the Hubble Space Telescope. <i>Astronomical Journal</i> , 2018, 156, 283.	1.9	106
27	The 3D Thermal, Dynamical, and Chemical Structure of the Atmosphere of HD 189733b: Implications of Wind-driven Chemistry for the Emission Phase Curve. <i>Astrophysical Journal</i> , 2018, 869, 28.	1.6	47
28	The HST PanCET Program: Hints of Na i and Evidence of a Cloudy Atmosphere for the Inflated Hot Jupiter WASP-52b. <i>Astronomical Journal</i> , 2018, 156, 298.	1.9	30
29	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.	1.0	100
30	Simulating the cloudy atmospheres of HD 209458 b and HD 189733 b with the 3D Met Office Unified Model. <i>Astronomy and Astrophysics</i> , 2018, 615, A97.	2.1	84
31	Exonephology: transmission spectra from a 3D simulated cloudy atmosphere of HD 209458b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 194-205.	1.6	45
32	Hubble PanCET: an isothermal day-side atmosphere for the bloated gas-giant HAT-P-32Ab. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1705-1717.	1.6	55
33	An absolute sodium abundance for a cloud-free “hot Saturn” exoplanet. <i>Nature</i> , 2018, 557, 526-529.	13.7	114
34	Exploring the climate of Proxima B with the Met Office Unified Model. <i>Astronomy and Astrophysics</i> , 2017, 601, A120.	2.1	92
35	Retrieval of cloud ice water path using SAPHIR on board Megha-Tropiques over the tropical ocean. <i>Advances in Space Research</i> , 2017, 59, 1895-1906.	1.2	4
36	An ultrahot gas-giant exoplanet with a stratosphere. <i>Nature</i> , 2017, 548, 58-61.	13.7	192

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37	The effects of consistent chemical kinetics calculations on the pressure-temperature profiles and emission spectra of hot Jupiters. <i>Astronomy and Astrophysics</i> , 2016, 594, A69.	2.1	113