

# 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  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1332  
citing authors

#	ARTICLE	IF	CITATIONS
1	An ultrahot gas-giant exoplanet with a stratosphere. <i>Nature</i> , 2017, 548, 58-61.	13.7	192
2	The Complete Transmission Spectrum of WASP-39b with a Precise Water Constraint. <i>Astronomical Journal</i> , 2018, 155, 29.	1.9	142
3	A new set of atmosphere and evolution models for cool Tâ€™Y brown dwarfs and giant exoplanets. <i>Astronomy and Astrophysics</i> , 2020, 637, A38.	2.1	128
4	An absolute sodium abundance for a cloud-free â€™hot Saturnâ€™™ exoplanet. <i>Nature</i> , 2018, 557, 526-529.	13.7	114
5	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
6	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
7	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
8	Exploring the climate of Proxima B with the Met Office Unified Model. <i>Astronomy and Astrophysics</i> , 2017, 601, A120.	2.1	92
9	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
10	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
11	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
12	An emission spectrum for WASP-121b measured across the 0.8â€™1.1â€™%â€™4m wavelength range using the Hubble Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2222-2234.	1.6	61
13	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
14	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
15	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
16	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
17	A library of self-consistent simulated exoplanet atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4680-4704.	1.6	36
18	Into the UV: A Precise Transmission Spectrum of HAT-P-41b Using Hubbleâ€™™s WFC3/UVIS G280 Grism. <i>Astronomical Journal</i> , 2020, 159, 204.	1.9	36

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19	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
20	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
21	Detection of Na, K, and H <sub>2</sub> O in the hazy atmosphere of WASP-6b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5449-5472.	1.6	30
22	Abundance measurements of H <sub>2</sub> 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
23	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
24	Diurnal variations in the stratosphere of the ultrahot giant exoplanet WASP-121b. <i>Nature Astronomy</i> , 2022, 6, 471-479.	4.2	26
25	Into the UV: The Atmosphere of the Hot Jupiter HAT-P-41b Revealed. <i>Astrophysical Journal Letters</i> , 2020, 902, L19.	3.0	25
26	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
27	Ground-based transmission spectroscopy with FORS2: A featureless optical transmission spectrum and detection of H <sub>2</sub> O for the ultra-hot Jupiter WASP-103b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5155-5170.	1.6	20
28	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
29	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
30	Pseudo-2D modelling of heat redistribution through H <sub>2</sub> thermal dissociation/recombination: consequences for ultra-hot Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4515-4530.	1.6	14
31	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
32	ACCESS: An Optical Transmission Spectrum of the High-gravity Hot Jupiter HAT-P-23b. <i>Astronomical Journal</i> , 2021, 161, 278.	1.9	9
33	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
34	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
35	The Emission Spectrum of the Hot Jupiter WASP-79b from HST/WFC3. <i>Astronomical Journal</i> , 2022, 163, 7.	1.9	4
36	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

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37	On the Utility of Transmission Color Analysis i: Differentiating Super-Earths and Sub-Neptunes. <i>Astronomical Journal</i> , 2021, 162, 168.	1.9	1