

# Yayaati Chachan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8008519/publications.pdf>

Version: 2024-02-01

14  
papers

410  
citations

840776

11  
h-index

1058476

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forward Modeling and Retrievals with PLATON, a Fast Open-source Tool. Publications of the Astronomical Society of the Pacific, 2019, 131, 034501.	3.1	88
2	PLATON II: New Capabilities and a Comprehensive Retrieval on HD 189733b Transit and Eclipse Data. Astrophysical Journal, 2020, 899, 27.	4.5	68
3	Diffuser-assisted Infrared Transit Photometry for Four Dynamically Interacting Kepler Systems. Astronomical Journal, 2020, 159, 108.	4.7	40
4	On the Role of Dissolved Gases in the Atmosphere Retention of Low-mass Low-density Planets. Astrophysical Journal, 2018, 854, 21.	4.5	38
5	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. Astronomical Journal, 2019, 158, 244.	4.7	37
6	Metastable Helium Reveals an Extended Atmosphere for the Gas Giant HAT-P-18b. Astrophysical Journal Letters, 2021, 909, L10.	8.3	32
7	A Featureless Infrared Transmission Spectrum for the Super-puff Planet Kepler-79d. Astronomical Journal, 2020, 160, 201.	4.7	24
8	Optical to Near-infrared Transmission Spectrum of the Warm Sub-Saturn HAT-P-12b. Astronomical Journal, 2020, 159, 234.	4.7	21
9	A Search for Planetary Metastable Helium Absorption in the V1298 Tau System. Astronomical Journal, 2021, 162, 222.	4.7	19
10	Radial Gradients in Dust-to-gas Ratio Lead to Preferred Region for Giant Planet Formation. Astrophysical Journal, 2021, 919, 63.	4.5	14
11	Kepler-167e as a Probe of the Formation Histories of Cold Giants with Inner Super-Earths. Astrophysical Journal, 2022, 926, 62.	4.5	13
12	Dust accretion in binary systems: implications for planets and transition discs. Monthly Notices of the Royal Astronomical Society, 2019, , .	4.4	7
13	A linear approximation for the effect of cylindrical differential rotation on gravitational moments: Application to the non-unique interpretation of Saturn's gravity. Icarus, 2019, 323, 87-98.	2.5	5
14	The Hubble PanCET Program: A Featureless Transmission Spectrum for WASP-29b and Evidence of Enhanced Atmospheric Metallicity on WASP-80b. Astronomical Journal, 2022, 164, 30.	4.7	4