

# Karan Molaverdikhani

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,609  
citations

331642

21  
h-index

289230

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observability of temperate exoplanets with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 375-390.	3.7	1
2	A multi-planetary system orbiting the early-M dwarf TOI-1238. <i>Astronomy and Astrophysics</i> , 2022, 658, A138.	5.1	7
3	Silicon in the dayside atmospheres of two ultra-hot Jupiters. <i>Astronomy and Astrophysics</i> , 2022, 657, L2.	5.1	15
4	Detection of iron emission lines and a temperature inversion on the dayside of the ultra-hot Jupiter KELT-20b. <i>Astronomy and Astrophysics</i> , 2022, 659, A7.	5.1	19
5	Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b. <i>Astronomy and Astrophysics</i> , 2022, 659, A17.	5.1	9
6	Observations of PAHs in the atmospheres of discs and exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 430-438.	4.4	3
7	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
8	Detection of CO emission lines in the dayside atmospheres of WASP-33b and WASP-189b with GIANO. <i>Astronomy and Astrophysics</i> , 2022, 661, L6.	5.1	13
9	Toward RNA Life on Early Earth: From Atmospheric HCN to Biomolecule Production in Warm Little Ponds. <i>Astrophysical Journal</i> , 2022, 932, 9.	4.5	15
10	Modelling the He I triplet absorption at 10 830 Å in the atmospheres of HD 189733 b and GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2021, 647, A129.	5.1	27
11	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. <i>Science</i> , 2021, 371, 1038-1041.	12.6	41
12	Understanding the atmospheric properties and chemical composition of the ultra-hot Jupiter HAT-P-7b. <i>Astronomy and Astrophysics</i> , 2021, 648, A80.	5.1	9
13	Evidence of energy-, recombination-, and photon-limited escape regimes in giant planet H/He atmospheres. <i>Astronomy and Astrophysics</i> , 2021, 648, L7.	5.1	19
14	Mass and density of the transiting hot and rocky super-Earth LHS 1478 b (TOI-1640 b). <i>Astronomy and Astrophysics</i> , 2021, 649, A144.	5.1	19
15	An ultra-short-period transiting super-Earth orbiting the M3 dwarf TOI-1685. <i>Astronomy and Astrophysics</i> , 2021, 650, A78.	5.1	27
16	CARMENES detection of the Ca II infrared triplet and possible evidence of He I in the atmosphere of WASP-76b. <i>Astronomy and Astrophysics</i> , 2021, 654, A163.	5.1	29
17	Probing the atmosphere of WASP-69 b with low- and high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2021, 656, A142.	5.1	11
18	TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf. <i>Astronomy and Astrophysics</i> , 2021, 656, A124.	5.1	22

#	ARTICLE	IF	CITATIONS
19	A planetary system with two transiting mini-Neptunes near the radius valley transition around the bright M dwarf TOI-776. <i>Astronomy and Astrophysics</i> , 2021, 645, A41.	5.1	33
20	Detection of the hydrogen Balmer lines in the ultra-hot Jupiter WASP-33b. <i>Astronomy and Astrophysics</i> , 2021, 645, A22.	5.1	31
21	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A173.	5.1	47
22	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). <i>Astronomy and Astrophysics</i> , 2020, 642, A236.	5.1	27
23	Understanding the atmospheric properties and chemical composition of the ultra-hot Jupiter HAT-P-7b. <i>Astronomy and Astrophysics</i> , 2020, 635, A31.	5.1	16
24	EDEN: Sensitivity Analysis and Transiting Planet Detection Limits for Nearby Late Red Dwarfs. <i>Astronomical Journal</i> , 2020, 159, 169.	4.7	18
25	Modelling the He I triplet absorption at 10 830 Å in the atmosphere of HD 209458 b. <i>Astronomy and Astrophysics</i> , 2020, 636, A13.	5.1	49
26	LBT transmission spectroscopy of HAT-P-12b. <i>Astronomy and Astrophysics</i> , 2020, 642, A98.	5.1	18
27	A He I upper atmosphere around the warm Neptune GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2020, 638, A61.	5.1	65
28	A temperature inversion with atomic iron in the ultra-hot dayside atmosphere of WASP-189b. <i>Astronomy and Astrophysics</i> , 2020, 640, L5.	5.1	46
29	Discriminating between hazy and clear hot-Jupiter atmospheres with CARMENES. <i>Astronomy and Astrophysics</i> , 2020, 643, A24.	5.1	13
30	A Highly Eccentric Warm Jupiter Orbiting TIC 237913194. <i>Astronomical Journal</i> , 2020, 160, 275.	4.7	19
31	The Role of Clouds on the Depletion of Methane and Water Dominance in the Transmission Spectra of Irradiated Exoplanets. <i>Astrophysical Journal</i> , 2020, 899, 53.	4.5	25
32	HCN Production in Titan's Atmosphere: Coupling Quantum Chemistry and Disequilibrium Atmospheric Modeling. <i>Astrophysical Journal</i> , 2020, 901, 110.	4.5	11
33	The widest broadband transmission spectrum (0.38–1.71 μm) of HD 189733b from ground-based chromatic Rossiter-McLaughlin observations. <i>Astronomy and Astrophysics</i> , 2020, 643, A64.	5.1	10
34	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. <i>Astronomy and Astrophysics</i> , 2019, 628, A39.	5.1	97
35	From Cold to Hot Irradiated Gaseous Exoplanets: Toward an Observation-based Classification Scheme. <i>Astrophysical Journal</i> , 2019, 873, 32.	4.5	32
36	From Cold to Hot Irradiated Gaseous Exoplanets: Fingerprints of Chemical Disequilibrium in Atmospheric Spectra. <i>Astrophysical Journal</i> , 2019, 883, 194.	4.5	41

#	ARTICLE	IF	CITATIONS
37	Understanding the atmospheric properties and chemical composition of the ultra-hot Jupiter HAT-P-7b. <i>Astronomy and Astrophysics</i> , 2019, 631, A79.	5.1	51
38	petitRADTRANS. <i>Astronomy and Astrophysics</i> , 2019, 627, A67.	5.1	253
39	Ionized calcium in the atmospheres of two ultra-hot exoplanets WASP-33b and KELT-9b. <i>Astronomy and Astrophysics</i> , 2019, 632, A69.	5.1	85
40	Detection of He I $\lambda$ 10830 absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 620, A97.	5.1	120
41	Ground-based detection of an extended helium atmosphere in the Saturn-mass exoplanet WASP-69b. <i>Science</i> , 2018, 362, 1388-1391.	12.6	174
42	The abundance and vertical distribution of the unknown ultraviolet absorber in the venusian atmosphere from analysis of Venus Monitoring Camera images. <i>Icarus</i> , 2012, 217, 648-660.	2.5	27
43	Moderately misaligned orbit of the warm sub-Saturn HD332231 b. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	5