

Ahmed Faris Al-Refaie

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,294
citations

393982

19
h-index

500791

28
g-index

28
all docs

28
docs citations

28
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Five Key Exoplanet Questions Answered via the Analysis of 25 Hot-Jupiter Atmospheres in Eclipse. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 3.	3.0	33
2	A Comparison of Chemical Models of Exoplanet Atmospheres Enabled by TauREx 3.1. <i>Astrophysical Journal</i> , 2022, 932, 123.	1.6	19
3	An Exploration of Model Degeneracies with a Unified Phase Curve Retrieval Analysis: The Light and Dark Sides of WASP-43 b. <i>Astrophysical Journal</i> , 2021, 913, 73.	1.6	22
4	ARES.* V. No Evidence For Molecular Absorption in the HST WFC3 Spectrum of GJ 1132 b. <i>Astronomical Journal</i> , 2021, 161, 284.	1.9	40
5	TauREx 3: A Fast, Dynamic, and Extendable Framework for Retrievals. <i>Astrophysical Journal</i> , 2021, 917, 37.	1.6	66
6	ARES IV: Probing the Atmospheres of the Two Warm Small Planets HD 106315c and HD 3167c with the HST/WFC3 Camera*. <i>Astronomical Journal</i> , 2021, 161, 19.	1.9	25
7	Hubble WFC3 Spectroscopy of the Habitable-zone Super-Earth LHS 1140 b. <i>Astronomical Journal</i> , 2021, 161, 44.	1.9	45
8	Alfnoor: Assessing the Information Content of Ariel's Low-resolution Spectra with Planetary Population Studies. <i>Astronomical Journal</i> , 2021, 162, 288.	1.9	5
9	The 2020 release of the ExoMol database: Molecular line lists for exoplanet and other hot atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 255, 107228.	1.1	127
10	ARES I: WASP-76 b, A Tale of Two HST Spectra*. <i>Astronomical Journal</i> , 2020, 160, 8.	1.9	56
11	Spatial separation of 2-propanol monomer and its ionization-fragmentation pathways. <i>Journal of Molecular Structure</i> , 2020, 1208, 127863.	1.8	1
12	ARES. II. Characterizing the Hot Jupiters WASP-127 b, WASP-79 b, and WASP-62b with the Hubble Space Telescope*. <i>Astronomical Journal</i> , 2020, 160, 109.	1.9	52
13	Alfnoor: A Retrieval Simulation of the Ariel Target List. <i>Astronomical Journal</i> , 2020, 160, 80.	1.9	29
14	ARES. III. Unveiling the Two Faces of KELT-7 b with HST WFC3*. <i>Astronomical Journal</i> , 2020, 160, 112.	1.9	33
15	WASP-117 b: An Eccentric Hot Saturn as a Future Complex Chemistry Laboratory. <i>Astronomical Journal</i> , 2020, 160, 233.	1.9	17
16	KELT-11 b: Abundances of Water and Constraints on Carbon-bearing Molecules from the Hubble Transmission Spectrum. <i>Astronomical Journal</i> , 2020, 160, 260.	1.9	20
17	TauREx3 PhaseCurve: A 1.5D Model for Phase-curve Description. <i>Astrophysical Journal</i> , 2020, 898, 155.	1.6	19
18	Quantemol Electron Collisions (QEC): An Enhanced Expert System for Performing Electron Molecule Collision Calculations Using the R-Matrix Method. <i>Atoms</i> , 2019, 7, 97.	0.7	41

#	ARTICLE	IF	CITATIONS
19	<code>PymePix</code> : a python library for SPIDR readout of Timepix3. Journal of Instrumentation, 2019, 14, P10003-P10003.	0.5	4
20	First demonstration of 3D optical readout of a TPC using a single photon sensitive Timepix3 based camera. Journal of Instrumentation, 2019, 14, P06001-P06001.	0.5	14
21	GPU Accelerated Intensities MPI (GAIN-MPI): A new method of computing Einstein-A coefficients. Computer Physics Communications, 2017, 214, 216-224.	3.0	17
22	A parallel algorithm for Hamiltonian matrix construction in electron-molecule collision calculations: MPI-SCATCI. Computer Physics Communications, 2017, 221, 53-62.	3.0	3
23	ExoMol molecular line lists – XVII. The rotation-vibration spectrum of hot SO ₃ . Monthly Notices of the Royal Astronomical Society, 2016, 462, 4300-4313.	1.6	32
24	ExoMol line lists – XV. A new hot line list for hydrogen peroxide. Monthly Notices of the Royal Astronomical Society, 2016, 461, 1012-1022.	1.6	22
25	The ExoMol database: Molecular line lists for exoplanet and other hot atmospheres. Journal of Molecular Spectroscopy, 2016, 327, 73-94.	0.4	364
26	ExoMol line lists – VIII. A variationally computed line list for hot formaldehyde. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1704-1714.	1.6	56
27	ExoMol line lists – VII. The rotation-vibration spectrum of phosphine up to 1500 K. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2337-2347.	1.6	99
28	A variationally calculated room temperature line-list for H ₂ O ₂ . Journal of Molecular Spectroscopy, 2015, 318, 84-90.	0.4	33