Billy Edwards

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5026218/publications.pdf

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37	1,154	394421	395702
papers	citations	19 h-index	33 g-index

44	44	44	947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detectability of Rocky-Vapour atmospheres on super-Earths with Ariel. Experimental Astronomy, 2022, 53, 357-374.	3.7	5
2	A survey of exoplanet phase curves with Ariel. Experimental Astronomy, 2022, 53, 417-446.	3.7	10
3	ExoClock project: an open platform for monitoring the ephemerides of Ariel targets with contributions from the public. Experimental Astronomy, 2022, 53, 547-588.	3.7	17
4	Disentangling atmospheric compositions of K2-18 b with next generation facilities. Experimental Astronomy, 2022, 53, 391-416.	3.7	6
5	A retrieval challenge exercise for the Ariel mission. Experimental Astronomy, 2022, 53, 447-471.	3.7	9
6	ExoClock Project. II. A Large-scale Integrated Study with 180 Updated Exoplanet Ephemerides. Astrophysical Journal, Supplement Series, 2022, 258, 40.	7.7	24
7	Observations of PAHs in the atmospheres of discs and exoplanets. Monthly Notices of the Royal Astronomical Society, 2022, 512, 430-438.	4.4	3
8	Cross-sectionsÂfor heavy atmospheres: H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O self-broadening. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108146.	2.3	6
9	Five Key Exoplanet Questions Answered via the Analysis of 25 Hot-Jupiter Atmospheres in Eclipse. Astrophysical Journal, Supplement Series, 2022, 260, 3.	7.7	33
10	The Ariel Target List: The Impact of TESS and the Potential for Characterizing Multiple Planets within a System. Astronomical Journal, 2022, 164, 15.	4.7	14
11	The Transmission Spectrum of WASP-17 b From the Optical to the Near-infrared Wavelengths: Combining STIS, WFC3, and IRAC Data Sets. Astronomical Journal, 2022, 164, 2.	4.7	8
12	Original Research by Young Twinkle Students (ORBYTS): ephemeris refinement of transiting exoplanets. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5671-5684.	4.4	19
13	The Hubble WFC3 Emission Spectrum of the Extremely Hot Jupiter KELT-9b. Astrophysical Journal Letters, 2021, 907, L22.	8.3	29
14	An Exploration of Model Degeneracies with a Unified Phase Curve Retrieval Analysis: The Light and Dark Sides of WASP-43 b. Astrophysical Journal, 2021, 913, 73.	4.5	22
15	ARES.* V. No Evidence For Molecular Absorption in the HST WFC3 Spectrum of GJ 1132 b. Astronomical Journal, 2021, 161, 284.	4.7	40
16	Terminus: A Versatile Simulator for Space-based Telescopes. Astronomical Journal, 2021, 161, 266.	4.7	7
17	On the Compatibility of Ground-based and Space-based Data: WASP-96 b, an Example*. Astronomical Journal, 2021, 161, 4.	4.7	38
18	ARES IV: Probing the Atmospheres of the Two Warm Small Planets HD 106315c and HD 3167c with the HST/WFC3 Camera*. Astronomical Journal, 2021, 161, 19.	4.7	25

#	Article	IF	Citations
19	Hubble WFC3 Spectroscopy of the Habitable-zone Super-Earth LHS 1140 b. Astronomical Journal, 2021, 161, 44.	4.7	45
20	Peeking inside the Black Box: Interpreting Deep-learning Models for Exoplanet Atmospheric Retrievals. Astronomical Journal, 2021, 162, 195.	4.7	11
21	ArielRad: the Ariel radiometric model. Experimental Astronomy, 2020, 50, 303-328.	3.7	33
22	A sustainable path for space science. Nature Astronomy, 2020, 4, 1017-1018.	10.1	0
23	ARES I: WASP-76 b, A Tale of Two HST Spectra*. Astronomical Journal, 2020, 160, 8.	4.7	56
24	ARES. II. Characterizing the Hot Jupiters WASP-127 b, WASP-79 b, and WASP-62b with the Hubble Space Telescope*. Astronomical Journal, 2020, 160, 109.	4.7	52
25	Alfnoor: A Retrieval Simulation of the Ariel Target List. Astronomical Journal, 2020, 160, 80.	4.7	29
26	ARES. III. Unveiling the Two Faces of KELT-7 b with HST WFC3*. Astronomical Journal, 2020, 160, 112.	4.7	33
27	WASP-117 b: An Eccentric Hot Saturn as a Future Complex Chemistry Laboratory. Astronomical Journal, 2020, 160, 233.	4.7	17
28	KELT-11 b: Abundances of Water and Constraints on Carbon-bearing Molecules from the Hubble Transmission Spectrum. Astronomical Journal, 2020, 160, 260.	4.7	20
29	Original Research by Young Twinkle Students (Orbyts): Ephemeris Refinement of Transiting Exoplanets II. Research Notes of the AAS, 2020, 4, 109.	0.7	6
30	An Updated Study of Potential Targets for Ariel. Astronomical Journal, 2019, 157, 242.	4.7	75
31	Observing Exoplanets in the Near-Infrared from a High Altitude Balloon Platform. Journal of Astronomical Instrumentation, 2019, 08, .	1.5	8
32	Exoplanet spectroscopy and photometry with the Twinkle space telescope. Experimental Astronomy, 2019, 47, 29-63.	3.7	47
33	Toward a More Complex Description of Chemical Profiles in Exoplanet Retrievals: A Two-layer Parameterization. Astrophysical Journal, 2019, 886, 39.	4.5	49
34	Remote-sensing characterization of major Solar System bodies with the Twinkle space telescope. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	5
35	Small bodies science with the Twinkle space telescope. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	3
36	The Transiting Exoplanet Community Early Release Science Program for JWST. Publications of the Astronomical Society of the Pacific, 2018, 130, 114402.	3.1	100

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37	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249