# Billy Edwards

List of Publications by Year
in descending order

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

Version: 2024-02-01

| 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 | A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209. | 3.7 | 249 |
| 2 | The Transiting Exoplanet Community Early Release Science Program for JWST. Publications of the Astronomical Society of the Pacific, 2018, 130, 114402. | 3.1 | 100 |
| 3 | An Updated Study of Potential Targets for Ariel. Astronomical Journal, 2019, 157, 242. | 4.7 | 75 |
| 4 | ARES I: WASP-76 b, A Tale of Two HST Spectra*. Astronomical Journal, 2020, 160, 8. | 4.7 | 56 |
| 5 | 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 |
| 6 | Toward a More Complex Description of Chemical Profiles in Exoplanet Retrievals: A Two-layer Parameterization. Astrophysical Journal, 2019, 886, 39. | 4.5 | 49 |
| 7 | Exoplanet spectroscopy and photometry with the Twinkle space telescope. Experimental Astronomy, 2019, 47, 29-63. | 3.7 | 47 |
| 8 | Hubble WFC3 Spectroscopy of the Habitable-zone Super-Earth LHS 1140 b. Astronomical Journal, 2021, 161, 44. | 4.7 | 45 |
| 9 | ARES.* V. No Evidence For Molecular Absorption in the HST WFC3 Spectrum of GJ 1132 b. Astronomical Journal, 2021, 161, 284. | 4.7 | 40 |
| 10 | On the Compatibility of Ground-based and Space-based Data: WASP-96 b, an Example*. Astronomical Journal, 2021, 161, 4. | 4.7 | 38 |
| 11 | ArielRad: the Ariel radiometric model. Experimental Astronomy, 2020, 50, 303-328. | 3.7 | 33 |
| 12 | ARES. III. Unveiling the Two Faces of KELT-7 b with HST WFC3*. Astronomical Journal, 2020, 160, 112. | 4.7 | 33 |
| 13 | 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 |
| 14 | The Hubble WFC3 Emission Spectrum of the Extremely Hot Jupiter KELT-9b. Astrophysical Journal Letters, 2021, 907, L22. | 8.3 | 29 |
| 15 | Alfnoor: A Retrieval Simulation of the Ariel Target List. Astronomical Journal, 2020, 160, 80. | 4.7 | 29 |
| 16 | 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 |
| 17 | ExoClock Project. II. A Large-scale Integrated Study with 180 Updated Exoplanet Ephemerides. Astrophysical Journal, Supplement Series, 2022, 258, 40. | 7.7 | 24 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | WASP-117 b: An Eccentric Hot Saturn as a Future Complex Chemistry Laboratory. Astronomical Journal, 2020, 160, 233. | 4.7 | 17 |
| 23 | 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 |
| 24 | Peeking inside the Black Box: Interpreting Deep-learning Models for Exoplanet Atmospheric Retrievals. Astronomical Journal, 2021, 162, 195. | 4.7 | 11 |
| 25 | A survey of exoplanet phase curves with Ariel. Experimental Astronomy, 2022, 53, 417-446. | 3.7 | 10 |
| 26 | A retrieval challenge exercise for the Ariel mission. Experimental Astronomy, 2022, 53, 447-471. | 3.7 | 9 |
| 27 | Observing Exoplanets in the Near-Infrared from a High Altitude Balloon Platform. Journal of Astronomical Instrumentation, 2019, 08, . | 1.5 | 8 |
| 28 | 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 |
| 29 | Terminus: A Versatile Simulator for Space-based Telescopes. Astronomical Journal, 2021, 161, 266. | 4.7 | 7 |
| 30 | Disentangling atmospheric compositions of K2-18 b with next generation facilities. Experimental Astronomy, 2022, 53, 391-416. | 3.7 | 6 |
| 31 | Original Research by Young Twinkle Students (Orbyts): Ephemeris Refinement of Transiting Exoplanets II. Research Notes of the AAS, 2020, 4, 109. | 0.7 | 6 |
| 32 | 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 |
| 33 | Detectability of Rocky-Vapour atmospheres on super-Earths with Ariel. Experimental Astronomy, 2022, 53, 357-374. | 3.7 | 5 |
| 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 | Observations of PAHs in the atmospheres of discs and exoplanets. Monthly Notices of the Royal Astronomical Society, 2022, 512, 430-438. | 4.4 | 3 |

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|---|---|---|---|
| 37 | A sustainable path for space science. Nature Astronomy, 2020, 4, 1017-1018. | 10.1 | 0 |