

Total Refereed: 181; 1st-author: 16; Citations: 6155; h-index: 50; i10-index: 133

First-Author Publications

- [1] **F. Dai**, K Masuda, JN Winn, L Zeng 2019, The Astrophysical Journal, 883, 1, [ADS](#)
Homogeneous Analysis of Hot Earths: Masses, Sizes, and Compositions
- [2] **F. Dai**, JN Winn, 2017, The Astronomical Journal 153, 205, [ADS](#)
The Oblique Orbit of WASP-107b from K2 Photometry
- [3] **F. Dai**, JN Winn, D Gandolfi, et al., 2017, The Astronomical Journal 154, 226, [ADS](#)
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- [4] **F. Dai**, K Masuda, JN Winn, 2018, The Astrophysical Journal Letter, 864, 2, L38, [ADS](#)
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- [5] **F. Dai**, A Masuda, C Beard, et al., 2023, The Astronomical Journal, 165, 33, [ADS](#)
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- [6] **F. Dai**, S Facchini, CJ Clarke, TJ Haworth, 2015, MNRAS 449, 2, [ADS](#)
A Tidal Encounter Caught in the Act: Modelling a Star-disc Fly-by in the Young RW Aurigae System
- [7] **F. Dai**, JN Winn, S Albrecht, P Arriagada, et al., 2016, The Astrophysical Journal 825, 53, [ADS](#)
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- [8] **F. Dai**, A Howard, N Batalha, et al., 2021, The Astronomical Journal, 162, 62, [ADS](#)
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- [11] **F. Dai**, R Roy, BJ Fulton, et al. 2020, The Astronomical Journal, 160, 193, [ADS](#)
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- [12] **F. Dai**, JN Winn, K Schlaufman, et al., 2020, The Astronomical Journal, 159, 247, [ADS](#)
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- [13] **F. Dai**, M. Goldberg, K. Batygin, et al., 2024, The Astronomical Journal, 166, 239, [ADS](#)
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- [14] **F. Dai**, JN Winn, Z Berta-Thompson, R Sanchis-Ojeda, 2018, The Astronomical Journal 155, 177, [ADS](#)
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- [15] **F. Dai**, A. Howard, S. Halverson, et al., 2024, The Astronomical Journal, 168, 101, [ADS](#)
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A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+ 29 2654

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- [20] E. Zhang, H. Teng, **F. Dai**, et al. 2025, The Astrophysical Journal, in press, [ADS](#)

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Planet engulfment detections are rare according to observations and stellar modelling
- [32] C. Brinkman, L. Weiss, **F. Dai**, et al., 2023, *The Astronomical Journal*, 165, 3, 88, [ADS](#)
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- [37] W. Zhu, K. Bernhard, **F. Dai**, et al., 2022, *The Astrophysical Journal Letters* 933 (1), L21, [ADS](#)
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- [40] L. Wang & **F. Dai**, 2021, *The Astrophysical Journal*, 914, 2, 98, [ADS](#)
Metastable Helium Absorptions with 3D Hydrodynamics and Self-consistent Photochemistry. II. WASP-107b, Stellar Wind, Radiation Pressure, and Shear Instability
- [41] L. Wang & **F. Dai**, 2021, *The Astrophysical Journal*, 914, 2, 98, [ADS](#)
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- [48] W Zhu, **F. Dai**, K Masuda, 2018, Research Notes of the American Astronomical Society, 2, 3, [ADS](#)
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- [49] V Van Eylen, **F. Dai**, et al., 2018, MNRAS, 478, 4, [ADS](#)
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- [50] O Barragan, D Gandolfi, **F. Dai**, et al., 2018, Astronomy & Astrophysics 612, A95, [ADS](#)
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- [59] X. Hua, **including F. Dai**, et al., 2025, The Astrophysical Journal Letters 980, L46 [ADS](#)
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- [60] M. Zhang, **including F. Dai**, et al., 2025, The Astronomical Journal 169, 204 [ADS](#)
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- [66] A. Howard, **including F. Dai**, et al., 2025, ApJS, 278, 52 [ADS](#)
Planet Masses, Radii, and Orbits from NASA's K2 Mission
- [67] S. Giacalone, **including F. Dai**, et al., 2025, PASP, 137,10 [ADS](#)
A Hot Jupiter with a Retrograde Orbit around a Sun-like Star and a Toy Model of Hot Jupiters in Wide

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- [75] H. Isaacson, **including F. Dai**, et al., 2024, submitted to ApJS, [ADS](#)
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