

Total Refereed: 110; 1st-authored: 13; Citations: 2548; h-index: 31; i10-index: 68

First-Author Publications

- [1] **F Dai**, A Masuda, C Beard, et al., 2022, The Astronomical Journal, submitted, [ADS](#)
TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain
- [2] **F Dai**, A Howard, N Batalha, et al., 2021, The Astronomical Journal, 162, 62, [ADS](#)
The TESS-Keck Survey. X: TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes
- [3] **F Dai**, R Roy, BJ Fulton, et al. 2020, The Astronomical Journal, 160, 193, [ADS](#)
The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c
- [4] **F Dai**, JN Winn, K Schlaufman, et al., 2020, The Astronomical Journal, 159, 247, [ADS](#)
California-Kepler Survey. IX. Revisiting the Minimum-mass Extrasolar Nebula with Precise Stellar Parameters
- [5] **F Dai**, K Masuda, JN Winn, L Zeng 2019, The Astrophysical Journal, 883, 1, [ADS](#)
Homogeneous Analysis of Hot Earths: Masses, Sizes, and Compositions
- [6] **F Dai**, K Masuda, JN Winn, 2018, The Astrophysical Journal Letter, 864, 2, L38, [ADS](#)
Larger Mutual Inclinations for the Shortest-period Planets
- [7] **F Dai**, JN Winn, Z Berta-Thompson, R Sanchis-Ojeda, S Albrecht, 2018, The Astronomical Journal 155, 177, [ADS](#)
Stellar Obliquity and Magnetic Activity of Planet-hosting Stars and Eclipsing Binaries Based on Transit Chord Correlation
- [8] **F Dai**, JN Winn, D Gandolfi, et al., 2017, The Astronomical Journal 154, 226, [ADS](#)
The Discovery and Mass Measurement of a New Ultra-short-period Planet: K2-131b
- [9] **F Dai**, JN Winn, 2017, The Astronomical Journal 153, 205, [ADS](#)
The Oblique Orbit of WASP-107b from K2 Photometry
- [10] **F Dai**, JN Winn, L Yu, S Albrecht, 2017, The Astronomical Journal 153, 40, [ADS](#)
The Stellar Obliquity, Planet Mass, and Very Low Albedo of Qatar-2 from K2 Photometry
- [11] **F Dai**, JN Winn, S Albrecht, P Arriagada, et al., 2016, The Astrophysical Journal 825, 53, [ADS](#)
Doppler Monitoring of five K2 Transiting Planetary Systems
- [12] **F Dai**, JN Winn, P Arriagada, RP Butler, JD Crane, et al., 2015, The Astrophysical Journal Letters 813, L9, [ADS](#)
Doppler Monitoring of the WASP-47 Multiplanet System
- [13] **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

Major-Contribution Publications

- [14] M Zhang, H Knutson, **F Dai**, et al., 2022, The Astronomical Journal, in press, [ADS](#)
Detection of Atmospheric Escape from Four Young Mini Neptunes
- [15] A Behmard, **F Dai**, A Howard, 2022, The Astronomical Journal, 163, 4
Stellar Companions to TESS Objects of Interest: A Test of Planet-Companion Alignment
- [16] L Weiss, **F Dai**, et al., 2021, The Astronomical Journal, 161, 2, [ADS](#)
The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Thick-disk Star TOI-561
- [17] R Rubenzahl, **F Dai**, et al., 2021, The Astronomical Journal, 161, 3, [ADS](#)
TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b
- [18] 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
- [19] L Wang & **F Dai**, 2021, The Astrophysical Journal, 914, 2, 98, [ADS](#)
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- [20] M Zhang, H Knutson, L Wang, **F Dai**, et al., 2021, *The Astronomical Journal*, 161, 4, [ADS](#)
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- [21] M Zhang, H Knutson, L Wang, **F Dai**, et al., 2021, *The Astronomical Journal*, 163, 2, [ADS](#)
Detection of Ongoing Mass Loss from HD 63433c, a Young Mini Neptune
- [22] G Li, **F Dai** & J Becker, 2020, *The Astrophysical Journal Letters*, 890, 2 [ADS](#)
Mutual Inclination Excitation by Stellar Oblateness
- [23] J Livingston, **F Dai**, et al., 2019, *MNRAS*, 484, 1, [ADS](#)
K2-264: a Transiting Multiplanet System in the Praesepe Open Cluster
- [24] L Wang & **F Dai**, 2018, *The Astrophysical Journal Letters* 873, 1, L1, [ADS](#)
Dusty Outflows in Planetary Atmospheres: Understanding "Super-puffs" and Transmission Spectra of Sub-Neptunes
- [25] JH Livingston, M Endl, **F Dai**, et al., 2018, *The Astronomical Journal* 156 , 78 [ADS](#)
44 Validated Planets from K2 Campaign 10
- [26] MC Johnson, **F Dai**, et al., 2018, *MNRAS*, 481, 1, [ADS](#)
The K2-260 b: a Hot Jupiter Transiting an F Star, and K2-261 b: a Warm Saturn Around a Bright G Star
- [27] L Wang & **F Dai**, 2018, *The Astrophysical Journal* 860, 175, [ADS](#)
Evaporation of Low-mass Planet Atmospheres: Multidimensional Hydrodynamics with Consistent Thermochemistry
- [28] W Zhu, **F Dai**, K Masuda, 2018, *Research Notes of the American Astronomical Society*, 2, 3, [ADS](#)
Kepler-730b is Probably a Hot Jupiter with a Small Companion
- [29] V Van Eylen, **F Dai**, et al., 2018, *MNRAS*, 478, 4, [ADS](#)
HD 89345: a Bright Oscillating Star Hosting a Transiting Warm Saturn-sized Planet Observed by K2
- [30] O Barragan, D Gandolfi, **F Dai**, et al., 2018, *Astronomy & Astrophysics* 612, A95, [ADS](#)
K2-141 b-A 5-M_⊕ Super-Earth Transiting a K7 V Star Every 6.7 h
- [31] T Hirano, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 127, [ADS](#)
Exoplanets around Low-mass Stars Unveiled by K2
- [32] T Hirano, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 124, [ADS](#)
K2-155: A Bright Metal-poor M Dwarf with Three Transiting Super-Earths
- [33] JH Livingston, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 115, [ADS](#)
Three Small Planets Transiting a Hyades Star
- [34] P Niraula, S Redfield, **F Dai**, et al., 2017, *The Astronomical Journal* 154 , 266, [ADS](#)
Three Super-Earths Transiting the Nearby Star GJ 9827
- [35] EW Guenther, O Barragan, **F Dai**, et al., 2017, *Astronomy & Astrophysics* 608, A93, [ADS](#)
K2-106, a System Containing a Metal-rich Planet and a Planet of Lower Density
- [36] R Sanchis-Ojeda, JN Winn, **F Dai**, et al., 2015, *The Astrophysical Journal Letters* 812 , L11, [ADS](#)
A Low Stellar Obliquity for WASP-47, a Compact Multiplanet System with a Hot Jupiter and an Ultra-short Period Planet

Other Refereed Publications

- [37] V Zandt, E Petigura, **including F Dai**, et al., 2022, *The Astronomical Journal*, 161, 1, [ADS](#)
TESS-Keck Survey XIV: 2 giant exoplanets from the Distant Giants Survey
- [38] J Spake, A Oklopi, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, in press, [ADS](#)
Non-detection of He I in the atmosphere of GJ1214b with Keck/NIRSPEC, at a time of minimal telluric contamination
- [39] M Rice, S Wang, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 104, [ADS](#)
A Tendency Toward Alignment in Single-star Warm-Jupiter Systems
- [40] L Rosenthal, H Knutson, **including F Dai**, et al., 2022, *The Astrophysical Journal Supplement Series*, 262, 1, [ADS](#)
The California Legacy Survey III. On The Shoulders of (Some) Giants: The Relationship between Inner Small Planets and Outer Massive Planets
- [41] M MacDougall, E Petigura, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 3, [ADS](#)
The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-Mass Outer Companion around TOI-1272
- [42] C Persson, G Iskra, **including F Dai**, et al., 2022, *Astronomy & Astrophysics*, in press, [ADS](#)

- TOI-2196 b: Rare planet in the hot Neptune desert transiting a G-type star*
- [43] S Yee, J Winn, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 2, [ADS](#)
The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets
- [44] W Zhu, K Bernhard, **F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 933, 1, [ADS](#)
Two Candidate KH 15D-like Systems from the Zwicky Transient Facility
- [45] E Turtelboom, L Weiss, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 933, 1, [ADS](#)
The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246
- [46] J Christiansen, S Bhure, **including F Dai**, et al., 2022, *The Astronomical Journal*, 163, 6, [ADS](#)
Scaling K2. V. Statistical Validation of 60 New Exoplanets From K2 Campaigns 2-18
- [47] M Johnson, T David, **including F Dai**, et al., 2022, *The Astronomical Journal*, 163, 6, [ADS](#)
An Aligned Orbit for the Young Planet V1298 Tau b
- [48] L Serrano, D Gandolfi, **including F Dai**, et al., 2022, *Nature Astronomy*, 6, 736-750, [ADS](#)
A low-eccentricity migration pathway for a 13-h-period Earth analogue in a four-planet system
- [49] S Vissapragada, H Knutson, **including F Dai**, et al., 2022, *The Astronomical Journal*, in press, [ADS](#)
The Upper Edge of the Neptune Desert Is Stable Against Photoevaporation
- [50] O Barragan, D Armstrong, **including F Dai**, et al., 2022, *MNRAS*, 514, 2, [ADS](#)
The young HD 73583 (TOI-560) planetary system: two 10- M_{\oplus} mini-Neptunes transiting a 500-Myr-old, bright, and active K dwarf
- [51] S Grunblatt, N Saunders, **including F Dai**, et al., 2022, *The Astronomical Journal*, 163, 3, [ADS](#)
TESS Giants Transiting Giants. II. The Hottest Jupiters Orbiting Evolved Stars
- [52] S Vissapragada, H Knutson, **including F Dai**, et al., 2022, *The Astrophysical Journal*, 927, 1, [ADS](#)
The Maximum Mass-loss Efficiency for a Photoionization-driven Isothermal Parker Wind
- [53] A Munazza, J Kirk, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 927, 1, [ADS](#)
The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System
- [54] A Munazza, J Kirk, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 927, 1, [ADS](#)
The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System
- [55] K Lam, S Csizmadia, **including F Dai**, et al., 2022, *Science*, 374, 6572, [ADS](#)
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- [56] M MacDougall, E Petigura, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 6, [ADS](#)
The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166
- [57] N Scarsdale, J Murphy, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 5, [ADS](#)
TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935
- [58] M Rice, S Wang, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 5, [ADS](#)
SOLES I: The Spin-Orbit Alignment of K2-140 b
- [59] X Wang, M Rice, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 926, 2, [ADS](#)
The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a nearby Warm Jupiter Companion, from NEID and HIRES
- [60] N Heidari ; I Boisse, **including F Dai**, et al., 2021, *Astronomy & Astrophysics*, Volume 658, 176, [ADS](#)
HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star
- [61] M Kosiarek, D Berardo, **including F Dai**, et al., 2021, *The Astronomical Journal*, 161, 1, [ADS](#)
Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827
- [62] R Luque; L Serrano, **including F Dai**, et al., 2021, *Astronomy & Astrophysics*, 645, [ADS](#)
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- [63] P Kimberly; S Vissapragada, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 909, 1, L10, [ADS](#)
Metastable Helium Reveals an Extended Atmosphere for the Gas Giant HAT-P-18b
- [64] S Wang, JN Winn, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 2, [ADS](#)
The Aligned Orbit of the Eccentric Warm Jupiter K2-232b
- [65] J Lubin, J Van Zandt, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 2, [ADS](#)

TESS-Keck Survey IX: Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian

- [66] S Vissapragada, G Stefansson, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 5, [ADS](#)
A Search for Planetary Metastable Helium Absorption in the V1298 Tau System
- [67] V Van Eylen, N Astudillo-Defru, **including F Dai**, et al., 2021, *MNRAS*, 507, 2, [ADS](#)
Masses and Compositions of three Small Planets Orbiting the Nearby M dwarf L231-32 and the M dwarf Radius Valley
- [68] A Osborn, D Armstrong, **including F Dai**, et al., 2021, *MNRAS*, 507, 2, [ADS](#)
TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet
- [69] A Chontos, J Murphy, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 6, [ADS](#)
The TESS-Keck Survey: Science Goals and Target Selection
- [70] J G Winters, R Cloutier, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 4, [ADS](#)
A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds
- [71] J de Leon, J Livingston, **including F Dai**, et al., 2021, *MNRAS*, 508, 1, [ADS](#)
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- [72] M A Limbach, J Vos, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 918, 2, [ADS](#)
On the Detection of Exomoons Transiting Isolated Planetary-Mass Objects
- [73] T Hirano, E Gaidos, **including F Dai**, et al., 2020, *The Astrophysical Journal Letters*, 890, 2, [ADS](#)
Evidence for Spin-Orbit Alignment in the TRAPPIST-1 System
- [74] L Nielsen, D Gandolfi, **including F Dai**, et al., 2020, *MNRAS*, 492, 4, [ADS](#)
Mass Determinations of the three Mini-Neptunes Transiting TOI-125
- [75] K Lam, Kristine, J Korth, **including F Dai**, et al., 2020, *The Astronomical Journal*, 159, 3, [ADS](#)
It Takes Two Planets in Resonance to Tango around K2-146
- [76] J Subjak, R Sharma, **including F Dai**, et al., 2020, *The Astronomical Journal*, 159, 4, [ADS](#)
TOI-503: The First Known Brown-dwarf Am-star Binary from the TESS Mission
- [77] D Hidalgo, E Palle, **including F Dai**, et al., 2020, *Astronomy & Astrophysics*, 636, 13, [ADS](#)
Three Planets Transiting the Evolved Star EPIC 249893012: a Hot Super-Earth and Two Warm Sub-Neptunes
- [78] Y Chachan, D Jontof-Hutter, **including F Dai**, et al., 2020, *The Astronomical Journal*, 160, 5, [ADS](#)
A Featureless Infrared Transmission Spectrum for the Super-puff Planet Kepler-79d
- [79] I Carleo, D Gandolfi, **including F Dai**, et al., 2020, *The Astronomical Journal*, 160, 3, [ADS](#)
The Multiplanet System TOI-421
- [80] M Fridlund, J Livingston, **including F Dai**, et al., 2020, *MNRAS*, 498, 3, [ADS](#)
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- [81] B-O Demory, F Pozuelos, **including F Dai**, et al., 2020, *Astronomy & Astrophysics*, 642, 21, [ADS](#)
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- [82] G Nowak, E Palle, **including F Dai**, et al., 2020, *MNRAS*, 497, 4, [ADS](#)
K2-280 b - a Low Density Warm Sub-Saturn Around a Mildly Evolved Star
- [83] M Esposito, D Armstrong, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 11 [ADS](#)
HD 219666 b: a Hot-Neptune from TESS Sector 1
- [84] J Korth, Sz Csizmadia, ..., **F Dai**, et al., 2019, *MNRAS*, 482, 2, [ADS](#)
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- [85] E Palle, G Nowak, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 10, [ADS](#)
Detection and Doppler monitoring of K2-285 (EPIC 246471491), a System of four Transiting Planets Smaller than Neptune
- [86] A Smith, Sz Csizmadia, ..., **F Dai**, et al., 2019, *Acta Astronomica*, 69, 2, [ADS](#)
K2-295 b and K2-237 b: Two Transiting Hot Jupiters
- [87] R Luque, G Nowak, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 9, [ADS](#)
Detection and Characterization of an Ultra-dense sub-Neptunian Planet Orbiting the Sun-like Star K2-292
- [88] S Kamiaka, O Benomar, **including F Dai**, et al., 2019, *The Astronomical Journal*, 157, 4, [ADS](#)
The Misaligned Orbit of the Earth-sized Planet Kepler-408b
- [89] M Hjorth, A Justesen, **including F Dai**, et al., 2019, *MNRAS*, 484, 3, [ADS](#)
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- [90] D Gandolfi, L Fossati, **including F Dai**, et al., 2019, The Astrophysical Journal Letters, 876, 2, [ADS](#)
The Transiting Multi-planet System HD15337: Two Nearly Equal-mass Planets Straddling the Radius Gap
- [91] L Bouma, JN Winn, **including F Dai**, et al., 2019, The Astronomical Journal, 157, 6, [ADS](#)
WASP-4b Arrived Early for the TESS Mission
- [92] Z Zhan, M Gunther, **including F Dai**, et al., 2019, The Astrophysical Journal, 876, 2, [ADS](#)
Complex Rotational Modulation of Rapidly Rotating M Stars Observed with TESS
- [93] C Persson, Sz Csizmadia, **including F Dai**, et al., 2019, Astronomy & Astrophysics, 628, 14, [ADS](#)
Greening of the Brown Dwarf Desert. EPIC 212036875 b – a 51 M_J object in a 5 day orbit around an F7 V star
- [94] S Rappaport, A Vanderburg, **including F Dai**, et al., 2019, MNRAS, 488, 2, [ADS](#)
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- [95] A Santerne, L Malavolta, **including F Dai**, et al., 2019, Submitted to Nature Astronomy, [ADS](#)
An Extremely Low-density and Temperate Giant Exoplanet
- [96] E Palle, G Nowak, R Luque, D Hidalgo, O Barragan, J Prieto-Arranz, **including F Dai**, et al., 2018, Astronomy & Astrophysics, 623, 41, [ADS](#)
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- [97] CM Persson, M Fridlund, O Barragan, **F Dai**, et al., 2018, Astronomy & Astrophysics, 618, 16, [ADS](#)
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- [98] JK Teske, S Wang, A Wolfgang, **F Dai**, et al., 2018, The Astronomical Journal 155 , 148, [ADS](#)
Magellan/PFS Radial Velocities of GJ 9827, a Late K dwarf at 30 pc with Three Transiting Super-Earths
- [99] J Prieto-Arranz, E Palle, ... **F Dai**, et al., 2018, Astronomy & Astrophysics, 618, 116, [ADS](#)
Mass Determination of the 1: 3: 5 Near-resonant Planets Transiting GJ 9827 (K2-135)
- [100] JN Winn, EA Petigura, **including F Dai**, et al., 2017, The Astronomical Journal 154 , 270, [ADS](#)
Constraints on the Obliquities of Kepler Planet-hosting Stars
- [101] D Gandolfi, O Barragn, **including F Dai**, et al., 2017, The Astronomical Journal 154 , 123, [ADS](#)
The Transiting Multi-planet System HD 3167: A Super-Earth and a Mini-Neptune
- [102] A Smith, J Cabrera, **including F Dai**, et al., 2017, MNRAS, 474, 5523, [ADS](#)
K2-137 b: an Earth-sized Planet in a 4.3-h Orbit Around an M-dwarf
- [103] KC Patra, JN Winn, **including F Dai**, 2017, The Astronomical Journal 154 , 4, [ADS](#)
The Apparently Decaying Orbit of WASP-12b
- [104] G Nowak, E Palle, **including F Dai**, et al., 2017, The Astronomical Journal 153 , 131, [ADS](#)
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- [105] N Narita, T Hirano, **including F Dai**, et al., 2017, Publications of the Astronomical Society of Japan 69 , 29, [ADS](#)
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- [106] V Van Eylen, S Albrecht, **including F Dai**, et al., 2016, The Astronomical Journal 152, 143, [ADS](#)
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- [108] V Van Eylen, G Nowak, **including F Dai**, et al., 2016, The Astrophysical Journal 820, 56, [ADS](#)
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- [109] T Hirano, A Fukui, **including F Dai**, et al., 2016, The Astrophysical Journal 820 , 41, [ADS](#)
The K2-ESPRINT Project III: A Close-in Super-Earth around a Metal-rich Mid-M Dwarf
- [110] R Sanchis-Ojeda, S Rappaport, **including F Dai**, et al., 2015, The Astrophysical Journal 812 , 112, [ADS](#)
The K2-ESPRINT Project. I. Discovery of the Disintegrating Rocky Planet K2-22b with a Cometary Head and Leading Tail
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