

# Publication List of Tianjun Gan

12 as the first/second author, \* = student co-supervised

ORCID: [0000-0002-4503-9705](https://orcid.org/0000-0002-4503-9705)

Leading Author: [ADS Library](#)

1. **Gan, T.** & Theissen, C., et al., *Metallicity Dependence of Giant Planets around M Dwarfs*, 2025, [ApJS](#), 276, 47
2. **Gan, T.** & Wang, X., et al., *The Aligned Orbit of a Hot Jupiter around the M Dwarf TOI-4201*, 2024, [ApJL](#), 969, 24
3. **Gan, T.** & Guo, K., et al., *Relative Occurrence Rate between Hot and Cold Jupiters as an Indicator to Probe Planet Migration*, 2024, [ApJ](#), 967, 74
4. **Gan, T.** *Gaia Astrometry and MIKE+PFS Doppler Data Joint Analysis Reveals that HD 175167b is a Massive Cold Jupiter*, 2023, [RNAAS](#), 7, 226
5. **Gan, T.** & Cadieux, C., et al., *A massive hot Jupiter orbiting a metal-rich early-M star discovered in the TESS full frame images*, 2023, [AJ](#), 166, 165
6. Lin, Z. (\*), **Gan T.**, et al., *One high mass brown dwarf and two objects near the hydrogen burning mass limit*, 2023, [MNRAS](#), 523, 6162
7. **Gan, T.** & Wang, X. S., et al., *Occurrence rate of hot Jupiters around early-type M dwarfs based on TESS Primary Mission*, 2023, [AJ](#), 165, 17
8. **Gan, T.** & Soubkiou, A., et al., *TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136*, 2022, [MNRAS](#), 514, 4120
9. **Gan, T.** & Lin, Z. (\*), et al., *TOI-530b: A giant planet transiting an M dwarf detected by TESS*, 2022, [MNRAS](#), 511, 83
10. **Gan, T.** & Bedell, M., et al., *HD 183579b: a warm sub-Neptune transiting a solar twin detected by TESS*, 2021, [MNRAS](#), 507, 2220
11. **Gan, T.** & Wang, X. S., et al., *Revisiting the HD 21749 planetary system with stellar activity modelling*, 2021, [MNRAS](#), 501, 6042
12. **Gan, T.** & Shporer, A., et al., *LHS 1815b: The First Thick-disk Planet Detected by TESS*, 2020, [AJ](#), 159, 160

Contributed Work: [ADS Library](#)

1. Sun, Q., Wang, X. S., **Gan T.**, et al., *Planets Around Solar Twins/Analogues (PASTA) I.: High precision stellar chemical abundance for 17 planet-hosting stars and the condensation temperature trend*, 2024, [ApJ](#), 980, 179
2. Yang, H., Zang, W., **Gan T.**, et al., *How Rare Are TESS Free-floating Planets*, 2024, [ApJL](#), 972, 12
3. Hua, X. (\*) & Wang, X. S., Teske, Johanna K., **Gan T.**, et al., *A Transiting Super-Earth in the Radius Valley and an Outer Planet Candidate Around HD 307842*, 2023, [AJ](#), 166, 32
4. Sun, Q., Wang, X. S., **Gan T.**, et al., *A Search for Exoplanets in Open Clusters and Young Associations based on TESS Objects of Interest*, 2022, [RAA](#), 22, 7
5. Teske, J., Wang, X. S., Wolfgang, A., **Gan, T.**, et al., *The Magellan-TESS Survey. I. Survey Description and Midsurvey Results*, 2021, [ApJS](#), 256, 33

6. Hord, Benjamin J., et al. (incl. **Gan, T.**), *Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST*, [submitted to AJ](#)
7. Hawthorn, Faith, et al. (incl. **Gan, T.**), *TOI-908: a planet at the edge of the Neptune desert transiting a G-type star*, [2023, MNRAS, 524, 3877](#)
8. Ghachoui, M., et al. (incl. **Gan, T.**), *TESS discovery of a super-Earth orbiting the M-dwarf star TOI-1680*, [2023, A&A, 677, 31](#)
9. Murgas, F., et al. (incl. **Gan, T.**), *Two super-Earths at the edge of the habitable zone of the nearby M dwarf TOI-2095*, [accepted to A&A](#)
10. Dransfield, Georgina, et al. (incl. **Gan, T.**), *A 1.55  $R_{\oplus}$  habitable-zone planet hosted by TOI-715, an M4 star near the ecliptic South Pole*, [accepted to MNRAS](#)
11. Oddo, Dominic, et al. (incl. **Gan, T.**), *Characterization of a Set of Small Planets with TESS and CHEOPS and an Analysis of Photometric Performance*, [2023, AJ, 165, 134](#)
12. Tey, Evan, et al. (incl. **Gan, T.**), *TESS Discovery of Twin Planets near 2:1 Resonance around Early M Dwarf TOI 4342*, [2023, AJ, 165, 93](#)
13. Essack, Zahra, et al. (incl. **Gan, T.**), *TOI-1075 b: A Dense, Massive, Ultra-short-period Hot Super-Earth Straddling the Radius Gap*, [2023, AJ, 165, 47](#)
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15. de Leon, Jerome P., et al. (incl. **Gan, T.**), *A sub-Neptune transiting the young field star HD 18599 at 40 pc*, [2023, MNRAS, 522, 750](#)
16. Almenara, J. M., et al. (incl. **Gan, T.**), *GJ 3090 b: one of the most favourable mini-Neptune for atmospheric characterisation*, [2022, A&A, 665, 91](#)
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20. Zhu W., et al. (incl. **Gan, T.**), *Two Candidate KH 15D-like Systems from the Zwicky Transient Facility*, [2022, AJ, 933, 21](#)
21. Ge J., et al. (incl. **Gan, T.**), *ET White Paper: To Find the First Earth 2.0*, [2022, eprint arXiv:2206.06693](#)
22. Turtelboom, Emma V., et al. (incl. **Gan, T.**), *The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246*, [2022, AJ, 163, 293](#)
23. Rodriguez, Joseph E., et al. (incl. **Gan, T.**), *Another Shipment of Six Short-Period Giant Planets from TESS*, [2023, MNRAS, 521, 2765](#)
24. Christian, Sam, et al. (incl. **Gan, T.**), *A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions*, [2022, AJ, 163, 207](#)
25. Knudstrup, E., et al. (incl. **Gan, T.**), *Confirmation and characterisation of three giant planets detected by TESS from the FIES/NOT and Tull/McDonald spectrographs*, [2022, accepted to A&A](#)
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30. Kemmer, J., et al. (incl. **Gan, T.**), *Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b*, 2022, [A&A](#), 659, 17
31. Giacalone, Steven, et al. (incl. **Gan, T.**), *Validation of 13 Hot and Potentially Terrestrial TESS Planets*, 2022, [AJ](#), 163, 99
32. Wittenmyer, Robert A., et al. (incl. **Gan, T.**), *TOI-1842b: A Transiting Warm Saturn Undergoing Reinflation around an Evolving Subgiant*, 2022, [AJ](#), 163, 82
33. Wong, Ian, et al. (incl. **Gan, T.**), *TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit*, 2021, [AJ](#), 162, 256
34. Boley K., et al. (incl. **Gan, T.**), *Searching For Transiting Planets Around Halo Stars. II. Constraining the Occurrence Rate of Hot Jupiters*, 2021, [AJ](#), 162, 85
35. Wells R., et al. (including **Gan, T.**), *A large sub-Neptune transiting the thick-disk M4 V TOI-2406*, 2021, [A&A](#), 653, 97
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38. Dong J., et al. (incl. **Gan, T.**), *Warm Jupiters in TESS Full-frame Images: A Catalog and Observed Eccentricity Distribution for Year 1*, 2021, [ApJS](#), 255, 6
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41. Rodriguez J., et al. (incl. **Gan, T.**), *TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images*, 2021, [AJ](#), 161, 194
42. Dawson, Rebekah I., et al. (incl. **Gan, T.**), *Precise Transit and Radial-velocity Characterization of a Resonant Pair: The Warm Jupiter TOI-216c and Eccentric Warm Neptune TOI-216b*, 2021, [AJ](#), 161, 161
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45. Burt, Jennifer A., et al. (including **Gan, T.**), *TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert*, 2020, [AJ](#), 160, 153
46. Kemmer, J., et al. (including **Gan, T.**), *Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488)*, 2020, [A&A](#), 642, 236
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  50. Nielsen, L. D., et al. (incl. **Gan, T.**), *Three short-period Jupiters from TESS. HIP 65Ab, TOI-157b, and TOI-169b*, 2020, *A&A*, 639, 76
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  59. Vanderspek R., et al. (incl. **Gan, T.**), *TESS Discovery of an Ultra-short-period Planet around the Nearby M Dwarf LHS 3844*, 2019, *ApJ*, 871, 24