

# Publication List of Tianjun Gan

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

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Leading Author: [ADS Library](#)

1. **Gan, T.** & Cadieux, C., et al., *A New Brown Dwarf Orbiting an M star and An Investigation on the Eccentricity Distribution of Transiting Long-Period Brown Dwarfs*, 2025, [ApJL](#), in press
2. **Gan, T.** & Theissen, C., et al., *Metallicity Dependence of Giant Planets around M Dwarfs*, 2025, [ApJS](#), 276, 47
3. **Gan, T.** & Wang, X., et al., *The Aligned Orbit of a Hot Jupiter around the M Dwarf TOI-4201*, 2024, [ApJL](#), 969, 24
4. **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
5. **Gan, T.** *Gaia Astrometry and MIKE+PFS Doppler Data Joint Analysis Reveals that HD 175167b is a Massive Cold Jupiter*, 2023, [RNAAS](#), 7, 226
6. **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
7. Lin, Z. (\*), **Gan T.**, et al., *One high mass brown dwarf and two objects near the hydrogen burning mass limit*, 2023, [MNRAS](#), 523, 6162
8. **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
9. **Gan, T.** & Soubkiou, A., et al., *TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136*, 2022, [MNRAS](#), 514, 4120
10. **Gan, T.** & Lin, Z. (\*), et al., *TOI-530b: A giant planet transiting an M dwarf detected by TESS*, 2022, [MNRAS](#), 511, 83
11. **Gan, T.** & Bedell, M., et al., *HD 183579b: a warm sub-Neptune transiting a solar twin detected by TESS*, 2021, [MNRAS](#), 507, 2220
12. **Gan, T.** & Wang, X. S., et al., *Revisiting the HD 21749 planetary system with stellar activity modelling*, 2021, [MNRAS](#), 501, 6042
13. **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](#)
14. Knudstrup, Emil, et al. (incl. **Gan, T.**), *Confirmation and characterisation of three giant planets detected by TESS from the FIES/NOT and Tull/McDonald spectrographs*, 2022, [A&A, 667, 22](#)
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](#)
17. Persson, Carina M., et al. (incl. **Gan, T.**), *TOI-2196 b: Rare planet in the hot Neptune desert transiting a G-type star*, 2022, [accepted to A&A](#)
18. Yee, Samuel W., et al. (incl. **Gan, T.**), *The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets*, 2022, [AJ, 164, 70](#)
19. Psaridi, Angelica, et al. (incl. **Gan, T.**), *Three new brown dwarfs and a massive hot Jupiter revealed by TESS around early-type stars*, 2022, [A&A, 664, 94](#)
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](#)
26. Mann, Andrew W., et al. (incl. **Gan, T.**), *TESS Hunt for Young and Maturing Exoplanets (THYME). VI. An 11 Myr Giant Planet Transiting a Very-low-mass Star in Lower Centaurus Crux*, 2022, [AJ](#), 163, 156
  27. Wilson, Thomas G., et al. (incl. **Gan, T.**), *A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS*, 2022, [MNRAS](#), 511, 1043
  28. Kaye, Laurel, et al. (incl. **Gan, T.**), *Transit timings variations in the three-planet system: TOI-270*, 2022, [MNRAS](#), 510, 5464
  29. Jordán, Andrés, et al. (incl. **Gan, T.**), *HATS-74Ab, HATS-75b, HATS-76b, and HATS-77b: Four Transiting Giant Planets Around K and M Dwarfs*, 2022, [AJ](#), 163, 125
  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 Re-inflation 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
  36. Georgieva I., et al. (including **Gan, T.**), *Hot planets around cool stars - two short-period mini-Neptunes transiting the late K-dwarf TOI-1260*, 2021, [MNRAS](#), 505, 4084
  37. Hedges C., et al. (incl. **Gan, T.**), *TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up*, 2021, [AJ](#), 162, 54
  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
  39. Bryant E., et al. (including **Gan, T.**), *A transit timing variation observed for the long-period extremely low-density exoplanet HIP 41378 f*, 2021, [MNRAS](#), 504, 45
  40. Cointepas M., et al. (including **Gan, T.**), *TOI-269 b: an eccentric sub-Neptune transiting a M2 dwarf revisited with ExTrA*, 2021, [A&A](#), 650, 145
  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
  43. Waalkes, William C., et al. (incl. **Gan, T.**), *TOI 122b and TOI 237b: Two Small Warm Planets Orbiting Inactive M Dwarfs Found by TESS*, 2021, [AJ](#), 161, 13
  44. Parviainen H., et al. (including **Gan, T.**), *TOI-519 b: A short-period substellar object around an M dwarf validated using multicolour photometry and phase curve analysis*, 2021, [A&A](#), 645, 16
  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
  47. Rodriguez, Joseph E., et al. (including **Gan, T.**), *The First Habitable-zone Earth-sized Planet from TESS. II. Spitzer Confirms TOI-700 d*, 2020, [AJ](#), 160, 117
  48. Gilbert, Emily A., et al. (including **Gan, T.**), *The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System*, 2020, [AJ](#), 160, 116
  49. Armstrong D., et al. (incl. **Gan, T.**), *A remnant planetary core in the hot-Neptune desert*, 2020, [Nature](#), 583, 39
  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
  51. Šubjak, Ján, et al. (incl. **Gan, T.**), *TOI-503: The First Known Brown-dwarf Am-star Binary from the TESS Mission*, 2020, [AJ](#), 159, 151
  52. Astudillo-Defru, N., et al. (incl. **Gan, T.**), *A hot terrestrial planet orbiting the bright M dwarf L 168-9 unveiled by TESS*, 2020, [A&A](#), 636, 58
  53. Díaz, Matías R., et al. (incl. **Gan, T.**), *TOI-132 b: A short-period planet in the Neptune desert transiting a  $V = 11.3$  G-type star*, 2020, [MNRAS](#), 493, 973
  54. Shporer, Avi, et al. (incl. **Gan, T.**), *GJ 1252 b: A  $1.2 R_{\oplus}$  Planet Transiting an M3 Dwarf at 20.4 pc*, 2020, [ApJL](#), 890, 7
  55. Zhou, G., et al. (incl. **Gan, T.**), *Two New HATNet Hot Jupiters around A Stars and the First Glimpse at the Occurrence Rate of Hot Jupiters from TESS*, 2019, [AJ](#), 158, 141
  56. Dawson, Rebekah I., et al. (incl. **Gan, T.**), *TOI-216b and TOI-216 c: Two Warm, Large Exoplanets in or Slightly Wide of the 2:1 Orbital Resonance*, 2019, [AJ](#), 158, 65
  57. Günther M., et al. (incl. **Gan, T.**), *A super-Earth and two sub-Neptunes transiting the nearby and quiet M dwarf TOI-270*, 2019, [Nature](#), 3, 1099
  58. Kostov, Veselin B., et al. (incl. **Gan, T.**), *The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf*, 2019, [AJ](#), 158, 32
  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