

Publication List of Tianjun Gan

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

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Leading Author: [ADS Library](#)

1. **Gan, T.** & Orell-Miquel, J. et al., *Revisiting the atmosphere of HAT-P-70b with CARMENES high-resolution transmission spectroscopy*, [submitted to AAS](#)
2. **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, 988, 78](#)
3. **Gan, T.** & Theissen, C., et al., *Metallicity Dependence of Giant Planets around M Dwarfs*, [2025, ApJS, 276, 47](#)
4. **Gan, T.** & Wang, X., et al., *The Aligned Orbit of a Hot Jupiter around the M Dwarf TOI-4201*, [2024, ApJL, 969, 24](#)
5. **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](#)
6. **Gan, T.** *Gaia Astrometry and MIKE+PFS Doppler Data Joint Analysis Reveals that HD 175167b is a Massive Cold Jupiter*, [2023, RNAAS, 7, 226](#)
7. **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](#)
8. Lin, Z. (*), **Gan T.**, et al., *One high mass brown dwarf and two objects near the hydrogen burning mass limit*, [2023, MNRAS, 523, 6162](#)
9. **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](#)
10. **Gan, T.** & Soubkiou, A., et al., *TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136*, [2022, MNRAS, 514, 4120](#)
11. **Gan, T.** & Lin, Z. (*), et al., *TOI-530b: A giant planet transiting an M dwarf detected by TESS*, [2022, MNRAS, 511, 83](#)
12. **Gan, T.** & Bedell, M., et al., *HD 183579b: a warm sub-Neptune transiting a solar twin detected by TESS*, [2021, MNRAS, 507, 2220](#)
13. **Gan, T.** & Wang, X. S., et al., *Revisiting the HD 21749 planetary system with stellar activity modelling*, [2021, MNRAS, 501, 6042](#)
14. **Gan, T.** & Shporer, A., et al., *LHS 1815b: The First Thick-disk Planet Detected by TESS*, [2020, AJ, 159, 160](#)

Contributed Work: [ADS Library](#)

Major Contributions:

1. Zhai, R., Lee, M. H., **Gan T.**, Mao, S., et al., *Dynamical Instability of Multiplanet Systems and Free-floating Planets*, [2025, ApJ, in press](#)
2. 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](#)

3. Yang, H., Zang, W., **Gan T.**, et al., *How Rare Are TESS Free-floating Planets*, 2024, [ApJL](#), 972, 12
4. 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
5. 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
6. 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

Others:

1. Hord, Benjamin J., et al. (incl. **Gan, T.**), *Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST*, 2024, [AJ](#), 167, 233
2. 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
3. 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
4. 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](#)
5. 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](#)
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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](#)
13. Yee, Samuel W., et al. (incl. **Gan, T.**), *The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets*, 2022, [AJ](#), 164, 70
14. 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
15. Zhu W., et al. (incl. **Gan, T.**), *Two Candidate KH 15D-like Systems from the Zwicky Transient Facility*, 2022, [AJ](#), 933, 21
16. Ge J., et al. (incl. **Gan, T.**), *ET White Paper: To Find the First Earth 2.0*, 2022, [eprint arXiv:2206.06693](#)
17. 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

18. Rodriguez, Joseph E., et al. (incl. **Gan, T.**), *Another Shipment of Six Short-Period Giant Planets from TESS*, 2023, *MNRAS*, 521, 2765
19. 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
20. 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](#)
21. 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
22. 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
23. Kaye, Laurel, et al. (incl. **Gan, T.**), *Transit timings variations in the three-planet system: TOI-270*, 2022, *MNRAS*, 510, 5464
24. 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
25. 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
26. Giacalone, Steven, et al. (incl. **Gan, T.**), *Validation of 13 Hot and Potentially Terrestrial TESS Planets*, 2022, *AJ*, 163, 99
27. 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
28. Wong, Ian, et al. (incl. **Gan, T.**), *TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit*, 2021, *AJ*, 162, 256
29. 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
30. Wells R., et al. (including **Gan, T.**), *A large sub-Neptune transiting the thick-disk M4 V TOI-2406*, 2021, *A&A*, 653, 97
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. 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
 40. 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
 41. 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
 42. 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
 43. 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
 44. Armstrong D., et al. (incl. **Gan, T.**), *A remnant planetary core in the hot-Neptune desert*, 2020, [Nature](#), 583, 39
 45. 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
 46. 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
 47. 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
 48. 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
 49. 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
 50. 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
 51. 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
 52. 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
 53. 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
 54. 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