

Refereed first-author publications

20. [On the first \$\delta\$ Sct-roAp hybrid pulsator and the stability of p and g modes in chemically peculiar A/F stars](#)
Murphy, Simon J. et al. (2020) MNRAS 498, 4272.
19. [The discovery of lambda Bootis stars - the Southern Survey II](#)
Murphy, Simon J. et al. (2020) MNRAS 499, 2701.
18. [The pulsation properties of \$\lambda\$ bootis stars I. the southern TESS sample](#)
Murphy, S. J. et al. (2020) MNRAS 495, 1888. Cited: 2
17. [Finding binaries from phase modulation of pulsating stars with Kepler - VI. Orbits for 10 new binaries with mischaracterized primaries](#)
Murphy, Simon J. et al. (2020) MNRAS 493, 5382.
16. [Gaia-derived luminosities of Kepler A/F stars and the pulsator fraction across the \$\delta\$ Scuti instability strip](#)
Murphy, Simon J. et al. (2019) MNRAS 485, 2380. Cited: 37
15. [Finding binaries from phase modulation of pulsating stars with Kepler: V. Orbital parameters, with eccentricity and mass-ratio distributions of 341 new binaries](#)
Murphy, Simon J. et al. (2018) MNRAS 474, 4322. Cited: 49
14. [Gaia's view of the \$\lambda\$ Boo star puzzle](#)
Murphy, Simon J. & Paunzen, Ernst (2017) MNRAS 466, 546. Cited: 21
13. [Finding binaries from phase modulation of pulsating stars with Kepler - IV. Detection limits and radial velocity verification](#)
Murphy, Simon J. et al. (2016) MNRAS 461, 4215. Cited: 19
12. [A Planet in an 840 Day Orbit around a Kepler Main-sequence A Star Found from Phase Modulation of Its Pulsations](#)
Murphy, Simon J. et al. (2016) ApJ 827, L17. Cited: 29
11. [Near-uniform internal rotation of the main-sequence \$\gamma\$ Doradus pulsator KIC 7661054](#)
Murphy, Simon J. et al. (2016) MNRAS 459, 1201. Cited: 56
10. [The potential for super-Nyquist asteroseismology with TESS](#)
Murphy, Simon J. (2015) MNRAS 453, 2569. Cited: 7
9. [An Evaluation of the Membership Probability of 212 \$\lambda\$ Boo Stars. I. A Catalogue](#)
Murphy, Simon J. et al. (2015) PASA 32, e036. Cited: 26
8. [Deriving the orbital properties of pulsators in binary systems through their light arrival time delays](#)
Murphy, Simon J. & Shibahashi, Hiromoto (2015) MNRAS 450, 4475. Cited: 30
7. [A search for non-pulsating, chemically normal stars in the \$\delta\$ Scuti instability strip using Kepler data](#)
Murphy, Simon J. et al. (2015) MNRAS 447, 3948. Cited: 23
6. [Finding binaries among Kepler pulsating stars from phase modulation of their pulsations](#)
Murphy, Simon J. et al. (2014) MNRAS 441, 2515. Cited: 61
5. [Asteroseismology of KIC 11754974: a high-amplitude SX Phe pulsator in a 343-d binary system](#)
Murphy, S. J. et al. (2013) MNRAS 432, 2284. Cited: 30
4. [Super-Nyquist asteroseismology with the Kepler Space Telescope](#)
Murphy, Simon J. et al. (2013) MNRAS 430, 2986. Cited: 83
3. [Kepler Fourier concepts: The performance of the Kepler data pipeline](#)
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2. [Pulsational amplitude growth of the star KIC 3429637 \(HD 178875\) in the context of Am and \$\rho\$ Pup stars](#)
Murphy, Simon J. et al. (2012) MNRAS 427, 1418. Cited: 21
1. [An examination of some characteristics of Kepler short- and long-cadence data](#)
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Refereed co-authored publications

- 54.** [Tango of celestial dancers: A sample of detached eclipsing binary systems containing g-mode pulsating components. A case study of KIC9850387](#)
Sekaran, S. et al. (2020) A&A 643, A162.
- 53.** [The effect of tides on near-core rotation: analysis of 35 Kepler \$\gamma\$ Doradus stars in eclipsing and spectroscopic binaries](#)
Li, Gang et al. (2020) MNRAS 497, 4363. Cited: 2
- 52.** [Maelstrom: A Python package for identifying companions to pulsating stars from their light travel time variations](#)
Hey, Daniel et al. (2020) JOSS 5, 2125. Cited: 1
- 51.** [TESS first look at evolved compact pulsators. Known ZZ Ceti stars of the southern ecliptic hemisphere as seen by TESS](#)
Bognár, Zs. et al. (2020) A&A 638, A82. Cited: 3
- 50.** [Forward Modeling the Orbits of Companions to Pulsating Stars from Their Light Travel Time Variations](#)
Hey, Daniel R. et al. (2020) AJ 159, 202. Cited: 4
- 49.** [Very regular high-frequency pulsation modes in young intermediate-mass stars](#)
Bedding, Timothy R. et al. (2020) Natur 581, 147. Cited: 9
- 48.** [Tidally trapped pulsations in a close binary star system discovered by TESS](#)
Handler, G. et al. (2020) NatAs 4, 684. Cited: 8
- 47.** [Gravity-mode period spacings and near-core rotation rates of 611 \$\gamma\$ Doradus stars with Kepler](#)
Li, Gang et al. (2020) MNRAS 491, 3586. Cited: 18
- 46.** [TESS first look at evolved compact pulsators. Discovery and asteroseismic probing of the g-mode hot B subdwarf pulsator EC 21494-7018](#)
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- 45.** [The first view of \$\delta\$ Scuti and \$\gamma\$ Doradus stars with the TESS mission](#)
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- 44.** [KIC 4142768: An Evolved Gamma Doradus/Delta Scuti Hybrid Pulsating Eclipsing Binary with Tidally Excited Oscillations](#)
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- 43.** [Six new rapidly oscillating Ap stars in the Kepler long-cadence data using super-Nyquist asteroseismology](#)
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- 42.** [The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars](#)
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- 41.** [The period-luminosity relation of red supergiants with Gaia DR2](#)
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- 40.** [The period-luminosity relation for \$\delta\$ Scuti stars using Gaia DR2 parallaxes](#)
Ziaali, Elham et al. (2019) MNRAS 486, 4348. Cited: 18
- 39.** [Period spacings of \$\gamma\$ Doradus pulsators in the Kepler field: Rossby and gravity modes in 82 stars](#)
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- 38.** [Spectroscopic confirmation of the binary nature of the hybrid pulsator KIC 5709664 found with the frequency modulation method](#)
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- 37.** [Period spacings of \$\gamma\$ Doradus pulsators in the Kepler field: detection methods and application to 22 slow rotators](#)
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- 36.** [A window into \$\delta\$ Sct stellar interiors: understanding the eclipsing binary system TT Hor](#)
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- 35.** [An astrophysical interpretation of the remarkable g-mode frequency groups of the rapidly rotating](#)

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34. Asteroseismology of 16,000 Kepler Red Giants: Global Oscillation Parameters, Masses, and Radii
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33. Asteroseismology of KIC 7107778: a binary comprising almost identical subgiants
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31. KIC 8164262: a heartbeat star showing tidally induced pulsations with resonant locking
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30. A spectroscopic and photometric investigation of the mercury-manganese star KIC 6128830
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29. Theory and evidence of global Rossby waves in upper main-sequence stars: r-mode oscillations in many Kepler stars
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28. Large amplitude change in spot-induced rotational modulation of the Kepler Ap star KIC 2569073
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27. Beyond the Kepler/K2 bright limit: variability in the seven brightest members of the Pleiades
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26. Spectroscopic and asteroseismic analysis of the remarkable main-sequence A star KIC 11145123
Takada-Hidai, Masahide et al. (2017) MNRAS 470, 4908. Cited: 7

25. Spectroscopic survey of Kepler stars - II. FIES/NOT observations of A- and F-type stars
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24. The Discovery of λ Bootis Stars: The Southern Survey I
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23. Metal-rich SX Phe stars in the Kepler field
Nemec, James M. et al. (2017) MNRAS 466, 1290. Cited: 18

22. Pulsation versus metallicity in Am stars as revealed by LAMOST and WASP
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21. A new asteroseismic diagnostic for internal rotation in γ Doradus stars
Ouazzani, Rhita-Maria et al. (2017) MNRAS 465, 2294. Cited: 63

20. Asteroseismology of 1523 misclassified red giants using Kepler data
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19. KIC 3749404: a heartbeat star with rapid apsidal advance indicative of a tertiary component
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18. The ANU WiFeS SuperNovA Programme (AWSNAP)
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17. Detection of Solar-like Oscillations, Observational Constraints, and Stellar Models for θ Cyg, the Brightest Star Observed By the Kepler Mission
Guzik, J. A. et al. (2016) ApJ 831, 17. Cited: 11

16. HD 24355 observed by the Kepler K2 mission: a rapidly oscillating Ap star pulsating in a distorted quadrupole mode
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15. Binary star detectability in Kepler data from phase modulation of different types of oscillations
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14. Amplitude modulation in δ Sct stars: statistics from an ensemble study of Kepler targets
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12. [KIC 10080943: a binary star with two \$\gamma\$ Doradus/ \$\delta\$ Scuti hybrid pulsators. Analysis of the g modes](#)
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9. [FM stars II: a Fourier view of pulsating binary stars - determining binary orbital parameters photo-metrically for highly eccentric cases](#)
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7. [A unifying explanation of complex frequency spectra of \$\gamma\$ Dor, SPB and Be stars: combination frequen-cies and highly non-sinusoidal light curves](#)
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6. [Asteroseismic measurement of slow, nearly uniform surface-to-core rotation in the main-sequence F star KIC 9244992](#)
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5. [Validation of the frequency modulation technique applied to the pulsating \$\delta\$ Sct- \$\gamma\$ Dor eclipsing binary star KIC 8569819](#)
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4. [The Role of Turbulent Pressure as a Coherent Pulsational Driving Mechanism: The Case of the \$\delta\$ Scuti Star HD 187547](#)
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3. [Asteroseismic measurement of surface-to-core rotation in a main-sequence A star, KIC 11145123](#)
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1. [The Kepler characterization of the variability among A- and F-type stars. I. General overview](#)
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