

# Warrick Ball

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,264  
citations

201385

27  
h-index

223531

46  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1908  
citing authors

#	ARTICLE	IF	CITATIONS
1	CORALIE radial-velocity search for companions around evolved stars (CASCADES). <i>Astronomy and Astrophysics</i> , 2022, 657, A89.	2.1	2
2	A 20 Second Cadence View of Solar-type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Recharacterization of $\epsilon$ Men c. <i>Astronomical Journal</i> , 2022, 163, 79.	1.9	22
3	Modelling stars with Gaussian Process Regression: augmenting stellar model grid. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5597-5610.	1.6	3
4	A probabilistic method for detecting solar-like oscillations using meaningful prior information. <i>Astronomy and Astrophysics</i> , 2022, 663, A51.	2.1	3
5	tomso: TOols for Models of Stars and their Oscillations. <i>Journal of Open Source Software</i> , 2022, 7, 4343.	2.0	0
6	A Novel Analytic Atmospheric $T(\tau, \mu)$ Relation for Stellar Models. <i>Research Notes of the AAS</i> , 2021, 5, 7.	0.3	2
7	PBJam: A Python Package for Automating Asteroseismology of Solar-like Oscillators*. <i>Astronomical Journal</i> , 2021, 161, 62.	1.9	16
8	Asteroseismic Inference of the Central Structure in a Subgiant Star. <i>Astrophysical Journal</i> , 2021, 915, 100.	1.6	9
9	Prospects for Galactic and stellar astrophysics with asteroseismology of giant stars in the $\langle i \rangle$ TESS continuous viewing zones and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1947-1966.	1.6	30
10	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3704-3722.	1.6	33
11	PLATO hare-and-hounds exercise: asteroseismic model fitting of main-sequence solar-like pulsators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5864-5885.	1.6	13
12	Magnetic and Rotational Evolution of $\epsilon$ -CrB from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2021, 921, 122.	1.6	12
13	TESS Asteroseismology of $\hat{\iota}$ Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. <i>Astrophysical Journal</i> , 2021, 922, 229.	1.6	14
14	The TESS light curve of AI Phoenicis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 332-343.	1.6	37
15	Very regular high-frequency pulsation modes in young intermediate-mass stars. <i>Nature</i> , 2020, 581, 147-151.	13.7	69
16	Solar cycle variation of $\hat{\iota}/2$ max in helioseismic data and its implications for asteroseismology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 493, L49-L53.	1.2	9
17	Detection and Characterization of Oscillating Red Giants: First Results from the TESS Satellite. <i>Astrophysical Journal Letters</i> , 2020, 889, L34.	3.0	37
18	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star $\hat{\iota}/2$ Indi. <i>Nature Astronomy</i> , 2020, 4, 382-389.	4.2	46

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19	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2020, 900, 154.	1.6	18
20	TESS asteroseismology of the known planet host star $\kappa^1$ Fornacis. <i>Astronomy and Astrophysics</i> , 2020, 641, A25.	2.1	16
21	Robust asteroseismic properties of the bright planet host HD 38529. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 6084-6093.	1.6	8
22	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. <i>Astrophysical Journal</i> , 2019, 885, 31.	1.6	28
23	Seismic Signatures of Stellar Magnetic Activity—What Can We Expect From TESS?. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	7
24	aims: a new tool for stellar parameter determinations using asteroseismic constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 771-786.	1.6	64
25	The Asteroseismic Target List for Solar-like Oscillators Observed in 2 minute Cadence with the Transiting Exoplanet Survey Satellite. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 12.	3.0	58
26	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	1.9	72
27	Filtering Solar-Like Oscillations for Exoplanet Detection in Radial Velocity Observations. <i>Astronomical Journal</i> , 2019, 157, 163.	1.9	59
28	Determining the Best Method of Calculating the Large Frequency Separation For Stellar Models. <i>Astrophysical Journal</i> , 2019, 879, 33.	1.6	12
29	Modelling Kepler red giants in eclipsing binaries: calibrating the mixing-length parameter with asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 981-998.	1.6	44
30	A Synthetic Sample of Short-cadence Solar-like Oscillators for TESS. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 34.	3.0	15
31	Stellar models with calibrated convection and temperature stratification from 3D hydrodynamics simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 5650-5659.	1.6	37
32	Surface correction of main-sequence solar-like oscillators with the Kepler LEGACY sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4416-4431.	1.6	14
33	Oscillating red giants in eclipsing binary systems: empirical reference value for asteroseismic scaling relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4669-4696.	1.6	36
34	Surface effects on the red giant branch. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4697-4709.	1.6	19
35	Kepler observations of the asteroseismic binary HD 176465. <i>Astronomy and Astrophysics</i> , 2017, 601, A82.	2.1	28
36	Surface-effect corrections for oscillation frequencies of evolved stars. <i>Astronomy and Astrophysics</i> , 2017, 600, A128.	2.1	36

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37	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. I. Oscillation Mode Parameters. <i>Astrophysical Journal</i> , 2017, 835, 172.	1.6	195
38	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. II. Radii, Masses, and Ages. <i>Astrophysical Journal</i> , 2017, 835, 173.	1.6	223
39	Parametrizing the time variation of the $\epsilon$ -surface term <sup>TM</sup> of stellar p-mode frequencies: application to helioseismic data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4777-4788.	1.6	14
40	The Sun in transition? Persistence of near-surface structural changes through Cycle 24. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1935-1942.	1.6	16
41	Model-independent Measurement of Internal Stellar Structure in 16 Cygni A and B. <i>Astrophysical Journal</i> , 2017, 851, 80.	1.6	29
42	The First APOKASC Catalog of Kepler Dwarf and Subgiant Stars. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 23.	3.0	121
43	Limits on radial differential rotation in Sun-like stars from parametric fits to oscillation power spectra. <i>Astronomy and Astrophysics</i> , 2017, 603, A6.	2.1	20
44	MESA meets MURaM. <i>Astronomy and Astrophysics</i> , 2016, 592, A159.	2.1	46
45	FUNDAMENTAL PARAMETERS OF MAIN-SEQUENCE STARS IN AN INSTANT WITH MACHINE LEARNING. <i>Astrophysical Journal</i> , 2016, 830, 31.	1.6	66
46	SpaceInn hare-and-hounds exercise: Estimation of stellar properties using space-based asteroseismic data. <i>Astronomy and Astrophysics</i> , 2016, 592, A14.	2.1	32
47	Main-sequence oscillators as a test of stellar opacities. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 653-660.	0.0	0
48	Constraining differential rotation of Sun-like stars from asteroseismic and starspot rotation periods. <i>Astronomy and Astrophysics</i> , 2015, 582, A10.	2.1	30
49	Asteroseismology of Solar-Type Stars with <i>K2</i> : Detection of Oscillations in C1 Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1038-1044.	1.0	25
50	A new correction of stellar oscillation frequencies for near-surface effects. <i>Astronomy and Astrophysics</i> , 2014, 568, A123.	2.1	154
51	ASTEROSEISMIC FUNDAMENTAL PROPERTIES OF SOLAR-TYPE STARS OBSERVED BY THE NASA <i>KEPLER</i> MISSION. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 1.	3.0	293
52	Grid-based seismic modelling at high and low signal-to-noise ratios. <i>Astronomy and Astrophysics</i> , 2014, 564, A105.	2.1	10
53	Quasi-stars, giants and the Schwarzschild-Chandrasekhar limit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2713-2721.	1.6	21
54	The structure and evolution of quasi-stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2751-2762.	1.6	35