

Dominic Bowman

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,541
citations

136950

32
h-index

214800

47
g-index

82
all docs

82
docs citations

82
times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	A unifying explanation of complex frequency spectra of $\hat{\Gamma}^3$ Dor, SPB and Be stars: combination frequencies and highly non-sinusoidal light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3015-3029.	4.4	101
2	Amplitude modulation in $\hat{\Gamma}$ Sct stars: statistics from an ensemble study of Kepler targets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1970-1989.	4.4	101
3	Spectroscopic survey of Kepler stars. I. HERMES/Mercator observations of A- and F-type stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2764-2783.	4.4	100
4	Low-frequency gravity waves in blue supergiants revealed by high-precision space photometry. <i>Nature Astronomy</i> , 2019, 3, 760-765.	10.1	92
5	Internal mixing of rotating stars inferred from dipole gravity modes. <i>Nature Astronomy</i> , 2021, 5, 715-722.	10.1	91
6	Characterizing the observational properties of $\hat{\Gamma}$ Sct stars in the era of space photometry from the Kepler mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3169-3184.	4.4	88
7	Sensitivity of gravito-inertial modes to differential rotation in intermediate-mass main-sequence stars. <i>Astronomy and Astrophysics</i> , 2018, 618, A24.	5.1	82
8	The first view of $\hat{\Gamma}$ Scuti and $\hat{\Gamma}^3$ Doradus stars with the TESS mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4040-4059.	4.4	78
9	The "hidden" companion in LB-1 unveiled by spectral disentangling. <i>Astronomy and Astrophysics</i> , 2020, 639, L6.	5.1	76
10	Three-dimensional Simulations of Massive Stars. I. Wave Generation and Propagation. <i>Astrophysical Journal</i> , 2019, 876, 4.	4.5	71
11	Forward Asteroseismic Modeling of Stars with a Convective Core from Gravity-mode Oscillations: Parameter Estimation and Stellar Model Selection. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 15.	7.7	69
12	Forward seismic modeling of the pulsating magnetic B-type star HD 43317. <i>Astronomy and Astrophysics</i> , 2018, 616, A148.	5.1	66
13	Is HR 6819 a triple system containing a black hole?. <i>Astronomy and Astrophysics</i> , 2020, 641, A43.	5.1	65
14	Variability of OB stars from TESS southern Sectors 1-13 and high-resolution IACOB and OWN spectroscopy. <i>Astronomy and Astrophysics</i> , 2020, 639, A81.	5.1	65
15	Photometric detection of internal gravity waves in upper main-sequence stars. <i>Astronomy and Astrophysics</i> , 2020, 640, A36.	5.1	65
16	Photometric detection of internal gravity waves in upper main-sequence stars. <i>Astronomy and Astrophysics</i> , 2019, 621, A135.	5.1	63
17	Diverse Variability of O and B Stars Revealed from 2-minute Cadence Light Curves in Sectors 1 and 2 of the TESS Mission: Selection of an Asteroseismic Sample. <i>Astrophysical Journal Letters</i> , 2019, 872, L9.	8.3	61
18	Asteroseismology of High-Mass Stars: New Insights of Stellar Interiors With Space Telescopes. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	61

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19	Asteroseismic masses, ages, and core properties of $\hat{1}^3\hat{A}$ Doradus stars using gravito-inertial dipole modes and spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3248-3263.	4.4	59
20	The mass discrepancy in intermediate- and high-mass eclipsing binaries: The need for higher convective core masses. <i>Astronomy and Astrophysics</i> , 2020, 637, A60.	5.1	59
21	On the signature of a 70-solar-mass black hole in LB-1. <i>Nature</i> , 2020, 580, E11-E15.	27.8	51
22	Binary asteroseismic modelling: isochrone-cloud methodology and application to <i>Kepler</i> gravity mode pulsators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1231-1246.	4.4	45
23	Rotation and pulsation in Ap stars: first light results from TESS sectors 1 and 2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3523-3549.	4.4	44
24	Fully compressible simulations of waves and core convection in main-sequence stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A18.	5.1	44
25	Discovery of Tidally Perturbed Pulsations in the Eclipsing Binary U Gru: A Crucial System for Tidal Asteroseismology. <i>Astrophysical Journal Letters</i> , 2019, 883, L26.	8.3	43
26	MOBSTER $\hat{a}^{\hat{c}}$ II. Identification of rotationally variable A stars observed with TESS in sectors 1 $\hat{a}^{\hat{c}}$ 4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4695-4710.	4.4	41
27	Magnetic OB[A] Stars with TESS: probing their Evolutionary and Rotational properties (MOBSTER) $\hat{a}^{\hat{c}}$ I. First-light observations of known magnetic B and A stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 304-317.	4.4	40
28	Amplitude Modulation of Pulsation Modes in Delta Scuti Stars. <i>Springer Theses</i> , 2017, , .	0.1	38
29	Period spacings of gravity modes in rapidly rotating magnetic stars. <i>Astronomy and Astrophysics</i> , 2019, 627, A64.	5.1	37
30	Pulsational frequency and amplitude modulation in the $\hat{1}^{\hat{A}}$ Sct star KIC $\hat{7}$ 106205. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1909-1918.	4.4	34
31	K2 photometry and HERMES spectroscopy of the blue supergiant $\hat{1}^{\hat{a}}$ Leo: rotational wind modulation and low-frequency waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1234-1241.	4.4	34
32	K2 space photometry reveals rotational modulation and stellar pulsations in chemically peculiar A and B stars. <i>Astronomy and Astrophysics</i> , 2018, 616, A77.	5.1	33
33	Discovery of $\hat{1}^2\hat{a}^{\hat{c}}$ Cep pulsations in the eclipsing binary V453 $\hat{a}^{\hat{c}}$ Cygni. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 497, L19-L23.	3.3	33
34	Probing the temperature gradient in the core boundary layer of stars with gravito-inertial modes. <i>Astronomy and Astrophysics</i> , 2021, 650, A175.	5.1	31
35	Detecting axisymmetric magnetic fields using gravity modes in intermediate-mass stars. <i>Astronomy and Astrophysics</i> , 2020, 638, A149.	5.1	30
36	Period spacings of gravity modes in rapidly rotating magnetic stars. <i>Astronomy and Astrophysics</i> , 2020, 636, A100.	5.1	29

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37	Towards a systematic treatment of observational uncertainties in forward asteroseismic modelling of gravity-mode pulsators. <i>Astronomy and Astrophysics</i> , 2021, 656, A158.	5.1	26
38	Tidally perturbed pulsations in the pre-main sequence γ Scuti binary RS Cha. <i>Astronomy and Astrophysics</i> , 2021, 645, A119.	5.1	23
39	Asteroseismic inference of the near-core magnetic field strength in the main-sequence B star HD 43317. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 512, L16-L20.	3.3	21
40	A δ Cephei pulsator and a changing orbital inclination in the high-mass eclipsing binary system ν Orionis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 501, L65-L70.	3.3	20
41	New δ Cep pulsators discovered with K2 space photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1304-1320.	4.4	19
42	Asteroseismology of Massive Stars with the TESS Mission: The Runaway δ Cep Pulsator PHL 346 = HN Aqr. <i>Astrophysical Journal Letters</i> , 2019, 873, L4.	8.3	19
43	EPIC 201585823, a rare triple-mode RR Lyrae star discovered in K2 mission data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1237-1245.	4.4	18
44	Suppressed phase variations in a high amplitude rapidly oscillating Ap star pulsating in a distorted quadrupole mode. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 601-616.	4.4	18
45	KIC 5950759: a high-amplitude δ Sct star with amplitude and frequency modulation near the terminal age main sequence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4039-4053.	4.4	18
46	Detection of magnetic fields in chemically peculiar stars observed with the K2 space mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2777-2793.	4.4	17
47	<i>TESS</i> cycle 1 observations of α Ap stars with 2-min cadence data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1073-1110.	4.4	16
48	Detection of non-linear resonances among gravity modes of slowly pulsating B stars: Results from five iterative pre-whitening strategies. <i>Astronomy and Astrophysics</i> , 2021, 655, A59.	5.1	16
49	A homogeneous spectroscopic analysis of a <i>Kepler</i> legacy sample of dwarfs for gravity-mode asteroseismology. <i>Astronomy and Astrophysics</i> , 2021, 650, A151.	5.1	15
50	The Tarantula Massive Binary Monitoring. <i>Astronomy and Astrophysics</i> , 2021, 650, A147.	5.1	15
51	Tango of celestial dancers: A sample of detached eclipsing binary systems containing g -mode pulsating components. <i>Astronomy and Astrophysics</i> , 2020, 643, A162.	5.1	15
52	Combining WASP and Kepler data: the case of the δ Sct star KIC 7106205. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1004-1010.	4.4	14
53	High-mass pulsators in eclipsing binaries observed using <i>TESS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 3191-3209.	4.4	12
54	Spectroscopic binaries RV Tauri and DF Cygni. <i>Astronomy and Astrophysics</i> , 2019, 628, A40.	5.1	11

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55	The CubeSpec space mission. <i>Astronomy and Astrophysics</i> , 2022, 658, A96.	5.1	11
56	K2 observations of the rapidly oscillating Ap star 33 Lib (HD 137949): new frequencies and unique non-linear interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2976-2984.	4.4	10
57	TESS Data for Asteroseismology (TASDA) Stellar Variability Classification Pipeline: Setup and Application to the Kepler Q9 Data. <i>Astronomical Journal</i> , 2021, 162, 209.	4.7	10
58	LCO observations of a super-critical distorted pulsation in the roAp star J0855 (TYC 2488-1241-1). <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2405-2410.	4.4	9
59	Characterization of the variability in the O+B eclipsing binary HD 165246. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1124-1137.	4.4	9
60	Adaptive elliptical aperture photometry: A software package for high-cadence ground-based photometry. <i>Astronomy and Astrophysics</i> , 2019, 629, A21.	5.1	8
61	Space Photometry with Brite-Constellation. <i>Universe</i> , 2021, 7, 199.	2.5	8
62	The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 18.	7.7	7
63	Rotational and pulsational variability in the TESS light curve of HD 27463. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2102-2111.	4.4	6
64	MOBSTER – IV. Detection of a new magnetic B-type star from follow-up spectropolarimetric observations of photometrically selected candidates.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4841-4849.	4.4	6
65	Dynamical parallax, physical parameters, and evolutionary status of the components of the bright eclipsing binary ϵ Draconis. <i>Astronomy and Astrophysics</i> , 2022, 658, A92.	5.1	6
66	V456 Cyg: An eclipsing binary with tidally perturbed g -mode pulsations. <i>Astronomy and Astrophysics</i> , 2022, 659, A177.	5.1	6
67	5 yr of BRITE-Constellation photometry of the luminous blue variable P Cygni: properties of the stochastic low-frequency variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4246-4255.	4.4	5
68	Amplitude Modulation in the γ Sct star KIC 7106205. <i>EPJ Web of Conferences</i> , 2015, 101, 06013.	0.3	2
69	Multiple variability time-scales of the early nitrogen-rich Wolf-Rayet star WR 7. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	2
70	Discovery of an optical cocoon tail behind the runaway HD 185806. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1544-1556.	4.4	2
71	Amplitude modulation in γ Sct stars: statistics from an ensemble of Kepler targets. <i>EPJ Web of Conferences</i> , 2017, 160, 03008.	0.3	1
72	Pandemic posters. <i>Astronomy and Geophysics</i> , 2021, 62, 1.19-1.19.	0.2	0

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73	Hear it through the grapevine. <i>Astronomy and Geophysics</i> , 2021, 62, 4.12-4.14.	0.2	0
74	Kepler Observations of Delta Scuti Stars. <i>Springer Theses</i> , 2017, , 81-106.	0.1	0
75	Investigating the HADS Stars with $\vec{\text{Kepler}}$ Data. <i>Springer Theses</i> , 2017, , 173-194.	0.1	0
76	Characterising Pulsational Non-linearity. <i>Springer Theses</i> , 2017, , 141-171.	0.1	0
77	Amplitude Modulation in $\vec{\text{Kepler}}$ Delta Scuti Stars. <i>Springer Theses</i> , 2017, , 107-139.	0.1	0
78	Stay in love with your PhD. <i>Astronomy and Geophysics</i> , 2022, 63, 3.32-3.35.	0.2	0