

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	The CubeSpec space mission. <i>Astronomy and Astrophysics</i> , 2022, 658, A96.	5.1	11
2	Dynamical parallax, physical parameters, and evolutionary status of the components of the bright eclipsing binary κ^1 Draconis. <i>Astronomy and Astrophysics</i> , 2022, 658, A92.	5.1	6
3	V456 Cyg: An eclipsing binary with tidally perturbed g -mode pulsations. <i>Astronomy and Astrophysics</i> , 2022, 659, A177.	5.1	6
4	Asteroseismic inference of the near-core magnetic field strength in the main-sequence B star HD43317. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 512, L16-L20.	3.3	21
5	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
6	Stay in love with your PhD. <i>Astronomy and Geophysics</i> , 2022, 63, 3.32-3.35.	0.2	0
7	Discovery of an optical cocoon tail behind the runaway HD185806. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1544-1556.	4.4	2
8	Pandemic posters. <i>Astronomy and Geophysics</i> , 2021, 62, 1.19-1.19.	0.2	0
9	Characterization of the variability in the O+B eclipsing binary HD165246. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1124-1137.	4.4	9
10	KIC5950759: 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
11	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
12	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
13	<i>TESS</i> cycle 1 observations of α Cen stars with 2-min cadence data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1073-1110.	4.4	16
14	Internal mixing of rotating stars inferred from dipole gravity modes. <i>Nature Astronomy</i> , 2021, 5, 715-722.	10.1	91
15	Space Photometry with Brite-Constellation. <i>Universe</i> , 2021, 7, 199.	2.5	8
16	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
17	The Tarantula Massive Binary Monitoring. <i>Astronomy and Astrophysics</i> , 2021, 650, A147.	5.1	15
18	Hear it through the grapevine. <i>Astronomy and Geophysics</i> , 2021, 62, 4.12-4.14.	0.2	0

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19	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
20	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
21	Tidally perturbed pulsations in the pre-main sequence γ Scuti binary RS Cha. <i>Astronomy and Astrophysics</i> , 2021, 645, A119.	5.1	23
22	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
23	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
24	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
25	Is HR 6819 a triple system containing a black hole?. <i>Astronomy and Astrophysics</i> , 2020, 641, A43.	5.1	65
26	Period spacings of gravity modes in rapidly rotating magnetic stars. <i>Astronomy and Astrophysics</i> , 2020, 636, A100.	5.1	29
27	Discovery of δ Cep pulsations in the eclipsing binary V453 Cygni. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 497, L19-L23.	3.3	33
28	On the signature of a 70-solar-mass black hole in LB-1. <i>Nature</i> , 2020, 580, E11-E15.	27.8	51
29	Detecting axisymmetric magnetic fields using gravity modes in intermediate-mass stars. <i>Astronomy and Astrophysics</i> , 2020, 638, A149.	5.1	30
30	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
31	Fully compressible simulations of waves and core convection in main-sequence stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A18.	5.1	44
32	Variability of OB stars from TESS southern Sectors 13 and high-resolution IACOB and OWN spectroscopy. <i>Astronomy and Astrophysics</i> , 2020, 639, A81.	5.1	65
33	Photometric detection of internal gravity waves in upper main-sequence stars. <i>Astronomy and Astrophysics</i> , 2020, 640, A36.	5.1	65
34	The "hidden" companion in LB-1 unveiled by spectral disentangling. <i>Astronomy and Astrophysics</i> , 2020, 639, L6.	5.1	76
35	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
36	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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37	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
38	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
39	The first view of $\hat{\nu}$ Scuti and $\hat{\nu}$ Doradus stars with the TESS mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4040-4059.	4.4	78
40	The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 18.	7.7	7
41	New $\hat{\nu}^2$ Cep pulsators discovered with K2 space photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1304-1320.	4.4	19
42	Adaptive elliptical aperture photometry: A software package for high-cadence ground-based photometry. <i>Astronomy and Astrophysics</i> , 2019, 629, A21.	5.1	8
43	Spectroscopic binaries RV Tauri and DF Cygni. <i>Astronomy and Astrophysics</i> , 2019, 628, A40.	5.1	11
44	Photometric detection of internal gravity waves in upper main-sequence stars. <i>Astronomy and Astrophysics</i> , 2019, 621, A135.	5.1	63
45	Three-dimensional Simulations of Massive Stars. I. Wave Generation and Propagation. <i>Astrophysical Journal</i> , 2019, 876, 4.	4.5	71
46	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
47	MOBSTER $\hat{\nu}$ II. Identification of rotationally variable A stars observed with TESS in sectors 1 $\hat{\nu}$ 4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4695-4710.	4.4	41
48	Magnetic OB[A] Stars with TESS: probing their Evolutionary and Rotational properties (MOBSTER) $\hat{\nu}$ 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
49	Asteroseismology of Massive Stars with the TESS Mission: The Runaway $\hat{\nu}^2$ Cep Pulsator PHL 346 $\hat{\nu}$ AHN Aqr. <i>Astrophysical Journal Letters</i> , 2019, 873, L4.	8.3	19
50	Low-frequency gravity waves in blue supergiants revealed by high-precision space photometry. <i>Nature Astronomy</i> , 2019, 3, 760-765.	10.1	92
51	Asteroseismic masses, ages, and core properties of $\hat{\nu}^3$ 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
52	Period spacings of gravity modes in rapidly rotating magnetic stars. <i>Astronomy and Astrophysics</i> , 2019, 627, A64.	5.1	37
53	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
54	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

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55	Characterizing the observational properties of δ Sct stars in the era of space photometry from the Kepler mission. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3169-3184.	4.4	88
56	LCO observations of a super-critical distorted pulsation in the δ Ap star J0855 (TYCâ€‰2488-1241-1). Monthly Notices of the Royal Astronomical Society, 2018, 480, 2405-2410.	4.4	9
57	K2 observations of the rapidly oscillating Ap star β Lib (HDâ€‰137949): new frequencies and unique non-linear interactions. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2976-2984.	4.4	10
58	Sensitivity of gravito-inertial modes to differential rotation in intermediate-mass main-sequence stars. Astronomy and Astrophysics, 2018, 618, A24.	5.1	82
59	Forward seismic modeling of the pulsating magnetic B-type star HD 43317. Astronomy and Astrophysics, 2018, 616, A148.	5.1	66
60	Forward Asteroseismic Modeling of Stars with a Convective Core from Gravity-mode Oscillations: Parameter Estimation and Stellar Model Selection. Astrophysical Journal, Supplement Series, 2018, 237, 15.	7.7	69
61	K2 space photometry reveals rotational modulation and stellar pulsations in chemically peculiar A and B stars. Astronomy and Astrophysics, 2018, 616, A77.	5.1	33
62	Detection of magnetic fields in chemically peculiar stars observed with the K2 space mission. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2777-2793.	4.4	17
63	K2 photometry and HERMES spectroscopy of the blue supergiant β Leo: rotational wind modulation and low-frequency waves. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1234-1241.	4.4	34
64	Suppressed phase variations in a high amplitude rapidly oscillating Ap star pulsating in a distorted quadrupole mode. Monthly Notices of the Royal Astronomical Society, 2018, 476, 601-616.	4.4	18
65	Amplitude modulation in δ Sct stars: statistics from an ensemble of Kepler targets. EPJ Web of Conferences, 2017, 160, 03008.	0.3	1
66	Amplitude Modulation of Pulsation Modes in Delta Scuti Stars. Springer Theses, 2017, , .	0.1	38
67	Kepler Observations of Delta Scuti Stars. Springer Theses, 2017, , 81-106.	0.1	0
68	Investigating the HADS Stars with $\vec{\text{Kepler}}$ Data. Springer Theses, 2017, , 173-194.	0.1	0
69	Characterising Pulsational Non-linearity. Springer Theses, 2017, , 141-171.	0.1	0
70	Amplitude Modulation in $\vec{\text{Kepler}}$ Delta Scuti Stars. Springer Theses, 2017, , 107-139.	0.1	0
71	EPICâ€‰201585823, a rare triple-mode RRâ€‰Lyrae star discovered in K2 mission data. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1237-1245.	4.4	18
72	Amplitude modulation in δ Sct stars: statistics from an ensemble study of <i>Kepler</i> targets. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1970-1989.	4.4	101

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73	Combining WASP and Kepler data: the case of the $\hat{\Gamma}$ Sct star KIC 7106205. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1004-1010.	4.4	14
74	A unifying explanation of complex frequency spectra of $\hat{\Gamma}^3$ Dor, SPB and Be stars: combination frequencies and highly non-sinusoidal light curves. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3015-3029.	4.4	101
75	Spectroscopic survey of Kepler stars.â€¦ I. HERMES/Mercator observations of A- and F-type stars. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2764-2783.	4.4	100
76	Amplitude Modulation in the $\hat{\Gamma}$ Sct star KIC 7106205. EPJ Web of Conferences, 2015, 101, 06013.	0.3	2
77	Pulsational frequency and amplitude modulation in the $\hat{\Gamma}^3$ Sct star KIC 7106205. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1909-1918.	4.4	34
78	Multiple variability time-scales of the early nitrogen-rich Wolf-Rayet star WR 7. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2