

Timothy Van Reeth

List of Publications by Year in descending order

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44
papers

1,619
citations

331259

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641
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#	ARTICLE	IF	CITATIONS
1	The CubeSpec space mission. <i>Astronomy and Astrophysics</i> , 2022, 658, A96.	2.1	11
2	V456 Cyg: An eclipsing binary with tidally perturbed g -mode pulsations. <i>Astronomy and Astrophysics</i> , 2022, 659, A177.	2.1	6
3	Predictions for Gravity-mode Periods and Surface Abundances in Intermediate-mass Dwarfs from Shear Mixing and Radiative Levitation. <i>Astrophysical Journal</i> , 2022, 925, 154.	1.6	11
4	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.	1.2	21
5	Detecting deep axisymmetric toroidal magnetic fields in stars. <i>Astronomy and Astrophysics</i> , 2022, 661, A133.	2.1	10
6	The near-core rotation of HD 112429. <i>Astronomy and Astrophysics</i> , 2022, 662, A58.	2.1	3
7	Detection of period-spacing patterns due to the gravity modes of rotating dwarfs in the TESS southern continuous viewing zone. <i>Astronomy and Astrophysics</i> , 2022, 662, A82.	2.1	11
8	Classifying Kepler light curves for 12% A and F stars using supervised feature-based machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2793-2804.	1.6	10
9	Rotation of the convective core in $\hat{3}$ Dor stars measured by dips in period spacings of g modes coupled with inertial modes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5856-5874.	1.6	40
10	The effect of the centrifugal acceleration on period spacings of gravito-inertial modes in intermediate-mass stars. <i>Astronomy and Astrophysics</i> , 2021, 648, A97.	2.1	16
11	Constraining stellar evolution theory with asteroseismology of $\hat{3}$ Doradus stars using deep learning. <i>Astronomy and Astrophysics</i> , 2021, 650, A58.	2.1	28
12	The traditional approximation of rotation for rapidly rotating stars and planets. <i>Astronomy and Astrophysics</i> , 2021, 652, A154.	2.1	14
13	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.	2.1	16
14	TESS Data for Asteroseismology: Light-curve Systematics Correction. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 53.	3.0	9
15	Asteroseismic Modeling of Gravity Modes in Slowly Rotating A/F Stars with Radiative Levitation. <i>Astrophysical Journal</i> , 2020, 895, 51.	1.6	28
16	Detecting axisymmetric magnetic fields using gravity modes in intermediate-mass stars. <i>Astronomy and Astrophysics</i> , 2020, 638, A149.	2.1	30
17	The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 18.	3.0	7
18	Photometric detection of internal gravity waves in upper main-sequence stars. <i>Astronomy and Astrophysics</i> , 2019, 621, A135.	2.1	63

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19	The period–luminosity relation for δ Scuti stars using Gaia DR2 parallaxes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4348-4353.	1.6	39
20	Period spacings of δ Doradus pulsators in the Kepler field: Rossby and gravity modes in 82 stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 782-800.	1.6	47
21	Asteroseismic masses, ages, and core properties of δ Doradus stars using gravito-inertial dipole modes and spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3248-3263.	1.6	59
22	<i>Gaia</i> -derived luminosities of <i>Kepler</i> A/F stars and the pulsator fraction across the δ Scuti instability strip. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2380-2400.	1.6	102
23	Period spacings of δ Doradus pulsators in the <i>Kepler</i> field: detection methods and application to 22 slow rotators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1757-1785.	1.6	41
24	Sensitivity of gravito-inertial modes to differential rotation in intermediate-mass main-sequence stars. <i>Astronomy and Astrophysics</i> , 2018, 618, A24.	2.1	82
25	Forward seismic modeling of the pulsating magnetic B-type star HD 43317. <i>Astronomy and Astrophysics</i> , 2018, 616, A148.	2.1	66
26	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.	3.0	69
27	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.	1.6	17
28	Signatures of internal rotation discovered in the <i>Kepler</i> data of five slowly pulsating B stars. <i>Astronomy and Astrophysics</i> , 2017, 598, A74.	2.1	111
29	The Interior Angular Momentum of Core Hydrogen Burning Stars from Gravity-mode Oscillations. <i>Astrophysical Journal Letters</i> , 2017, 847, L7.	3.0	60
30	Measuring and Decoding Gravito-Inertial Modes in Intermediate- and High-Mass Stars. <i>Proceedings of the International Astronomical Union</i> , 2017, 14, 98-103.	0.0	0
31	Constraining the near-core rotation of the δ Doradus star 43 Cygni using BRITe-Constellation data. <i>Astronomy and Astrophysics</i> , 2017, 608, A103.	2.1	12
32	HD 41641: A classical δ Sct-type pulsator with chemical signatures of an Ap star. <i>Astronomy and Astrophysics</i> , 2016, 588, A71.	2.1	18
33	The HERMES solar atlas and the spectroscopic analysis of the seismic solar analogue KIC 3241581. <i>Astronomy and Astrophysics</i> , 2016, 589, A27.	2.1	15
34	Interior rotation of a sample of δ Doradus stars from ensemble modelling of their gravity-mode period spacings. <i>Astronomy and Astrophysics</i> , 2016, 593, A120.	2.1	155
35	ASTEROSEISMIC FINGERPRINTS OF ROTATION AND MIXING IN THE SLOWLY PULSATING B8 V STAR KIC 7760680. <i>Astrophysical Journal Letters</i> , 2015, 803, L25.	3.0	55
36	KIC 10080943: An eccentric binary system containing two pressure- and gravity-mode hybrid pulsators. <i>Astronomy and Astrophysics</i> , 2015, 584, A35.	2.1	49

#	ARTICLE	IF	CITATIONS
37	Stellar evolution in motion: Period spacings in $\hat{3}$ Doradus stars. EPJ Web of Conferences, 2015, 101, 06065.	0.1	0
38	Detecting non-uniform period spacings in the Kepler photometry of $\hat{3}$ Doradus stars: methodology and case studies. Astronomy and Astrophysics, 2015, 574, A17.	2.1	66
39	GRAVITY-MODE PERIOD SPACINGS AS A SEISMIC DIAGNOSTIC FOR A SAMPLE OF $\hat{3}$ DORADUS STARS FROM KEPLER SPACE PHOTOMETRY AND HIGH-RESOLUTION GROUND-BASED SPECTROSCOPY. Astrophysical Journal, Supplement Series, 2015, 218, 27.	3.0	115
40	Discovery of binarity, spectroscopic frequency analysis, and mode identification of the $\hat{1}$ Scuti star $4\hat{6}\%CVn$. Astronomy and Astrophysics, 2014, 570, A33.	2.1	14
41	Least-Squares Deconvolution based analysis of stellar spectra. EAS Publications Series, 2013, 64, 237-244.	0.3	1
42	Denoising spectroscopic data by means of the improved least-squares deconvolution method. Astronomy and Astrophysics, 2013, 560, A37.	2.1	41
43	Gravity-mode period spacings and near-core rotation rates of 611 $\hat{3}$ Doradus stars with Kepler. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	40
44	The traditional approximation of rotation for rapidly rotating stars and planets. II. Deformation and differential rotation. Astronomy and Astrophysics, 0, , .	2.1	11