Timothy Van Reeth

List of Publications by Year
in descending order

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44	1,619	331259	301761
papers	citations	21 h-index	39 g-index

44	44	44	641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interior rotation of a sample ofÎ³Doradus stars from ensemble modelling of their gravity-mode period spacings. Astronomy and Astrophysics, 2016, 593, A120.	2.1	155
2	GRAVITY-MODE PERIOD SPACINGS AS A SEISMIC DIAGNOSTIC FOR A SAMPLE OF Î³ DORADUS STARS FROM KEPLER SPACE PHOTOMETRY AND HIGH-RESOLUTION GROUND-BASED SPECTROSCOPY. Astrophysical Journal, Supplement Series, 2015, 218, 27.	3.0	115
3	Signatures of internal rotation discovered in theKeplerdata of five slowly pulsating B stars. Astronomy and Astrophysics, 2017, 598, A74.	2.1	111
4	Gaia-derived luminosities ofKeplerA/F stars and the pulsator fraction across the Î´â€‰Scuti instability strip. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2380-2400.	1.6	102
5	Sensitivity of gravito-inertial modes to differential rotation in intermediate-mass main-sequence stars. Astronomy and Astrophysics, 2018, 618, A24.	2.1	82
6	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.	3.0	69
7	Detecting non-uniform period spacings in theKeplerphotometry ofÎ³Doradus stars: methodology and case studies. Astronomy and Astrophysics, 2015, 574, A17.	2.1	66
8	Forward seismic modeling of the pulsating magnetic B-type star HD 43317. Astronomy and Astrophysics, 2018, 616, A148.	2.1	66
9	Photometric detection of internal gravity waves in upper main-sequence stars. Astronomy and Astrophysics, 2019, 621, A135.	2.1	63
10	The Interior Angular Momentum of Core Hydrogen Burning Stars from Gravity-mode Oscillations. Astrophysical Journal Letters, 2017, 847, L7.	3.0	60
11	Asteroseismic masses, ages, and core properties of Î³ÂDoradus stars using gravito-inertial dipole modes and spectroscopy. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3248-3263.	1.6	59
12	ASTEROSEISMIC FINGERPRINTS OF ROTATION AND MIXING IN THE SLOWLY PULSATING B8 V STAR KIC 7760680. Astrophysical Journal Letters, 2015, 803, L25.	3.0	55
13	KICâ€‰10080943: An eccentric binary system containing two pressure- and gravity-mode hybrid pulsators. Astronomy and Astrophysics, 2015, 584, A35.	2.1	49
14	Period spacings of Î³ Doradus pulsators in the Kepler field: Rossby and gravity modes in 82 stars. Monthly Notices of the Royal Astronomical Society, 2019, 487, 782-800.	1.6	47
15	Period spacings of Î³ Doradus pulsators in theKeplerfield: detection methods and application to 22 slow rotators. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1757-1785.	1.6	41
16	Denoising spectroscopic data by means of the improved least-squares deconvolution method. Astronomy and Astrophysics, 2013, 560, A37.	2.1	41
17	Gravity-mode period spacings and near-core rotation rates of 611 Î³ Doradus stars with Kepler. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	40
18	Rotation of the convective core in Î³ Dor stars measured by dips in period spacings of g modes coupled with inertial modes. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5856-5874.	1.6	40

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19	The periodâ€“luminosity relation for ÎˊÂScuti stars using Gaia DR2 parallaxes. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4348-4353.	1.6	39
20	Detecting axisymmetric magnetic fields using gravity modes in intermediate-mass stars. Astronomy and Astrophysics, 2020, 638, A149.	2.1	30
21	Asteroseismic Modeling of Gravity Modes in Slowly Rotating A/F Stars with Radiative Levitation. Astrophysical Journal, 2020, 895, 51.	1.6	28
22	Constraining stellar evolution theory with asteroseismology of Î³ Doradus stars using deep learning. Astronomy and Astrophysics, 2021, 650, A58.	2.1	28
23	Asteroseismic inference of the near-core magnetic field strength in the main-sequence B star HDÂ43317. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 512, L16-L20.	1.2	21
24	HD 41641: A classicalÎˊSct-type pulsator with chemical signatures of an Ap star. Astronomy and Astrophysics, 2016, 588, A71.	2.1	18
25	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.	1.6	17
26	The effect of the centrifugal acceleration on period spacings of gravito-inertial modes in intermediate-mass stars. Astronomy and Astrophysics, 2021, 648, A97.	2.1	16
27	Detection of non-linear resonances among gravity modes of slowly pulsating B stars: Results from five iterative pre-whitening strategies. Astronomy and Astrophysics, 2021, 655, A59.	2.1	16
28	The HERMES solar atlas and the spectroscopic analysis of the seismic solar analogue KICâ€‰3241581. Astronomy and Astrophysics, 2016, 589, A27.	2.1	15
29	Discovery of binarity, spectroscopic frequency analysis, and mode identification of theÎˊâ€‰Scuti star 4â€‰CVn. Astronomy and Astrophysics, 2014, 570, A33.	2.1	14
30	The traditional approximation of rotation for rapidly rotating stars and planets. Astronomy and Astrophysics, 2021, 652, A154.	2.1	14
31	Constraining the near-core rotation of theÎ³Doradus star 43 Cygni using BRITE-Constellation data. Astronomy and Astrophysics, 2017, 608, A103.	2.1	12
32	The traditional approximation of rotation for rapidly rotating stars and planets. II. Deformation and differential rotation. Astronomy and Astrophysics, 0, , .	2.1	11
33	The CubeSpec space mission. Astronomy and Astrophysics, 2022, 658, A96.	2.1	11
34	Predictions for Gravity-mode Periods and Surface Abundances in Intermediate-mass Dwarfs from Shear Mixing and Radiative Levitation. Astrophysical Journal, 2022, 925, 154.	1.6	11
35	Detection of period-spacing patterns due to the gravity modes of rotating dwarfs in the TESS southern continuous viewing zone. Astronomy and Astrophysics, 2022, 662, A82.	2.1	11
36	Detecting deep axisymmetric toroidal magnetic fields in stars. Astronomy and Astrophysics, 2022, 661, A133.	2.1	10

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37	Classifying Kepler light curves for 12â€‰000 A and F stars using supervised feature-based machine learning. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2793-2804.	1.6	10
38	TESS Data for Asteroseismology: Light-curve Systematics Correction. Astrophysical Journal, Supplement Series, 2021, 257, 53.	3.0	9
39	The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars. Astrophysical Journal, Supplement Series, 2019, 244, 18.	3.0	7
40	V456 Cyg: An eclipsing binary with tidally perturbed g-mode pulsations. Astronomy and Astrophysics, 2022, 659, A177.	2.1	6
41	The near-core rotation of HD 112429. Astronomy and Astrophysics, 2022, 662, A58.	2.1	3
42	Least-Squares Deconvolution based analysis of stellar spectra. EAS Publications Series, 2013, 64, 237-244.	0.3	1
43	Stellar evolution in motion: Period spacings inÎ³Doradus stars. EPJ Web of Conferences, 2015, 101, 06065.	0.1	0
44	Measuring and Decoding Gravito-Inertial Modes in Intermediate- and High-Mass Stars. Proceedings of the International Astronomical Union, 2017, 14, 98-103.	0.0	0