H M Cegla

List of Publications by Year
in descending order

42 papers	1,937 citations	236925 25 h-index	265206 42 g-index
42 all docs	42 docs citations	42 times ranked	1327 citing authors

#	Article	IF	Citations
1	Titanium oxide and chemical inhomogeneity in the atmosphere of the exoplanet WASP-189 b. Nature Astronomy, 2022, 6, 449-457.	10.1	40
2	Optimal parameter space for detecting stellar differential rotation and centre-to-limb convective variations. Astronomy and Astrophysics, 2022, 661, A97.	5.1	4
3	The EXPRES Stellar Signals Project II. State of the Field in Disentangling Photospheric Velocities. Astronomical Journal, 2022, 163, 171.	4.7	27
4	The hot Neptune WASP-166Âb with ESPRESSO II: confirmation of atmospheric sodium. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 513, L15-L19.	3.3	12
5	Spectral Line Depth Variability in Radial Velocity Spectra. Astrophysical Journal, 2022, 930, 121.	4.5	5
6	The Warm Neptune GJ 3470b Has a Polar Orbit. Astrophysical Journal Letters, 2022, 931, L15.	8.3	27
7	Orbital misalignment of the super-Earth Ï€ Menâ€‰c with the spin of its star. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2893-2911.	4.4	28
8	Three years of HARPS-N high-resolution spectroscopy and precise radial velocity data for the Sun. Astronomy and Astrophysics, 2021, 648, A103.	5.1	58
9	Separating planetary reflex Doppler shifts from stellar variability in the wavelength domain. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1699-1717.	4.4	44
10	Detection Limits of Low-mass, Long-period Exoplanets Using Gaussian Processes Applied to HARPS-N Solar Radial Velocities. Astronomical Journal, 2021, 161, 287.	4.7	17
11	Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network. Astrophysical Journal, 2021, 920, 21.	4.5	10
12	Hot Exoplanet Atmospheres Resolved with Transit Spectroscopy (HEARTS). Astronomy and Astrophysics, 2020, 641, A123.	5.1	88
13	Can we detect the stellar differential rotation of WASP-7 through the Rossiterâ€“McLaughlin observations?. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5928-5943.	4.4	9
14	The spectral impact of magnetic activity on disc-integrated HARPS-N solar observations: exploring new activity indicators. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4279-4290.	4.4	14
15	Mass-loss rate and local thermodynamic state of the KELT-9 b thermosphere from the hydrogen Balmer series. Astronomy and Astrophysics, 2020, 638, A87.	5.1	64
16	Hot Exoplanet Atmospheres Resolved with Transit Spectroscopy (HEARTS). Astronomy and Astrophysics, 2020, 635, A205.	5.1	63
17	The EBLM project â€“ VII. Spinâ€“orbit alignment for the circumbinary planet host EBLM J0608-59â€‰A/TOI-1338â€‰A. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1627-1633.	4.4	10
18	Detection of Na, K, and HÎ±absorption in the atmosphere of WASP-52b using ESPRESSO. Astronomy and Astrophysics, 2020, 635, A171.	5.1	62

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19	Nightside condensation of iron in an ultrahot giant exoplanet. Nature, 2020, 580, 597-601.	27.8	178
20	High-resolution transmission spectroscopy of MASCARA-2 b with EXPRES. Astronomy and Astrophysics, 2020, 641, A120.	5.1	41
21	Hot Exoplanet Atmospheres Resolved with Transit Spectroscopy (HEARTS). Astronomy and Astrophysics, 2020, 643, A45.	5.1	17
22	Testing the Spectroscopic Extraction of Suppression of Convective Blueshift. Astrophysical Journal, 2020, 888, 117.	4.5	15
23	Temporal evolution and correlations of optical activity indicators measured in Sun-as-a-star observations. Astronomy and Astrophysics, 2019, 627, A118.	5.1	31
24	A spectral survey of an ultra-hot Jupiter. Astronomy and Astrophysics, 2019, 627, A165.	5.1	145
25	Three years of Sun-as-a-star radial-velocity observations on the approach to solar minimum. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1082-1100.	4.4	81
26	HARPS-N Solar RVs Are Dominated by Large, Bright Magnetic Regions. Astrophysical Journal, 2019, 874, 107.	4.5	59
27	Hot Exoplanet Atmospheres Resolved with Transit Spectroscopy (HEARTS). Astronomy and Astrophysics, 2019, 623, A166.	5.1	88
28	Filtering Solar-Like Oscillations for Exoplanet Detection in Radial Velocity Observations. Astronomical Journal, 2019, 157, 163.	4.7	59
29	Stellar Surface Magnetoconvection as a Source of Astrophysical Noise. III. Sun-as-a-Star Simulations and Optimal Noise Diagnostics. Astrophysical Journal, 2019, 879, 55.	4.5	26
30	The Impact of Stellar Surface Magnetoconvection and Oscillations on the Detection of Temperate, Earth-Mass Planets Around Sun-Like Stars. Geosciences (Switzerland), 2019, 9, 114.	2.2	25
31	Orbital misalignment of the Neptune-mass exoplanet GJ 436b with the spin of its cool star. Nature, 2018, 553, 477-480.	27.8	92
32	Stellar Surface Magneto-convection as a Source of Astrophysical Noise. II. Center-to-limb Parameterization of Absorption Line Profiles and Comparison to Observations. Astrophysical Journal, 2018, 866, 55.	4.5	35
33	Understanding stellar activity-induced radial velocity jitter using simultaneous K2 photometry and HARPS RV measurements. Astronomy and Astrophysics, 2017, 606, A107.	5.1	29
34	Refined architecture of the WASP-8 system: A cautionary tale for traditional Rossiter-McLaughlin analysis. Astronomy and Astrophysics, 2017, 599, A33.	5.1	39
35	A cautionary tale: limitations of a brightness-based spectroscopic approach to chromatic exoplanet radii. Astronomy and Astrophysics, 2017, 598, L3.	5.1	4
36	MODELING THE ROSSITERâ€“MCLAUGHLIN EFFECT: IMPACT OF THE CONVECTIVE CENTER-TO-LIMB VARIATIONS IN THE STELLAR PHOTOSPHERE. Astrophysical Journal, 2016, 819, 67.	4.5	59

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37	The Rossiter-McLaughlin effect reloaded: Probing the 3D spin-orbit geometry, differential stellar rotation, and the spatially-resolved stellar spectrum of star-planet systems. Astronomy and Astrophysics, 2016, 588, A127.	5.1	99
38	ESTIMATING STELLAR RADIAL VELOCITY VARIABILITY FROMKEPLERANDGALEX: IMPLICATIONS FOR THE RADIAL VELOCITY CONFIRMATION OF EXOPLANETS. Astrophysical Journal, 2014, 780, 104.	4.5	44
39	A window on exoplanet dynamical histories: Rossiterâ€“McLaughlin observations of WASP-13b and WASP-32b. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3392-3401.	4.4	41
40	STELLAR SURFACE MAGNETO-CONVECTION AS A SOURCE OF ASTROPHYSICAL NOISE. I. MULTI-COMPONENT PARAMETERIZATION OF ABSORPTION LINE PROFILES. Astrophysical Journal, 2013, 763, 95.	4.5	57
41	Stellar jitter from variable gravitational redshift: implications for radial velocity confirmation of habitable exoplanets. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L54-L58.	3.3	40
42	WASP-22 b: A TRANSITING â€œHOT JUPITERâ€•PLANET IN A HIERARCHICAL TRIPLE SYSTEM. Astronomical Journal, 2010, 140, 2007-2012.	4.7	51