Guillem Anglada-EscudÃ©

List of Publications by Year
in descending order

146 papers	12,393 citations	53794 45 h-index	27406 106 g-index
149 all docs	149 docs citations	149 times ranked	8472 citing authors

#	Article	IF	Citations
1	Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (CHEOPS) using<scp>pycheops</scp>. Monthly Notices of the Royal Astronomical Society, 2022, 514, 77-104.	4.4	38
2	Proxima-b. , 2022, , 1-2.		0
3	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2022, 663, A68.	5.1	7
4	Identification and Mitigation of a Vibrational Telescope Systematic with Application to Spitzer. Planetary Science Journal, 2021, 2, 9.	3.6	5
5	Auto-correlation functions of astrophysical processes, and their relation to Gaussian processes. Astronomy and Astrophysics, 2021, 645, A58.	5.1	22
6	Monitoring the radio emission of Proxima Centauri. Astronomy and Astrophysics, 2021, 645, A77.	5.1	34
7	A Small Actively Controlled High-resolution Spectrograph Based on Off-the-shelf Components. Publications of the Astronomical Society of the Pacific, 2021, 133, 025001.	3.1	4
8	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. Science, 2021, 371, 1038-1041.	12.6	41
9	Mass and density of the transiting hot and rocky super-Earth LHS 1478 b (TOI-1640 b). Astronomy and Astrophysics, 2021, 649, A144.	5.1	19
10	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 649, L12.	5.1	10
11	Analysis of apsidal motion in eclipsing binaries using TESS data. Astronomy and Astrophysics, 2021, 649, A64.	5.1	12
12	Transit detection of the long-period volatile-rich super-Earth Î½2 Lupi d with CHEOPS. Nature Astronomy, 2021, 5, 775-787.	10.1	51
13	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 653, A49.	5.1	11
14	Faint objects in motion: the new frontier of high precision astrometry. Experimental Astronomy, 2021, 51, 845-886.	3.7	17
15	Analysis of apsidal motion in eclipsing binaries using TESS data. Astronomy and Astrophysics, 2021, 654, A17.	5.1	19
16	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. Astronomical Journal, 2021, 162, 295.	4.7	39
17	An ablating 2.6 MâŠ• planet in an eccentric binary from the Dispersed Matter Planet Project. Nature Astronomy, 2020, 4, 419-426.	10.1	16
18	Dispersed Matter Planet Project discoveries of ablating planets orbiting nearby bright stars. Nature Astronomy, 2020, 4, 408-418.	10.1	14

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19	A compact multi-planet system around a bright nearby star from the Dispersed Matter Planet Project. Nature Astronomy, 2020, 4, 399-407.	10.1	9
20	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 637, A93.	5.1	12
21	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 636, A119.	5.1	24
22	HiFLExâ€"A Highly Flexible Package to Reduce Cross-dispersed Echelle Spectra. Publications of the Astronomical Society of the Pacific, 2020, 132, 064504.	3.1	6
23	A planet within the debris disk around the pre-main-sequence star AU Microscopii. Nature, 2020, 582, 497-500.	27.8	145
24	Doppler shifts and spectral line profile changes in the starlight scattered from an exoplanet. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1596-1613.	4.4	3
25	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. Science, 2020, 368, 1477-1481.	12.6	27
26	A low-mass planet candidate orbiting Proxima Centauri at a distance of 1.5 AU. Science Advances, 2020, 6, eaax7467.	10.3	57
27	LHS 1815b: The First Thick-disk Planet Detected by TESS. Astronomical Journal, 2020, 159, 160.	4.7	23
28	Correcting for chromatic stellar activity effects in transits with multiband photometric monitoring: application to WASP-52. Astronomy and Astrophysics, 2020, 641, A82.	5.1	16
29	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 641, A69.	5.1	33
30	Transmission spectroscopy and Rossiter-McLaughlin measurements of the young Neptune orbiting AU Mic. Astronomy and Astrophysics, 2020, 643, A25.	5.1	34
31	Low-cost precursor of an interstellar mission. Astronomy and Astrophysics, 2020, 641, A45.	5.1	10
32	RedDots: a temperate 1.5 Earth-mass planet candidate in a compact multiterrestrial planet system around GJâ€‰1061. Monthly Notices of the Royal Astronomical Society, 2020, 493, 536-550.	4.4	34
33	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 638, A115.	5.1	5
34	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 625, A68.	5.1	123
35	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A161.	5.1	58
36	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. Astronomy and Astrophysics, 2019, 628, A39.	5.1	97

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37	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A49.	5.1	95
38	Magnetic fields in M dwarfs from the CARMENES survey. Astronomy and Astrophysics, 2019, 626, A86.	5.1	63
39	Heâ€ÌÎ»10â€‰830 â„« in the transmission spectrum of HD209458 b. Astronomy and Astrophysics, 2019, 629, A110.	5.1	81
40	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. Science, 2019, 365, 1441-1445.	12.6	78
41	Proxima Centauri b is not a transiting exoplanet. Monthly Notices of the Royal Astronomical Society, 2019, 487, 268-274.	4.4	21
42	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A44.	5.1	70
43	Gliese 49: activity evolution and detection of a super-Earth. Astronomy and Astrophysics, 2019, 624, A123.	5.1	18
44	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 622, A153.	5.1	18
45	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A136.	5.1	9
46	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. Astronomy and Astrophysics, 2019, 621, A74.	5.1	57
47	PEXO: A Global Modeling Framework for Nanosecond Timing, Microarcsecond Astrometry, and Î¼m s^{â^'1} Radial Velocities. Astrophysical Journal, Supplement Series, 2019, 244, 39.	7.7	15
48	Prospects for detecting the astrometric signature of Barnardâ€™s Star b. Astronomy and Astrophysics, 2019, 623, A10.	5.1	4
49	Detection of the nearest Jupiter analogue in radial velocity and astrometry data. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5002-5016.	4.4	41
50	A Reanalysis of the UVES M Dwarf Planet Search Program*. Astronomical Journal, 2019, 158, 251.	4.7	5
51	Water vapor detection in the transmission spectra of HD 209458 b with the CARMENES NIR channel. Astronomy and Astrophysics, 2019, 630, A53.	5.1	45
52	EXOhSPEC folded design optimization and performance estimation. , 2019, , .		3
53	EXOhSPEC collimator mechanical design. , 2019, , .		2
54	Highly replicable, low-cost, portable, general-purpose, high-resolution spectrometer with applications in stellar studies and exoplanet science. , 2019, , .		1

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55	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor. , 2018, , 1-18.		0
56	AD Leonis: Radial Velocity Signal of Stellar Rotation or Spinâ€“Orbit Resonance?. Astronomical Journal, 2018, 155, 192.	4.7	19
57	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, A117.	5.1	103
58	A candidate super-Earth planet orbiting near the snow line of Barnardâ€™s star. Nature, 2018, 563, 365-368.	27.8	109
59	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor. , 2018, , 2627-2644.		0
60	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, L5.	5.1	46
61	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 612, A49.	5.1	173
62	Dynamical Masses of Îµ Indi B and C: Two Massive Brown Dwarfs at the Edge of the Stellarâ€“substellar Boundary. Astrophysical Journal, 2018, 865, 28.	4.5	45
63	The CARMENES Search for Exoplanets around M Dwarfs: A Low-mass Planet in the Temperate Zone of the Nearby K2-18. Astronomical Journal, 2018, 155, 257.	4.7	43
64	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
65	Very accurate cryogenic mechanisms for CRIRES+. , 2018, , .		1
66	The Anglo-Australian Planet Search. XXV. A Candidate Massive Saturn Analog Orbiting HD 30177. Astronomical Journal, 2017, 153, 167.	4.7	42
67	Radial-velocity fitting challenge. Astronomy and Astrophysics, 2017, 598, A133.	5.1	87
68	Color Difference Makes a Difference: Four Planet Candidates around Ï„ Ceti. Astronomical Journal, 2017, 154, 135.	4.7	91
69	Astrometric Constraints on the Masses of Long-period Gas Giant Planets in the TRAPPIST-1 Planetary System. Astronomical Journal, 2017, 154, 103.	4.7	31
70	Recovering planet radial velocity signals in the presence of starspot activity in fully convective stars. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1733-1740.	4.4	38
71	Detecting Proxima bâ€™s Atmosphere with JWST Targeting CO₂ at 15 Î¼m Using a High-pass Spectral Filtering Technique. Astronomical Journal, 2017, 154, 77.	4.7	48
72	ALMA Discovery of Dust Belts around Proxima Centauri. Astrophysical Journal Letters, 2017, 850, L6.	8.3	59

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73	High-cadence spectroscopy of M-dwarfs â€“ II. Searching for stellar pulsations with HARPS. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4268-4282.	4.4	16
74	A differential least-squares deconvolution method for high precision spectroscopy of stars and exoplanets â€“ I. Application to obliquity measurements of HARPS observations of HD189733b. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3467-3473.	4.4	24
75	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
76	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
77	NO EVIDENCE FOR ACTIVITY CORRELATIONS IN THE RADIAL VELOCITIES OF KAPTEYNâ€™S STAR. Astrophysical Journal, 2016, 830, 74.	4.5	44
78	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
79	The habitability of Proxima Centauri b. Astronomy and Astrophysics, 2016, 596, A111.	5.1	165
80	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A3.	5.1	85
81	The habitability of Proxima Centauri b. Astronomy and Astrophysics, 2016, 596, A112.	5.1	191
82	Microarcsecond astrometric observatory Theia: from dark matter to compact objects and nearby earths. , 2016, , .		8
83	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). I. A BENCHMARK M DWARF COMPANION EXCITING A MASSIVE PLANET AROUND THE SUN-LIKE STAR HD 7449*. Astrophysical Journal, 2016, 818, 106.	4.5	40
84	A terrestrial planet candidate in a temperate orbit around Proxima Centauri. Nature, 2016, 536, 437-440.	27.8	1,033
85	Retrieval of Precise Radial Velocities from Near-infrared High-resolution Spectra of Low-mass Stars. Publications of the Astronomical Society of the Pacific, 2016, 128, 104501.	3.1	13
86	CARMENES: an overview six months after first light. Proceedings of SPIE, 2016, , .	0.8	59
87	A HIGH-PRECISION NEAR-INFRARED SURVEY FOR RADIAL VELOCITY VARIABLE LOW-MASS STARS USING CSHELL AND A METHANE GAS CELL. Astrophysical Journal, 2016, 822, 40.	4.5	225
88	The origin of the excess transit absorption in the HD 189733 system: planet or star?. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1012-1028.	4.4	67
89	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). II. A PUZZLING WHITE DWARF AROUND THE SUN-LIKE STAR HD 11112. Astrophysical Journal, 2016, 831, 177.	4.5	5
90	High-cadence spectroscopy of M dwarfs â€“ I. Analysis of systematic effects in HARPS-N line profile measurements on the bright binary GJ 725A+B. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3551-3564.	4.4	39

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91	State of the Field: Extreme Precision Radial Velocities. Publications of the Astronomical Society of the Pacific, 2016, 128, 066001.	3.1	253
92	TRIGONOMETRIC PARALLAXES AND PROPER MOTIONS OF 134 SOUTHERN LATE M, L, AND T DWARFS FROM THE CARNEGIE ASTROMETRIC PLANET SEARCH PROGRAM. Astronomical Journal, 2016, 152, 24.	4.7	63
93	Precise Near-Infrared Radial Velocities. Proceedings of the International Astronomical Union, 2015, 10, 286-287.	0.0	0
94	Analysis of combined radial velocities and activity of BD+20 1790: evidence supporting the existence of a planetary companion. Astronomy and Astrophysics, 2015, 576, A66.	5.1	6
95	Benchmarking the power of amateur observatories for TTV exoplanets detection. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3101-3113.	4.4	61
96	Comment on â€œStellar activity masquerading as planets in the habitable zone of the M dwarf Gliese 581â€. Science, 2015, 347, 1080-1080.	12.6	47
97	A NEW MERGING DOUBLE DEGENERATE BINARY IN THE SOLAR NEIGHBORHOOD. Astronomical Journal, 2015, 149, 176.	4.7	17
98	THE KAPTEYN MOVING GROUP IS NOT TIDAL DEBRIS FROMÏ‰CENTAURI. Astrophysical Journal, 2015, 808, 103.	4.5	19
99	Flat-relative optimal extraction. Astronomy and Astrophysics, 2014, 561, A59.	5.1	91
100	Precision radial velocities of 15 M5â€“M9 dwarfs. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3094-3113.	4.4	61
101	CARMENES instrument overview. Proceedings of SPIE, 2014, , .	0.8	132
102	Novel infrared polarimeter for the ESO CRIRES+ instrument. Proceedings of SPIE, 2014, , .	0.8	2
103	Two planets around Kapteyn's star: a cold and a temperate super-Earth orbiting the nearest halo red dwarf. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 443, L89-L93.	3.3	86
104	Bayesian search for low-mass planets around nearby M dwarfs â€“ estimates for occurrence rate based on global detectability statistics. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1545-1569.	4.4	124
105	GJ 832c: A SUPER-EARTH IN THE HABITABLE ZONE. Astrophysical Journal, 2014, 791, 114.	4.5	72
106	Radial velocity studies of cool stars. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130088.	3.4	1
107	Opto-mechanical design of a new cross dispersion unit for the CRIRES+ high resolution spectrograph for the VLT. , 2014, , .		0
108	Wavelength calibration from 1-5Î¼m for the CRIRES+ high-resolution spectrograph at the VLT. Proceedings of SPIE, 2014, , .	0.8	6

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109	Concept and optical design of the cross-disperser module for CRIRES+. Proceedings of SPIE, 2014, , .	0.8	3
110	CRIRES+: a cross-dispersed high-resolution infrared spectrograph for the ESO VLT. Proceedings of SPIE, 2014, , .	0.8	42
111	Habitable-zone super-Earth candidate in a six-planet system around the K2.5V star HDÂ40307. Astronomy and Astrophysics, 2013, 549, A48.	5.1	80
112	A dynamically-packed planetary system around GJ 667C with three super-Earths in its habitable zone. Astronomy and Astrophysics, 2013, 556, A126.	5.1	132
113	TWO PLANETARY COMPANIONS AROUND THE K7 DWARF GJ 221: A HOT SUPER-EARTH AND A CANDIDATE IN THE SUB-SATURN DESERT RANGE. Astrophysical Journal, 2013, 771, 42.	4.5	32
114	Surfing the photon noise: New techniques to find lowâ€mass planets around M dwarfs. Astronomische Nachrichten, 2013, 334, 184-187.	1.2	26
115	DISTANCE AND KINEMATICS OF THE TW HYDRAE ASSOCIATION FROM PARALLAXES. Astrophysical Journal, 2013, 762, 118.	4.5	93
116	Precision near-infrared radial velocity instrumentation II: noncircular core fiber scrambler. Proceedings of SPIE, 2013, , .	0.8	14
117	Precision near-infrared radial velocity instrumentation I: absorption gas cells. Proceedings of SPIE, 2013, , .	0.8	6
118	GJ 1214 reviewed. Astronomy and Astrophysics, 2013, 551, A48.	5.1	54
119	Astrometry in the Service of Planet Formation Studies: Disk Lifetimes in Nearby Star Forming Regions and a Planet Candidate around a Mature Brown Dwarf. Proceedings of the International Astronomical Union, 2013, 8, 230-231.	0.0	0
120	Advances in precision Doppler spectroscopy on cool stars. EPJ Web of Conferences, 2013, 47, 05010.	0.3	0
121	Radial velocity signatures of Zeeman broadening. Astronomy and Astrophysics, 2013, 552, A103.	5.1	63
122	Up to four planets around the M dwarf GJ 163. Astronomy and Astrophysics, 2013, 556, A111.	5.1	36
123	Habitable Worlds Around M Dwarf Stars: The CAPSCam Astrometric Planet Search. Proceedings of the International Astronomical Union, 2012, 8, 183-188.	0.0	1
124	THE HARPS-TERRA PROJECT. I. DESCRIPTION OF THE ALGORITHMS, PERFORMANCE, AND NEW MEASUREMENTS ON A FEW REMARKABLE STARS OBSERVED BY HARPS. Astrophysical Journal, Supplement Series, 2012, 200, 15.	7.7	293
125	ASTROMETRY AND RADIAL VELOCITIES OF THE PLANET HOST M DWARF GJ 317: NEW TRIGONOMETRIC DISTANCE, METALLICITY, AND UPPER LIMIT TO THE MASS OF GJ 317b. Astrophysical Journal, 2012, 746, 37.	4.5	68
126	THE BROWN DWARF KINEMATICS PROJECT (BDKP). III. PARALLAXES FOR 70 ULTRACOOL DWARFS. Astrophysical Journal, 2012, 752, 56.	4.5	225

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127	IDENTIFYING THE YOUNG LOW-MASS STARS WITHIN 25 pc. II. DISTANCES, KINEMATICS, AND GROUP MEMBERSHIP. Astrophysical Journal, 2012, 758, 56.	4.5	143
128	Design and Construction of Absorption Cells for Precision Radial Velocities in theKBand Using Methane Isotopologues. Publications of the Astronomical Society of the Pacific, 2012, 124, 586-597.	3.1	35
129	CARMENES. I: instrument and survey overview. Proceedings of SPIE, 2012, , .	0.8	43
130	A PLANETARY SYSTEM AROUND THE NEARBY M DWARF GJ 667C WITH AT LEAST ONE SUPER-EARTH IN ITS HABITABLE ZONE. Astrophysical Journal Letters, 2012, 751, L16.	8.3	139
131	A planetary system with gas giants and super-Earths around the nearby M dwarf GJâ€‰676A. Astronomy and Astrophysics, 2012, 548, A58.	5.1	49
132	STRONG CONSTRAINTS TO THE PUTATIVE PLANET CANDIDATE AROUND VB 10 USING DOPPLER SPECTROSCOPY. Astrophysical Journal Letters, 2010, 711, L24-L29.	8.3	37
133	Evidence of a massive planet candidate orbiting the young active K5V star BD+20 1790. Astronomy and Astrophysics, 2010, 512, A45.	5.1	22
134	HOW ECCENTRIC ORBITAL SOLUTIONS CAN HIDE PLANETARY SYSTEMS IN 2:1 RESONANT ORBITS. Astrophysical Journal, 2010, 709, 168-178.	4.5	119
135	And the Oscar Goes to: BD+20 1790 for â€œThe Mystery of the Unseen Companionâ€œ. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 413-413.	0.3	0
136	ABSOLUTE PROPERTIES OF THE LOW-MASS ECLIPSING BINARY CM DRACONIS. Astrophysical Journal, 2009, 691, 1400-1411.	4.5	145
137	The Carnegie Astrometric Planet Search Program. Publications of the Astronomical Society of the Pacific, 2009, 121, 1218-1231.	3.1	60
138	Perspective acceleration and gravitational redshift. Measuring masses of individual white dwarfs using Gaia + SIM astrometry. Proceedings of the International Astronomical Union, 2009, 5, 342-344.	0.0	1
139	RELATIVISTIC LIGHT DEFLECTION NEAR GIANT PLANETS USING GAIA ASTROMETRY. , 2008, , .		1
140	Relativistic effects on imaging by a rotating optical system. Astronomy and Astrophysics, 2007, 462, 371-377.	5.1	5
141	Astrometric light-travel time signature of sources in nonlinear motion. Astronomy and Astrophysics, 2006, 449, 1281-1288.	5.1	4
142	Broadcasting astronomical events at the Internet Age. EAS Publications Series, 2005, 16, 121-124.	0.3	0
143	Exploring plausible formation scenarios for the planet candidate orbiting Proxima Centauri. Monthly Notices of the Royal Astronomical Society, 0, , stx169.	4.4	7
144	Stellar activity analysis of Barnardâ€™s Star: Very slow rotation and evidence for long-term activity cycle. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	12

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145	Detecting life outside our solar system with a large high-contrast-imaging mission. Experimental Astronomy, 0, , 1.	3.7	2
146	Enabling the sustainable space era by developing the infrastructure for a space economy. Experimental Astronomy, 0, , 1.	3.7	0