Guillem Anglada-Escud

List of Publications by Year in Descending Order

139 papers	8,836 citations	44 h-index	93 g-index
149 ext. papers	10,764 ext. citations	6.7 avg, IF	5.49 L-index

#	Paper	IF	Citations
139	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. *Science*, **2021**, 371, 1038-1041	33.3	12
138	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	3
137	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2021**, 649, L12	5.1	5
136	Analysis of apsidal motion in eclipsing binaries using TESS data. *Astronomy and Astrophysics*, **2021**, 649, A64	5.1	4
135	Transit detection of the long-period volatile-rich super-Earth Lupi d with CHEOPS. *Nature Astronomy*, **2021**, 5, 775-787	12.1	7
134	Identification and Mitigation of a Vibrational Telescope Systematic with Application to Spitzer. *Planetary Science Journal*, **2021**, 2, 9	2.9	4
133	Auto-correlation functions of astrophysical processes, and their relation to Gaussian processes. *Astronomy and Astrophysics*, **2021**, 645, A58	5.1	6
132	Monitoring the radio emission of Proxima Centauri. *Astronomy and Astrophysics*, **2021**, 645, A77	5.1	11
131	A Small Actively Controlled High-resolution Spectrograph Based on Off-the-shelf Components. *Publications of the Astronomical Society of the Pacific*, **2021**, 133, 025001	5	2
130	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2021**, 653, A49	5.1	3
129	Faint objects in motion: the new frontier of high precision astrometry. *Experimental Astronomy*, **2021**, 51, 845	1.3	3
128	Analysis of apsidal motion in eclipsing binaries using TESS data. *Astronomy and Astrophysics*, **2021**, 654, A17	5.1	6
127	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. *Astronomical Journal*, **2021**, 162, 295	4.9	4
126	HiFLExA Highly Flexible Package to Reduce Cross-dispersed Echelle Spectra. *Publications of the Astronomical Society of the Pacific*, **2020**, 132, 064504	5	5
125	A planet within the debris disk around the pre-main-sequence star AU Microscopii. *Nature*, **2020**, 582, 497-500	50.4	58
124	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	4.3	2
123	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. *Science*, **2020**, 368, 1477-1481	33.3	10

122	A low-mass planet candidate orbiting Proxima Centauri at a distance of 1.5 AU. *Science Advances*, **2020**, 6, eaax7467	14.3	36
121	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2020**, 638, A115	5.1	1
120	Correcting for chromatic stellar activity effects in transits with multiband photometric monitoring: application to WASP-52. *Astronomy and Astrophysics*, **2020**, 641, A82	5.1	9
119	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2020**, 641, A69	5.1	11
118	Transmission spectroscopy and Rossiter-McLaughlin measurements of the young Neptune orbiting AU Mic. *Astronomy and Astrophysics*, **2020**, 643, A25	5.1	19
117	Low-cost precursor of an interstellar mission. *Astronomy and Astrophysics*, **2020**, 641, A45	5.1	2
116	RedDots: a temperate 1.5 Earth-mass planet candidate in a compact multiterrestrial planet system around GJ 1061. *Monthly Notices of the Royal Astronomical Society*, **2020**, 493, 536-550	4.3	16
115	An ablating 2.6 M? planet in an eccentric binary from the Dispersed Matter Planet Project. *Nature Astronomy*, **2020**, 4, 419-426	12.1	11
114	Dispersed Matter Planet Project discoveries of ablating planets orbiting nearby bright stars. *Nature Astronomy*, **2020**, 4, 408-418	12.1	11
113	A compact multi-planet system around a bright nearby star from the Dispersed Matter Planet Project. *Nature Astronomy*, **2020**, 4, 399-407	12.1	6
112	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2020**, 637, A93	5.1	6
111	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2020**, 636, A119	5.1	10
110	LHS 1815b: The First Thick-disk Planet Detected by TESS. *Astronomical Journal*, **2020**, 159, 160	4.9	12
109	He I 10 830 A in the transmission spectrum of HD209458 b. *Astronomy and Astrophysics*, **2019**, 629, A110	5.1	47
108	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. *Science*, **2019**, 365, 1441-1445	33.3	43
107	Proxima Centauri b is not a transiting exoplanet. *Monthly Notices of the Royal Astronomical Society*, **2019**, 487, 268-274	4.3	13
106	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 623, A44	5.1	41
105	Gliese 49: activity evolution and detection of a super-Earth. *Astronomy and Astrophysics*, **2019**, 624, A123	5.1	13

104	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 622, A153	5.1	13
103	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 623, A136	5.1	7
102	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 625, A68	5.1	76
101	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 627, A161	5.1	38
100	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	64
99	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2019**, 627, A49	5.1	55
98	Magnetic fields in M dwarfs from the CARMENES survey. *Astronomy and Astrophysics*, **2019**, 626, A86	5.1	29
97	Stellar activity analysis of Barnard□ Star: Very slow rotation and evidence for long-term activity cycle. *Monthly Notices of the Royal Astronomical Society*, **2019**,	4.3	8
96	EXOhSPEC folded design optimization and performance estimation **2019**,		3
95	EXOhSPEC collimator mechanical design **2019**,		2
94	Highly replicable, low-cost, portable, general-purpose, high-resolution spectrometer with applications in stellar studies and exoplanet science **2019**,		1
93	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. *Astronomy and Astrophysics*, **2019**, 621, A74	5.1	38
92	PEXO: A Global Modeling Framework for Nanosecond Timing, Microarcsecond Astrometry, and □h s□ Radial Velocities. *Astrophysical Journal, Supplement Series*, **2019**, 244, 39	8	10
91	Prospects for detecting the astrometric signature of Barnard□ Star b. *Astronomy and Astrophysics*, **2019**, 623, A10	5.1	3
90	Detection of the nearest Jupiter analogue in radial velocity and astrometry data. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 5002-5016	4.3	23
89	A Reanalysis of the UVES M Dwarf Planet Search Program. *Astronomical Journal*, **2019**, 158, 251	4.9	5
88	Water vapor detection in the transmission spectra of HD 209458 b with the CARMENES NIR channel. *Astronomy and Astrophysics*, **2019**, 630, A53	5.1	31
87	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor **2018**, 1-18		

86	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	4.9	33
85	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared **2018**,		29
84	AD Leonis: Radial Velocity Signal of Stellar Rotation or Spin□Orbit Resonance?. *Astronomical Journal* , **2018**, 155, 192	4.9	8
83	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2018**, 609, A117	5.1	71
82	A candidate super-Earth planet orbiting near the snow line of Barnard's star. *Nature*, **2018**, 563, 365-368	50.4	83
81	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor **2018**, 2627-2644		
80	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2018**, 609, L5	5.1	35
79	The CARMENES search for exoplanets around M dwarfs. *Astronomy and Astrophysics*, **2018**, 612, A49	5.1	118
78	Dynamical Masses of □ndi B and C: Two Massive Brown Dwarfs at the Edge of the Stellar□ubstellar Boundary. *Astrophysical Journal*, **2018**, 865, 28	4.7	29
77	The Anglo-Australian Planet Search. XXV. A Candidate Massive Saturn Analog Orbiting HD 30177. *Astronomical Journal*, **2017**, 153, 167	4.9	34
76	Radial-velocity fitting challenge. *Astronomy and Astrophysics*, **2017**, 598, A133	5.1	73
75	Color Difference Makes a Difference: Four Planet Candidates around □Ceti. *Astronomical Journal*, **2017**, 154, 135	4.9	66
74	A differential least-squares deconvolution method for high precision spectroscopy of stars and exoplanets □. Application to obliquity measurements of HARPS observations of HD189733b. *Monthly Notices of the Royal Astronomical Society*, **2017**, 472, 3467-3473	4.3	19
73	Astrometric Constraints on the Masses of Long-period Gas Giant Planets in the TRAPPIST-1 Planetary System. *Astronomical Journal*, **2017**, 154, 103	4.9	26
72	Exploring plausible formation scenarios for the planet candidate orbiting Proxima Centauri. *Monthly Notices of the Royal Astronomical Society*, **2017**, stx169	4.3	6
71	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	4.3	31
70	Detecting Proxima b□ Atmosphere withJWSTTargeting CO2at 15□m Using a High-pass Spectral Filtering Technique. *Astronomical Journal*, **2017**, 154, 77	4.9	36
69	ALMA Discovery of Dust Belts around Proxima Centauri. *Astrophysical Journal Letters*, **2017**, 850, L6	7.9	48

68	High-cadence spectroscopy of M-dwarfs II. Searching for stellar pulsations with HARPS. *Monthly Notices of the Royal Astronomical Society*, **2017**, 469, 4268-4282	4.3	13
67	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 605, A79	5.1	64
66	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 601, A19	5.1	71
65	NO EVIDENCE FOR ACTIVITY CORRELATIONS IN THE RADIAL VELOCITIES OF KAPTEYN'S STAR. *Astrophysical Journal*, **2016**, 830, 74	4.7	34
64	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	4.7	33
63	A terrestrial planet candidate in a temperate orbit around Proxima Centauri. *Nature*, **2016**, 536, 437-40	50.4	873
62	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	5	10
61	CARMENES: an overview six months after first light **2016**,		49
60	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	4.7	215
59	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	4.3	55
58	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). II. A PUZZLING WHITE DWARF AROUND THE SUN-LIKE STAR HD 11112. *Astrophysical Journal*, **2016**, 831, 177	4.7	4
57	High-cadence spectroscopy of M dwarfs 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	4.3	33
56	State of the Field: Extreme Precision Radial Velocities. *Publications of the Astronomical Society of the Pacific*, **2016**, 128, 066001	5	191
55	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	4.9	53
54	TheGaiamission. *Astronomy and Astrophysics*, **2016**, 595, A1	5.1	2933
53	The habitability of Proxima Centauri b. *Astronomy and Astrophysics*, **2016**, 596, A111	5.1	136
52	GaiaData Release 1. *Astronomy and Astrophysics*, **2016**, 595, A3	5.1	73
51	The habitability of Proxima Centauri b. *Astronomy and Astrophysics*, **2016**, 596, A112	5.1	141

50	Microarcsecond astrometric observatory Theia: from dark matter to compact objects and nearby earths **2016**,		6
49	Benchmarking the power of amateur observatories for TTV exoplanets detection. *Monthly Notices of the Royal Astronomical Society*, **2015**, 450, 3101-3113	4.3	47
48	Exoplanet detection. Comment on "Stellar activity masquerading as planets in the habitable zone of the M dwarf Gliese 581". *Science*, **2015**, 347, 1080	33.3	39
47	A NEW MERGING DOUBLE DEGENERATE BINARY IN THE SOLAR NEIGHBORHOOD. *Astronomical Journal*, **2015**, 149, 176	4.9	15
46	THE KAPTEYN MOVING GROUP IS NOT TIDAL DEBRIS FROM□ENTAURI. *Astrophysical Journal*, **2015**, 808, 103	4.7	14
45	Precise Near-Infrared Radial Velocities. *Proceedings of the International Astronomical Union*, **2015**, 10, 286-287	0.1	
44	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
43	Bayesian search for low-mass planets around nearby M dwarfs □estimates for occurrence rate based on global detectability statistics. *Monthly Notices of the Royal Astronomical Society*, **2014**, 441, 1545-1569	4.3	93
42	GJ 832c: A SUPER-EARTH IN THE HABITABLE ZONE. *Astrophysical Journal*, **2014**, 791, 114	4.7	57
41	Radial velocity studies of cool stars. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2014**, 372, 20130088	3	1
40	Wavelength calibration from 1-5□m for the CRIRES+ high-resolution spectrograph at the VLT **2014**,		5
39	Concept and optical design of the cross-disperser module for CRIRES+ **2014**,		2
38	CRIRES+: a cross-dispersed high-resolution infrared spectrograph for the ESO VLT **2014**,		33
37	Flat-relative optimal extraction. *Astronomy and Astrophysics*, **2014**, 561, A59	5.1	60
36	Precision radial velocities of 15 M5□M9 dwarfs. *Monthly Notices of the Royal Astronomical Society*, **2014**, 439, 3094-3113	4.3	54
35	CARMENES instrument overview **2014**,		103
34	Novel infrared polarimeter for the ESO CRIRES+ instrument **2014**,		1
33	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	4.3	70

32	Habitable-zone super-Earth candidate in a six-planet system around the K2.5V star HD 40307. *Astronomy and Astrophysics*, **2013**, 549, A48	5.1	71
31	A dynamically-packed planetary system around GJ 667C with three super-Earths in its habitable zone. *Astronomy and Astrophysics*, **2013**, 556, A126	5.1	103
30	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	4.7	25
29	Surfing the photon noise: New techniques to find low-mass planets around M dwarfs. *Astronomische Nachrichten*, **2013**, 334, 184-187	0.7	22
28	DISTANCE AND KINEMATICS OF THE TW HYDRAE ASSOCIATION FROM PARALLAXES. *Astrophysical Journal*, **2013**, 762, 118	4.7	86
27	Precision near-infrared radial velocity instrumentation II: noncircular core fiber scrambler **2013**,		11
26	Precision near-infrared radial velocity instrumentation I: absorption gas cells **2013**,		5
25	GJ 1214 reviewed. *Astronomy and Astrophysics*, **2013**, 551, A48	5.1	52
24	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	0.1	
23	Advances in precision Doppler spectroscopy on cool stars. *EPJ Web of Conferences*, **2013**, 47, 05010	0.3	
22	Radial velocity signatures of Zeeman broadening. *Astronomy and Astrophysics*, **2013**, 552, A103	5.1	50
21	Up to four planets around the M dwarf GJ 163. *Astronomy and Astrophysics*, **2013**, 556, A111	5.1	32
20	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	5	28
19	CARMENES. I: instrument and survey overview **2012**,		39
18	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	7.9	118
17	A planetary system with gas giants and super-Earths around the nearby M dwarf GJ 676A. *Astronomy and Astrophysics*, **2012**, 548, A58	5.1	47
16	Habitable Worlds Around M Dwarf Stars: The CAPSCam Astrometric Planet Search. *Proceedings of the International Astronomical Union*, **2012**, 8, 183-188	0.1	1
15	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	8	222

14	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	4.7	56
13	THE BROWN DWARF KINEMATICS PROJECT (BDKP). III. PARALLAXES FOR 70 ULTRACOOL DWARFS. *Astrophysical Journal*, **2012**, 752, 56	4.7	192
12	IDENTIFYING THE YOUNG LOW-MASS STARS WITHIN 25 pc. II. DISTANCES, KINEMATICS, AND GROUP MEMBERSHIP. *Astrophysical Journal*, **2012**, 758, 56	4.7	132
11	Evidence of a massive planet candidate orbiting the young active K5V star BD+20 1790. *Astronomy and Astrophysics*, **2010**, 512, A45	5.1	22
10	HOW ECCENTRIC ORBITAL SOLUTIONS CAN HIDE PLANETARY SYSTEMS IN 2:1 RESONANT ORBITS. *Astrophysical Journal*, **2010**, 709, 168-178	4.7	97
9	STRONG CONSTRAINTS TO THE PUTATIVE PLANET CANDIDATE AROUND VB 10 USING DOPPLER SPECTROSCOPY. *Astrophysical Journal Letters*, **2010**, 711, L24-L29	7.9	32
8	ABSOLUTE PROPERTIES OF THE LOW-MASS ECLIPSING BINARY CM DRACONIS. *Astrophysical Journal*, **2009**, 691, 1400-1411	4.7	132
7	The Carnegie Astrometric Planet Search Program. *Publications of the Astronomical Society of the Pacific*, **2009**, 121, 1218-1231	5	52
6	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	0.1	1
5	Relativistic effects on imaging by a rotating optical system. *Astronomy and Astrophysics*, **2007**, 462, 371-377	5.1	5
4	Astrometric light-travel time signature of sources in nonlinear motion. *Astronomy and Astrophysics*, **2006**, 449, 1281-1288	5.1	4
3	Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (CHEOPS) using pycheops. *Monthly Notices of the Royal Astronomical Society*,	4.3	2
2	Detecting life outside our solar system with a large high-contrast-imaging mission. *Experimental Astronomy*,1	1.3	
1	Enabling the sustainable space era by developing the infrastructure for a space economy. *Experimental Astronomy*,1	1.3	