Guillem Anglada-Escudé

List of Publications by Year in descending order

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146 papers 12,393 citations

45 h-index 27406 106 g-index

149 all docs

149 docs citations

149 times ranked 8472 citing authors

#	Article	IF	Citations
1	The < i > Gaia < /i > mission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
2	A terrestrial planet candidate in a temperate orbit around Proxima Centauri. Nature, 2016, 536, 437-440.	27.8	1,033
3	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
4	State of the Field: Extreme Precision Radial Velocities. Publications of the Astronomical Society of the Pacific, 2016, 128, 066001.	3.1	253
5	THE BROWN DWARF KINEMATICS PROJECT (BDKP). III. PARALLAXES FOR 70 ULTRACOOL DWARFS. Astrophysical Journal, 2012, 752, 56.	4.5	225
6	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
7	The habitability of Proxima Centauri b. Astronomy and Astrophysics, 2016, 596, A112.	5.1	191
8	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 612, A49.	5.1	173
9	The habitability of Proxima Centauri b. Astronomy and Astrophysics, 2016, 596, A111.	5.1	165
10	ABSOLUTE PROPERTIES OF THE LOW-MASS ECLIPSING BINARY CM DRACONIS. Astrophysical Journal, 2009, 691, 1400-1411.	4.5	145
11	A planet within the debris disk around the pre-main-sequence star AU Microscopii. Nature, 2020, 582, 497-500.	27.8	145
12	IDENTIFYING THE YOUNG LOW-MASS STARS WITHIN 25 pc. II. DISTANCES, KINEMATICS, AND GROUP MEMBERSHIP. Astrophysical Journal, 2012, 758, 56.	4.5	143
13	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
14	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
15	CARMENES instrument overview. Proceedings of SPIE, 2014, , .	0.8	132
16	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.	4.4	124
17	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 625, A68.	5.1	123
18	HOW ECCENTRIC ORBITAL SOLUTIONS CAN HIDE PLANETARY SYSTEMS IN 2:1 RESONANT ORBITS. Astrophysical Journal, 2010, 709, 168-178.	4.5	119

#	Article	IF	Citations
19	A candidate super-Earth planet orbiting near the snow line of Barnard's star. Nature, 2018, 563, 365-368.	27.8	109
20	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, A117.	5.1	103
21	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
22	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A49.	5.1	95
23	DISTANCE AND KINEMATICS OF THE TW HYDRAE ASSOCIATION FROM PARALLAXES. Astrophysical Journal, 2013, 762, 118.	4.5	93
24	Flat-relative optimal extraction. Astronomy and Astrophysics, 2014, 561, A59.	5.1	91
25	Color Difference Makes a Difference: Four Planet Candidates around Ï,, Ceti. Astronomical Journal, 2017, 154, 135.	4.7	91
26	Radial-velocity fitting challenge. Astronomy and Astrophysics, 2017, 598, A133.	5.1	87
27	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
28	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A3.	5.1	85
29	Heâ€T <i>λ</i> 10 830 â"« in the transmission spectrum of HD209458 b. Astronomy and Astrophysics, 2019, Al10.	629, 5.1	81
30	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
31	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. Science, 2019, 365, 1441-1445.	12.6	78
32	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
33	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
34	GJ 832c: A SUPER-EARTH IN THE HABITABLE ZONE. Astrophysical Journal, 2014, 791, 114.	4.5	72
35	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A44.	5.1	70
36	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

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37	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
38	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
39	Magnetic fields in M dwarfs from the CARMENES survey. Astronomy and Astrophysics, 2019, 626, A86.	5.1	63
40	Radial velocity signatures of Zeeman broadening. Astronomy and Astrophysics, 2013, 552, A103.	5.1	63
41	Precision radial velocities of 15 M5–M9 dwarfs. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3094-3113.	4.4	61
42	Benchmarking the power of amateur observatories for TTV exoplanets detection. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3101-3113.	4.4	61
43	The Carnegie Astrometric Planet Search Program. Publications of the Astronomical Society of the Pacific, 2009, 121, 1218-1231.	3.1	60
44	CARMENES: an overview six months after first light. Proceedings of SPIE, 2016, , .	0.8	59
45	ALMA Discovery of Dust Belts around Proxima Centauri. Astrophysical Journal Letters, 2017, 850, L6.	8.3	59
46	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A161.	5.1	58
47	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. Astronomy and Astrophysics, 2019, 621, A74.	5.1	57
48	A low-mass planet candidate orbiting Proxima Centauri at a distance of 1.5 AU. Science Advances, 2020, 6, eaax7467.	10.3	57
49	GJ 1214 reviewed. Astronomy and Astrophysics, 2013, 551, A48.	5.1	54
50	Transit detection of the long-period volatile-rich super-Earth $\hat{l}\frac{1}{2}$ 2 Lupi d with CHEOPS. Nature Astronomy, 2021, 5, 775-787.	10.1	51
51	A planetary system with gas giants and super-Earths around the nearby M dwarf GJ 676A. Astronomy and Astrophysics, 2012, 548, A58.	5.1	49
52	Detecting Proxima b's Atmosphere with JWST Targeting CO ₂ at 15 Î⅓m Using a High-pass Spectral Filtering Technique. Astronomical Journal, 2017, 154, 77.	4.7	48
53	Comment on "Stellar activity masquerading as planets in the habitable zone of the M dwarf Gliese 581― Science, 2015, 347, 1080-1080.	12.6	47
54	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, L5.	5.1	46

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55	Dynamical Masses of Îμ Indi B and C: Two Massive Brown Dwarfs at the Edge of the Stellar–substellar Boundary. Astrophysical Journal, 2018, 865, 28.	4.5	45
56	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
57	NO EVIDENCE FOR ACTIVITY CORRELATIONS IN THE RADIAL VELOCITIES OF KAPTEYN'S STAR. Astrophysical Journal, 2016, 830, 74.	4.5	44
58	CARMENES. I: instrument and survey overview. Proceedings of SPIE, 2012, , .	0.8	43
59	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
60	CRIRES+: a cross-dispersed high-resolution infrared spectrograph for the ESO VLT. Proceedings of SPIE, 2014, , .	0.8	42
61	The Anglo-Australian Planet Search. XXV. A Candidate Massive Saturn Analog Orbiting HD 30177. Astronomical Journal, 2017, 153, 167.	4.7	42
62	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
63	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. Science, 2021, 371, 1038-1041.	12.6	41
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.	4.5	40
65	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.	4.4	39
66	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
67	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
68	Analysis of Early Science observations with the CHaracterising ExOPlanets Satellite (<i>CHEOPS</i>) using <scp>pycheops</scp> . Monthly Notices of the Royal Astronomical Society, 2022, 514, 77-104.	4.4	38
69	STRONG CONSTRAINTS TO THE PUTATIVE PLANET CANDIDATE AROUND VB 10 USING DOPPLER SPECTROSCOPY. Astrophysical Journal Letters, 2010, 711, L24-L29.	8.3	37
70	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared., 2018,,.		37
71	Up to four planets around the M dwarf GJ 163. Astronomy and Astrophysics, 2013, 556, A111.	5.1	36
72	Design and Construction of Absorption Cells for Precision Radial Velocities in the <i>K</i> Band Using Methane Isotopologues. Publications of the Astronomical Society of the Pacific, 2012, 124, 586-597.	3.1	35

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7 3	Monitoring the radio emission of Proxima Centauri. Astronomy and Astrophysics, 2021, 645, A77.	5.1	34
74	Transmission spectroscopy and Rossiter-McLaughlin measurements of the young Neptune orbiting AU Mic. Astronomy and Astrophysics, 2020, 643, A25.	5.1	34
75	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.	4.4	34
76	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 641, A69.	5.1	33
77	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
78	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
79	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. Science, 2020, 368, 1477-1481.	12.6	27
80	Surfing the photon noise: New techniques to find lowâ€mass planets around M dwarfs. Astronomische Nachrichten, 2013, 334, 184-187.	1.2	26
81	A differential least-squares deconvolution method for high precision spectroscopy of stars and exoplanets $\hat{a}\in$ 1. Application to obliquity measurements of HARPS observations of HD189733b. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3467-3473.	4.4	24
82	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 636, A119.	5.1	24
83	LHS 1815b: The First Thick-disk Planet Detected by TESS. Astronomical Journal, 2020, 159, 160.	4.7	23
84	Evidence of a massive planet candidate orbiting the young active K5V star BD+20 1790. Astronomy and Astrophysics, 2010, 512, A45.	5.1	22
85	Auto-correlation functions of astrophysical processes, and their relation to Gaussian processes. Astronomy and Astrophysics, 2021, 645, A58.	5.1	22
86	Proxima Centauri b is not a transiting exoplanet. Monthly Notices of the Royal Astronomical Society, 2019, 487, 268-274.	4.4	21
87	THE KAPTEYN MOVING GROUP IS NOT TIDAL DEBRIS FROM <i>i">"(i)">"CENTAURI. Astrophysical Journal, 2015, 808, 103.</i>	4.5	19
88	AD Leonis: Radial Velocity Signal of Stellar Rotation or Spin–Orbit Resonance?. Astronomical Journal, 2018, 155, 192.	4.7	19
89	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
90	Analysis of apsidal motion in eclipsing binaries using TESS data. Astronomy and Astrophysics, 2021, 654, A17.	5.1	19

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91	Gliese 49: activity evolution and detection of a super-Earth. Astronomy and Astrophysics, 2019, 624, A123.	5.1	18
92	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 622, A153.	5.1	18
93	A NEW MERGING DOUBLE DEGENERATE BINARY IN THE SOLAR NEIGHBORHOOD. Astronomical Journal, 2015, 149, 176.	4.7	17
94	Faint objects in motion: the new frontier of high precision astrometry. Experimental Astronomy, 2021, 51, 845-886.	3.7	17
95	High-cadence spectroscopy of M-dwarfs – II. Searching for stellar pulsations with HARPS. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4268-4282.	4.4	16
96	An ablating 2.6 M⊕ planet in an eccentric binary from the Dispersed Matter Planet Project. Nature Astronomy, 2020, 4, 419-426.	10.1	16
97	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
98	PEXO: A Global Modeling Framework for Nanosecond Timing, Microarcsecond Astrometry, and \hat{l}^4 m s ^{$\hat{a}^2$1} Radial Velocities. Astrophysical Journal, Supplement Series, 2019, 244, 39.	7.7	15
99	Precision near-infrared radial velocity instrumentation II: noncircular core fiber scrambler. Proceedings of SPIE, 2013, , .	0.8	14
100	Dispersed Matter Planet Project discoveries of ablating planets orbiting nearby bright stars. Nature Astronomy, 2020, 4, 408-418.	10.1	14
101	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
102	Stellar activity analysis of Barnard's Star: Very slow rotation and evidence for long-term activity cycle. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	12
103	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 637, A93.	5.1	12
104	Analysis of apsidal motion in eclipsing binaries using TESS data. Astronomy and Astrophysics, 2021, 649, A64.	5.1	12
105	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 653, A49.	5.1	11
106	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 649, L12.	5.1	10
107	Low-cost precursor of an interstellar mission. Astronomy and Astrophysics, 2020, 641, A45.	5.1	10
108	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A136.	5.1	9

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109	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
110	Microarcsecond astrometric observatory Theia: from dark matter to compact objects and nearby earths. , 2016, , .		8
111	Exploring plausible formation scenarios for the planet candidate orbiting Proxima Centauri. Monthly Notices of the Royal Astronomical Society, 0, , stx169.	4.4	7
112	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2022, 663, A68.	5.1	7
113	Precision near-infrared radial velocity instrumentation I: absorption gas cells. Proceedings of SPIE, 2013, , .	0.8	6
114	Wavelength calibration from 1-51½m for the CRIRES+ high-resolution spectrograph at the VLT. Proceedings of SPIE, 2014, , .	0.8	6
115	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
116	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
117	Relativistic effects on imaging by a rotating optical system. Astronomy and Astrophysics, 2007, 462, 371-377.	5.1	5
118	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
119	A Reanalysis of the UVES M Dwarf Planet Search Program*. Astronomical Journal, 2019, 158, 251.	4.7	5
120	Identification and Mitigation of a Vibrational Telescope Systematic with Application to Spitzer. Planetary Science Journal, 2021, 2, 9.	3.6	5
121	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 638, A115.	5.1	5
122	Prospects for detecting the astrometric signature of Barnard's Star b. Astronomy and Astrophysics, 2019, 623, A10.	5.1	4
123	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
124	Astrometric light-travel time signature of sources in nonlinear motion. Astronomy and Astrophysics, 2006, 449, 1281-1288.	5.1	4
125	Concept and optical design of the cross-disperser module for CRIRES+. Proceedings of SPIE, 2014, , .	0.8	3
126	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

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127	EXOhSPEC folded design optimization and performance estimation. , 2019, , .		3
128	Novel infrared polarimeter for the ESO CRIRES+ instrument. Proceedings of SPIE, 2014, , .	0.8	2
129	EXOhSPEC collimator mechanical design. , 2019, , .		2
130	Detecting life outside our solar system with a large high-contrast-imaging mission. Experimental Astronomy, 0 , , 1 .	3.7	2
131	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
132	Habitable Worlds Around M Dwarf Stars: The CAPSCam Astrometric Planet Search. Proceedings of the International Astronomical Union, 2012, 8, 183-188.	0.0	1
133	Radial velocity studies of cool stars. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130088.	3.4	1
134	Highly replicable, low-cost, portable, general-purpose, high-resolution spectrometer with applications in stellar studies and exoplanet science. , 2019, , .		1
135	RELATIVISTIC LIGHT DEFLECTION NEAR GIANT PLANETS USING GAIA ASTROMETRY., 2008,,.		1
136	Very accurate cryogenic mechanisms for CRIRES+., 2018,,.		1
137	Broadcasting astronomical events at the Internet Age. EAS Publications Series, 2005, 16, 121-124.	0.3	O
138	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	О
139	Advances in precision Doppler spectroscopy on cool stars. EPJ Web of Conferences, 2013, 47, 05010.	0.3	O
140	Opto-mechanical design of a new cross dispersion unit for the CRIRES+ high resolution spectrograph for the VLT. , 2014, , .		O
141	Precise Near-Infrared Radial Velocities. Proceedings of the International Astronomical Union, 2015, 10, 286-287.	0.0	O
142	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor. , 2018, , $1\text{-}18$.		0
143	Proxima b: The Detection of the Earth-Type Planet Candidate Orbiting Our Closest Neighbor. , 2018, , 2627-2644.		0
144	And the Oscar Goes to: BD+20 1790 for "The Mystery of the Unseen Companion". Thirty Years of Astronomical Discovery With UKIRT, 2010, , 413-413.	0.3	0

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:	145	Proxima-b., 2022, , 1-2.		0
=	146	Enabling the sustainable space era by developing the infrastructure for a space economy. Experimental Astronomy, 0, , 1.	3.7	0