

# Rafael Luque

## List of Publications by Year in descending order

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77  
papers

2,055  
citations

218677

26  
h-index

276875

41  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1902  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	5.1	173
2	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	5.1	103
3	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. <i>Astronomy and Astrophysics</i> , 2019, 628, A39.	5.1	97
4	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	5.1	95
5	TESS's first planet. <i>Astronomy and Astrophysics</i> , 2018, 619, L10.	5.1	86
6	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	12.6	78
7	Is there Na in the atmosphere of HD 209458b?. <i>Astronomy and Astrophysics</i> , 2020, 635, A206.	5.1	47
8	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A173.	5.1	47
9	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, L5.	5.1	46
10	Radial velocity confirmation of K2-100b: a young, highly irradiated, and low-density transiting hot Neptune. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 698-708.	4.4	46
11	Multicolour photometry for exoplanet candidate validation. <i>Astronomy and Astrophysics</i> , 2019, 630, A89.	5.1	41
12	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. <i>Science</i> , 2021, 371, 1038-1041.	12.6	41
13	Masses and compositions of three small planets orbiting the nearby M dwarf L231-32 (TOI-270) and the M dwarf radius valley. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	41
14	Rapid contraction of giant planets orbiting the 20-million-year-old star V1298 Tau. <i>Nature Astronomy</i> , 2022, 6, 232-240.	10.1	40
15	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 618, A115.	5.1	37
16	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
17	Transmission spectroscopy and Rossiter-McLaughlin measurements of the young Neptune orbiting AU Mic. <i>Astronomy and Astrophysics</i> , 2020, 643, A25.	5.1	34
18	Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap?. <i>Astronomy and Astrophysics</i> , 2020, 639, A132.	5.1	33

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19	A planetary system with two transiting mini-Neptunes near the radius valley transition around the bright M dwarf TOI-776. <i>Astronomy and Astrophysics</i> , 2021, 645, A41.	5.1	33
20	Powerful outflows in the central parsecs of the low-luminosity active galactic nucleus NGC 1386. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2845-2860.	4.4	31
21	GJ 367b: A dense, ultrashort-period sub-Earth planet transiting a nearby red dwarf star. <i>Science</i> , 2021, 374, 1271-1275.	12.6	30
22	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with <i>CHEOPS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1043-1071.	4.4	30
23	The Transiting Multi-planet System HD15337: Two Nearly Equal-mass Planets Straddling the Radius Gap. <i>Astrophysical Journal Letters</i> , 2019, 876, L24.	8.3	29
24	HD 219666 b: a hot-Neptune from TESS Sector 1. <i>Astronomy and Astrophysics</i> , 2019, 623, A165.	5.1	29
25	TOI-503: The First Known Brown-dwarf Am-star Binary from the TESS Mission*. <i>Astronomical Journal</i> , 2020, 159, 151.	4.7	29
26	CARMENES detection of the Ca II infrared triplet and possible evidence of He I in the atmosphere of WASP-76b. <i>Astronomy and Astrophysics</i> , 2021, 654, A163.	5.1	29
27	MuSCAT2 multicolour validation of TESS candidates: an ultra-short-period substellar object around an M dwarf. <i>Astronomy and Astrophysics</i> , 2020, 633, A28.	5.1	28
28	Mass determinations of the three mini-Neptunes transiting TOI-125. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5399-5412.	4.4	28
29	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). <i>Astronomy and Astrophysics</i> , 2020, 642, A236.	5.1	27
30	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. <i>Science</i> , 2020, 368, 1477-1481.	12.6	27
31	An ultra-short-period transiting super-Earth orbiting the M3 dwarf TOI-1685. <i>Astronomy and Astrophysics</i> , 2021, 650, A78.	5.1	27
32	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	5.1	27
33	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 620, A171.	5.1	26
34	TESS Reveals a Short-period Sub-Neptune Sibling (HD 86226c) to a Known Long-period Giant Planet*. <i>Astronomical Journal</i> , 2020, 160, 96.	4.7	25
35	HATS-74Ab, HATS-75b, HATS-76b, and HATS-77b: Four Transiting Giant Planets Around K and M Dwarfs*. <i>Astronomical Journal</i> , 2022, 163, 125.	4.7	24
36	LHS 1815b: The First Thick-disk Planet Detected by TESS. <i>Astronomical Journal</i> , 2020, 159, 160.	4.7	23

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37	TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf. <i>Astronomy and Astrophysics</i> , 2021, 656, A124.	5.1	22
38	Mass determination of the 1:3:5 near-resonant planets transiting GJ 9827 (K2-135). <i>Astronomy and Astrophysics</i> , 2018, 618, A116.	5.1	21
39	Greening of the brown-dwarf desert. <i>Astronomy and Astrophysics</i> , 2019, 628, A64.	5.1	19
40	Kojima-1Lb Is a Mildly Cold Neptune around the Brightest Microlensing Host Star. <i>Astronomical Journal</i> , 2019, 158, 206.	4.7	18
41	TOI-519 b: A short-period substellar object around an M dwarf validated using multicolour photometry and phase curve analysis. <i>Astronomy and Astrophysics</i> , 2021, 645, A16.	5.1	18
42	K2-290: a warm Jupiter and a mini-Neptune in a triple-star system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3522-3536.	4.4	17
43	The Multiplanet System TOI-421: A Warm Neptune and a Super Puffy Mini-Neptune Transiting a G9 V Star in a Visual Binary*. <i>Astronomical Journal</i> , 2020, 160, 114.	4.7	17
44	37 new validated planets in overlapping <i>K2</i> campaigns. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 195-218.	4.4	15
45	Detection of Na in WASP-21b's lower and upper atmosphere. <i>Astronomy and Astrophysics</i> , 2020, 642, A54.	5.1	15
46	An enhanced slope in the transmission spectrum of the hot Jupiter WASP-104b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5420-5435.	4.4	15
47	The TOI-763 system: sub-Neptunes orbiting a Sun-like star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4503-4517.	4.4	14
48	It Takes Two Planets in Resonance to Tango around K2-146. <i>Astronomical Journal</i> , 2020, 159, 120.	4.7	14
49	Obliquity measurement and atmospheric characterisation of the WASP-74 planetary system. <i>Astronomy and Astrophysics</i> , 2020, 642, A50.	5.1	14
50	Detection and Doppler monitoring of K2-285 (EPIC 246471491), a system of four transiting planets smaller than Neptune. <i>Astronomy and Astrophysics</i> , 2019, 623, A41.	5.1	13
51	ESPRESSO mass determination of TOI-263b: an extreme inhabitant of the brown dwarf desert. <i>Astronomy and Astrophysics</i> , 2021, 650, A55.	5.1	12
52	The obliquity and atmosphere of the ultra-hot Jupiter TOI-1431b (MASCARA-5b): A misaligned orbit and no signs of atomic or molecular absorptions. <i>Astronomy and Astrophysics</i> , 2021, 654, A73.	5.1	12
53	TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935. <i>Astronomical Journal</i> , 2021, 162, 215.	4.7	12
54	Detection and characterization of an ultra-dense sub-Neptunian planet orbiting the Sun-like star K2-292. <i>Astronomy and Astrophysics</i> , 2019, 623, A114.	5.1	11

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55	Is the orbit of the exoplanet WASP-43b really decaying? <i>TESS</i> and MuSCAT2 observations confirm no detection. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5514-5523.	4.4	11
56	TOI-1431b/MASCARA-5b: A Highly Irradiated Ultrahot Jupiter Orbiting One of the Hottest and Brightest Known Exoplanet Host Stars. Astronomical Journal, 2021, 162, 292.	4.7	11
57	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. Astronomical Journal, 2022, 163, 133.	4.7	10
58	Hot planets around cool stars â€“ two short-period mini-Neptunes transiting the late K-dwarf TOI-1260. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4684-4701.	4.4	9
59	Three planets transiting the evolved star EPIC 249893012: a hot 8.8- <i>M</i> super-Earth and two warm 14.7 and 10.2- <i>M</i> sub-Neptunes. Astronomy and Astrophysics, 2020, 636, A89.	5.1	9
60	Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b. Astronomy and Astrophysics, 2022, 659, A17.	5.1	9
61	A low-eccentricity migration pathway for a 13-h-period Earth analogue in a four-planet system. Nature Astronomy, 2022, 6, 736-750.	10.1	9
62	TOI-1670 b and c: An Inner Sub-Neptune with an Outer Warm Jupiter Unlikely to Have Originated from High-eccentricity Migration. Astronomical Journal, 2022, 163, 225.	4.7	8
63	Precise radial velocities of giant stars. Astronomy and Astrophysics, 2019, 631, A136.	5.1	7
64	A multi-planetary system orbiting the early-M dwarf TOI-1238. Astronomy and Astrophysics, 2022, 658, A138.	5.1	7
65	A Radial Velocity Study of the Planetary System of Î€ Mensae: Improved Planet Parameters for Î€ Mensae c and a Third Planet on a 125 Day Orbit. Astronomical Journal, 2022, 163, 223.	4.7	7
66	The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOIâ€“1246. Astronomical Journal, 2022, 163, 293.	4.7	7
67	TOI-220â€“b: a warm sub-Neptune discovered by<i>TESS</i>. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3361-3379.	4.4	6
68	TOI-1749: an M dwarf with a Trio of Planets including a Near-resonant Pair. Astronomical Journal, 2021, 162, 167.	4.7	6
69	Simultaneous photometric and CARMENES spectroscopic monitoring of fast-rotating M dwarf GJ 3270. Astronomy and Astrophysics, 2021, 651, A105.	5.1	5
70	TOI-2285b: A 1.7 Earth-radius planet near the habitable zone around a nearby M dwarf. Publication of the Astronomical Society of Japan, 2022, 74, L1-L8.	2.5	5
71	HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star. Astronomy and Astrophysics, 2022, 658, A176.	5.1	5
72	Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf. Astronomical Journal, 2021, 162, 238.	4.7	5

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73	The Habitability of GJ 357D: Possible Climate and Observability. <i>Astrophysical Journal Letters</i> , 2019, 883, L40.	8.3	4
74	TOI-1268b: The youngest hot Saturn-mass transiting exoplanet. <i>Astronomy and Astrophysics</i> , 2022, 662, A107.	5.1	4
75	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
76	Red swamp crayfish collecting: a risk activity for leptospirosis. <i>Clinical Microbiology and Infection</i> , 2020, 26, 1103-1104.	6.0	2
77	K2-280â€‰b â€‰ a low density warm sub-Saturn around a mildly evolved star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4423-4435.	4.4	2