Luis Manuel Sarro

List of Publications by Year
in descending order

88 papers	19,809 citations	101543 36 h-index	60623 81 g-index
91 all docs	91 docs citations	91 times ranked	11338 citing authors

#	Article	IF	Citations
1	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	5.1	6,364
2	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
3	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A1.	5.1	2,429
4	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
5	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	5.1	638
6	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A9.	5.1	564
7	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
8	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
9	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A6.	5.1	175
10	Gaia Data Release 2. Astronomy and Astrophysics, 2019, 622, A60.	5.1	159
11	Automated supervised classification of variable stars. Astronomy and Astrophysics, 2007, 475, 1159-1183.	5.1	151
12	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	5.1	140
13	Random forest automated supervised classification of Hipparcos periodic variable stars. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2602-2617.	4.4	134
14	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 618, A30.	5.1	117
15	TheGaiaastrophysical parameters inference system (Apsis). Astronomy and Astrophysics, 2013, 559, A74.	5.1	115
16	GaiaData Release 2. Astronomy and Astrophysics, 2019, 623, A110.	5.1	101
17	RR Lyrae stars as standard candles in the Gaia Data Release 2 Era. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1195-1211.	4.4	100
18	Structure and kinematics of the Taurus star-forming region from Gaia-DR2 and VLBI astrometry. Astronomy and Astrophysics, 2019, 630, A137.	5.1	86

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19	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A7.	5.1	84
20	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A13.	5.1	78
21	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
22	Automated supervised classification of variable stars in the CoRoT programme. Astronomy and Astrophysics, 2009, 506, 519-534.	5.1	77
23	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
24	Cluster membership probabilities from proper motions and multi-wavelength photometric catalogues. Astronomy and Astrophysics, 2014, 563, A45.	5.1	68
25	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 618, A58.	5.1	66
26	Cygnus OB2 DANCe: A high-precision proper motion study of the Cygnus OB2 association. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2593-2610.	4.4	65
27	The Seven Sisters DANCe. Astronomy and Astrophysics, 2015, 577, A148.	5.1	61
28	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A133.	5.1	60
29	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A8.	5.1	60
30	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A9.	5.1	55
31	Orion revisited. Astronomy and Astrophysics, 2014, 564, A29.	5.1	50
32	The Gaia ultracool dwarf sample â€“ I. Known L and T dwarfs and the first Gaia data release. Monthly Notices of the Royal Astronomical Society, 2017, 469, 401-415.	4.4	44
33	A rich population of free-floating planets in the Upper Scorpius young stellar association. Nature Astronomy, 2022, 6, 89-97.	10.1	41
34	Corona-Australis DANCe. Astronomy and Astrophysics, 2020, 634, A98.	5.1	39
35	Automated supervised classification of variable stars. Astronomy and Astrophysics, 2009, 494, 739-768.	5.1	39
36	CoRoT light curves of RR Lyrae stars. Astronomy and Astrophysics, 2010, 520, A108.	5.1	36

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37	Automated classification of Hipparcos unsolved variables. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2917-2937.	4.4	36
38	The GaiaÂultracool dwarf sample â€“ II. Structure at the end of the main sequence. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4423-4440.	4.4	36
39	Gaia Data Release 2. Astronomy and Astrophysics, 2019, 625, A97.	5.1	35
40	Lupus DANCe. Astronomy and Astrophysics, 2020, 643, A148.	5.1	34
41	Improved methodology for the automated classification of periodic variable stars. Monthly Notices of the Royal Astronomical Society, 2011, 418, 96-106.	4.4	31
42	Ruprecht 147 DANCe. Astronomy and Astrophysics, 2019, 625, A115.	5.1	28
43	Chamaeleon DANCe. Astronomy and Astrophysics, 2021, 646, A46.	5.1	26
44	Modeling protoplanetary disk SEDs with artificial neural networks. Astronomy and Astrophysics, 2020, 642, A171.	5.1	25
45	Improved variability classification of CoRoT targets with Giraffe spectra. Astronomy and Astrophysics, 2013, 550, A120.	5.1	20
46	Kalkayotl: A cluster distance inference code. Astronomy and Astrophysics, 2020, 644, A7.	5.1	20
47	The seven sisters DANCe. Astronomy and Astrophysics, 2018, 617, A15.	5.1	19
48	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 642, A22.	5.1	19
49	Comparative clustering analysis of variable stars in the Hipparcos, OGLE Large Magellanic Cloud, and CoRoT exoplanet databases. Astronomy and Astrophysics, 2009, 506, 535-568.	5.1	17
50	The seven sisters DANCe. Astronomy and Astrophysics, 2016, 596, A113.	5.1	16
51	Messier 35 (NGC 2168) DANCe. Astronomy and Astrophysics, 2015, 575, A120.	5.1	14
52	VSOP: the variable star one-shot project. Astronomy and Astrophysics, 2007, 470, 1201-1214.	5.1	12
53	Orion revisited. Astronomy and Astrophysics, 2017, 598, A124.	5.1	12
54	Estimates of the atmospheric parameters of M-type stars: a machine-learning perspective. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1120-1139.	4.4	12

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55	Properties of ultra-cool dwarfs withGaia. Astronomy and Astrophysics, 2013, 550, A44.	5.1	12
56	Automatic classification of eclipsing binaries light curves using neural networks. Astronomy and Astrophysics, 2006, 446, 395-402.	5.1	11
57	IC 4665 DANCe. Astronomy and Astrophysics, 2019, 631, A57.	5.1	10
58	Ï‡¹ Fornacis cluster DANCe. Astronomy and Astrophysics, 2021, 654, A122.	5.1	10
59	Improving cross-identification of galaxies using their photometry. Astronomy and Astrophysics, 2014, 563, A14.	5.1	8
60	The seven sisters DANCe. Astronomy and Astrophysics, 2018, 612, A70.	5.1	8
61	New LZ and PW(Z) relations of RR Lyrae stars calibrated withGaiaEDR3 parallaxes. Monthly Notices of the Royal Astronomical Society, 2022, 513, 788-806.	4.4	7
62	Hierarchical Bayesian model to inferPL(Z)relations usingGaiaparallaxes. Astronomy and Astrophysics, 2019, 623, A156.	5.1	6
63	The GaiaÂUltra-Cool Dwarf Sample â€“ III: seven new multiple systems containing at least one GaiaÂDR2 ultracool dwarf.. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4891-4906.	4.4	6
64	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 642, C1.	5.1	6
65	The photosphere and chromosphere of the RS Canum Venaticorum star, IIÂPegasi. Astronomy and Astrophysics, 1998, 127, 505-519.	2.1	6
66	Optical flaring on RS CVn stars: the case of II Peg in 1992 September. Monthly Notices of the Royal Astronomical Society, 1994, 270, 427-430.	4.4	4
67	Evaluation of data compression techniques for the inference of stellar atmospheric parameters from high-resolution spectra. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4556-4571.	4.4	4
68	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 637, C3.	5.1	4
69	Stellar dating using chemical clocks and Bayesian inference. Astronomy and Astrophysics, 2022, 660, A15.	5.1	4
70	Characterization of dendrites as nonlinear computation devices. Neurocomputing, 2004, 58-60, 581-586.	5.9	3
71	Variability type classification of multi-epoch surveys. , 2008, , .		3
72	Statistical techniques for the detection and analysis of solar explosive events. Astronomy and Astrophysics, 2011, 528, A62.	5.1	3

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73	Enabling data science in the Gaia mission archive: The present-day mass function and age distribution. Astronomy and Computing, 2017, 19, 1-15.	1.7	3
74	Miec: A Bayesian hierarchical model for the analysis of nearby young open clusters. Astronomy and Astrophysics, 2021, 649, A159.	5.1	3
75	The Variability Processing and Analysis of the Gaia mission. EAS Publications Series, 2014, 67-68, 75-78.	0.3	3
76	First Steps towards an Ontology for Astrophysics. Lecture Notes in Computer Science, 2003, , 1389-1395.	1.3	2
77	Searching for Periodic Variables in the <scp>EROS-2</scp> Database. Proceedings of the International Astronomical Union, 2011, 7, 309-311.	0.0	1
78	Classification of variable stars in the WFCAM Transit Survey. EPJ Web of Conferences, 2013, 47, 01007.	0.3	1
79	Hierarchical Bayesian approach for estimating physical properties in spiral galaxies: Age Maps for M74. Journal of Physics: Conference Series, 2015, 633, 012140.	0.4	1
80	Feature Selection Applied to Data from the Sloan Digital Sky Survey. Lecture Notes in Computer Science, 2010, , 611-620.	1.3	1
81	Feature selection in SUMER spatial spectra using wavelet decomposition and ICA. , 2008, , .		0
82	Methodology for Automated Supervised Classification of Light Curves in the CoRoT Exoplanet Database. , 2008, , .		0
83	Characterization and parameter determination of CoRoT variable stars with FLAMES. , 2009, , .		0
84	Astronomical Knowledge Discovery of Very Faint Galaxies. Procedia Computer Science, 2018, 140, 367-375.	2.0	0
85	ANN based tools in Astrophysics. Prospects and first results for GOA and the AVO. Lecture Notes in Computer Science, 2003, , 631-638.	1.3	0
86	The LAEX and NASA portals for CoRoT public data. Astronomy and Astrophysics, 2009, 506, 455-463.	5.1	0
87	Data Mining Projects, Discoveries and Statistics in Large Astronomical Archives: The Astrostatistics Group of the Spanish Virtual Observatory. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 541-541.	0.3	0
88	Bayesian Unbiasing of the Gaia Space Mission Time Series Database. Lecture Notes in Computer Science, 2017, , 299-311.	1.3	0