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	Stellar dating using chemical clocks and Bayesian inference. Astronomy and Astrophysics, 2022, 660, A15.	5.1	4
2	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
3	A rich population of free-floating planets in the Upper Scorpius young stellar association. Nature Astronomy, 2022, 6, 89-97.	10.1	41
4	Chamaeleon DANCe. Astronomy and Astrophysics, 2021, 646, A46.	5.1	26
5	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A6.	5.1	175
6	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A9.	5.1	55
7	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A8.	5.1	60
8	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A7.	5.1	84
9	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A1.	5.1	2,429
10	Miec: A Bayesian hierarchical model for the analysis of nearby young open clusters. Astronomy and Astrophysics, 2021, 649, A159.	5.1	3
11	Ï‡¹ Fornacis cluster DANCe. Astronomy and Astrophysics, 2021, 654, A122.	5.1	10
12	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
13	Corona-Australis DANCe. Astronomy and Astrophysics, 2020, 634, A98.	5.1	39
14	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 637, C3.	5.1	4
15	Kalkayotl: A cluster distance inference code. Astronomy and Astrophysics, 2020, 644, A7.	5.1	20
16	Modeling protoplanetary disk SEDs with artificial neural networks. Astronomy and Astrophysics, 2020, 642, A171.	5.1	25
17	Lupus DANCe. Astronomy and Astrophysics, 2020, 643, A148.	5.1	34
18	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 642, A22.	5.1	19

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19	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 642, C1.	5.1	6
20	Structure and kinematics of the Taurus star-forming region from Gaia-DR2 and VLBI astrometry. Astronomy and Astrophysics, 2019, 630, A137.	5.1	86
21	Gaia Data Release 2. Astronomy and Astrophysics, 2019, 622, A60.	5.1	159
22	Gaia Data Release 2. Astronomy and Astrophysics, 2019, 625, A97.	5.1	35
23	GaiaData Release 2. Astronomy and Astrophysics, 2019, 623, A110.	5.1	101
24	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
25	Hierarchical Bayesian model to inferPL(Z)relations usingGaiaparallaxes. Astronomy and Astrophysics, 2019, 623, A156.	5.1	6
26	Ruprecht 147 DANCe. Astronomy and Astrophysics, 2019, 625, A115.	5.1	28
27	IC 4665 DANCe. Astronomy and Astrophysics, 2019, 631, A57.	5.1	10
28	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
29	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 618, A30.	5.1	117
30	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
31	Astronomical Knowledge Discovery of Very Faint Galaxies. Procedia Computer Science, 2018, 140, 367-375.	2.0	0
32	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A9.	5.1	564
33	The seven sisters DANCe. Astronomy and Astrophysics, 2018, 617, A15.	5.1	19
34	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A13.	5.1	78
35	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	5.1	140
36	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

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37	The seven sisters DANCe. Astronomy and Astrophysics, 2018, 612, A70.	5.1	8
38	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	5.1	638
39	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	5.1	6,364
40	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
41	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 618, A58.	5.1	66
42	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
43	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
44	Orion revisited. Astronomy and Astrophysics, 2017, 598, A124.	5.1	12
45	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
46	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
47	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
48	Bayesian Unbiasing of the Gaia Space Mission Time Series Database. Lecture Notes in Computer Science, 2017, , 299-311.	1.3	0
49	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
50	The seven sisters DANCe. Astronomy and Astrophysics, 2016, 596, A113.	5.1	16
51	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
52	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A133.	5.1	60
53	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
54	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

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55	Messier 35 (NGC 2168) DANCe. Astronomy and Astrophysics, 2015, 575, A120.	5.1	14
56	The Seven Sisters DANCe. Astronomy and Astrophysics, 2015, 577, A148.	5.1	61
57	Orion revisited. Astronomy and Astrophysics, 2014, 564, A29.	5.1	50
58	Improving cross-identification of galaxies using their photometry. Astronomy and Astrophysics, 2014, 563, A14.	5.1	8
59	Cluster membership probabilities from proper motions and multi-wavelength photometric catalogues. Astronomy and Astrophysics, 2014, 563, A45.	5.1	68
60	The Variability Processing and Analysis of the Gaia mission. EAS Publications Series, 2014, 67-68, 75-78.	0.3	3
61	TheGaiaastrophysical parameters inference system (Apsis). Astronomy and Astrophysics, 2013, 559, A74.	5.1	115
62	Improved variability classification of CoRoT targets with Giraffe spectra. Astronomy and Astrophysics, 2013, 550, A120.	5.1	20
63	Classification of variable stars in the WFCAM Transit Survey. EPJ Web of Conferences, 2013, 47, 01007.	0.3	1
64	Properties of ultra-cool dwarfs withGaia. Astronomy and Astrophysics, 2013, 550, A44.	5.1	12
65	Automated classification of Hipparcos unsolved variables. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2917-2937.	4.4	36
66	Statistical techniques for the detection and analysis of solar explosive events. Astronomy and Astrophysics, 2011, 528, A62.	5.1	3
67	Searching for Periodic Variables in the <scp>EROS-2</scp> Database. Proceedings of the International Astronomical Union, 2011, 7, 309-311.	0.0	1
68	Random forest automated supervised classification of Hipparcos periodic variable stars. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2602-2617.	4.4	134
69	Improved methodology for the automated classification of periodic variable stars. Monthly Notices of the Royal Astronomical Society, 2011, 418, 96-106.	4.4	31
70	CoRoT light curves of RR Lyrae stars. Astronomy and Astrophysics, 2010, 520, A108.	5.1	36
71	Feature Selection Applied to Data from the Sloan Digital Sky Survey. Lecture Notes in Computer Science, 2010, , 611-620.	1.3	1
72	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

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73	Automated supervised classification of variable stars in the CoRoT programme. Astronomy and Astrophysics, 2009, 506, 519-534.	5.1	77
74	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
75	Characterization and parameter determination of CoRoT variable stars with FLAMES. , 2009, , .		0
76	Automated supervised classification of variable stars. Astronomy and Astrophysics, 2009, 494, 739-768.	5.1	39
77	The LAEX and NASA portals for CoRoT public data. Astronomy and Astrophysics, 2009, 506, 455-463.	5.1	0
78	Feature selection in SUMER spatial spectra using wavelet decomposition and ICA. , 2008, , .		0
79	Methodology for Automated Supervised Classification of Light Curves in the CoRoT Exoplanet Database. , 2008, , .		0
80	Variability type classification of multi-epoch surveys. , 2008, , .		3
81	VSOP: the variable star one-shot project. Astronomy and Astrophysics, 2007, 470, 1201-1214.	5.1	12
82	Automated supervised classification of variable stars. Astronomy and Astrophysics, 2007, 475, 1159-1183.	5.1	151
83	Automatic classification of eclipsing binaries light curves using neural networks. Astronomy and Astrophysics, 2006, 446, 395-402.	5.1	11
84	Characterization of dendrites as nonlinear computation devices. Neurocomputing, 2004, 58-60, 581-586.	5.9	3
85	First Steps towards an Ontology for Astrophysics. Lecture Notes in Computer Science, 2003, , 1389-1395.	1.3	2
86	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
87	The photosphere and chromosphere of the RS Canum Venaticorum star, IIÂPegasi. Astronomy and Astrophysics, 1998, 127, 505-519.	2.1	6
88	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