

Xavier Luri

List of Publications by Year in descending order

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47
papers

9,397
citations

304368

22
h-index

288905

40
g-index

47
all docs

47
docs citations

47
times ranked

8504
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	2.1	4,509
2	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2016, 595, A2.	2.1	1,590
3	GAIA: Composition, formation and evolution of the Galaxy. <i>Astronomy and Astrophysics</i> , 2001, 369, 339-363.	2.1	846
4	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A9.	2.1	564
5	Local kinematics of K and M giants from CORAVEL/Hipparcos/Tycho-2 data. <i>Astronomy and Astrophysics</i> , 2005, 430, 165-186.	2.1	352
6	<i>Gaia</i> Universe model snapshot. <i>Astronomy and Astrophysics</i> , 2012, 543, A100.	2.1	159
7	Hunting for open clusters in <i>Gaia</i> DR2: 582 new open clusters in the Galactic disc. <i>Astronomy and Astrophysics</i> , 2020, 635, A45.	2.1	139
8	A new method for unveiling open clusters in <i>Gaia</i> . <i>Astronomy and Astrophysics</i> , 2018, 618, A59.	2.1	136
9	Photo-astrometric distances, extinctions, and astrophysical parameters for <i>Gaia</i> EDR3 stars brighter than $G = 18.5$. <i>Astronomy and Astrophysics</i> , 2022, 658, A91.	2.1	106
10	The Besançon Galaxy model renewed. <i>Astronomy and Astrophysics</i> , 2014, 564, A102.	2.1	102
11	Hunting for open clusters in <i>Gaia</i> DR2: the Galactic anticentre. <i>Astronomy and Astrophysics</i> , 2019, 627, A35.	2.1	94
12	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 599, A50.	2.1	84
13	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A79.	2.1	78
14	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 601, A19.	2.1	77
15	<i>Gaia</i> DR2 reveals a star formation burst in the disc 2–3 Gyr ago. <i>Astronomy and Astrophysics</i> , 2019, 624, L1.	2.1	76
16	The Hyades stream: an evaporated cluster or an intrusion from the inner disk?. <i>Astronomy and Astrophysics</i> , 2007, 461, 957-962.	2.1	70
17	NEW NEAR-INFRARED PERIOD–LUMINOSITY–METALLICITY RELATIONS FOR RR LYRAE STARS AND THE OUTLOOK FOR <i>GAIA</i> . <i>Astrophysical Journal</i> , 2015, 807, 127.	1.6	60
18	The Gaia mission: science, organization and present status. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 217-223.	0.0	46

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19	<i>Gaia</i> photometry for white dwarfs. <i>Astronomy and Astrophysics</i> , 2014, 565, A11.	2.1	45
20	Overview and stellar statistics of the expected <i>Gaia</i> Catalogue using the <i>Gaia</i> Object Generator. <i>Astronomy and Astrophysics</i> , 2014, 566, A119.	2.1	39
21	Milky Way spiral arms from open clusters in <i>Gaia</i> EDR3. <i>Astronomy and Astrophysics</i> , 2021, 652, A162.	2.1	33
22	A new maximum likelihood method for luminosity calibrations. <i>Astronomy and Astrophysics</i> , 1996, 117, 405-415.	2.1	28
23	SOM ensemble for unsupervised outlier analysis. Application to outlier identification in the Gaia astronomical survey. <i>Expert Systems With Applications</i> , 2013, 40, 1530-1541.	4.4	22
24	Gaia: origin and evolution of the Milky Way. , 1998, 3350, 541.		18
25	Faint objects in motion: the new frontier of high precision astrometry. <i>Experimental Astronomy</i> , 2021, 51, 845-886.	1.6	17
26	Period-Luminosity-Colour distribution and classification of Galactic oxygen-rich LPVs. <i>Astronomy and Astrophysics</i> , 1999, 140, 55-67.	2.1	17
27	Long period variable stars: galactic populations and infrared luminosity calibrations. <i>Astronomy and Astrophysics</i> , 2001, 374, 968-979.	2.1	15
28	Gaia: organisation and challenges for the data processing. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 224-230.	0.0	14
29	An updated maximum likelihood approach to open cluster distance determination. <i>Astronomy and Astrophysics</i> , 2014, 564, A49.	2.1	12
30	Period-Luminosity-Colour distribution and classification of galactic oxygen-rich LPVs. <i>Astronomy and Astrophysics</i> , 2001, 365, 519-534.	2.1	9
31	A framework for building hypercubes using MapReduce. <i>Computer Physics Communications</i> , 2014, 185, 1429-1438.	3.0	8
32	Tailored data compression using stream partitioning and prediction: application to Gaia. <i>Experimental Astronomy</i> , 2007, 21, 125-149.	1.6	7
33	Building the cosmic distance scale: from Hipparcos to Gaia. <i>Astrophysics and Space Science</i> , 2012, 341, 15-29.	0.5	7
34	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A52.	2.1	5
35	Gaia data simulations: a powerful tool to prepare for the Gaia scientific exploitation. <i>EAS Publications Series</i> , 2010, 45, 25-30.	0.3	3
36	Using Java for distributed computing in the Gaia satellite data processing. <i>Experimental Astronomy</i> , 2011, 31, 243-258.	1.6	3

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37	Stellar and circumstellar evolution of long period variable stars. <i>Astronomy and Astrophysics</i> , 2001, 380, 198-211.	2.1	2
38	High-performance payload data handling system for Gaia. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2006, 42, 421-435.	2.6	2
39	Optimization of Time Data Codification and Transmission Schemes: Application to Gaia. <i>Experimental Astronomy</i> , 2003, 16, 189-212.	1.6	1
40	JStuff - a preliminary extragalactic model for the ESA-Gaia satellite simulation framework. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 276-277.	0.0	1
41	Gaia's Cepheids and RR Lyrae stars and luminosity calibrations based on Tycho-Gaia Astrometric Solution. <i>EPJ Web of Conferences</i> , 2017, 152, 02003.	0.1	1
42	Robotic design of the Montsec Astronomical Observatory. <i>Astronomische Nachrichten</i> , 2004, 325, 658-658.	0.6	0
43	Commission 45: Stellar Classification. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 221-231.	0.0	0
44	Stellar parameters through high precision parallaxes. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 500-501.	0.0	0
45	Preparing the Besançon Galaxy Model for the comparison with Gaia data.. <i>EAS Publications Series</i> , 2010, 45, 303-308.	0.3	0
46	Preparing the Besançon Galaxy model for the comparison with Gaia data. <i>EPJ Web of Conferences</i> , 2012, 19, 10005.	0.1	0
47	Astrostatistics for luminosity calibration in the Gaia era. <i>EAS Publications Series</i> , 2014, 67-68, 271-274.	0.3	0