Xavier Luri

List of Publications by Year in Descending Order

44 papers	**6,942** citations	**20** h-index	**47** g-index
47 ext. papers	**8,204** ext. citations	**3.4** avg, IF	**4.71** L-index

#	Paper	IF	Citations
44	Milky Way spiral arms from open clusters in Gaia EDR3. *Astronomy and Astrophysics*, **2021**, 652, A162	5.1	5
43	Faint objects in motion: the new frontier of high precision astrometry. *Experimental Astronomy*, **2021**, 51, 845	1.3	3
42	Hunting for open clusters in Gaia DR2: 582 new open clusters in the Galactic disc. *Astronomy and Astrophysics*, **2020**, 635, A45	5.1	74
41	Gaia DR2 reveals a star formation burst in the disc 2 Gyr ago. *Astronomy and Astrophysics*, **2019**, 624, L1	5.1	42
40	Hunting for open clusters in Gaia DR2: the Galactic anticentre. *Astronomy and Astrophysics*, **2019**, 627, A35	5.1	50
39	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A9	5.1	462
38	A new method for unveiling open clusters in Gaia. *Astronomy and Astrophysics*, **2018**, 618, A59	5.1	78
37	Gaia Cepheids and RR Lyrae stars and luminosity calibrations based on Tycho-Gaia Astrometric Solution. *EPJ Web of Conferences*, **2017**, 152, 02003	0.3	1
36	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 599, A50	5.1	75
35	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 605, A52	5.1	4
34	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 605, A79	5.1	64
33	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 601, A19	5.1	71
32	The Gaia mission. *Astronomy and Astrophysics*, **2016**, 595, A1	5.1	2933
31	Gaia Data Release 1. *Astronomy and Astrophysics*, **2016**, 595, A2	5.1	1364
30	NEW NEAR-INFRARED PERIOD LUMINOSITY METALLICITY RELATIONS FOR RR LYRAE STARS AND THE OUTLOOK FOR GAIA. *Astrophysical Journal*, **2015**, 807, 127	4.7	52
29	A framework for building hypercubes using MapReduce. *Computer Physics Communications*, **2014**, 185, 1429-1438	4.2	7
28	An updated maximum likelihood approach to open cluster distance determination. *Astronomy and Astrophysics*, **2014**, 564, A49	5.1	12

27	Overview and stellar statistics of the expectedGaiaCatalogue using theGaiaObject Generator. *Astronomy and Astrophysics*, **2014**, 566, A119	5.1	32
26	The Besançon Galaxy model renewed. *Astronomy and Astrophysics*, **2014**, 564, A102	5.1	88
25	Astrostatistics for luminosity calibration in the Gaia era. *EAS Publications Series*, **2014**, 67-68, 271-274	0.2	
24	Gaiaphotometry for white dwarfs. *Astronomy and Astrophysics*, **2014**, 565, A11	5.1	40
23	SOM ensemble for unsupervised outlier analysis. Application to outlier identification in the Gaia astronomical survey. *Expert Systems With Applications*, **2013**, 40, 1530-1541	7.8	18
22	Building the cosmic distance scale: from Hipparcos to Gaia. *Astrophysics and Space Science*, **2012**, 341, 15-29	1.6	6
21	GaiaUniverse model snapshot. *Astronomy and Astrophysics*, **2012**, 543, A100	5.1	136
20	Using Java for distributed computing in the Gaia satellite data processing. *Experimental Astronomy*, **2011**, 31, 243-258	1.3	3
19	Preparing the Besançon Galaxy Model for the comparison with Gaia data.. *EAS Publications Series*, **2010**, 45, 303-308	0.2	
18	Gaia data simulations: a powerful tool to prepare for the Gaia scientific exploitation. *EAS Publications Series*, **2010**, 45, 25-30	0.2	3
17	Tailored data compression using stream partitioning and prediction: application to Gaia. *Experimental Astronomy*, **2007**, 21, 125-149	1.3	3
16	The Hyades stream: an evaporated cluster or an intrusion from the inner disk?. *Astronomy and Astrophysics*, **2007**, 461, 957-962	5.1	68
15	The Gaia mission: science, organization and present status. *Proceedings of the International Astronomical Union*, **2007**, 3, 217-223	0.1	41
14	Gaia: organisation and challenges for the data processing. *Proceedings of the International Astronomical Union*, **2007**, 3, 224-230	0.1	11
13	JStuff - a preliminary extragalactic model for the ESA-Gaia satellite simulation framework. *Proceedings of the International Astronomical Union*, **2007**, 3, 276-277	0.1	1
12	Stellar parameters through high precision parallaxes. *Proceedings of the International Astronomical Union*, **2007**, 3, 500-501	0.1	
11	. *IEEE Transactions on Aerospace and Electronic Systems*, **2006**, 42, 421-435	3.7	2
10	Local kinematics of K and Mgiants from CORAVEL/Hipparcos/Tycho-2 data. *Astronomy and Astrophysics*, **2005**, 430, 165-186	5.1	333

9   Robotic design of the Montsec Astronomical Observatory. *Astronomische Nachrichten*, **2004**, 325, 658-658.   7

8   Optimization of Time Data Codification and Transmission Schemes: Application to Gaia. *Experimental Astronomy*, **2003**, 16, 189-212   1.3   1

7   GAIA: Composition, formation and evolution of the Galaxy. *Astronomy and Astrophysics*, **2001**, 369, 339-363.   5.1   769

6   Stellar and circumstellar evolution of long period variable stars. *Astronomy and Astrophysics*, **2001**, 380, 198-211   5.1   2

5   Period-Luminosity-Colour distribution and classification of galactic oxygen-rich LPVs. *Astronomy and Astrophysics*, **2001**, 365, 519-534   5.1   9

4   Long period variable stars: galactic populations and infrared luminosity calibrations. *Astronomy and Astrophysics*, **2001**, 374, 968-979   5.1   15

3   Period Luminosity Colour distribution and classification of Galactic oxygen rich LPVs. *Astronomy and Astrophysics*, **1999**, 140, 55-67   15

2   GAIA: origin and evolution of the Milky Way **1998**, 3350, 541   17

1   A new maximum likelihood method for luminosity calibrations. *Astronomy and Astrophysics*, **1996**, 117, 405-415   27