

# Mario G. Lattanzi

## List of Publications by Year in descending order

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126  
papers

17,753  
citations

159585  
30  
h-index

33894  
99  
g-index

126  
all docs

126  
docs citations

126  
times ranked

11916  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
2	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
3	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A1.	5.1	2,429
4	GAIA: Composition, formation and evolution of the Galaxy. <i>Astronomy and Astrophysics</i> , 2001, 369, 339-363.	5.1	846
5	Milky Way Cepheid Standards for Measuring Cosmic Distances and Application to Gaia DR2: Implications for the Hubble Constant. <i>Astrophysical Journal</i> , 2018, 861, 126.	4.5	486
6	THE SECOND-GENERATION GUIDE STAR CATALOG: DESCRIPTION AND PROPERTIES. <i>Astronomical Journal</i> , 2008, 136, 735-766.	4.7	447
7	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A11.	5.1	323
8	Ages of Globular Clusters from HIPPARCOS Parallaxes of Local Subdwarfs. <i>Astrophysical Journal</i> , 1997, 491, 749-771.	4.5	255
9	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
10	Double-blind test program for astrometric planet detection with Gaia. <i>Astronomy and Astrophysics</i> , 2008, 482, 699-729.	5.1	119
11	Astrometric detection of giant planets around nearby M dwarfs: the Gaia potential. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 497-509.	4.4	100
12	The Galactic warp revealed by <i>Gaia</i> DR2 kinematics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L21-L25.	3.3	82
13	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS. I. TARGETS, PROPER MOTIONS, AND FIRST RESULTS. <i>Astronomical Journal</i> , 2011, 141, 54.	4.7	67
14	A Dynamical Mass Constraint for Pre-Main-Sequence Evolutionary Tracks: The Binary NTT 045251+3016. <i>Astronomical Journal</i> , 2001, 122, 997-1006.	4.7	67
15	NPARSEC: NTT Parallaxes of Southern Extremely Cool objects. Goals, targets, procedures and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2054-2063.	4.4	55
16	Gaia and the Galactic Center Origin of Hypervelocity Stars. <i>Astrophysical Journal</i> , 2018, 866, 39.	4.5	54
17	Parallaxes and physical properties of 11 mid-to-late T dwarfs. <i>Astronomy and Astrophysics</i> , 2010, 524, A38.	5.1	54
18	Evidence of a thick disk rotation-metallicity correlation. <i>Astronomy and Astrophysics</i> , 2010, 510, L4.	5.1	52

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19	Space-borne global astrometric surveys: the hunt for extrasolar planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 317, 211-224.	4.4	47
20	The Nuclear Region of NGC 1068: High-Accuracy Alignment of the Optical and Radio Emission. <i>Astrophysical Journal</i> , 1997, 476, L67-L71.	4.5	46
21	The GAPS programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2015, 575, A111.	5.1	46
22	Evidence of a dynamically evolving Galactic warp. <i>Nature Astronomy</i> , 2020, 4, 590-596.	10.1	45
23	Narrow- $\angle$ Astrometry with the Space Interferometry Mission: The Search for Extrasolar Planets. I. Detection and Characterization of Single Planets. <i>Publications of the Astronomical Society of the Pacific</i> , 2002, 114, 1173-1196.	3.1	43
24	Interferometric Angular Diameters of Mira Variables with the Hubble Space Telescope. <i>Astrophysical Journal</i> , 1997, 485, 328-332.	4.5	38
25	Detection and measurement of planetary systems with GAIA. <i>Astronomy and Astrophysics</i> , 2001, 373, L21-L24.	5.1	36
26	Narrow- $\angle$ Astrometry with the Space Interferometry Mission: The Search for Extrasolar Planets. II. Detection and Characterization of Planetary Systems. <i>Publications of the Astronomical Society of the Pacific</i> , 2003, 115, 1072-1104.	3.1	36
27	Gravitation astrometric measurement experiment. <i>Experimental Astronomy</i> , 2012, 34, 165-180.	3.7	36
28	Some comments on the astrometric properties of the guide star catalog. <i>Astrophysical Journal</i> , 1990, 353, L45.	4.5	36
29	A General Relativistic Model of Light Propagation in the Gravitational Field of the Solar System: The Static Case. <i>Astrophysical Journal</i> , 2004, 607, 580-595.	4.5	35
30	A General Relativistic Model of Light Propagation in the Gravitational Field of the Solar System: The Dynamical Case. <i>Astrophysical Journal</i> , 2006, 653, 1552-1565.	4.5	34
31	Two successful techniques for Schmidt plate astrometry. <i>Astrophysical Journal</i> , 1990, 358, 359.	4.5	34
32	ABSOLUTE PROPER MOTIONS OUTSIDE THE PLANE (APOP) – A STEP TOWARD THE GSC2.4. <i>Astronomical Journal</i> , 2015, 150, 137.	4.7	32
33	An all-sky set of $B-V-R$ photometric calibrators for Schmidt surveys. <i>Astronomy and Astrophysics</i> , 2001, 368, 335-346.	5.1	32
34	HST/FGS Observations of the Asteroid (216) Kleopatra. <i>Icarus</i> , 2001, 153, 451-454.	2.5	30
35	MIDI observations of 1459 Magnya: First attempt of interferometric observations of asteroids with the VLT. <i>Icarus</i> , 2006, 181, 618-622.	2.5	30
36	The Torino Observatory Parallax Program: White dwarf candidates. <i>Astronomy and Astrophysics</i> , 2003, 404, 317-323.	5.1	24

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37	On testing CDM and geometry-driven Milky Way rotation curve models with Gaia DR2. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2107-2122.	4.4	24
38	Nearby star candidates in the Torino observatory parallax program. Astronomy and Astrophysics, 2007, 464, 787-791.	5.1	23
39	The distance to the cool T9 brown dwarf ULASJ003402.77-005206.7. Astronomy and Astrophysics, 2010, 511, A30.	5.1	22
40	Compression of the Guide Star Digitised Schmidt Plates. Astrophysics and Space Science Library, 1992, , 167-175.	2.7	22
41	Cool dwarfs stars from the Torino Observatory Parallax Program. Astronomy and Astrophysics, 2010, 514, A84.	5.1	22
42	Location accuracy limitations for CCD cameras. Astronomy and Astrophysics, 2001, 367, 362-370.	5.1	22
43	The thick disk rotation-metallicity correlation as a fossil of an "inverse chemical gradient" in the early Galaxy. Astronomy and Astrophysics, 2012, 545, A133.	5.1	21
44	Photometric transit search for planets around cool stars from the western Italian Alps: a pilot study. Monthly Notices of the Royal Astronomical Society, 2012, 424, 3101-3122.	4.4	21
45	The kinematic signature of the Galactic warp in Gaia DR1. Astronomy and Astrophysics, 2017, 601, A115.	5.1	20
46	Icarus: A Flat and Fast Prograde Stellar Stream in the Milky Way Disk. Astrophysical Journal Letters, 2021, 907, L16.	8.3	20
47	GAIA: origin and evolution of the Milky Way. , 1998, 3350, 541.		18
48	Structure in the motions of the fastest halo stars. Astronomy and Astrophysics, 2005, 439, 551-558.	5.1	18
49	Binary star observations with the Hubble Space Telescope fine guidance sensors. II - Bright Hyades. Astronomical Journal, 1992, 103, 190.	4.7	18
50	PRIMA: study for a dual-beam instrument for the VLT Interferometer. , 1998, , .		17
51	NEW SIGNATURES OF THE MILKY WAY FORMATION IN THE LOCAL HALO AND INNER-HALO STREAMERS IN THE ERA OF GAIA. Astronomical Journal, 2015, 150, 128.	4.7	17
52	General relativistic satellite astrometry. Astronomy and Astrophysics, 2001, 373, 336-344.	5.1	17
53	Unexpected stellar velocity distribution in the warped Galactic disk. Nature, 1998, 392, 471-473.	27.8	16
54	Fizeau interferometer for global astrometry in space. Applied Optics, 2004, 43, 721.	2.1	16

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55	The GSC-II-based survey of ancient cool white dwarfs. <i>Astronomy and Astrophysics</i> , 2006, 448, 579-588.	5.1	14
56	Memberships and CM diagrams of young open clusters. I - NGC 225. <i>Astronomical Journal</i> , 1991, 102, 177.	4.7	14
57	The AGK3U - an updated version of the AGK3. <i>Astronomical Journal</i> , 1992, 103, 1689.	4.7	13
58	The ray tracing analytical solution within the RAMOD framework. The case of a Gaia-like observer. <i>Classical and Quantum Gravity</i> , 2015, 32, 165008.	4.0	12
59	Parallaxes of Southern Extremely Cool objects III: 118 L and T dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3548-3562.	4.4	11
60	Disk or halo white dwarfs?. <i>Astronomy and Astrophysics</i> , 2004, 428, 451-458.	5.1	11
61	Flexures of conventional Cassegrain-fed spectrographs. <i>Publications of the Astronomical Society of the Pacific</i> , 1992, 104, 121.	3.1	11
62	Hubble Space Telescope Fine Guidance Sensor interferometric observations of the core of 30 doradus. <i>Astrophysical Journal</i> , 1994, 427, L21.	4.5	11
63	THE RADIAL METALLICITY GRADIENTS IN THE MILKY WAY THICK DISK AS FOSSIL SIGNATURES OF A PRIMORDIAL CHEMICAL DISTRIBUTION. <i>Astrophysical Journal Letters</i> , 2014, 784, L24.	8.3	10
64	49 new T dwarfs identified using methane imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2486-2499.	4.4	10
65	Identifying quasars with astrometric and mid-infrared methods from APOP and ALLWISE. <i>Astronomy and Astrophysics</i> , 2018, 618, A144.	5.1	10
66	Chromaticity in all-reflective telescopes for astrometry. <i>Astronomy and Astrophysics</i> , 2006, 449, 827-836.	5.1	10
67	The global sphere reconstruction for the Gaia mission in the Astrometric Verification Unit. , 2012, , .		9
68	General relativistic observable for gravitational astrometry in the context of the Gaia mission and beyond. <i>Physical Review D</i> , 2017, 96, .	4.7	9
69	Photometric rotation periods for 107 $\hat{A}$ M dwarfs from the APACHE survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5216-5237.	4.4	9
70	Discovery of a peculiar DQ white dwarf. <i>Astronomy and Astrophysics</i> , 2002, 393, L45-L48.	5.1	9
71	Photometric Transit Search for Planets around Cool Stars from the Western Italian Alps: A Site Characterization Study1. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 1077-1091.	3.1	8
72	Evidence of a large-scale positive rotationâ€™metallicity correlation in the Galactic thick disc. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L69-L74.	3.3	8

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73	Catalog-to-catalog reductions. <i>Astrophysical Journal</i> , 1990, 361, 667.	4.5	8
74	The Short-term Stability of a Simulated Differential Astrometric Reference Frame in the <i>Gaia</i> Era. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 054503.	3.1	7
75	A Fizeau interferometer for astrometry in space: the metrology point of view. <i>Measurement Science and Technology</i> , 1999, 10, 1254-1260.	2.6	6
76	An Investigation of the Absolute Proper Motions of the SCUSS Catalog. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 250-257.	3.1	6
77	Some Aspects of Relativistic Astrometry from Within the Solar System. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2003, 87, 209-218.	1.4	5
78	The formation history of the Milky Way disc with high-resolution cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2251-2265.	4.4	5
79	Gamma astrometric measurement experiment (GAME) – Science case. <i>Advances in Space Research</i> , 2009, 44, 579-587.	2.6	4
80	Solving a very large-scale sparse linear system with a parallel algorithm in the Gaia mission. , 2014, , .		4
81	The global sphere reconstruction (GSR). <i>Astronomy and Astrophysics</i> , 2018, 620, A40.	5.1	4
82	Post-Newtonian gravity and <i>Gaia</i> -like astrometry. <i>Astronomy and Astrophysics</i> , 2022, 663, A71.	5.1	4
83	Design of a compact astrometric instrument for the GAME mission. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 274-275.	0.0	3
84	The GSC-II catalog release GSC 2.3: description and properties. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 316-319.	0.0	3
85	Astrometric tests of General Relativity in the Solar System: mathematical and computational scenarios. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012241.	0.4	3
86	Metrology for AGP &#x2014; Astrometric Gravitation Probe. , 2015, , .		3
87	Differential astrometric framework for the Jupiter relativistic experiment with Gaia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1147-1156.	4.4	3
88	Catalog-to-catalog reductions - Results for the FK, N30, and GC catalogs. <i>Astrophysical Journal</i> , 1992, 392, 746.	4.5	3
89	GAME: Gamma Astrometric Measurement Experiment. , 2008, , .		2
90	Hunting for stellar streams in the solar neighbourhood with the SDSS and GSC-II kinematic survey. <i>EAS Publications Series</i> , 2010, 45, 203-208.	0.3	2

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91	LEGOLAS: localizing evidence of gravitational waves by observations of light source astrometric signature. Proceedings of SPIE, 2010, , .	0.8	2
92	Monitoring, diagnostic, and calibration of the Gaia astrometric instrument response within the astrometric verification unit. , 2010, , .		2
93	Gravitation Astrometric Measurement Experiment (GAME). Proceedings of SPIE, 2012, , .	0.8	2
94	Features of a laser metrology subsystem for astrometric telescopes. Proceedings of SPIE, 2012, , .	0.8	2
95	Astrometric tests of General Relativity in the Solar system. Journal of Physics: Conference Series, 2014, 490, 012240.	0.4	2
96	Running AIM: initial data treatment and $\hat{1}/4$ -arcsec level calibration procedures for Gaia within the astrometric verification unit. , 2014, , .		2
97	Gaia: The Astrometry Revolution. Proceedings of the International Astronomical Union, 2015, 10, 264-269.	0.0	2
98	Relative Astrometry in an Annular Field. Publications of the Astronomical Society of the Pacific, 2022, 134, 035001.	3.1	2
99	Precise positions of optical counterparts of some radio objects. Astrophysics and Space Science, 1991, 177, 93-96.	1.4	1
100	Testing planet formation models with Gaia $\hat{1}/4$ as astrometry. Proceedings of the International Astronomical Union, 2007, 3, 256-259.	0.0	1
101	Gamma Astrometric Measurement Experiment: testing General Relativity with a small mission. Proceedings of the International Astronomical Union, 2007, 3, 290-291.	0.0	1
102	The restoration of the quadrupole light bending. Proceedings of the International Astronomical Union, 2007, 3, 395-396.	0.0	1
103	The RAMOD astrometric observable and the relativistic astrometric catalogs. Proceedings of the International Astronomical Union, 2007, 3, 397-398.	0.0	1
104	L and T dwarfs in Gaia/SIM. Proceedings of the International Astronomical Union, 2007, 3, 429-432.	0.0	1
105	Global Sphere Reconstruction in the Astrometric Verification Unit. EAS Publications Series, 2010, 45, 127-132.	0.3	1
106	ISAS: interferometric stratospheric astrometry for solar system. Proceedings of SPIE, 2012, , .	0.8	1
107	The Basic Angle Monitoring (BAM) software tool in the context of Gaia's astrometric verification. Proceedings of SPIE, 2014, , .	0.8	1
108	AGP (Astrometric Gravitation Probe) optical design report. , 2016, , .		1

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109	End-to-end optomechanical simulation for high-precision global astrometry. , 2004, 5497, 461.		0
110	Fizeau interferometry from space: a challenging frontier in global astrometry. , 2004, , .		0
111	Commission 8: Astrometry. Proceedings of the International Astronomical Union, 2005, 1, 17-27.	0.0	0
112	Re-calibration of GSC2.3 with UCAC2. Proceedings of the International Astronomical Union, 2007, 3, 334-336.	0.0	0
113	Global astrometric sphere reconstruction in Gaia: challenges and first results of the Verification Unit. Proceedings of the International Astronomical Union, 2009, 5, 337-341.	0.0	0
114	The Gamma Astrometric Measurement Experiment (GAME). , 2009, , .		0
115	A microvariability study of nearby M dwarfs from the Western Italian Alps: Status update. Proceedings of the International Astronomical Union, 2010, 6, 525-526.	0.0	0
116	Gravitation Astrometric Measurement Experiment (GAME). Proceedings of the International Astronomical Union, 2010, 6, 535-536.	0.0	0
117	The Italian contribution to the Gaia data processing and archiving. Proceedings of the International Astronomical Union, 2010, 6, 539-541.	0.0	0
118	Design of a four-mirror astrometric telescope for light bending measurements. , 2010, , .		0
119	Astrometric instrument model software tool for Gaia data reduction: challenges and implementation. Proceedings of SPIE, 2010, , .	0.8	0
120	Absolute Proper Motions Outside the Plane (APOP). Proceedings of the International Astronomical Union, 2012, 8, 413-415.	0.0	0
121	The parsec program: a large sample of brown dwarf trigonometric parallaxes. Proceedings of the International Astronomical Union, 2012, 8, 48-51.	0.0	0
122	GAIA mock-up: an educational demonstrative GAIA model. , 2012, , .		0
123	GAME/ISAS development status. Proceedings of SPIE, 2014, , .	0.8	0
124	Metallicity gradients in the Milky Way thick disk as relic of a primordial distribution. Proceedings of the International Astronomical Union, 2014, 10, 307-307.	0.0	0
125	Search for Galactic warp signal in Gaia DR1 proper motions. Proceedings of the International Astronomical Union, 2017, 12, 185-188.	0.0	0
126	Multiple Beam Fringe Tracking at VLTI. , 2007, , 331-335.		0