

Mario G. Lattanzi

List of Publications by Year in descending order

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126
papers

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159585

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33894

99
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126
all docs

126
docs citations

126
times ranked

11916
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative Astrometry in an Annular Field. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 035001.	3.1	2
2	Post-Newtonian gravity and <i>Gaia</i> -like astrometry. <i>Astronomy and Astrophysics</i> , 2022, 663, A71.	5.1	4
3	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
4	Icarus: A Flat and Fast Prograde Stellar Stream in the Milky Way Disk. <i>Astrophysical Journal Letters</i> , 2021, 907, L16.	8.3	20
5	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A1.	5.1	2,429
6	On testing CDM and geometry-driven Milky Way rotation curve models with Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2107-2122.	4.4	24
7	Photometric rotation periods for 107 Å dwarfs from the APACHE survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5216-5237.	4.4	9
8	Evidence of a dynamically evolving Galactic warp. <i>Nature Astronomy</i> , 2020, 4, 590-596.	10.1	45
9	Evidence of a large-scale positive rotation-metallicity correlation in the Galactic thick disc. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L69-L74.	3.3	8
10	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
11	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A11.	5.1	323
12	The global sphere reconstruction (GSR). <i>Astronomy and Astrophysics</i> , 2018, 620, A40.	5.1	4
13	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
14	Gaia and the Galactic Center Origin of Hypervelocity Stars. <i>Astrophysical Journal</i> , 2018, 866, 39.	4.5	54
15	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
16	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
17	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
18	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364

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19	Identifying quasars with astrometric and mid-infrared methods from APOP and ALLWISE. <i>Astronomy and Astrophysics</i> , 2018, 618, A144.	5.1	10
20	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
21	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
22	The kinematic signature of the Galactic warp in <i>Gaia</i> DR1. <i>Astronomy and Astrophysics</i> , 2017, 601, A115.	5.1	20
23	Search for Galactic warp signal in Gaia DR1 proper motions. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 185-188.	0.0	0
24	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
25	AGP (Astrometric Gravitation Probe) optical design report. , 2016, , .		1
26	Gaia: The Astrometry Revolution. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 264-269.	0.0	2
27	ABSOLUTE PROPER MOTIONS OUTSIDE THE PLANE (APOP) – A STEP TOWARD THE GSC2.4. <i>Astronomical Journal</i> , 2015, 150, 137.	4.7	32
28	The GAPS programme with HARPS-N at TNG. <i>Astronomy and Astrophysics</i> , 2015, 575, A111.	5.1	46
29	NEW SIGNATURES OF THE MILKY WAY FORMATION IN THE LOCAL HALO AND INNER-HALO STREAMERS IN THE ERA OF <i>GAIA</i> . <i>Astronomical Journal</i> , 2015, 150, 128.	4.7	17
30	49 new T dwarfs identified using methane imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2486-2499.	4.4	10
31	Metrology for AGP — Astrometric Gravitation Probe. , 2015, , .		3
32	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
33	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
34	GAME/ISAS development status. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Solving a very large-scale sparse linear system with a parallel algorithm in the Gaia mission. , 2014, , .		4
38	The Basic Angle Monitoring (BAM) software tool in the context of Gaia's astrometric verification. Proceedings of SPIE, 2014, , .	0.8	1
39	Astrometric tests of General Relativity in the Solar system. Journal of Physics: Conference Series, 2014, 490, 012240.	0.4	2
40	Astrometric tests of General Relativity in the Solar System: mathematical and computational scenarios. Journal of Physics: Conference Series, 2014, 490, 012241.	0.4	3
41	Running AIM: initial data treatment and 1/4-arcsec level calibration procedures for Gaia within the astrometric verification unit. , 2014, , .		2
42	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
43	NPARSEC: NTT Parallaxes of Southern Extremely Cool objects. Goals, targets, procedures and first results. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2054-2063.	4.4	55
44	Gravitation Astrometric Measurement Experiment (GAME). Proceedings of SPIE, 2012, , .	0.8	2
45	Absolute Proper Motions Outside the Plane (APOP). Proceedings of the International Astronomical Union, 2012, 8, 413-415.	0.0	0
46	ISAS: interferometric stratospheric astrometry for solar system. Proceedings of SPIE, 2012, , .	0.8	1
47	The global sphere reconstruction for the Gaia mission in the Astrometric Verification Unit. , 2012, , .		9
48	The parsec program: a large sample of brown dwarf trigonometric parallaxes. Proceedings of the International Astronomical Union, 2012, 8, 48-51.	0.0	0
49	Gravitation astrometric measurement experiment. Experimental Astronomy, 2012, 34, 165-180.	3.7	36
50	GAIA mock-up: an educational demonstrative GAIA model. , 2012, , .		0
51	Features of a laser metrology subsystem for astrometric telescopes. Proceedings of SPIE, 2012, , .	0.8	2
52	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
53	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
54	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS. I. TARGETS, PROPER MOTIONS, AND FIRST RESULTS. Astronomical Journal, 2011, 141, 54.	4.7	67

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55	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
56	Gravitation Astrometric Measurement Experiment (GAME). Proceedings of the International Astronomical Union, 2010, 6, 535-536.	0.0	0
57	The Italian contribution to the Gaia data processing and archiving. Proceedings of the International Astronomical Union, 2010, 6, 539-541.	0.0	0
58	The distance to the cool T9 brown dwarf ULASJ003402.77-005206.7. Astronomy and Astrophysics, 2010, 511, A30.	5.1	22
59	Evidence of a thick disk rotation-metallicity correlation. Astronomy and Astrophysics, 2010, 510, L4.	5.1	52
60	Global Sphere Reconstruction in the Astrometric Verification Unit. EAS Publications Series, 2010, 45, 127-132.	0.3	1
61	Hunting for stellar streams in the solar neighbourhood with the SDSS and GSC-II kinematic survey. EAS Publications Series, 2010, 45, 203-208.	0.3	2
62	Design of a four-mirror astrometric telescope for light bending measurements. , 2010, , .		0
63	LEGOLAS: localizing evidence of gravitational waves by observations of light source astrometric signature. Proceedings of SPIE, 2010, , .	0.8	2
64	Astrometric instrument model software tool for Gaia data reduction: challenges and implementation. Proceedings of SPIE, 2010, , .	0.8	0
65	Monitoring, diagnostic, and calibration of the Gaia astrometric instrument response within the astrometric verification unit. , 2010, , .		2
66	Photometric Transit Search for Planets around Cool Stars from the Western Italian Alps: A Site Characterization Study1. Publications of the Astronomical Society of the Pacific, 2010, 122, 1077-1091.	3.1	8
67	Cool dwarfs stars from the Torino Observatory Parallax Program. Astronomy and Astrophysics, 2010, 514, A84.	5.1	22
68	Parallaxes and physical properties of 11 mid-to-late T dwarfs. Astronomy and Astrophysics, 2010, 524, A38.	5.1	54
69	Gamma astrometric measurement experiment (GAME) - Science case. Advances in Space Research, 2009, 44, 579-587.	2.6	4
70	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
71	The Gamma Astrometric Measurement Experiment (GAME). , 2009, , .		0
72	THE SECOND-GENERATION GUIDE STAR CATALOG: DESCRIPTION AND PROPERTIES. Astronomical Journal, 2008, 136, 735-766.	4.7	447

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73	GAME: Gamma Astrometric Measurement Experiment. , 2008, , .		2
74	Double-blind test program for astrometric planet detection with Gaia. <i>Astronomy and Astrophysics</i> , 2008, 482, 699-729.	5.1	119
75	Testing planet formation models with Gaia's astrometry. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 256-259.	0.0	1
76	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
77	Gamma Astrometric Measurement Experiment: testing General Relativity with a small mission. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 290-291.	0.0	1
78	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
79	The restoration of the quadrupole light bending. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 395-396.	0.0	1
80	Re-calibration of GSC2.3 with UCAC2. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 334-336.	0.0	0
81	The RAMOD astrometric observable and the relativistic astrometric catalogs. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 397-398.	0.0	1
82	L and T dwarfs in Gaia/SIM. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 429-432.	0.0	1
83	Nearby star candidates in the Torino observatory parallax program. <i>Astronomy and Astrophysics</i> , 2007, 464, 787-791.	5.1	23
84	Multiple Beam Fringe Tracking at VLTI. , 2007, , 331-335.		0
85	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
86	MIDI observations of 1459 Magnya: First attempt of interferometric observations of asteroids with the VLTI. <i>Icarus</i> , 2006, 181, 618-622.	2.5	30
87	The GSC-II-based survey of ancient cool white dwarfs. <i>Astronomy and Astrophysics</i> , 2006, 448, 579-588.	5.1	14
88	Chromaticity in all-reflective telescopes for astrometry. <i>Astronomy and Astrophysics</i> , 2006, 449, 827-836.	5.1	10
89	Structure in the motions of the fastest halo stars. <i>Astronomy and Astrophysics</i> , 2005, 439, 551-558.	5.1	18
90	Commission 8: Astrometry. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 17-27.	0.0	0

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91	End-to-end optomechanical simulation for high-precision global astrometry. , 2004, 5497, 461.		0
92	Fizeau interferometer for global astrometry in space. Applied Optics, 2004, 43, 721.	2.1	16
93	A General Relativistic Model of Light Propagation in the Gravitational Field of the Solar System: The Static Case. Astrophysical Journal, 2004, 607, 580-595.	4.5	35
94	Fizeau interferometry from space: a challenging frontier in global astrometry. , 2004, , .		0
95	Disk or halo white dwarfs?. Astronomy and Astrophysics, 2004, 428, 451-458.	5.1	11
96	Some Aspects of Relativistic Astrometry from Within the Solar System. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 209-218.	1.4	5
97	Narrowâ€Angle Astrometry with theSpace Interferometry Mission: The Search for Extrasolar Planets. II. Detection and Characterization of Planetary Systems. Publications of the Astronomical Society of the Pacific, 2003, 115, 1072-1104.	3.1	36
98	The Torino Observatory Parallax Program: White dwarf candidates. Astronomy and Astrophysics, 2003, 404, 317-323.	5.1	24
99	Narrowâ€Angle Astrometry with theSpace Interferometry Mission: The Search for Extrasolar Planets. I. Detection and Characterization of Single Planets. Publications of the Astronomical Society of the Pacific, 2002, 114, 1173-1196.	3.1	43
100	Discovery of a peculiar DQ white dwarf. Astronomy and Astrophysics, 2002, 393, L45-L48.	5.1	9
101	Detection and measurement of planetary systems with GAIA. Astronomy and Astrophysics, 2001, 373, L21-L24.	5.1	36
102	GAIA: Composition, formation and evolution of the Galaxy. Astronomy and Astrophysics, 2001, 369, 339-363.	5.1	846
103	HST/FGS Observations of the Asteroid (216) Kleopatra. Icarus, 2001, 153, 451-454.	2.5	30
104	Location accuracy limitations for CCD cameras. Astronomy and Astrophysics, 2001, 367, 362-370.	5.1	22
105	An all-sky set of \$vec (B)-V-R\$ photometric calibrators for Schmidt surveys. Astronomy and Astrophysics, 2001, 368, 335-346.	5.1	32
106	General relativistic satellite astrometry. Astronomy and Astrophysics, 2001, 373, 336-344.	5.1	17
107	A Dynamical Mass Constraint for Preâ€Main-Sequence Evolutionary Tracks: The Binary NTT 045251+3016. Astronomical Journal, 2001, 122, 997-1006.	4.7	67
108	Space-borne global astrometric surveys: the hunt for extrasolar planets. Monthly Notices of the Royal Astronomical Society, 2000, 317, 211-224.	4.4	47

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109	A Fizeau interferometer for astrometry in space: the metrology point of view. Measurement Science and Technology, 1999, 10, 1254-1260.	2.6	6
110	Unexpected stellar velocity distribution in the warped Galactic disk. Nature, 1998, 392, 471-473.	27.8	16
111	PRIMA: study for a dual-beam instrument for the VLT Interferometer. , 1998, , .		17
112	GAIA: origin and evolution of the Milky Way. , 1998, 3350, 541.		18
113	Ages of Globular Clusters from HIPPARCOS Parallaxes of Local Subdwarfs. Astrophysical Journal, 1997, 491, 749-771.	4.5	255
114	The Nuclear Region of NGC 1068: High-Accuracy Alignment of the Optical and Radio Emission. Astrophysical Journal, 1997, 476, L67-L71.	4.5	46
115	Interferometric Angular Diameters of Mira Variables with the Hubble Space Telescope. Astrophysical Journal, 1997, 485, 328-332.	4.5	38
116	Hubble Space Telescope Fine Guidance Sensor interferometric observations of the core of 30 doradus. Astrophysical Journal, 1994, 427, L21.	4.5	11
117	Compression of the Guide Star Digitised Schmidt Plates. Astrophysics and Space Science Library, 1992, , 167-175.	2.7	22
118	Binary star observations with the Hubble Space Telescope fine guidance sensors. II - Bright Hyades. Astronomical Journal, 1992, 103, 190.	4.7	18
119	The AGK3U - an updated version of the AGK3. Astronomical Journal, 1992, 103, 1689.	4.7	13
120	Flexures of conventional Cassegrain-fed spectrographs. Publications of the Astronomical Society of the Pacific, 1992, 104, 121.	3.1	11
121	Catalog-to-catalog reductions - Results for the FK, N30, and GC catalogs. Astrophysical Journal, 1992, 392, 746.	4.5	3
122	Precise positions of optical counterparts of some radio objects. Astrophysics and Space Science, 1991, 177, 93-96.	1.4	1
123	Memberships and CM diagrams of young open clusters. I - NGC 225. Astronomical Journal, 1991, 102, 177.	4.7	14
124	Two successful techniques for Schmidt plate astrometry. Astrophysical Journal, 1990, 358, 359.	4.5	34
125	Catalog-to-catalog reductions. Astrophysical Journal, 1990, 361, 667.	4.5	8
126	Some comments on the astrometric properties of the guide star catalog. Astrophysical Journal, 1990, 353, L45.	4.5	36