

Luca Moscadelli

List of Publications by Year in descending order

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117
papers

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3594
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#	ARTICLE	IF	CITATIONS
1	TRIGONOMETRIC PARALLAXES OF HIGH MASS STAR FORMING REGIONS: THE STRUCTURE AND KINEMATICS OF THE MILKY WAY. <i>Astrophysical Journal</i> , 2014, 783, 130.	4.5	1,047
2	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. VI. GALACTIC STRUCTURE, FUNDAMENTAL PARAMETERS, AND NONCIRCULAR MOTIONS. <i>Astrophysical Journal</i> , 2009, 700, 137-148.	4.5	837
3	Trigonometric Parallaxes of High-mass Star-forming Regions: Our View of the Milky Way. <i>Astrophysical Journal</i> , 2019, 885, 131.	4.5	380
4	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. II. CEP A AND NGC 7538. <i>Astrophysical Journal</i> , 2009, 693, 406-412.	4.5	155
5	ON THE NATURE OF THE LOCAL SPIRAL ARM OF THE MILKY WAY. <i>Astrophysical Journal</i> , 2013, 769, 15.	4.5	154
6	Disk-mediated accretion burst in a high-mass young stellar object. <i>Nature Physics</i> , 2017, 13, 276-279.	16.7	151
7	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. I. S 252 & G232.6+1.0. <i>Astrophysical Journal</i> , 2009, 693, 397-405.	4.5	148
8	The Bar and Spiral Structure Legacy (BeSSeL) survey: Mapping the Milky Way with VLBI astrometry. <i>Astronomische Nachrichten</i> , 2011, 332, 461-466.	1.2	139
9	Trigonometric parallaxes of star-forming regions in the Sagittarius spiral arm. <i>Astronomy and Astrophysics</i> , 2014, 566, A17.	5.1	119
10	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. VIII. G12.89+0.49, G15.03±0.68 (M17), AND G27.36±0.16. <i>Astrophysical Journal</i> , 2011, 733, 25.	4.5	111
11	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS: III. G59.7+0.1 AND W 51 IRS2. <i>Astrophysical Journal</i> , 2009, 693, 413-418.	4.5	105
12	THE PARALLAX OF W43: A MASSIVE STAR-FORMING COMPLEX NEAR THE GALACTIC BAR. <i>Astrophysical Journal</i> , 2014, 781, 89.	4.5	92
13	TRIGONOMETRIC PARALLAXES TO STAR-FORMING REGIONS WITHIN 4 kpc OF THE GALACTIC CENTER. <i>Astrophysical Journal</i> , 2014, 781, 108.	4.5	91
14	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. IV. G35.20±0.74 AND G35.20±1.74. <i>Astrophysical Journal</i> , 2009, 693, 419-423.	4.5	84
15	A candidate circumbinary Keplerian disk in G35.20±0.74±N: A study with ALMA. <i>Astronomy and Astrophysics</i> , 2013, 552, L10.	5.1	83
16	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. V. G23.01±0.41 AND G23.44±0.18. <i>Astrophysical Journal</i> , 2009, 693, 424-429.	4.5	82
17	Chasing discs around O-type (proto)stars: Evidence from ALMA observations. <i>Astronomy and Astrophysics</i> , 2017, 602, A59.	5.1	77
18	Methanol and water masers in IRAS±20126+4104: the distance, the disk, and the jet. <i>Astronomy and Astrophysics</i> , 2011, 526, A66.	5.1	70

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19	New H ₂ O masers in Seyfert and FIR bright galaxies. <i>Astronomy and Astrophysics</i> , 2005, 436, 75-90.	5.1	66
20	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. VII. G9.62+0.20 AND THE EXPANDING 3 kpc ARM. <i>Astrophysical Journal</i> , 2009, 706, 464-470.	4.5	66
21	A necklace of dense cores in the high-mass star forming region G35.20 ⁺ 0.74 ⁻ : ALMA observations. <i>Astronomy and Astrophysics</i> , 2014, 569, A11.	5.1	63
22	Water maser variability over 20 years in a large sample of star-forming regions: the complete database. <i>Astronomy and Astrophysics</i> , 2007, 476, 373-664.	5.1	62
23	The local spiral structure of the Milky Way. <i>Science Advances</i> , 2016, 2, e1600878.	10.3	61
24	Extended CH ₃ OH maser flare excited by a bursting massive YSO. <i>Astronomy and Astrophysics</i> , 2017, 600, L8.	5.1	61
25	VLBI study of maser kinematics in high-mass star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 517, A71.	5.1	59
26	Substructures in the Keplerian disc around the O-type (proto-)star G17.64+0.16. <i>Astronomy and Astrophysics</i> , 2019, 627, L6.	5.1	57
27	Infall and outflow within 400 AU from a high-mass protostar. <i>Astronomy and Astrophysics</i> , 2011, 535, L8.	5.1	54
28	Outflow structure within 1000 au of high-mass YSOs. <i>Astronomy and Astrophysics</i> , 2016, 585, A71.	5.1	53
29	VLBI study of maser kinematics in high-mass star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 517, A78.	5.1	52
30	Water masers in the massive protostar IRAS 20126+4104: ejection and deceleration. <i>Astronomy and Astrophysics</i> , 2005, 438, 889-898.	5.1	50
31	Radio continuum and CO emission in star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2002, 385, 412-424.	5.1	47
32	Massive star-formation in G24.78+0.08 explored through VLBI maser observations. <i>Astronomy and Astrophysics</i> , 2007, 472, 867-879.	5.1	44
33	Chasing discs around O-type (proto)stars. <i>Astronomy and Astrophysics</i> , 2018, 620, A31.	5.1	44
34	The molecular connection to the FIR-radio continuum correlation in galaxies. <i>Astronomy and Astrophysics</i> , 2005, 437, 389-410.	5.1	42
35	Kinematics of the 12 GHz Methanol Masers toward W3(OH). <i>Astrophysical Journal</i> , 2002, 564, 813-826.	4.5	42
36	Physical and chemical structure of high-mass star-forming regions. <i>Astronomy and Astrophysics</i> , 2021, 648, A66.	5.1	41

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37	Accelerating infall and rotational spin-up in the hot molecular core G31.41+0.31. <i>Astronomy and Astrophysics</i> , 2018, 615, A141.	5.1	40
38	Filamentary structure and Keplerian rotation in the high-mass star-forming region G35.03+0.35 imaged with ALMA. <i>Astronomy and Astrophysics</i> , 2014, 571, A52.	5.1	39
39	CLUSTERED STAR FORMATION AND OUTFLOWS IN AFGL 2591. <i>Astrophysical Journal</i> , 2012, 745, 191.	4.5	38
40	Core fragmentation and Toomre stability analysis of W3(H ₂ O). <i>Astronomy and Astrophysics</i> , 2018, 618, A46.	5.1	38
41	Discovery of a sub-Keplerian disk with jet around a 20 <i>M</i> ™ young star. <i>Astronomy and Astrophysics</i> , 2019, 623, A77.	5.1	38
42	Associations of H ₂ O and CH ₃ OH masers at milli-arcsec angular resolution in two high-mass YSOs. <i>Astronomy and Astrophysics</i> , 2007, 461, 1027-1035.	5.1	36
43	Chemical complexity in high-mass star formation. <i>Astronomy and Astrophysics</i> , 2019, 631, A142.	5.1	36
44	The association between masers and outflows in massive star forming regions. <i>Astronomy and Astrophysics</i> , 2004, 417, 615-624.	5.1	36
45	THE VLBA CALIBRATOR SEARCH FOR THE BeSSeL SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2011, 194, 25.	7.7	34
46	Binary system and jet precession and expansion in G35.20+0.74N. <i>Astronomy and Astrophysics</i> , 2016, 593, A49.	5.1	34
47	Kinematics of H ₂ O masers in high-mass star forming regions. <i>Astronomy and Astrophysics</i> , 2005, 432, 161-173.	5.1	33
48	TRIGONOMETRIC PARALLAXES OF MASSIVE STAR-FORMING REGIONS. IX. THE OUTER ARM IN THE FIRST QUADRANT. <i>Astrophysical Journal</i> , 2012, 745, 82.	4.5	31
49	SiO collimated outflows driven by high-mass YSOs in G24.78+0.08. <i>Astronomy and Astrophysics</i> , 2013, 550, A81.	5.1	30
50	A multiple system of high-mass YSOs surrounded by disks in NGC 7538 IRS1. <i>Astronomy and Astrophysics</i> , 2014, 566, A150.	5.1	30
51	The hyperyoung H ii region in G24.78+0.08 A1. <i>Astronomy and Astrophysics</i> , 2007, 471, L13-L16.	5.1	28
52	Planar infall of CH ₃ OH gas around Cepheus HW2. <i>Astronomy and Astrophysics</i> , 2017, 603, A94.	5.1	28
53	Velocity and magnetic fields within 1000 AU of a massive YSO. <i>Astronomy and Astrophysics</i> , 2015, 583, L3.	5.1	27
54	Tracing the base of protostellar wind(s) towards the high-mass star forming region AFGL 5142: VLA continuum and VLBA H ₂ O maser observations. <i>Astronomy and Astrophysics</i> , 2006, 447, 577-587.	5.1	27

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55	First results from a VLBA proper motion survey of H ₂ O masers in low-mass YSOs: the Serpens core and RNO15-FIR. <i>Astronomy and Astrophysics</i> , 2006, 446, 985-999.	5.1	26
56	Protostellar Outflows at the Earliest Stages (POETS). <i>Astronomy and Astrophysics</i> , 2019, 623, L3.	5.1	25
57	VLBA Observations of 12 GHz Methanol Masers toward W3(OH). <i>Astrophysical Journal</i> , 1999, 519, 244-256.	4.5	25
58	Protostellar Outflows at the Earliest Stages (POETS). <i>Astronomy and Astrophysics</i> , 2018, 619, A107.	5.1	24
59	Unveiling the gas kinematics at 10 ⁴ AU scales in high-mass star-forming regions. <i>Astronomy and Astrophysics</i> , 2011, 536, A38.	5.1	22
60	THE ENVIRONMENT OF THE STRONGEST GALACTIC METHANOL MASER. <i>Astrophysical Journal Letters</i> , 2015, 804, L2.	8.3	22
61	Thermal and non-thermal components of the interstellar medium at sub-kiloparsec scales in galaxies. <i>Astronomy and Astrophysics</i> , 2006, 456, 847-859.	5.1	22
62	A double-jet system in the G31.41+0.31 hot molecular core. <i>Astronomy and Astrophysics</i> , 2013, 549, A122.	5.1	21
63	Techniques for Accurate Parallax Measurements for 6.7 GHz Methanol Masers. <i>Astronomical Journal</i> , 2017, 154, 63.	4.7	21
64	Anomalous peculiar motions of high-mass young stars in the Scutum spiral arm. <i>Astronomy and Astrophysics</i> , 2019, 632, A123.	5.1	21
65	A subarcsecond study of the hot molecular core in G023.01+00.41. <i>Astronomy and Astrophysics</i> , 2014, 565, A34.	5.1	19
66	A High Spectral Resolution VLBI Study of the 12 GHz Methanol Masers in W3(OH): Their Submilliarcsecond Structure and Clues on Saturation. <i>Astrophysical Journal</i> , 2003, 583, 776-788.	4.5	18
67	Evidence supporting the kinematic interpretation of water maser proper motions. <i>Astronomy and Astrophysics</i> , 2006, 447, L9-L12.	5.1	17
68	A study on subarcsecond scales of the ammonia and continuum emission toward the G16.59+0.05 high-mass star-forming region. <i>Astronomy and Astrophysics</i> , 2013, 558, A145.	5.1	17
69	Discovery of weak 6.7 GHz CH ₃ OH masers in a sample of high-mass Hi-GAL sources. <i>Astronomy and Astrophysics</i> , 2014, 566, A18.	5.1	17
70	Hot ammonia around young O-type stars. <i>Astronomy and Astrophysics</i> , 2015, 573, A108.	5.1	16
71	Protostellar Outflows at the Earliest Stages (POETS). <i>Astronomy and Astrophysics</i> , 2019, 631, A74.	5.1	16
72	REVISING THE KINEMATICS OF 12 GHz CH ₃ OH MASERS TOWARD W3(OH). <i>Astrophysical Journal</i> , 2010, 716, 1356-1370.	4.5	15

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73	The feedback of an HC III region on its parental molecular core. <i>Astronomy and Astrophysics</i> , 2018, 616, A66.	5.1	15
74	A 10- M_{\odot} YSO with a Keplerian disk and a nonthermal radio jet. <i>Astronomy and Astrophysics</i> , 2019, 622, A206.	5.1	15
75	Measuring magnetic fields from water masers in the synchrotron protostellar jet in W3(H ₂ O). <i>Astronomy and Astrophysics</i> , 2017, 597, A43.	5.1	13
76	IRAS 23385+6053: an embedded massive cluster in the making. <i>Astronomy and Astrophysics</i> , 2019, 627, A68.	5.1	13
77	Multi-scale view of star formation in IRAS 21078+5211: from clump fragmentation to disk wind. <i>Astronomy and Astrophysics</i> , 2021, 647, A114.	5.1	13
78	Disk fragmentation in high-mass star formation. <i>Astronomy and Astrophysics</i> , 2021, 655, A84.	5.1	13
79	Fragmentation, rotation, and outflows in the high-mass star-forming region IRAS 23033+5951. <i>Astronomy and Astrophysics</i> , 2019, 629, A10.	5.1	12
80	EVN observations of H ₂ O masers towards the high-mass young stellar object in AFGL 5142. <i>Astronomy and Astrophysics</i> , 2004, 420, 929-936.	5.1	12
81	Momentum-driven outflow emission from an O-type YSO. <i>Astronomy and Astrophysics</i> , 2016, 596, L2.	5.1	11
82	Water maser variability in a high-mass YSO outburst. <i>Astronomy and Astrophysics</i> , 2021, 647, A23.	5.1	11
83	Zooming into the Collimation Zone in a Massive Protostellar Jet. <i>Astrophysical Journal Letters</i> , 2021, 914, L1.	8.3	11
84	Fragmentation and kinematics in high-mass star formation. <i>Astronomy and Astrophysics</i> , 2021, 649, A113.	5.1	10
85	Correlation of the radio continuum, infrared, and CO molecular emissions in NGC 3627. <i>Astronomy and Astrophysics</i> , 2008, 485, 679-693.	5.1	10
86	Protostellar Outflows at the Earliest Stages (POETS). <i>Astronomy and Astrophysics</i> , 2020, 635, A118.	5.1	9
87	The magnetic field at milliarcsecond resolution around IRAS 20126+4104. <i>Astronomy and Astrophysics</i> , 2014, 563, A30.	5.1	8
88	Time variability of five strong 12 GHz methanol masers. <i>Astronomy and Astrophysics</i> , 1996, 116, 211-238.	2.1	8
89	Clustered star formation at early evolutionary stages. <i>Astronomy and Astrophysics</i> , 2022, 657, A3.	5.1	8
90	The science case for simultaneous mm-wavelength receivers in radio astronomy. <i>New Astronomy Reviews</i> , 2017, 79, 85-102.	12.8	7

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91	The ionized heart of a molecular disk. <i>Astronomy and Astrophysics</i> , 2021, 650, A142.	5.1	7
92	The sharp ALMA view of infall and outflow in the massive protocluster G31.41+0.31. <i>Astronomy and Astrophysics</i> , 2022, 659, A81.	5.1	7
93	MASSIVE STAR FORMATION TOWARD G28.87+0.07 (IRAS 18411-0338) INVESTIGATED BY MEANS OF MASER KINEMATICS AND RADIO TO INFRARED CONTINUUM OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 749, 47.	4.5	6
94	In-depth study of the hypercompact H ₂ region G24.78+0.08 A1. <i>Astronomy and Astrophysics</i> , 2019, 624, A100.	5.1	6
95	Physical conditions in the warped accretion disk of a massive star. <i>Astronomy and Astrophysics</i> , 2021, 655, A72.	5.1	6
96	Trigonometric Parallaxes of Four Star-forming Regions in the Distant Inner Galaxy. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 1.	7.7	5
97	Search for radio jets from massive young stellar objects. <i>Astronomy and Astrophysics</i> , 2021, 645, A29.	5.1	5
98	Resolving the Collimation Zone of an Intermediate-mass Protostellar Jet. <i>Astrophysical Journal Letters</i> , 2022, 931, L26.	8.3	3
99	Massive star-formation in G24.78+0.08 explored through VLBI maser observations. <i>Astronomy and Astrophysics</i> , 2008, 480, 793-795.	5.1	2
100	Probing the Obscuring Medium Around Active Nuclei Using Masers: The Case of 3C 403. <i>Astrophysics and Space Science</i> , 2005, 295, 117-123.	1.4	1
101	A 20-year H ₂ O maser monitoring program with the Medicina 32-m telescope. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 223-227.	0.0	1
102	Masers and Galactic structure: Micro-arcsecond astrometry with the VLBA. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 348-355.	0.0	1
103	VLBI maser kinematics in high-mass SFRs: G23.01-0.41. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 396-400.	0.0	1
104	Masers as probes of the gas dynamics close to forming high-mass stars. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 201-206.	0.0	1
105	Expansion of methanol maser rings. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 211-214.	0.0	1
106	CH ₃ OH and H ₂ O maser associations at very high angular resolution. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 190-195.	0.0	0
107	Evn Observations of H ₂ O Masers Towards the High-Mass Young Stellar Object in Aogl 5142. <i>Astrophysics and Space Science</i> , 2005, 295, 77-81.	1.4	0
108	Massive star-formation in G24.78+0.08 studied by means of maser VLBI and thermal interferometric observations. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 135-139.	0.0	0

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109	The distance to G59.7+0.1. Proceedings of the International Astronomical Union, 2007, 3, 374-375.	0.0	0
110	The distance to G59.7+0.1 and W3OH. Proceedings of the International Astronomical Union, 2007, 3, 214-216.	0.0	0
111	VLBI observations of H ₂ O and CH ₃ OH masers in two high-mass YSOs. Proceedings of the International Astronomical Union, 2007, 3, 152-153.	0.0	0
112	3D velocity fields from methanol and water masers in an intermediate-mass protostar. Proceedings of the International Astronomical Union, 2012, 8, 401-406.	0.0	0
113	Massive star-formation toward G28.87+0.07. Proceedings of the International Astronomical Union, 2012, 8, 180-181.	0.0	0
114	Methanol Maser Parallaxes and Proper Motions. Proceedings of the International Astronomical Union, 2012, 8, 368-376.	0.0	0
115	The innermost regions of massive protostars traced by masers, high-resolution radio continuum, and near-infrared imaging. Proceedings of the International Astronomical Union, 2017, 13, 289-290.	0.0	0
116	Thermal and non-thermal components of the interstellar medium at sub-kiloparsec scales in galaxies. Astronomy and Astrophysics, 2007, 461, 153-153.	5.1	0
117	RADIO CONTINUUM, CO, AND THERMAL INFRARED EMISSION IN NEARBY STAR-FORMING GALAXIES. , 2007, , 391-394.		0