

# Mario Tafalla

## List of Publications by Year in descending order

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32  
papers

2,800  
citations

489802

18  
h-index

511568

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1956  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Central 1000 au of a Prestellar Core Revealed with ALMA. II. Almost Complete Freeze-out. <i>Astrophysical Journal</i> , 2022, 929, 13.	1.6	34
2	Characterizing the line emission from molecular clouds. <i>Astronomy and Astrophysics</i> , 2021, 646, A97.	2.1	20
3	TRAO Survey of the Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	9
4	CS Depletion in Prestellar Cores. <i>Astrophysical Journal</i> , 2020, 891, 169.	1.6	8
5	Sulfur Chemistry in L1157-B1. <i>Astrophysical Journal</i> , 2019, 878, 64.	1.6	19
6	TRAO Survey of Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO FUNS). I. Dynamics and Chemistry of L1478 in the California Molecular Cloud. <i>Astrophysical Journal</i> , 2019, 877, 114.	1.6	12
7	LOFAR Surveys: a new window on the Universe. <i>Astronomy and Astrophysics</i> , 2019, 622, E1.	2.1	2
8	The Central 1000 au of a Pre-stellar Core Revealed with ALMA. I. 1.3 mm Continuum Observations. <i>Astrophysical Journal</i> , 2019, 874, 89.	1.6	43
9	INFALL/EXPANSION VELOCITIES IN THE LOW-MASS DENSE CORES L492, L694-2, AND L1521F: DEPENDENCE ON POSITION AND MOLECULAR TRACER. <i>Astrophysical Journal</i> , 2016, 833, 97.	1.6	10
10	Observational studies of the formation and evolution of dense cores. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 95-102.	0.0	1
11	MOLECULAR JET OF IRAS 04166+2706. <i>Astrophysical Journal</i> , 2014, 780, 49.	1.6	15
12	THE WATER ABUNDANCE BEHIND INTERSTELLAR SHOCKS: RESULTS FROM <i>HERSCHEL</i> /PACS AND <i>SPITZER</i> /IRS OBSERVATIONS OF H <sub>2</sub> O, CO, AND H <sub>2</sub> . <i>Astrophysical Journal</i> , 2014, 781, 102.	1.6	20
13	FIRST DETECTION OF WATER VAPOR IN A PRE-STELLAR CORE. <i>Astrophysical Journal Letters</i> , 2012, 759, L37.	3.0	148
14	THE ENIGMATIC CORE L1451-mm: A FIRST HYDROSTATIC CORE? OR A HIDDEN VELLO?. <i>Astrophysical Journal</i> , 2011, 743, 201.	1.6	87
15	Molecules in Bipolar Outflows. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 88-102.	0.0	6
16	DENSE GAS TRACERS IN PERSEUS: RELATING THE N <sub>2</sub> H <sup>+</sup> , NH <sub>3</sub> , AND DUST CONTINUUM PROPERTIES OF PRE- AND PROTOSTELLAR CORES. <i>Astrophysical Journal</i> , 2010, 711, 655-670.	1.6	42
17	Wide Field JCMT HARP-B CO(3-2) Mapping of the Serpens Cloud Core. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009, , 535-537.	0.3	0
18	Studies of dense cores with ALMA. <i>Astrophysics and Space Science</i> , 2008, 313, 123-128.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Complex Molecules in the L1157 Molecular Outflow. <i>Astrophysical Journal</i> , 2008, 681, L21-L24.	1.6	139
20	Studies of dense cores with ALMA. , 2008, , 123-128.		0
21	Dynamics of Dense Cores in the Perseus Molecular Cloud. <i>Astrophysical Journal</i> , 2007, 668, 1042-1063.	1.6	130
22	Cold Dark Clouds: The Initial Conditions for Star Formation. <i>Annual Review of Astronomy and Astrophysics</i> , 2007, 45, 339-396.	8.1	757
23	The COMPLETE Survey of Star-Forming Regions: Phase I Data. <i>Astronomical Journal</i> , 2006, 131, 2921-2933.	1.9	227
24	Inner Structure of Starless Core L694â€² Derived from Millimeterâ€²Wave Interferometry. <i>Astrophysical Journal</i> , 2003, 597, 424-433.	1.6	15
25	Inner Structure of Protostellar Collapse Candidate B335 Derived from Millimeterâ€²Wave Interferometry. <i>Astrophysical Journal</i> , 2003, 583, 809-818.	1.6	37
26	Disk Properties and Density Structure of the Starâ€²forming Dense Core B335. <i>Astrophysical Journal</i> , 2003, 596, 383-388.	1.6	48
27	Dense Cores in Dark Clouds. XIV. N <sub>2</sub> H+(1â€²0) Maps of Dense Cloud Cores. <i>Astrophysical Journal</i> , 2002, 572, 238-263.	1.6	487
28	A Survey for Infall Motions toward Starless Cores. II. CS (2â€²1) and N <sub>2</sub> H + (1â€²0) Mapping Observations. <i>Astrophysical Journal</i> , Supplement Series, 2001, 136, 703-734.	3.0	188
29	A Survey of Infall Motions toward Starless Cores. I. CS (2â€²1) and N <sub>2</sub> H+(1â€²0) Observations. <i>Astrophysical Journal</i> , 1999, 526, 788-805.	1.6	168
30	Velocity Shifts in L1228: The Disruption of a Core by an Outflow. <i>Astrophysical Journal</i> , 1997, 491, 653-662.	1.6	34
31	The distribution of molecules in the circumstellar envelope of IRC + 10216 - HC <sub>3</sub> N, C <sub>3</sub> N, and SiS. <i>Astronomical Journal</i> , 1993, 105, 576.	1.9	89
32	Starless Cores. , 0, , 31-46.		1