Mario Tafalla

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3625775/publications.pdf

Version: 2024-02-01

32 papers	2,800 citations	430754 18 h-index	454834 30 g-index
33 all docs	33 docs citations	33 times ranked	1818 citing authors

#	Article	IF	Citations
1	Cold Dark Clouds: The Initial Conditions for Star Formation. Annual Review of Astronomy and Astrophysics, 2007, 45, 339-396.	8.1	757
2	Dense Cores in Dark Clouds. XIV. N2H+(1â€“0) Maps of Dense Cloud Cores. Astrophysical Journal, 2002, 572, 238-263.	1.6	487
3	The COMPLETE Survey of Star-Forming Regions: Phase I Data. Astronomical Journal, 2006, 131, 2921-2933.	1.9	227
4	A Survey for Infall Motions toward Starless Cores. II. CS (2â€“1) and N 2 H + (1â€“0) Mapping Observations. Astrophysical Journal, Supplement Series, 2001, 136, 703-734.	3.0	188
5	A Survey of Infall Motions toward Starless Cores. I. CS (2â€“1) and N2H+(1â€“0) Observations. Astrophysical Journal, 1999, 526, 788-805.	1.6	168
6	FIRST DETECTION OF WATER VAPOR IN A PRE-STELLAR CORE. Astrophysical Journal Letters, 2012, 759, L37.	3.0	148
7	Complex Molecules in the L1157 Molecular Outflow. Astrophysical Journal, 2008, 681, L21-L24.	1.6	139
8	Dynamics of Dense Cores in the Perseus Molecular Cloud. Astrophysical Journal, 2007, 668, 1042-1063.	1.6	130
9	The distribution of molecules in the circumstellar envelope of IRC + 10216 - HC3N, C3N, and SiS. Astronomical Journal, 1993, 105, 576.	1.9	89
10	THE ENIGMATIC CORE L1451-mm: A FIRST HYDROSTATIC CORE? OR A HIDDEN VeLLO?. Astrophysical Journal, 2011, 743, 201.	1.6	87
11	Disk Properties and Density Structure of the Starâ€forming Dense Core B335. Astrophysical Journal, 2003, 596, 383-388.	1.6	48
12	The Central 1000 au of a Pre-stellar Core Revealed with ALMA. I. 1.3 mm Continuum Observations. Astrophysical Journal, 2019, 874, 89.	1.6	43
13	DENSE GAS TRACERS IN PERSEUS: RELATING THE N₂H⁺, NH₃, AND DUST CONTINUUM PROPERTIES OF PRE- AND PROTOSTELLAR CORES. Astrophysical Journal, 2010, 711, 655-670.	1.6	42
14	Inner Structure of Protostellar Collapse Candidate B335 Derived from Millimeterâ€Wave Interferometry. Astrophysical Journal, 2003, 583, 809-818.	1.6	37
15	Velocity Shifts in L1228: The Disruption of a Core by an Outflow. Astrophysical Journal, 1997, 491, 653-662.	1.6	34
16	The Central 1000 au of a Prestellar Core Revealed with ALMA. II. Almost Complete Freeze-out. Astrophysical Journal, 2022, 929, 13.	1.6	34
17	THE WATER ABUNDANCE BEHIND INTERSTELLAR SHOCKS: RESULTS FROMHERSCHEL/PACS ANDSPITZER/IRS OBSERVATIONS OF H₂O, CO, AND H₂. Astrophysical Journal, 2014, 781, 102.	1.6	20
18	Characterizing the line emission from molecular clouds. Astronomy and Astrophysics, 2021, 646, A97.	2.1	20

#	Article	IF	Citations
19	Sulfur Chemistry in L1157-B1. Astrophysical Journal, 2019, 878, 64.	1.6	19
20	Inner Structure of Starless Core L694â€2 Derived from Millimeterâ€Wave Interferometry. Astrophysical Journal, 2003, 597, 424-433.	1.6	15
21	MOLECULAR JET OF IRAS 04166+2706. Astrophysical Journal, 2014, 780, 49.	1.6	15
22	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. Astrophysical Journal, 2019, 877, 114.	1.6	12
23	INFALL/EXPANSION VELOCITIES IN THE LOW-MASS DENSE CORES L492, L694-2, AND L1521F: DEPENDENCE ON POSITION AND MOLECULAR TRACER. Astrophysical Journal, 2016, 833, 97.	1.6	10
24	TRAO Survey of the Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.6	9
25	CS Depletion in Prestellar Cores. Astrophysical Journal, 2020, 891, 169.	1.6	8
26	Molecules in Bipolar Outflows. Proceedings of the International Astronomical Union, 2011, 7, 88-102.	0.0	6
27	Studies of dense cores with ALMA. Astrophysics and Space Science, 2008, 313, 123-128.	0.5	3
28	LOFAR Surveys: a new window on the Universe. Astronomy and Astrophysics, 2019, 622, E1.	2.1	2
29	Observational studies of the formation and evolution of dense cores. Proceedings of the International Astronomical Union, 2015, 11, 95-102.	0.0	1
30	Starless Cores. , 0, , 31-46.		1
31	Wide Field JCMT HARP-B CO(3-2) Mapping of the Serpens Cloud Core. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 535-537.	0.3	0
32	Studies of dense cores with ALMA. , 2008, , 123-128.		0