Nuria Marcelino

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1070205/publications.pdf

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60 papers

4,441 citations

39 h-index 60 g-index

60 all docs 60 docs citations

times ranked

60

3305 citing authors

#	Article	IF	CITATIONS
1	A study of C ₄ H ₃ N isomers in TMC-1: Line by line detection of HCCCH ₂ CN. Astronomy and Astrophysics, 2021, 646, L9.	5.1	28
2	Space and laboratory discovery of HC ₃ S ⁺ . Astronomy and Astrophysics, 2021, 646, L3.	5.1	43
3	Discovery of the acetyl cation, CH ₃ CO ⁺ , in space and in the laboratory. Astronomy and Astrophysics, 2021, 646, L7.	5.1	36
4	Discovery of CH ₂ CHCCH and detection of HCCN, HC ₄ N, CH ₃ CH ₂ CCH in TMC-1. Astronomy and Astrophysics, 2021, 647, L2.	5.1	41
5	Discovery of the propargyl radical (CH ₂ CCH) in TMC-1: One of the most abundant radicals ever found and a key species for cyclization to benzene in cold dark clouds. Astronomy and Astrophysics, 2021, 647, L10.	5.1	47
6	Discovery of allenyl acetylene, H ₂ CCCHCCH, in TMC-1. Astronomy and Astrophysics, 2021, 647, L3.	5.1	30
7	TMC-1, the starless core sulfur factory: Discovery of NCS, HCCS, H ₂ CCS, H ₂ S and C ₄ S and detection of C ₅ S. Astronomy and Astrophysics, 2021, 648, L3.	5.1	59
8	Space and laboratory observation of the deuterated cyanomethyl radical HDCCN. Astronomy and Astrophysics, 2021, 646, L1.	5.1	30
9	Molecular globules in the Veil bubble of Orion. Astronomy and Astrophysics, 2020, 639, A1.	5.1	18
10	Interstellar nitrile anions: Detection of C ₃ N ^{â^'} and C ₅ N ^{â^'} in TMC-1. Astronomy and Astrophysics, 2020, 641, L9.	5.1	53
11	Discovery of HC ₄ NC in TMC-1: A study of the isomers of HC ₃ N, HC ₅ N, and HC ₇ N. Astronomy and Astrophysics, 2020, 642, L8.	5.1	53
12	Discovery of HC ₃ O ⁺ in space: The chemistry of O-bearing species in TMC-1. Astronomy and Astrophysics, 2020, 642, L17.	5.1	49
13	Tentative detection of HC ₅ NH ⁺ in TMC-1. Astronomy and Astrophysics, 2020, 643, L6.	5.1	40
14	Molecular tracers of radiative feedback in Orion (OMC-1). Astronomy and Astrophysics, 2019, 622, A91.	5.1	23
15	Oxygen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5777-5789.	4.4	27
16	Astrochemical evolution along star formation: overview of the IRAM Large Program ASAI. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4792-4809.	4.4	85
17	The interstellar chemistry of C3H and C3H2 isomers. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4075-4088.	4.4	58
18	THE SPATIAL DISTRIBUTION OF COMPLEX ORGANIC MOLECULES IN THE L1544 PRE-STELLAR CORE. Astrophysical Journal Letters, 2016, 830, L6.	8.3	171

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19	lonization fraction and the enhanced sulfur chemistry in Barnard 1. Astronomy and Astrophysics, 2016, 593, A94.	5.1	51
20	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. Nature, 2016, 537, 207-209.	27.8	94
21	The interstellar chemistry of H ₂ C ₃ O isomers. Monthly Notices of the Royal Astronomical Society, 2016, 456, 4101-4110.	4.4	63
22	HINTS OF A ROTATING SPIRAL STRUCTURE IN THE INNERMOST REGIONS AROUND IRC +10216. Astrophysical Journal, 2016, 818, 192.	4.5	24
23	THE 2014 ALMA LONG BASELINE CAMPAIGN: AN OVERVIEW. Astrophysical Journal Letters, 2015, 808, L1.	8.3	90
24	Molecular shells in IRC+10216: tracing the mass loss history. Astronomy and Astrophysics, 2015, 575, A91.	5.1	65
25	THE 2014 ALMA LONG BASELINE CAMPAIGN: OBSERVATIONS OF THE STRONGLY LENSED SUBMILLIMETER GALAXY HATLAS J090311.6+003906 AT <i>z</i> = 3.042. Astrophysical Journal Letters, 2015, 808, L4.	8.3	86
26	Probing non-polar interstellar molecules through their protonated form: Detection of protonated cyanogen (NCCNH ⁺). Astronomy and Astrophysics, 2015, 579, L10.	5.1	79
27	THE 2014 ALMA LONG BASELINE CAMPAIGN: OBSERVATIONS OF ASTEROID 3 JUNO AT 60 KILOMETER RESOLUTION. Astrophysical Journal Letters, 2015, 808, L2.	8.3	15
28	THE PECULIAR DISTRIBUTION OF CH ₃ CN IN IRC +10216 SEEN BY ALMA. Astrophysical Journal, 2015, 814, 143.	4.5	23
29	Nascent bipolar outflows associated with the first hydrostatic core candidates Barnard 1b-N and 1b-S. Astronomy and Astrophysics, 2015, 577, L2.	5.1	48
30	Si-BEARING MOLECULES TOWARD IRC+10216: ALMA UNVEILS THE MOLECULAR ENVELOPE OF CWLeo. Astrophysical Journal Letters, 2015, 805, L13.	8.3	40
31	THE 2014 ALMA LONG BASELINE CAMPAIGN: FIRST RESULTS FROM HIGH ANGULAR RESOLUTION OBSERVATIONS TOWARD THE HL TAU REGION. Astrophysical Journal Letters, 2015, 808, L3.	8.3	877
32	VELOCITY-RESOLVED [C ii] EMISSION AND [C ii]/FIR MAPPING ALONG ORION WITH <i>HERSCHEL</i> Astrophysical Journal, 2015, 812, 75.	4.5	88
33	Extended warm gas in Orion KL as probed by methyl cyanide. Astronomy and Astrophysics, 2014, 564, All4.	5.1	23
34	IRAM 30 m LARGE SCALE SURVEY OF ¹² CO(2-1) AND ¹³ CO(2-1) EMISSION IN THE ORION MOLECULAR CLOUD. Astrophysical Journal, 2014, 795, 13.	4.5	36
35	TENTATIVE DETECTION OF THE NITROSYLIUM ION IN SPACE. Astrophysical Journal, 2014, 795, 40.	4.5	26
36	<i>HERSCHEL</i> OBSERVATIONS OF EXTRAORDINARY SOURCES: ANALYSIS OF THE HIFI 1.2 THz WIDE SPECTRAL SURVEY TOWARD ORION KL. I. METHODS. Astrophysical Journal, 2014, 787, 112.	4.5	106

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37	INVESTIGATION OF HNCO ISOMER FORMATION IN ICE MANTLES BY UV AND THERMAL PROCESSING: AN EXPERIMENTAL APPROACH. Astrophysical Journal, 2014, 788, 19.	4.5	24
38	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. Astronomy and Astrophysics, 2014, 572, A44.	5.1	60
39	LABORATORY CHARACTERIZATION AND ASTROPHYSICAL DETECTION OF VIBRATIONALLY EXCITED STATES OF ETHYL CYANIDE. Astrophysical Journal, 2013, 768, 81.	4.5	50
40	DETECTION OF THE AMMONIUM ION IN SPACE. Astrophysical Journal Letters, 2013, 771, L10.	8.3	56
41	CH ₂ D ⁺ , the Search for the Holy Grail. Journal of Physical Chemistry A, 2013, 117, 9959-9967.	2.5	45
42	UNVEILING THE DUST NUCLEATION ZONE OF IRC+10216 WITH ALMA. Astrophysical Journal Letters, 2013, 778, L25.	8.3	60
43	A line confusion-limited millimeter survey of Orion KL. Astronomy and Astrophysics, 2013, 556, A143.	5.1	57
44	Nitrogen isotopic ratios in Barnard 1: a consistent study of the N ₂ H ⁺ , NH ₃ , CN, HCN, and HNC isotopologues. Astronomy and Astrophysics, 2013, 560, A3.	5.1	90
45	Combined IRAM and <i>Herschel </i> /IHIFI study of cyano (di) acetylene in Orion KL: tentative detection of DC < sub > 3 < / sub > N. Astronomy and Astrophysics, 2013, 559, A51.	5.1	29
46	DISCOVERY OF THE METHOXY RADICAL, CH ₃ O, TOWARD B1: DUST GRAIN AND GAS-PHASE CHEMISTRY IN COLD DARK CLOUDS. Astrophysical Journal Letters, 2012, 759, L43.	8.3	243
47	Probing the dust formation region in IRC +10216 with the high vibrational states of hydrogen cyanide. Astronomy and Astrophysics, 2011, 529, L3.	5.1	37
48	A line-confusion limited millimeter survey of Orion KL. Astronomy and Astrophysics, 2011, 528, A26.	5.1	75
49	The Kelvin-Helmholtz instability as a source of turbulence in Orion. EAS Publications Series, 2011, 52, 281-282.	0.3	1
50	The puzzling behavior of HNCO isomers in molecular clouds. Astronomy and Astrophysics, 2010, 516, A105.	5.1	59
51	Astronomical identification of CN ⁻ , the smallest observed molecular anion. Astronomy and Astrophysics, 2010, 517, L2.	5.1	207
52	Waves on the surface of the Orion molecular cloud. Nature, 2010, 466, 947-949.	27.8	44
53	Molecular content of the circumstellar disk in ABÂAurigae. Astronomy and Astrophysics, 2010, 524, A19.	5.1	44
54	ROTATIONAL SPECTRUM AND TENTATIVE DETECTION OF DCOOCH (sub) 3 (/sub) - METHYL FORMATE IN ORION. Astrophysical Journal, 2010, 714, 1120-1132.	4.5	46

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55	Detection of ¹⁵ NH ₂ D in dense cores: a new tool for measuring the ¹⁴ N/ ¹⁵ N ratio in the cold ISM. Astronomy and Astrophysics, 2009, 498, L9-L12.	5.1	63
56	DISCOVERY OF FULMINIC ACID, HCNO, IN DARK CLOUDS. Astrophysical Journal, 2009, 690, L27-L30.	4.5	114
57	Molecular outflows towards O-type young stellar objects. Astronomy and Astrophysics, 2009, 499, 811-825.	5.1	66
58	Organic Chemistry in the Dark Clouds L1448 and L183: A Unique Grain Mantle Composition. Astrophysical Journal, 2007, 655, L37-L40.	4.5	31
59	Discovery of Interstellar Propylene (CH ₂ CHCH ₃): Missing Links in Interstellar Gas-Phase Chemistry. Astrophysical Journal, 2007, 665, L127-L130.	4.5	146
60	Deuterated Thioformaldehyde in the Barnard 1 Cloud. Astrophysical Journal, 2005, 620, 308-320.	4.5	69