

Nuria Marcelino

List of Publications by Year in descending order

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60
papers

4,441
citations

81900

39
h-index

128289

60
g-index

60
all docs

60
docs citations

60
times ranked

3305
citing authors

#	ARTICLE	IF	CITATIONS
1	THE 2014 ALMA LONG BASELINE CAMPAIGN: FIRST RESULTS FROM HIGH ANGULAR RESOLUTION OBSERVATIONS TOWARD THE HL TAU REGION. <i>Astrophysical Journal Letters</i> , 2015, 808, L3.	8.3	877
2	DISCOVERY OF THE METHOXY RADICAL, CH ₃ O, TOWARD B1: DUST GRAIN AND GAS-PHASE CHEMISTRY IN COLD DARK CLOUDS. <i>Astrophysical Journal Letters</i> , 2012, 759, L43.	8.3	243
3	Astronomical identification of CN ⁻ , the smallest observed molecular anion. <i>Astronomy and Astrophysics</i> , 2010, 517, L2.	5.1	207
4	THE SPATIAL DISTRIBUTION OF COMPLEX ORGANIC MOLECULES IN THE L1544 PRE-STELLAR CORE. <i>Astrophysical Journal Letters</i> , 2016, 830, L6.	8.3	171
5	Discovery of Interstellar Propylene (CH ₂ CHCH ₃): Missing Links in Interstellar Gas-Phase Chemistry. <i>Astrophysical Journal</i> , 2007, 665, L127-L130.	4.5	146
6	DISCOVERY OF FULMINIC ACID, HCNO, IN DARK CLOUDS. <i>Astrophysical Journal</i> , 2009, 690, L27-L30.	4.5	114
7	<i>HERSCHEL</i> OBSERVATIONS OF EXTRAORDINARY SOURCES: ANALYSIS OF THE HIFI 1.2 THz WIDE SPECTRAL SURVEY TOWARD ORION KL. I. METHODS. <i>Astrophysical Journal</i> , 2014, 787, 112.	4.5	106
8	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. <i>Nature</i> , 2016, 537, 207-209.	27.8	94
9	Nitrogen isotopic ratios in Barnard 1: a consistent study of the N ₂ H ⁺ , NH ₃ , CN, HCN, and HNC isotopologues. <i>Astronomy and Astrophysics</i> , 2013, 560, A3.	5.1	90
10	THE 2014 ALMA LONG BASELINE CAMPAIGN: AN OVERVIEW. <i>Astrophysical Journal Letters</i> , 2015, 808, L1.	8.3	90
11	VELOCITY-RESOLVED [C ii] EMISSION AND [C ii]/FIR MAPPING ALONG ORION WITH <i>HERSCHEL</i> . <i>Astrophysical Journal</i> , 2015, 812, 75.	4.5	88
12	THE 2014 ALMA LONG BASELINE CAMPAIGN: OBSERVATIONS OF THE STRONGLY LENSED SUBMILLIMETER GALAXY HATLAS J090311.6+003906 AT $z = 3.042$. <i>Astrophysical Journal Letters</i> , 2015, 808, L4.	8.3	86
13	Astrochemical evolution along star formation: overview of the IRAM Large Program ASAI. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4792-4809.	4.4	85
14	Probing non-polar interstellar molecules through their protonated form: Detection of protonated cyanogen (NCCNH ⁺). <i>Astronomy and Astrophysics</i> , 2015, 579, L10.	5.1	79
15	A line-confusion limited millimeter survey of Orion KL. <i>Astronomy and Astrophysics</i> , 2011, 528, A26.	5.1	75
16	Deuterated Thioformaldehyde in the Barnard 1 Cloud. <i>Astrophysical Journal</i> , 2005, 620, 308-320.	4.5	69
17	Molecular outflows towards O-type young stellar objects. <i>Astronomy and Astrophysics</i> , 2009, 499, 811-825.	5.1	66
18	Molecular shells in IRC+10216: tracing the mass loss history. <i>Astronomy and Astrophysics</i> , 2015, 575, A91.	5.1	65

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19	Detection of $^{15}\text{NH}_2\text{D}$ in dense cores: a new tool for measuring the $^{14}\text{N}/^{15}\text{N}$ ratio in the cold ISM. <i>Astronomy and Astrophysics</i> , 2009, 498, L9-L12.	5.1	63
20	The interstellar chemistry of $\text{H}_2\text{C}_3\text{O}$ isomers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 4101-4110.	4.4	63
21	UNVEILING THE DUST NUCLEATION ZONE OF IRC+10216 WITH ALMA. <i>Astrophysical Journal Letters</i> , 2013, 778, L25.	8.3	60
22	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. <i>Astronomy and Astrophysics</i> , 2014, 572, A44.	5.1	60
23	The puzzling behavior of HNCO isomers in molecular clouds. <i>Astronomy and Astrophysics</i> , 2010, 516, A105.	5.1	59
24	TMC-1, the starless core sulfur factory: Discovery of NCS, HCCS, H_2CCS , H_2CCCS , and C_4S and detection of C_5S . <i>Astronomy and Astrophysics</i> , 2021, 648, L3.	5.1	59
25	The interstellar chemistry of C_3H and C_3H_2 isomers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4075-4088.	4.4	58
26	A line confusion-limited millimeter survey of Orion KL. <i>Astronomy and Astrophysics</i> , 2013, 556, A143.	5.1	57
27	DETECTION OF THE AMMONIUM ION IN SPACE. <i>Astrophysical Journal Letters</i> , 2013, 771, L10.	8.3	56
28	Interstellar nitrile anions: Detection of C_3N^+ and C_5N^+ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 641, L9.	5.1	53
29	Discovery of HC_4NC in TMC-1: A study of the isomers of HC_3N , HC_5N , and HC_7N . <i>Astronomy and Astrophysics</i> , 2020, 642, L8.	5.1	53
30	Ionization fraction and the enhanced sulfur chemistry in Barnard 1. <i>Astronomy and Astrophysics</i> , 2016, 593, A94.	5.1	51
31	LABORATORY CHARACTERIZATION AND ASTROPHYSICAL DETECTION OF VIBRATIONALLY EXCITED STATES OF ETHYL CYANIDE. <i>Astrophysical Journal</i> , 2013, 768, 81.	4.5	50
32	Discovery of HC_3O^+ in space: The chemistry of O-bearing species in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 642, L17.	5.1	49
33	Nascent bipolar outflows associated with the first hydrostatic core candidates Barnard 1b-N and 1b-S. <i>Astronomy and Astrophysics</i> , 2015, 577, L2.	5.1	48
34	Discovery of the propargyl radical (CH_2CCH) in TMC-1: One of the most abundant radicals ever found and a key species for cyclization to benzene in cold dark clouds. <i>Astronomy and Astrophysics</i> , 2021, 647, L10.	5.1	47
35	ROTATIONAL SPECTRUM AND TENTATIVE DETECTION OF DCOOCH_3 -METHYL FORMATE IN ORION. <i>Astrophysical Journal</i> , 2010, 714, 1120-1132.	4.5	46
36	CH_2D^+ , the Search for the Holy Grail. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9959-9967.	2.5	45

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37	Waves on the surface of the Orion molecular cloud. <i>Nature</i> , 2010, 466, 947-949.	27.8	44
38	Molecular content of the circumstellar disk in AB Aurigae. <i>Astronomy and Astrophysics</i> , 2010, 524, A19.	5.1	44
39	Space and laboratory discovery of HC ₃ S ⁺ . <i>Astronomy and Astrophysics</i> , 2021, 646, L3.	5.1	43
40	Discovery of CH ₂ CHCCH and detection of HCCN, HC ₄ N, CH ₃ CH ₂ CN, and, tentatively, CH ₃ CH ₂ CCH in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L2.	5.1	41
41	Si-BEARING MOLECULES TOWARD IRC+10216: ALMA UNVEILS THE MOLECULAR ENVELOPE OF CWLeo. <i>Astrophysical Journal Letters</i> , 2015, 805, L13.	8.3	40
42	Tentative detection of HC ₅ NH ⁺ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 643, L6.	5.1	40
43	Probing the dust formation region in IRC +10216 with the high vibrational states of hydrogen cyanide. <i>Astronomy and Astrophysics</i> , 2011, 529, L3.	5.1	37
44	IRAM 30 m LARGE SCALE SURVEY OF ¹² CO(2-1) AND ¹³ CO(2-1) EMISSION IN THE ORION MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2014, 795, 13.	4.5	36
45	Discovery of the acetyl cation, CH ₃ CO ⁺ , in space and in the laboratory. <i>Astronomy and Astrophysics</i> , 2021, 646, L7.	5.1	36
46	Organic Chemistry in the Dark Clouds L1448 and L183: A Unique Grain Mantle Composition. <i>Astrophysical Journal</i> , 2007, 655, L37-L40.	4.5	31
47	Discovery of allenyl acetylene, H ₂ CCCHCCH, in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L3.	5.1	30
48	Space and laboratory observation of the deuterated cyanomethyl radical HDCCN. <i>Astronomy and Astrophysics</i> , 2021, 646, L1.	5.1	30
49	Combined IRAM and <i>Herschel</i> /HIFI study of cyano(di)acetylene in Orion KL: tentative detection of DC ₃ N. <i>Astronomy and Astrophysics</i> , 2013, 559, A51.	5.1	29
50	A study of C ₄ H ₃ N isomers in TMC-1: Line by line detection of HCCCH ₂ CN. <i>Astronomy and Astrophysics</i> , 2021, 646, L9.	5.1	28
51	Oxygen fractionation in dense molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5777-5789.	4.4	27
52	TENTATIVE DETECTION OF THE NITROSYLIUM ION IN SPACE. <i>Astrophysical Journal</i> , 2014, 795, 40.	4.5	26
53	INVESTIGATION OF HNCO ISOMER FORMATION IN ICE MANTLES BY UV AND THERMAL PROCESSING: AN EXPERIMENTAL APPROACH. <i>Astrophysical Journal</i> , 2014, 788, 19.	4.5	24
54	HINTS OF A ROTATING SPIRAL STRUCTURE IN THE INNERMOST REGIONS AROUND IRC +10216. <i>Astrophysical Journal</i> , 2016, 818, 192.	4.5	24

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55	Extended warm gas in Orion KL as probed by methyl cyanide. <i>Astronomy and Astrophysics</i> , 2014, 564, A114.	5.1	23
56	THE PECULIAR DISTRIBUTION OF CH ₃ CN IN IRC +10216 SEEN BY ALMA. <i>Astrophysical Journal</i> , 2015, 814, 143.	4.5	23
57	Molecular tracers of radiative feedback in Orion (OMC-1). <i>Astronomy and Astrophysics</i> , 2019, 622, A91.	5.1	23
58	Molecular globules in the Veil bubble of Orion. <i>Astronomy and Astrophysics</i> , 2020, 639, A1.	5.1	18
59	THE 2014 ALMA LONG BASELINE CAMPAIGN: OBSERVATIONS OF ASTEROID 3 JUNO AT 60 KILOMETER RESOLUTION. <i>Astrophysical Journal Letters</i> , 2015, 808, L2.	8.3	15
60	The Kelvin-Helmholtz instability as a source of turbulence in Orion. <i>EAS Publications Series</i> , 2011, 52, 281-282.	0.3	1