

# BelÃ©n Tercero

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,295  
citations

331670

21  
h-index

377865

34  
g-index

39  
all docs

39  
docs citations

39  
times ranked

466  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pure hydrocarbon cycles in TMC-1: Discovery of ethynyl cyclopropenylidene, cyclopentadiene, and indene. <i>Astronomy and Astrophysics</i> , 2021, 649, L15.	5.1	151
2	Discovery of benzyne, $C_6H_4$ , in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2021, 652, L9.	5.1	80
3	Discovery in space of ethanolamine, the simplest phospholipid head group. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	62
4	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
5	Discovery of the Ubiquitous Cation $NS^+$ in Space Confirmed by Laboratory Spectroscopy. <i>Astrophysical Journal Letters</i> , 2018, 853, L22.	8.3	54
6	Interstellar nitrile anions: Detection of $C_3N^{\sim}$ and $C_5N^{\sim}$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 641, L9.	5.1	53
7	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
8	Thiols in the Interstellar Medium: First Detection of $HC(O)SH$ and Confirmation of $C_2H_5SH$ . <i>Astrophysical Journal Letters</i> , 2021, 912, L11.	8.3	53
9	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
10	Discovery of two isomers of ethynyl cyclopentadiene in TMC-1: Abundances of CCH and CN derivatives of hydrocarbon cycles. <i>Astronomy and Astrophysics</i> , 2021, 655, L1.	5.1	49
11	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
12	Space and laboratory discovery of $HC_3S^+$ . <i>Astronomy and Astrophysics</i> , 2021, 646, L3.	5.1	43
13	Precursors of the RNA World in Space: Detection of (Z)-1,2-ethenediol in the Interstellar Medium, a Key Intermediate in Sugar Formation. <i>Astrophysical Journal Letters</i> , 2022, 929, L11.	8.3	43
14	Discovery of $CH_2CHCCH$ and detection of HCCN, $HC_4N$ , $CH_3CH_2CN$ , and, tentatively, $CH_3CH_2CCH$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L2.	5.1	41
15	O-bearing complex organic molecules at the cyanopolyne peak of TMC-1: Detection of $C_2H_3CHO$ , $C_2H_3OH$ , $HCOOCH_3$ , and $CH_3OCH_3$ . <i>Astronomy and Astrophysics</i> , 2021, 649, L4.	5.1	41
16	Tentative detection of $HC_5NH^+$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 643, L6.	5.1	40
17	The sulphur saga in TMC-1: Discovery of HCSCN and HCSCCH. <i>Astronomy and Astrophysics</i> , 2021, 650, L14.	5.1	31
18	Discovery of allenyl acetylene, $H_2CCCHCCH$ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L3.	5.1	30

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19	Space and laboratory observation of the deuterated cyanomethyl radical HDCCN. <i>Astronomy and Astrophysics</i> , 2021, 646, L1.	5.1	30
20	A study of C <sub>4</sub> H <sub>3</sub> N isomers in TMC-1: Line by line detection of HCCCH <sub>2</sub> CN. <i>Astronomy and Astrophysics</i> , 2021, 646, L9.	5.1	28
21	Probing the Chemical Complexity of Amines in the ISM: Detection of Vinylamine (C <sub>2</sub> H <sub>3</sub> NH <sub>2</sub> ) and Tentative Detection of Ethylamine (C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub> ). <i>Astrophysical Journal Letters</i> , 2021, 920, L27.	8.3	28
22	Magnesium radicals MgC <sub>5</sub> N and MgC <sub>6</sub> H in IRC +10216. <i>Astronomy and Astrophysics</i> , 2021, 652, L13.	5.1	22
23	Cumulene carbenes in TMC-1: Astronomical discovery of <i>l</i> -H <sub>2</sub> C <sub>5</sub> . <i>Astronomy and Astrophysics</i> , 2021, 650, L9.	5.1	21
24	Discovery of the elusive thioketenylium, HCCS <sup>+</sup> , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 657, L4.	5.1	21
25	Ionize Hard: Interstellar PO <sup>+</sup> Detection. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	20
26	Discovery of C <sub>5</sub> H <sup>+</sup> and detection of C <sub>3</sub> H <sup>+</sup> in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L16.	5.1	18
27	Discovery of HCCCO and C <sub>5</sub> O in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2021, 656, L21.	5.1	17
28	Interstellar detection of the simplest aminocarbyne H <sub>2</sub> NC: an ignored but abundant molecule. <i>Astronomy and Astrophysics</i> , 2021, 654, A45.	5.1	16
29	Detection of the propargyl radical at <i>l</i> 3 mm. <i>Astronomy and Astrophysics</i> , 2022, 657, A96.	5.1	14
30	A new protonated molecule discovered in TMC-1: HCCNCH <sup>+</sup> . <i>Astronomy and Astrophysics</i> , 2022, 659, L9.	5.1	14
31	Discovery of a new molecular ion, HC <sub>7</sub> NH <sup>+</sup> , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 659, L8.	5.1	13
32	Molecular Precursors of the RNA-World in Space: New Nitriles in the G+0.693 <sup>+</sup> 0.027 Molecular Cloud. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	12
33	Detection of deuterated methylcyanoacetylene, CH <sub>2</sub> DC <sub>3</sub> N, in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 650, L15.	5.1	11
34	Discovery of interstellar 3-cyano propargyl radical, CH <sub>2</sub> CCCN. <i>Astronomy and Astrophysics</i> , 2021, 654, L9.	5.1	10
35	MILLIMETER WAVE SPECTRUM AND ASTRONOMICAL SEARCH FOR VINYL FORMATE. <i>Astrophysical Journal</i> , 2016, 832, 42.	4.5	6
36	New deuterated species in TMC-1: Detection of CH <sub>2</sub> DC <sub>4</sub> H with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L5.	5.1	6

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37	Discovery of CH <sub>2</sub> CCHC <sub>4</sub> H and a rigorous detection of CH <sub>2</sub> CCHC <sub>3</sub> N in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 663, L3.	5.1	4
38	Comprehensive rotational study and astronomical search for cyclopropanecarboxaldehyde. <i>Astronomy and Astrophysics</i> , 2021, 645, A75.	5.1	3
39	Rotational spectroscopic study of S-methyl thioformate. <i>Astronomy and Astrophysics</i> , 2020, 644, A102.	5.1	2