

# 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	Discovery of the elusive thioketenylum, $\text{HCCS}^+$ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 657, L4.	5.1	21
2	New deuterated species in TMC-1: Detection of $\text{CH}_2\text{DC}_4\text{H}$ with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L5.	5.1	6
3	Detection of the propargyl radical at $\lambda = 3$ mm. <i>Astronomy and Astrophysics</i> , 2022, 657, A96.	5.1	14
4	Discovery of $\text{C}_5\text{H}^+$ and detection of $\text{C}_3\text{H}^+$ in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L16.	5.1	18
5	Discovery of a new molecular ion, $\text{HC}_7\text{NH}^+$ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 659, L8.	5.1	13
6	A new protonated molecule discovered in TMC-1: $\text{HCCNCH}^+$ . <i>Astronomy and Astrophysics</i> , 2022, 659, L9.	5.1	14
7	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
8	Ionize Hard: Interstellar $\text{PO}^+$ Detection. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	20
9	Discovery of $\text{CH}_2\text{CCHC}_4\text{H}$ and a rigorous detection of $\text{CH}_2\text{CCHC}_3\text{N}$ in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 663, L3.	5.1	4
10	Comprehensive rotational study and astronomical search for cyclopropanecarboxaldehyde. <i>Astronomy and Astrophysics</i> , 2021, 645, A75.	5.1	3
11	A study of $\text{C}_4\text{H}_3\text{N}$ isomers in TMC-1: Line by line detection of $\text{HCCCH}_2\text{CN}$ . <i>Astronomy and Astrophysics</i> , 2021, 646, L9.	5.1	28
12	Space and laboratory discovery of $\text{HC}_3\text{S}^+$ . <i>Astronomy and Astrophysics</i> , 2021, 646, L3.	5.1	43
13	Discovery of $\text{CH}_2\text{CHCCH}$ and detection of $\text{HCCN}$ , $\text{HC}_4\text{N}$ , $\text{CH}_3\text{CH}_2\text{CN}$ , and, tentatively, $\text{CH}_3\text{CH}_2\text{CCH}$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L2.	5.1	41
14	Discovery of the propargyl radical ( $\text{CH}_2\text{CCH}$ ) 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
15	Discovery of allenyl acetylene, $\text{H}_2\text{CCCHCCH}$ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L3.	5.1	30
16	TMC-1, the starless core sulfur factory: Discovery of $\text{NCS}$ , $\text{HCCS}$ , $\text{H}_2\text{CCS}$ , $\text{H}_2\text{CCCS}$ , and $\text{C}_4\text{S}$ and detection of $\text{C}_5\text{S}$ . <i>Astronomy and Astrophysics</i> , 2021, 648, L3.	5.1	59
17	Thiols in the Interstellar Medium: First Detection of $\text{HC(O)SH}$ and Confirmation of $\text{C}_2\text{H}_5\text{SH}$ . <i>Astrophysical Journal Letters</i> , 2021, 912, L11.	8.3	53
18	Pure hydrocarbon cycles in TMC-1: Discovery of ethynyl cyclopropenylidene, cyclopentadiene, and indene. <i>Astronomy and Astrophysics</i> , 2021, 649, L15.	5.1	151

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19	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
20	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
21	The sulphur saga in TMC-1: Discovery of HCSCN and HCSCCH. <i>Astronomy and Astrophysics</i> , 2021, 650, L14.	5.1	31
22	Detection of deuterated methylcyanoacetylene, $CH_2DC_3N$ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 650, L15.	5.1	11
23	Cumulene carbenes in TMC-1: Astronomical discovery of $H_2C_5$ . <i>Astronomy and Astrophysics</i> , 2021, 650, L9.	5.1	21
24	Interstellar detection of the simplest aminocarbyne $H_2NC$ : an ignored but abundant molecule. <i>Astronomy and Astrophysics</i> , 2021, 654, A45.	5.1	16
25	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
26	Magnesium radicals $MgC_5N$ and $MgC_6H$ in IRC +10216. <i>Astronomy and Astrophysics</i> , 2021, 652, L13.	5.1	22
27	Space and laboratory observation of the deuterated cyanomethyl radical HDCCN. <i>Astronomy and Astrophysics</i> , 2021, 646, L1.	5.1	30
28	Probing the Chemical Complexity of Amines in the ISM: Detection of Vinylamine ( $C_2H_3NH_2$ ) and Tentative Detection of Ethylamine ( $C_2H_5NH_2$ ). <i>Astrophysical Journal Letters</i> , 2021, 920, L27.	8.3	28
29	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
30	Discovery of interstellar 3-cyano propargyl radical, $CH_2CCCN$ . <i>Astronomy and Astrophysics</i> , 2021, 654, L9.	5.1	10
31	Discovery of HCCCO and $C_5O$ in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2021, 656, L21.	5.1	17
32	Interstellar nitrile anions: Detection of $C_3N^+$ and $C_5N^+$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 641, L9.	5.1	53
33	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
34	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
35	Rotational spectroscopic study of S-methyl thioformate. <i>Astronomy and Astrophysics</i> , 2020, 644, A102.	5.1	2
36	Tentative detection of $HC_5NH^+$ in TMC-1. <i>Astronomy and Astrophysics</i> , 2020, 643, L6.	5.1	40

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37	Discovery of the Ubiquitous Cation $\text{NS}^+$ in Space Confirmed by Laboratory Spectroscopy. <i>Astrophysical Journal Letters</i> , 2018, 853, L22.	8.3	54
38	MILLIMETER WAVE SPECTRUM AND ASTRONOMICAL SEARCH FOR VINYL FORMATE. <i>Astrophysical Journal</i> , 2016, 832, 42.	4.5	6
39	Molecular Precursors of the RNA-World in Space: New Nitriles in the G+0.693 $\hat{\sim}$ 0.027 Molecular Cloud. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	12