

Jose Cernicharo

List of Publications by Year in descending order

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498
papers

22,357
citations

8181

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docs citations

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times ranked

7399
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#	ARTICLE	IF	CITATIONS
1	Laboratory observation and astronomical search of 1-cyano propargyl radical, HCCCHCN. <i>Astronomy and Astrophysics</i> , 2022, 657, A24.	5.1	3
2	Discovery of the elusive thioketenylium, HCCS ⁺ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 657, L4.	5.1	21
3	Rotational spectroscopy of the large saturated dinitriles hexanedinitrile and heptanedinitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120844.	3.9	1
4	New deuterated species in TMC-1: Detection of CH ₂ DC ₄ H with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L5.	5.1	6
5	Detection of the propargyl radical at $\lambda = 3$ mm. <i>Astronomy and Astrophysics</i> , 2022, 657, A96.	5.1	14
6	Discovery of C ₅ H ⁺ and detection of C ₃ H ⁺ in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 657, L16.	5.1	18
7	Ionized Carbon around IRC+10216. <i>Astrophysical Journal</i> , 2022, 926, 69.	4.5	2
8	Detection of the S(1) Rotational Line of H ₂ toward IRC+10216: A Simultaneous Measurement of the Mass-loss Rate and CO Abundance. <i>Astrophysical Journal Letters</i> , 2022, 927, L33.	8.3	3
9	Discovery of a new molecular ion, HC ₇ NH ⁺ , in TMC-1. <i>Astronomy and Astrophysics</i> , 2022, 659, L8.	5.1	13
10	A new protonated molecule discovered in TMC-1: HCCNCH ⁺ . <i>Astronomy and Astrophysics</i> , 2022, 659, L9.	5.1	14
11	Organic Molecules in Interstellar Space: Latest Advances. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	26
12	PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 054301.	3.1	26
13	Discovery of CH ₂ CCHC ₄ H and a rigorous detection of CH ₂ CCHC ₃ N in TMC-1 with the QUIJOTE line survey. <i>Astronomy and Astrophysics</i> , 2022, 663, L3.	5.1	4
14	Comprehensive rotational study and astronomical search for cyclopropanecarboxaldehyde. <i>Astronomy and Astrophysics</i> , 2021, 645, A75.	5.1	3
15	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
16	Space and laboratory discovery of HC ₃ S ⁺ . <i>Astronomy and Astrophysics</i> , 2021, 646, L3.	5.1	43
17	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
18	Laboratory microwave spectroscopy of the doubly deuterated cyanomethyl radical, D ₂ CCN. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111448.	1.2	1

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19	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
20	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. <i>Astronomy and Astrophysics</i> , 2021, 647, L10.	5.1	47
21	Discovery of allenyl acetylene, H ₂ CCCHCCH, in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 647, L3.	5.1	30
22	SiO, ²⁹ SiO, and ³⁰ SiO Emission from 67 Oxygen-rich Stars: A Survey of 61 Maser Lines from 7 to 1 mm. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 44.	7.7	6
23	Submillimeter imaging of the Galactic Center starburst Sgr B2. <i>Astronomy and Astrophysics</i> , 2021, 649, A32.	5.1	7
24	Pure hydrocarbon cycles in TMC-1: Discovery of ethynyl cyclopropenylidene, cyclopentadiene, and indene. <i>Astronomy and Astrophysics</i> , 2021, 649, L15.	5.1	151
25	O-bearing complex organic molecules at the cyanopolyne peak of TMC-1: Detection of C ₂ H ₃ CHO, C ₂ H ₃ OH, HCOOCH ₃ , and CH ₃ OCH ₃ . <i>Astronomy and Astrophysics</i> , 2021, 649, L4.	5.1	41
26	First detection of doubly deuterated methyl acetylene (CHD ₂ CCH and Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 462 Td (CH₂CCH₂D₂). <i>Astronomy and Astrophysics</i> , 2021, 649, L1.	5.1	9
27	Multifrequency high spectral resolution observations of HCN toward the circumstellar envelope of Y Canum Venaticorum. <i>Astronomy and Astrophysics</i> , 2021, 651, A8.	5.1	7
28	The sulphur saga in TMC-1: Discovery of HCSCN and HCSCCH. <i>Astronomy and Astrophysics</i> , 2021, 650, L14.	5.1	31
29	Detection of deuterated methylcyanoacetylene, CH ₂ DC ₃ N, in TMC-1. <i>Astronomy and Astrophysics</i> , 2021, 650, L15.	5.1	11
30	Cumulene carbenes in TMC-1: Astronomical discovery of <i>l</i> -H ₂ C ₅ . <i>Astronomy and Astrophysics</i> , 2021, 650, L9.	5.1	21
31	Interstellar detection of the simplest aminocarbyne H ₂ NC: an ignored but abundant molecule. <i>Astronomy and Astrophysics</i> , 2021, 654, A45.	5.1	16
32	Magnesium radicals MgC ₅ N and MgC ₆ H in IRC +10216. <i>Astronomy and Astrophysics</i> , 2021, 652, L13.	5.1	22
33	Silicon and Hydrogen Chemistry under Laboratory Conditions Mimicking the Atmosphere of Evolved Stars. <i>Astrophysical Journal</i> , 2021, 906, 44.	4.5	10
34	Yebes 40 m radio telescope and the broad band Nanocosmos receivers at 7 mm and 3 mm for line surveys. <i>Astronomy and Astrophysics</i> , 2021, 645, A37.	5.1	75
35	Laboratory Observation of, Astrochemical Search for, and Structure of Elusive Erythrulose in the Interstellar Medium. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1352-1359.	4.6	6
36	Space and laboratory observation of the deuterated cyanomethyl radical HDCCN. <i>Astronomy and Astrophysics</i> , 2021, 646, L1.	5.1	30

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37	Metal-catalyst-free gas-phase synthesis of long-chain hydrocarbons. Nature Communications, 2021, 12, 5937.	12.8	7
38	Discovery of interstellar 3-cyano propargyl radical, CH ₂ CCCN. Astronomy and Astrophysics, 2021, 654, L9.	5.1	10
39	Discovery of HCCCO and C ₅ O in TMC-1 with the QUIJOTE line survey. Astronomy and Astrophysics, 2021, 656, L21.	5.1	17
40	The place of Quantum Chemistry in Molecular Astrophysics. Physics of Life Reviews, 2020, 32, 119-120.	2.8	1
41	Prevalence of non-aromatic carbonaceous molecules in the inner regions of circumstellar envelopes. Nature Astronomy, 2020, 4, 97-105.	10.1	48
42	The millimeter-wave spectrum and astronomical search for ethyl methyl sulfide. Astronomy and Astrophysics, 2020, 639, A129.	5.1	4
43	Interstellar nitrile anions: Detection of C ₃ N ⁺ and C ₅ N ⁺ in TMC-1. Astronomy and Astrophysics, 2020, 641, L9.	5.1	53
44	Gas-phase kinetics of CH ₃ CHO with OH radicals between 11.7 and 177.5 K. Physical Chemistry Chemical Physics, 2020, 22, 20562-20572.	2.8	12
45	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
46	The abundance of S- and Si-bearing molecules in O-rich circumstellar envelopes of AGB stars. Astronomy and Astrophysics, 2020, 641, A57.	5.1	10
47	Detection of vibrationally excited HC ₇ N and HC ₉ N in IRC +10216. Astronomy and Astrophysics, 2020, 640, L13.	5.1	11
48	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
49	The Chemistry of Cosmic Dust Analogs from C, C ₂ , and C ₂ H ₂ in C-rich Circumstellar Envelopes. Astrophysical Journal, 2020, 895, 97.	4.5	30
50	Chemical equilibrium in AGB atmospheres: successes, failures, and prospects for small molecules, clusters, and condensates. Astronomy and Astrophysics, 2020, 637, A59.	5.1	55
51	Rotational spectroscopy and astronomical search for glutaronitrile. Astronomy and Astrophysics, 2020, 636, A33.	5.1	5
52	New molecular species at redshift $z = 0.89$. Astronomy and Astrophysics, 2020, 636, L7.	5.1	23
53	Rotational spectroscopic study of S-methyl thioformate. Astronomy and Astrophysics, 2020, 644, A102.	5.1	2
54	Tentative detection of HC ₅ NH ⁺ in TMC-1. Astronomy and Astrophysics, 2020, 643, L6.	5.1	40

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55	INFRA-ICE: An ultra-high vacuum experimental station for laboratory astrochemistry. Review of Scientific Instruments, 2020, 91, 124101.	1.3	2
56	The Herschel Space Observatory development, operation and post-operations: lessons learned. , 2020, , .		1
57	Discovery of HC ₃ O ⁺ in space: The chemistry of O-bearing species in TMC-1 (Corrigendum). Astronomy and Astrophysics, 2020, 644, C2.	5.1	0
58	Detection of infrared fluorescence of carbon dioxide in R Leonis with SOFIA/EXES. Astronomy and Astrophysics, 2020, 643, L15.	5.1	2
59	A sensitive $\hat{\nu}_3$ 3 mm line survey of L483. Astronomy and Astrophysics, 2019, 625, A147.	5.1	72
60	Alkaline and alkaline-earth cyanoacetylides: A combined theoretical and rotational spectroscopic investigation. Journal of Chemical Physics, 2019, 151, 054312.	3.0	6
61	Discovery of the first Ca-bearing molecule in space: CaNC. Astronomy and Astrophysics, 2019, 627, L4.	5.1	24
62	Hints of the Existence of C-rich Massive Evolved Stars ^{â—} . Astrophysical Journal, 2019, 876, 116.	4.5	0
63	IRC + 10 ^{Â°} 216 mass loss properties through the study of $\hat{\nu}_3$ 3 mm emission. Astronomy and Astrophysics, 2019, 629, A146.	5.1	4
64	Formation of complex organic molecules in ice mantles: An ab initio molecular dynamics study. Astronomy and Astrophysics, 2019, 629, A28.	5.1	7
65	Molecular tracers of radiative feedback in Orion (OMC-1). Astronomy and Astrophysics, 2019, 622, A91.	5.1	23
66	Direct estimation of electron density in the Orion Bar PDR from mm-wave carbon recombination lines. Astronomy and Astrophysics, 2019, 625, L3.	5.1	15
67	Broad-band high-resolution rotational spectroscopy for laboratory astrophysics. Astronomy and Astrophysics, 2019, 626, A34.	5.1	15
68	Oxygen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5777-5789.	4.4	27
69	Gas infall and possible circumstellar rotation in R Leonis. Astronomy and Astrophysics, 2019, 622, L14.	5.1	6
70	The millimeter-wave spectrum and astronomical search of succinonitrile and its vibrational excited states. Astronomy and Astrophysics, 2019, 629, A35.	5.1	10
71	Discovery of two new magnesium-bearing species in IRC+10216: MgC ₃ N and MgC ₄ H. Astronomy and Astrophysics, 2019, 630, L2.	5.1	49
72	Study of CS, SiO, and SiS abundances in carbon star envelopes: assessing their role as gas-phase precursors of dust. Astronomy and Astrophysics, 2019, 628, A62.	5.1	25

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73	Building blocks of dust: A coordinated laboratory and astronomical study of the archetype AGB carbon star IRC+10216. <i>Journal of Molecular Spectroscopy</i> , 2019, 356, 7-20.	1.2	22
74	Building Blocks of Dust: A Coordinated Laboratory and Astronomical Study of AGB Stars. <i>Journal of Molecular Spectroscopy</i> , 2019, 356, 7-20.	1.2	1
75	Comment on "Methanol dimer formation drastically enhances hydrogen abstraction from methanol by OH at low temperature" by W. Siebrand, Z. Smedarchina, E. Martnez-Nez and A. Fernndez-Ramos, <i>Phys. Chem. Chem. Phys.</i> , 2016, 18, 22712. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8349-8354.	2.8	10
76	Discovery of the Ubiquitous Cation NS ⁺ in Space Confirmed by Laboratory Spectroscopy. <i>Astrophysical Journal Letters</i> , 2018, 853, L22.	8.3	54
77	Detecting the building blocks of aromatics. <i>Science</i> , 2018, 359, 156-157.	12.6	14
78	Carbon Chemistry in IRC+10216: Infrared Detection of Diacetylene. <i>Astrophysical Journal</i> , 2018, 852, 80.	4.5	15
79	Full dimensional potential energy surface and low temperature dynamics of the H ₂ CO + OH ⁺ HCO + H ₂ O reaction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5415-5426.	2.8	20
80	Laboratory rotational spectrum and astronomical search for methoxyacetaldehyde. <i>Astronomy and Astrophysics</i> , 2018, 619, A67.	5.1	4
81	Through the magnifying glass: ALMA acute viewing of the intricate nebular architecture of OH 231.8+4.2. <i>Astronomy and Astrophysics</i> , 2018, 618, A164.	5.1	20
82	IRC +10216 as a spectroscopic laboratory: improved rotational constants for SiC ₂ , its isotopologues, and Si ₂ C. <i>Astronomy and Astrophysics</i> , 2018, 618, A4.	5.1	21
83	ALMA observations of the young protostellar system Barnard 1b: Signatures of an incipient hot corino in B1b-S. <i>Astronomy and Astrophysics</i> , 2018, 620, A80.	5.1	43
84	The millimeter-wave spectrum of methyl ketene and the astronomical search for it. <i>Astronomy and Astrophysics</i> , 2018, 619, A92.	5.1	13
85	Submillimeter wave spectroscopy of ethyl isocyanide and its searches in Orion. <i>Astronomy and Astrophysics</i> , 2018, 610, A44.	5.1	7
86	High-speed molecular cloudlets around the Galactic center's supermassive black hole. <i>Astronomy and Astrophysics</i> , 2018, 618, A35.	5.1	10
87	Abundance Estimates in Carbon Star Envelopes. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 460-461.	0.0	0
88	Laboratory measurements and astronomical search for cyanomethanimine. <i>Astronomy and Astrophysics</i> , 2018, 609, A121.	5.1	31
89	Using radio astronomical receivers for molecular spectroscopic characterization in astrochemical laboratory simulations: A proof of concept. <i>Astronomy and Astrophysics</i> , 2018, 609, A15.	5.1	12
90	Structure of photodissociation fronts in star-forming regions revealed by <i>Herschel</i> observations of high-J CO emission lines. <i>Astronomy and Astrophysics</i> , 2018, 615, A129.	5.1	56

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91	Design of Radio Astronomical Receivers for Laboratory Molecular Spectroscopic Measurements. , 2018, , ,		0
92	Millimeter wave spectra of ethyl isocyanate and searches for it in Orion KL and Sagittarius B2. Astronomy and Astrophysics, 2018, 616, A173.	5.1	7
93	High-velocity hot CO emission close to Sgr A*. Astronomy and Astrophysics, 2018, 616, L1.	5.1	5
94	Circumstellar chemistry of Si-C bearing molecules in the C-rich AGB star IRC+10216. Proceedings of the International Astronomical Union, 2018, 14, 535-537.	0.0	4
95	Abundance of SiC ₂ in carbon star envelopes. Astronomy and Astrophysics, 2018, 611, A29.	5.1	28
96	Formation and Destruction of SiS in Space. Astrophysical Journal, 2018, 862, 38.	4.5	17
97	Discovery of the elusive radical NCO and confirmation of H ₂ NCO ⁺ in space. Astronomy and Astrophysics, 2018, 612, L10.	5.1	39
98	Rotational spectrum of methoxyamine up to 480 GHz: a laboratory study and astronomical search. Astronomy and Astrophysics, 2018, 609, A24.	5.1	7
99	Detection of interstellar HCS and its metastable isomer HSC: new pieces in the puzzle of sulfur chemistry. Astronomy and Astrophysics, 2018, 611, L1.	5.1	41
100	Stability of CH ₃ NCO in Astronomical Ices under Energetic Processing: A Laboratory Study. Astrophysical Journal, 2018, 861, 61.	4.5	11
101	The Maser-emitting Structure and Time Variability of the SiS Lines J _A =14 ⁺ 13 and 15 ⁺ 14 in IRC+10216*. Astrophysical Journal, 2018, 860, 162.	4.5	8
102	Discovery of Interstellar Isocyanogen (CNCN): Further Evidence that Dicyanopolyynes Are Abundant in Space*. Astrophysical Journal Letters, 2018, 861, L22.	8.3	52
103	Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. Scientific Reports, 2018, 8, 7250.	3.3	27
104	Time-dependent molecular emission in IRC + 10216. Astronomy and Astrophysics, 2018, 615, L4.	5.1	14
105	IRC +10 216 in 3D: morphology of a TP-AGB star envelope. Astronomy and Astrophysics, 2018, 610, A4.	5.1	36
106	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
107	Chemical segregation of complex organic O-bearing species in Orion KL. Astronomy and Astrophysics, 2018, 620, L6.	5.1	41
108	The millimeter IRAM-30 μ m line survey toward IK Tauri. Astronomy and Astrophysics, 2017, 597, A25.	5.1	57

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109	Laboratory detection of the rotational-tunnelling spectrum of the hydroxymethyl radical, CH ₂ OH. <i>Astronomy and Astrophysics</i> , 2017, 598, A9.	5.1	19
110	Growth of carbon chains in IRC+10216 mapped with ALMA. <i>Astronomy and Astrophysics</i> , 2017, 601, A4.	5.1	60
111	Silicon-bearing molecules in the shock L1157-B1: first detection of SiS around a Sun-like protostar. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 470, L16-L20.	3.3	44
112	Subarcsecond imaging of the water emission in Arp 220. <i>Astronomy and Astrophysics</i> , 2017, 602, A42.	5.1	17
113	The Abundance of C ₂ H ₄ in the Circumstellar Envelope of IRC+10216. <i>Astrophysical Journal</i> , 2017, 835, 196.	4.5	17
114	The Photodissociation of HCN and HNC: Effects on the HNC/HCN Abundance Ratio in the Interstellar Medium. <i>Astrophysical Journal</i> , 2017, 838, 33.	4.5	25
115	Zeeman effect in sulfur monoxide. <i>Astronomy and Astrophysics</i> , 2017, 605, A20.	5.1	6
116	Complex organic molecules in strongly UV-irradiated gas. <i>Astronomy and Astrophysics</i> , 2017, 603, A124.	5.1	46
117	The interstellar chemistry of C ₃ H and C ₃ H ₂ isomers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4075-4088.	4.4	58
118	Is the Gas-phase OH+H ₂ CO Reaction a Source of HCO in Interstellar Cold Dark Clouds? A Kinetic, Dynamic, and Modeling Study. <i>Astrophysical Journal</i> , 2017, 850, 28.	4.5	34
119	Identification of PAH Isomeric Structure in Cosmic Dust Analogs: The AROMA Setup. <i>Astrophysical Journal</i> , 2017, 843, 34.	4.5	29
120	Laboratory study of methyl isocyanate ices under astrophysical conditions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4222-4230.	4.4	9
121	CO Spectral Line Energy Distributions in Galactic Sources: Empirical Interpretation of Extragalactic Observations. <i>Astrophysical Journal</i> , 2017, 836, 117.	4.5	12
122	Probing the Cold Dust Emission in the AB Aur Disk: A Dust Trap in a Decaying Vortex?*. <i>Astrophysical Journal Letters</i> , 2017, 846, L3.	8.3	21
123	A Comprehensive Rotational Study of Interstellar Iso-propyl Cyanide up to 480 GHz. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 24.	7.7	8
124	The Abundance of SiC ₂ in Carbon Star Envelopes. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 261-269.	0.0	0
125	A spectroscopic survey of Orion KL between 41.5 and 50 GHz. <i>Astronomy and Astrophysics</i> , 2017, 605, A76.	5.1	8
126	Discovery of methyl silane and confirmation of silyl cyanide in IRC+10216. <i>Astronomy and Astrophysics</i> , 2017, 606, L5.	5.1	28

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127	Evidence for disks at an early stage in class 0 protostars?. <i>Astronomy and Astrophysics</i> , 2017, 606, A35.	5.1	22
128	Clues to NaCN formation. <i>Astronomy and Astrophysics</i> , 2017, 607, L5.	5.1	10
129	Spatially resolved images of reactive ions in the Orion Bar. <i>Astronomy and Astrophysics</i> , 2017, 601, L9.	5.1	33
130	Chemical segregation in the young protostars Barnard 1b-N and S. <i>Astronomy and Astrophysics</i> , 2017, 606, L3.	5.1	9
131	The ALMA view of UV-irradiated cloud edges: unexpected structures and processes. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 210-217.	0.0	2
132	A rigorous detection of interstellar CH ₃ NCO: An important missing species in astrochemical networks. <i>Astronomy and Astrophysics</i> , 2016, 587, L4.	5.1	87
133	PAH and H ₂ emission in the Ring Nebula. <i>Journal of Physics: Conference Series</i> , 2016, 728, 032011.	0.4	0
134	Transitory O-rich chemistry in heavily obscured C-rich post-AGB stars. <i>Journal of Physics: Conference Series</i> , 2016, 728, 052003.	0.4	6
135	<i>cis</i> molecular photoswitching in interstellar space. <i>Astronomy and Astrophysics</i> , 2016, 596, L1.	5.1	46
136	Photodissociation of HCN and HNC isomers in the 7-10 eV energy range. <i>Journal of Chemical Physics</i> , 2016, 144, 144306.	3.0	16
137	A rotating spiral structure in the innermost regions around IRC+10216. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022005.	0.4	0
138	High spatial resolution imaging of SO and H ₂ CO in AB Auriga: The first SO image in a transitional disk. <i>Astronomy and Astrophysics</i> , 2016, 589, A60.	5.1	30
139	Millimeter wave spectra of carbonyl cyanide. <i>Astronomy and Astrophysics</i> , 2016, 592, A43.	5.1	2
140	FIR Spectroscopy of the Galactic Center: Hot and Warm Molecular Gas. <i>Proceedings of the International Astronomical Union</i> , 2016, 11, 168-169.	0.0	0
141	REACTIVITY OF OH AND CH ₃ OH BETWEEN 22 AND 64 K: MODELING THE GAS PHASE PRODUCTION OF CH ₃ O IN BARNARD 1b. <i>Astrophysical Journal</i> , 2016, 823, 25.	4.5	53
142	THE HIGH-RESOLUTION INFRARED SPECTRUM OF HCl ⁺ . <i>Astrophysical Journal Letters</i> , 2016, 833, L32.	8.3	4
143	A 3 mm and 1 mm line survey toward the yellow hypergiant IRC+10420. <i>Astronomy and Astrophysics</i> , 2016, 592, A51.	5.1	18
144	The millimeter wave spectrum of methyl cyanate: a laboratory study and astronomical search in space. <i>Astronomy and Astrophysics</i> , 2016, 591, A75.	5.1	7

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145	Ionization fraction and the enhanced sulfur chemistry in Barnard 1. <i>Astronomy and Astrophysics</i> , 2016, 593, A94.	5.1	51
146	The first CO ⁺ image. <i>Astronomy and Astrophysics</i> , 2016, 593, L12.	5.1	12
147	<i>Herschel</i> /HIFI observations of the circumstellar ammonia lines in IRC+10216. <i>Astronomy and Astrophysics</i> , 2016, 592, A131.	5.1	13
148	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. <i>Nature</i> , 2016, 537, 207-209.	27.8	94
149	MILLIMETER WAVE SPECTRUM AND ASTRONOMICAL SEARCH FOR VINYL FORMATE. <i>Astrophysical Journal</i> , 2016, 832, 42.	4.5	6
150	HIGH-RESOLUTION ROTATIONAL SPECTRUM, DUNHAM COEFFICIENTS, AND POTENTIAL ENERGY FUNCTION OF NaCl. <i>Astrophysical Journal</i> , 2016, 825, 150.	4.5	5
151	Constraints on the H ₂ O formation mechanism in the wind of carbon-rich AGB stars. <i>Astronomy and Astrophysics</i> , 2016, 588, A124.	5.1	15
152	Laboratory measurements and astronomical search for the HSO radical. <i>Astronomy and Astrophysics</i> , 2016, 591, A126.	5.1	25
153	The interstellar chemistry of H ₂ C ₃ O isomers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 4101-4110.	4.4	63
154	HINTS OF A ROTATING SPIRAL STRUCTURE IN THE INNERMOST REGIONS AROUND IRC +10216. <i>Astrophysical Journal</i> , 2016, 818, 192.	4.5	24
155	Searching for trans ethyl methyl ether in Orion KL. <i>Astronomy and Astrophysics</i> , 2015, 582, L1.	5.1	54
156	Discovery of interstellar ketenyl (HCCO), a surprisingly abundant radical. <i>Astronomy and Astrophysics</i> , 2015, 577, L5.	5.1	74
157	The chemistry of molecular anions in circumstellar sources. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
158	Molecular ions in the O-rich evolved star OH231.8+4.2: HCO ⁺ , H ¹³ CO ⁺ and first detection of SO ⁺ , N ₂ H ⁺ , and H ₃ O ⁺ . <i>Astronomy and Astrophysics</i> , 2015, 577, A52.	5.1	25
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