

AsunciÃ³n Fuente

List of Publications by Year in descending order

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134
papers

5,512
citations

57758

44
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95266

68
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134
docs citations

134
times ranked

3090
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular line emission in NGC 1068 imaged with ALMA. <i>Astronomy and Astrophysics</i> , 2014, 567, A125.	5.1	330
2	Water in Star-forming Regions with the <i>Herschel</i> Space Observatory (WISH). I. Overview of Key Program and First Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 138-170.	3.1	206
3	Molecular gas chemistry in AGN. <i>Astronomy and Astrophysics</i> , 2004, 419, 897-912.	5.1	144
4	Evidence of enhanced star formation efficiency in luminous and ultraluminous infrared galaxies. <i>Astronomy and Astrophysics</i> , 2008, 479, 703-717.	5.1	136
5	Observational study of reactive ions and radicals in PDRs. <i>Astronomy and Astrophysics</i> , 2003, 406, 899-913.	5.1	109
6	Molecular line emission in NGC 1068 imaged with ALMA. <i>Astronomy and Astrophysics</i> , 2014, 570, A28.	5.1	107
7	<i>Herschel</i> spectral surveys of star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L22.	5.1	99
8	The CHESS spectral survey of star forming regions: Peering into the protostellar shock L1157-B1. <i>Astronomy and Astrophysics</i> , 2010, 518, L112.	5.1	97
9	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR. <i>Astronomy and Astrophysics</i> , 2015, 575, A82.	5.1	95
10	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. <i>Nature</i> , 2016, 537, 207-209.	27.8	94
11	Origin of the hot gas in low-mass protostars. <i>Astronomy and Astrophysics</i> , 2010, 518, L121.	5.1	89
12	VELOCITY-RESOLVED [C ii] EMISSION AND [C ii]/FIR MAPPING ALONG ORION WITH <i>HERSCHEL</i> .	4.5	88
13	EARLY STAGES OF CLUSTER FORMATION: FRAGMENTATION OF MASSIVE DENSE CORES DOWN TO ≈ 1000 AU.	4.5	86
14	Photon-dominated Chemistry in the Nucleus of M82: Widespread HOC + Emission in the Inner 650 Parsec Disk. <i>Astrophysical Journal</i> , 2005, 619, L155-L158.	4.5	83
15	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H_2Cl^+). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	5.1	83
16	Circumstellar disks around Herbig Be stars. <i>Astronomy and Astrophysics</i> , 2009, 497, 117-136.	5.1	82
17	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. <i>Astronomy and Astrophysics</i> , 2010, 521, L35.	5.1	80
18	Water cooling of shocks in protostellar outflows. <i>Astronomy and Astrophysics</i> , 2010, 518, L120.	5.1	79

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19	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
20	Detection of interstellar oxidaniumyl: Abundant H ₂ O ⁺ towards the star-forming regions DR21, SgrAB2, and NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 518, L111.	5.1	78
21	<i>Herschel</i> /HIFI observations of [C ¹⁸ O] and [¹³ C ¹⁸ O] in photon-dominated regions. <i>Astronomy and Astrophysics</i> , 2013, 550, A57.	5.1	78
22	Sensitive limits on the abundance of cold water vapor in the ρ Aurigae protoplanetary disk. <i>Astronomy and Astrophysics</i> , 2010, 521, L33.	5.1	76
23	Disks and outflows around intermediate-mass stars and protostars. <i>Astronomy and Astrophysics</i> , 2001, 366, 873-890.	5.1	74
24	Warm H ₂ in the Galactic center region. <i>Astronomy and Astrophysics</i> , 2001, 365, 174-185.	5.1	73
25	Water in low-mass star-forming regions with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2010, 521, L30.	5.1	72
26	Molecular gas chemistry in AGN. <i>Astronomy and Astrophysics</i> , 2010, 519, A2.	5.1	72
27	S[ClC]O Chimneys and Supershells in M82. <i>Astrophysical Journal</i> , 2001, 563, L27-L30.	4.5	70
28	ISO observations of the Galactic center interstellar medium. <i>Astronomy and Astrophysics</i> , 2004, 427, 217-229.	5.1	69
29	The hot core towards the intermediate-mass protostar NGC 7129 FIRS 2. <i>Astronomy and Astrophysics</i> , 2014, 568, A65.	5.1	69
30	Methyl cyanide as tracer of bow shocks in L1157-B1. <i>Astronomy and Astrophysics</i> , 2009, 507, L25-L28.	5.1	67
31	FRAGMENTATION OF MASSIVE DENSE CORES DOWN TO ~ 1000 AU: RELATION BETWEEN FRAGMENTATION AND DENSITY STRUCTURE. <i>Astrophysical Journal</i> , 2014, 785, 42.	4.5	66
32	Widespread HCO Emission in the Nuclear Starburst of M82. <i>Astrophysical Journal</i> , 2002, 575, L55-L58.	4.5	65
33	High-J CO survey of low-mass protostars observed with <i>Herschel</i> -HIFI. <i>Astronomy and Astrophysics</i> , 2013, 556, A89.	5.1	61
34	The history of mass dispersal around Herbig Ae/Be stars. <i>Astronomy and Astrophysics</i> , 2002, 387, 977-992.	5.1	57
35	Nitrogen hydrides in the cold envelope of IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2010, 521, L52.	5.1	56
36	DETECTION OF THE AMMONIUM ION IN SPACE. <i>Astrophysical Journal Letters</i> , 2013, 771, L10.	8.3	56

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37	First Detection of Interstellar S ₂ H. <i>Astrophysical Journal Letters</i> , 2017, 851, L49.	8.3	55
38	First Evidence of Dusty Disks around Herbig Be Stars. <i>Astrophysical Journal</i> , 2003, 598, L39-L42.	4.5	50
39	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
40	Large-scale molecular shocks in galaxies: the SiO interferometer map of IC 342. <i>Astronomy and Astrophysics</i> , 2006, 448, 457-470.	5.1	47
41	<i>Herschel</i> /HIFI observations of high-J CO lines in the NGC 1333 low-mass star-forming region. <i>Astronomy and Astrophysics</i> , 2010, 521, L40.	5.1	47
42	High-Velocity Hot Ammonia in Bipolar Outflows. <i>Astrophysical Journal</i> , 1993, 417, L45.	4.5	47
43	Large-Scale Grain Mantle Disruption in the Galactic Center. <i>Astrophysical Journal</i> , 2001, 548, L65-L68.	4.5	46
44	Water vapor toward starless cores: The <i>Herschel</i> view. <i>Astronomy and Astrophysics</i> , 2010, 521, L29.	5.1	45
45	Strong CH ⁺ = ¹⁸ O emission and absorption in DR21. <i>Astronomy and Astrophysics</i> , 2010, 518, L118.	5.1	45
46	Water in massive star-forming regions: HIFI observations of W3 IRS5. <i>Astronomy and Astrophysics</i> , 2010, 521, L37.	5.1	44
47	Molecular content of the circumstellar disk in AB Aurigae. <i>Astronomy and Astrophysics</i> , 2010, 524, A19.	5.1	44
48	An extremely high velocity multipolar outflow around IRAS 20050 + 2720. <i>Astrophysical Journal</i> , 1995, 445, L51.	4.5	43
49	On the chemistry and distribution of HOC ⁺ in M82. <i>Astronomy and Astrophysics</i> , 2008, 492, 675-684.	5.1	42
50	First detection of ND in the solar-mass protostar IRAS16293-2422. <i>Astronomy and Astrophysics</i> , 2010, 521, L42.	5.1	41
51	MID-INFRARED POLYCYCLIC AROMATIC HYDROCARBON AND H ₂ EMISSION AS A PROBE OF PHYSICAL CONDITIONS IN EXTREME PHOTODISSOCIATION REGIONS. <i>Astrophysical Journal</i> , 2009, 706, L160-L163.	4.5	40
52	Ortho-to-para ratio of interstellar heavy water. <i>Astronomy and Astrophysics</i> , 2010, 521, L31.	5.1	40
53	High-angular resolution observations towards OMC-2 FIR 4: Dissecting an intermediate-mass protocluster. <i>Astronomy and Astrophysics</i> , 2013, 556, A62.	5.1	38
54	Detection of Reactive Ions in the Ultracompact H II Regions Monoceros R2 and G29.96-0.02. <i>Astrophysical Journal</i> , 2003, 597, L153-L156.	4.5	36

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55	<i>Herschel</i> /HIFI detections of hydrides towards AFGL 2591. <i>Astronomy and Astrophysics</i> , 2010, 521, L44.	5.1	36
56	Spectral line survey of the ultracompact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2012, 543, A27.	5.1	36
57	Detection of a hot core in the intermediate-mass Class 0 protostar NGC 7129â€“FIRS 2. <i>Astronomy and Astrophysics</i> , 2005, 444, 481-493.	5.1	36
58	Detection of CO + in the Nucleus of M82. <i>Astrophysical Journal</i> , 2006, 641, L105-L108.	4.5	35
59	Probing the role of polycyclic aromatic hydrocarbons in the photoelectric heating within photodissociation regions. <i>Astronomy and Astrophysics</i> , 2013, 553, A2.	5.1	35
60	CHEMICALLY DISTINCT NUCLEI AND OUTFLOWING SHOCKED MOLECULAR GAS IN Arp 220. <i>Astrophysical Journal</i> , 2015, 800, 25.	4.5	34
61	Spatially resolved images of reactive ions in the Orion Bar. <i>Astronomy and Astrophysics</i> , 2017, 601, L9.	5.1	33
62	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. <i>Astronomy and Astrophysics</i> , 2010, 518, L107.	5.1	32
63	<i>Herschel</i> observations of the hydroxyl radical (OH) in young stellar objects. <i>Astronomy and Astrophysics</i> , 2010, 521, L36.	5.1	32
64	Variations in H ₂ O ⁺ /H ₂ O ratios toward massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L34.	5.1	31
65	INTERMEDIATE-MASS HOT CORES AT $\sim 1/4$ 500 AU: DISKS OR OUTFLOWS?. <i>Astrophysical Journal Letters</i> , 2011, 743, L32.	8.3	31
66	Thermal Jeans Fragmentation within $\sim 1/4$ 1000 au in OMC-1S. <i>Astrophysical Journal</i> , 2018, 855, 24.	4.5	31
67	Probing X-ray irradiation in the nucleus of NGC 1068 with observations of high- <i>J</i> lines of dense gas tracers. <i>Astronomy and Astrophysics</i> , 2009, 503, 459-466.	5.1	30
68	Gas morphology and energetics at the surface of PDRs: New insights with <i>Herschel</i> observations of NGC 7023. <i>Astronomy and Astrophysics</i> , 2010, 521, L25.	5.1	30
69	The distribution of water in the high-mass star-forming region NGC 6334. <i>Astronomy and Astrophysics</i> , 2010, 521, L28.	5.1	30
70	Physical structure of the envelopes of intermediate-mass protostars. <i>Astronomy and Astrophysics</i> , 2010, 516, A102.	5.1	30
71	A Keplerian Gaseous Disk around the B0 Star R Monocerotis. <i>Astrophysical Journal</i> , 2006, 649, L119-L122.	4.5	29
72	Spatial distribution of small hydrocarbons in the neighborhood of the ultra compact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2013, 554, A87.	5.1	29

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73	Oxygen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5777-5789.	4.4	27
74	Chemical evolution in the environment of intermediate mass young stellar objects. Astronomy and Astrophysics, 2005, 433, 535-552.	5.1	27
75	Chemical study of intermediate-mass (IM) Class 0 protostars. Astronomy and Astrophysics, 2010, 518, A52.	5.1	26
76	Deuteration around the ultracompact HII region Monoceros R2. Astronomy and Astrophysics, 2014, 569, A19.	5.1	26
77	TENTATIVE DETECTION OF THE NITROSYLIUM ION IN SPACE. Astrophysical Journal, 2014, 795, 40.	4.5	26
78	What can we learn about protoplanetary disks from analysis of mid-infrared carbonaceous dust emission?. Astronomy and Astrophysics, 2009, 495, 827-835.	5.1	26
79	PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. Publications of the Astronomical Society of the Pacific, 2022, 134, 054301.	3.1	26
80	The IC1396N proto-cluster at a scale of ~250 AU. Astronomy and Astrophysics, 2007, 468, L33-L36.	5.1	24
81	Fueling the central engine of radio galaxies. Astronomy and Astrophysics, 2007, 468, L71-L75.	5.1	24
82	The Herschel/HIFI spectral survey of OMC-2 FIR 4 (CHESS). Astronomy and Astrophysics, 2013, 556, A57.	5.1	24
83	Water abundances in high-mass protostellar envelopes: Herschel observations with HIFI. Astronomy and Astrophysics, 2010, 521, L32.	5.1	23
84	Herschel/HIFI observations of CO, H ₂ O and NH ₃ in Monoceros R2. Astronomy and Astrophysics, 2012, 544, A110.	5.1	23
85	Herschel-PACS spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2. Astronomy and Astrophysics, 2010, 518, L86.	5.1	21
86	Probing the Cold Dust Emission in the AB Aur Disk: A Dust Trap in a Decaying Vortex?*. Astrophysical Journal Letters, 2017, 846, L3.	8.3	21
87	Physical structure of the photodissociation regions in NGC 7023. Astronomy and Astrophysics, 2014, 569, A109.	5.1	20
88	The abundance of C ¹⁸ O and HDO in the envelope and hot core of the intermediate mass protostar NGC 7129 FIRS 2. Astronomy and Astrophysics, 2012, 540, A75.	5.1	19
89	Herschel/HIFI spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2. Astronomy and Astrophysics, 2010, 521, L41.	5.1	18
90	IMPROVED DETERMINATION OF THE 1 ₀ -0 ₀ ROTATIONAL FREQUENCY OF NH ₃ D ⁺ FROM THE HIGH-RESOLUTION SPECTRUM OF THE 1/2 ₄ INFRARED BAND. Astrophysical Journal Letters, 2013, 771, L11.	8.3	18

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91	Fueling the central engine of radio galaxies. <i>Astronomy and Astrophysics</i> , 2013, 549, A58.	5.1	18
92	HIFI observations of warm gas in DR21: Shock versus radiative heating. <i>Astronomy and Astrophysics</i> , 2010, 518, L79.	5.1	17
93	THE SMALL-SCALE PHYSICAL STRUCTURE AND FRAGMENTATION DIFFERENCE OF TWO EMBEDDED INTERMEDIATE-MASS PROTOSTARS IN ORION. <i>Astrophysical Journal</i> , 2012, 751, 137.	4.5	17
94	<i>Herschel</i>CHESS discovery of the fossil cloud that gave birth to the Trapezium and OrionÁL. <i>Astronomy and Astrophysics</i> , 2013, 549, A114.	5.1	17
95	Kinematics of the ionized-to-neutral interfaces in Monoceros R2. <i>Astronomy and Astrophysics</i> , 2014, 561, A69.	5.1	17
96	Protostellar clusters in intermediate mass (IM) star forming regions. <i>Astronomy and Astrophysics</i> , 2007, 468, L37-L40.	5.1	17
97	A HighÊDensity Thin Layer Confining the HiiRegion M42: Heinrich Hertz Telescope Measurements. <i>Astrophysical Journal</i> , 2001, 559, 985-992.	4.5	17
98	Insights into the Carbon Chemistry of Monoceros R2. <i>Astrophysical Journal</i> , 2005, 634, 1133-1145.	4.5	16
99	The methanol lines and hot core of OMC2-FIR4, an intermediate-mass protostar, with<i>Herschel</i>/HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L39.	5.1	16
100	Fueling the central engine of radio galaxies. <i>Astronomy and Astrophysics</i> , 2014, 564, A128.	5.1	16
101	Dissecting an intermediate-mass protostar. <i>Astronomy and Astrophysics</i> , 2009, 507, 1475-1484.	5.1	15
102	The origin of the [CÁII] emission in the S140 photon-dominated regions. New insights from HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L24.	5.1	15
103	MODELING THE MOLECULAR GAS IN NGC 6240. <i>Astrophysical Journal</i> , 2015, 815, 114.	4.5	15
104	<i>Herschel</i>/HIFI observations of spectrally resolved methylidyne signatures toward the high-mass star-forming core NGCÁ6334I. <i>Astronomy and Astrophysics</i> , 2010, 521, L43.	5.1	14
105	Chemical composition of the circumstellar disk around AB Aurigae. <i>Astronomy and Astrophysics</i> , 2015, 578, A81.	5.1	14
106	Massive young disks around Herbig Ae stars. <i>Astronomy and Astrophysics</i> , 2011, 531, A50.	5.1	14
107	<i>Herschel</i>observations in the ultracompact HIIÁregion MonÁR2. <i>Astronomy and Astrophysics</i> , 2010, 521, L23.	5.1	13
108	Temperatures of dust and gas in S 140. <i>Astronomy and Astrophysics</i> , 2015, 580, A68.	5.1	13

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109	THE FOGGY DISKS SURROUNDING HERBIG Ae STARS: A THEORETICAL STUDY OF THE H ₂ O LINE SPECTRA. <i>Astrophysical Journal</i> , 2009, 703, L123-L126.	4.5	12
110	The Dusty Disk around VV Serpens. <i>Astrophysical Journal</i> , 2008, 680, 1289-1294.	4.5	11
111	On the Photodesorption of CO ₂ Ice Analogs: The Formation of Atomic C in the Ice and the Effect of the VUV Emission Spectrum. <i>Astrophysical Journal</i> , 2019, 874, 35.	4.5	11
112	Cometary molecular clouds around RNO ⁶ . <i>Astronomy and Astrophysics</i> , 2002, 381, 168-177.	5.1	10
113	Far-infrared CO and H ₂ O emission in intermediate-mass protostars. <i>Astronomy and Astrophysics</i> , 2015, 578, A20.	5.1	10
114	WARM HCN IN THE PLANET FORMATION ZONE OF GV TAU N. <i>Astrophysical Journal Letters</i> , 2012, 754, L6.	8.3	8
115	Observational signatures of eccentric Jupiters inside gas cavities in protoplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 359-376.	4.4	8
116	Chemical footprint of star formation feedback in M 82 on scales of ~100 pc. <i>Astronomy and Astrophysics</i> , 2015, 578, A49.	5.1	8
117	The warm molecular gas in the Galactic Center. <i>Astrophysics and Space Science</i> , 2002, 281, 331-332.	1.4	7
118	Large-scale molecular shocks in galaxies. <i>New Astronomy Reviews</i> , 2007, 51, 75-79.	12.8	7
119	Gas Accretion within the Dust Cavity in AB Aur*. <i>Astrophysical Journal Letters</i> , 2019, 879, L14.	8.3	7
120	Very Large Telescope observations of Gomez's Hamburger: Insights into a young protoplanet candidate. <i>Astronomy and Astrophysics</i> , 2015, 578, L8.	5.1	3
121	Interferometer observations of molecular gas in radio galaxies. <i>Astronomische Nachrichten</i> , 2009, 330, 245-248.	1.2	2
122	Search for Circumstellar Disks Around Herbig Be Stars. <i>Astrophysics and Space Science</i> , 2004, 292, 465-468.	1.4	1
123	High angular resolution imaging of the circumstellar material around intermediate mass (IM) stars. <i>Astrophysics and Space Science</i> , 2008, 313, 135-139.	1.4	1
124	Probing X-ray irradiation in the nucleus of NGC 1068 with observations of high- <i>J</i> lines of dense gas tracers <i>CO</i> (Erratum). <i>Astronomy and Astrophysics</i> , 2009, 508, 209-210.	5.1	1
125	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR(Corrigendum). <i>Astronomy and Astrophysics</i> , 2015, 579, C1.	5.1	1
126	Molecular line probes of activity in galaxies. <i>EAS Publications Series</i> , 2008, 31, 85-88.	0.3	1

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127	Warm molecular gas, dust and ionized gas in the 500 central pc of the Galaxy. <i>Astronomische Nachrichten</i> , 2003, 324, 59-63.	1.2	0
128	Detection of Reactive Ions Towards UC Hii Regions. , 0, , 252-255.		0
129	Photon Dominated Chemistry in the Nucleus of M82: Detection of HOC+ in a Starburst Galaxy. AIP Conference Proceedings, 2005, , .	0.4	0
130	<i>Herschel</i> CHESS discovery of the fossil cloud that gave birth to the Trapezium and Orion ÅKL (Corrigendum). <i>Astronomy and Astrophysics</i> , 2013, 553, C1.	5.1	0
131	Circumstellar disks around Herbig Be stars (Corrigendum). <i>Astronomy and Astrophysics</i> , 2015, 577, C2.	5.1	0
132	AGN feedback and star formation in young and old radio galaxies. <i>Astronomische Nachrichten</i> , 2016, 337, 188-193.	1.2	0
133	Prospectives of Herschel PDR observations. <i>EAS Publications Series</i> , 2008, 31, 193-194.	0.3	0
134	CO and PAH ⁺ /PAH ⁰ /VSG maps in external galaxies. <i>EAS Publications Series</i> , 2008, 31, 169-171.	0.3	0