

# Javier RodrÃ-iguez Goicoechea

## List of Publications by Year in descending order

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195  
papers

8,784  
citations

30070

54  
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62596

80  
g-index

195  
all docs

195  
docs citations

195  
times ranked

3590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Astronomical identification of CN <sup>-</sup> , the smallest observed molecular anion. <i>Astronomy and Astrophysics</i> , 2010, 517, L2.	5.1	207
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	<i>HERSCHEL</i> SURVEY OF GALACTIC OH <sup>+</sup> , H <sub>2</sub> O <sup>+</sup> , AND H <sub>3</sub> O <sup>+</sup> : PROBING THE MOLECULAR HYDROGEN FRACTION AND COSMIC-RAY IONIZATION RATE. <i>Astrophysical Journal</i> , 2015, 800, 40.	4.5	183
4	Interstellar OH <sup>+</sup> , H <sub>2</sub> O <sup>+</sup> and H <sub>3</sub> O <sup>+</sup> along the sight-line to G10.6+0.4. <i>Astronomy and Astrophysics</i> , 2010, 518, L110.	5.1	155
5	THE CHEMISTRY OF INTERSTELLAR OH <sup>+</sup> , H <sub>2</sub> O <sup>+</sup> , AND H <sub>3</sub> O <sup>+</sup> : INFERRING THE COSMIC-RAY IONIZATION RATES FROM OBSERVATIONS OF MOLECULAR IONS. <i>Astrophysical Journal</i> , 2012, 754, 105.	4.5	149
6	<i>Herschel</i> /HIFI observations of interstellar OH <sup>+</sup> and H <sub>2</sub> O <sup>+</sup> towards W49N: a probe of diffuse clouds with a small molecular fraction. <i>Astronomy and Astrophysics</i> , 2010, 521, L10.	5.1	143
7	A line confusion limited millimeter survey of Orion-KL I. Sulfur carbon chains. <i>Astronomy and Astrophysics</i> , 2010, 517, A96.	5.1	142
8	<i>HERSCHEL</i> MEASUREMENTS OF MOLECULAR OXYGEN IN ORION. <i>Astrophysical Journal</i> , 2011, 737, 96.	4.5	138
9	The anatomy of the Orion-B giant molecular cloud: A local template for studies of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2017, 599, A98.	5.1	135
10	Far-infrared Detection of C <sub>3</sub> T in Sagittarius B2 and IRC +10216. <i>Astrophysical Journal</i> , 2000, 534, L199-L202.	4.5	124
11	THE CHEMISTRY OF VIBRATIONALLY EXCITED H <sub>2</sub> IN THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2010, 713, 662-670.	4.5	119
12	Low sulfur depletion in the Horsehead PDR. <i>Astronomy and Astrophysics</i> , 2006, 456, 565-580.	5.1	115
13	The IRAM-30 m line survey of the Horsehead PDR. <i>Astronomy and Astrophysics</i> , 2012, 548, A68.	5.1	113
14	Comparative study of CH <sup>+</sup> and SH <sup>+</sup> absorption lines observed towards distant star-forming regions. <i>Astronomy and Astrophysics</i> , 2012, 540, A87.	5.1	112
15	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The present and future of spectral surveys with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L20.	5.1	110
16	Interstellar Hydrides. <i>Annual Review of Astronomy and Astrophysics</i> , 2016, 54, 181-225.	24.3	102
17	The space infrared telescope for cosmology and astrophysics: SPICA A joint mission between JAXA and ESA. <i>Experimental Astronomy</i> , 2009, 23, 193-219.	3.7	100
18	Water in star-forming regions with <i>Herschel</i> (WISH). <i>Astronomy and Astrophysics</i> , 2013, 552, A141.	5.1	98

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19	The Far-Infrared Spectrum of the Sagittarius B2 Region: Extended Molecular Absorption, Photodissociation, and Photoionization. <i>Astrophysical Journal</i> , 2004, 600, 214-233.	4.5	97
20	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
21	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. <i>Nature</i> , 2016, 537, 207-209.	27.8	94
22	Detection of hydrogen fluoride absorption in diffuse molecular clouds with <i>Herschel</i> /HIFI: an ubiquitous tracer of molecular gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L12.	5.1	92
23	Strong absorption by interstellar hydrogen fluoride: <i>Herschel</i> /HIFI observations of the sight-line to G10.6+0.4 (W31C). <i>Astronomy and Astrophysics</i> , 2010, 518, L108.	5.1	90
24	Origin of the hot gas in low-mass protostars. <i>Astronomy and Astrophysics</i> , 2010, 518, L121.	5.1	89
25	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
26	Multi-line detection of O <sub>2</sub> toward $\kappa$ Ophiuchi A. <i>Astronomy and Astrophysics</i> , 2012, 541, A73.	5.1	84
27	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H <sub>2</sub> Cl <sup>+</sup> ). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	5.1	83
28	Disruption of the Orion molecular core 1 by wind from the massive star $\hat{1}$ Orionis C. <i>Nature</i> , 2019, 565, 618-621.	27.8	82
29	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. <i>Astronomy and Astrophysics</i> , 2010, 521, L35.	5.1	80
30	Water cooling of shocks in protostellar outflows. <i>Astronomy and Astrophysics</i> , 2010, 518, L120.	5.1	79
31	Detection of interstellar oxidaniumyl: Abundant H <sub>2</sub> O <sup>+</sup> towards the star-forming regions DR21, Sgr B2, and NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 518, L111.	5.1	78
32	Interstellar CH absorption in the diffuse interstellar medium along the sight-lines to G10.6+0.4 (W31C), W49N, and W51. <i>Astronomy and Astrophysics</i> , 2010, 521, L16.	5.1	77
33	Sensitive limits on the abundance of cold water vapor in the $\hat{A}$ Tauri protoplanetary disk. <i>Astronomy and Astrophysics</i> , 2010, 521, L33.	5.1	76
34	Formation of simple organic molecules in inner T Tauri disks. <i>Astronomy and Astrophysics</i> , 2008, 483, 831-837.	5.1	76
35	<i>HERSCHEL</i> /HIFI DISCOVERY OF HCL <sup>+</sup> IN THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal Letters</i> , 2012, 751, L37.	8.3	75
36	The chemistry of ions in the Orion Bar I. $\hat{A}$ CH <sup>+</sup> , SH <sup>+</sup> , and CF <sup>+</sup> . <i>Astronomy and Astrophysics</i> , 2013, 550, A96.	5.1	75

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37	Water in low-mass star-forming regions with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2010, 521, L30.	5.1	72
38	Turbulence and star formation efficiency in molecular clouds: solenoidal versus compressive motions in Orion. <i>Astronomy and Astrophysics</i> , 2017, 599, A99.	5.1	71
39	The penetration of Far-UV radiation into molecular clouds. <i>Astronomy and Astrophysics</i> , 2007, 467, 1-14.	5.1	70
40	A high-resolution line survey of IRC+10216 with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L8.	5.1	68
41	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L45.	5.1	68
42	[CII] absorption and emission in the diffuse interstellar medium across the Galactic plane. <i>Astronomy and Astrophysics</i> , 2015, 573, A30.	5.1	68
43	Gravitational collapse of the OMC-1 region. <i>Astronomy and Astrophysics</i> , 2017, 602, L2.	5.1	67
44	The complete far-infrared and submillimeter spectrum of the Class 0 protostar Serpens SMM1 obtained with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2012, 548, A77.	5.1	66
45	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2012, 543, A145.	5.1	66
46	Gas phase Elemental abundances in Molecular clouds (GEMS). <i>Astronomy and Astrophysics</i> , 2019, 624, A105.	5.1	66
47	Dynamics of cluster-forming hub-filament systems. <i>Astronomy and Astrophysics</i> , 2019, 629, A81.	5.1	62
48	UNVEILING THE DUST NUCLEATION ZONE OF IRC+10216 WITH ALMA. <i>Astrophysical Journal Letters</i> , 2013, 778, L25.	8.3	60
49	The ionization fraction gradient across the Horsehead edge: an archetype for molecular clouds. <i>Astronomy and Astrophysics</i> , 2009, 498, 771-783.	5.1	60
50	WATER ABSORPTION IN GALACTIC TRANSLUCENT CLOUDS: CONDITIONS AND HISTORY OF THE GAS DERIVED FROM <i>HERSCHEL</i> /HIFI PRISMAS OBSERVATIONS. <i>Astrophysical Journal</i> , 2013, 762, 11.	4.5	59
51	H <sub>2</sub> CO in the Horsehead PDR: photo-desorption of dust grain ice mantles. <i>Astronomy and Astrophysics</i> , 2011, 534, A49.	5.1	58
52	The IRAM-30 m line survey of the Horsehead PDR. <i>Astronomy and Astrophysics</i> , 2013, 557, A101.	5.1	58
53	<i>Herschel</i> /HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C. <i>Astronomy and Astrophysics</i> , 2010, 521, L26.	5.1	57
54	A line confusion-limited millimeter survey of Orion KL. <i>Astronomy and Astrophysics</i> , 2013, 556, A143.	5.1	57

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55	SPATIALLY RESOLVED $\text{C}^{18}\text{O}$ $\text{H}^{13}\text{CO}^+$ EMISSION IN THE HORSEHEAD PHOTODISSOCIATION REGION: FURTHER EVIDENCE FOR A TOP-DOWN HYDROCARBON CHEMISTRY. <i>Astrophysical Journal Letters</i> , 2015, 800, L33.	8.3	57
56	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
57	First Detection of Interstellar $\text{S}^{22}\text{H}$ . <i>Astrophysical Journal Letters</i> , 2017, 851, L49.	8.3	55
58	HCO mapping of the Horsehead: tracing the illuminated dense molecular cloud surfaces. <i>Astronomy and Astrophysics</i> , 2009, 494, 977-985.	5.1	54
59	OH emission from warm and dense gas in the Orion Bar PDR. <i>Astronomy and Astrophysics</i> , 2011, 530, L16.	5.1	54
60	The IRAM-30 m line survey of the Horsehead PDR. <i>Astronomy and Astrophysics</i> , 2013, 560, A73.	5.1	54
61	Modelling the sulphur chemistry evolution in Orion KL. <i>Astronomy and Astrophysics</i> , 2014, 567, A95.	5.1	51
62	Expanding bubbles in Orion A: $[\text{C}^{18}\text{O}]$ observations of M 42, M 43, and NGC 1977. <i>Astronomy and Astrophysics</i> , 2020, 639, A2.	5.1	51
63	Molecular Line Survey of CRL 618 from 80 to 276 GHz and Complete Model. <i>Astrophysical Journal</i> , 2007, 661, 250-261.	4.5	49
64	$\text{CH}^{18}\text{O}$ and $^{13}\text{CH}^{18}\text{O}$ absorption lines in the direction of massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L15.	5.1	49
65	<i>Herschel</i> observations of the Sagittarius B2 cores: Hydrides, warm CO, and cold dust. <i>Astronomy and Astrophysics</i> , 2013, 556, A137.	5.1	49
66	Far-Infrared OH Fluorescent Emission in Sagittarius B2. <i>Astrophysical Journal</i> , 2002, 576, L77-L81.	4.5	49
67	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards Orion A. <i>Astronomy and Astrophysics</i> , 2010, 518, L109.	5.1	48
68	Far-Infrared Detection of $\text{H}^{13}\text{CO}^+$ in Sagittarius B2. <i>Astrophysical Journal</i> , 2001, 554, L213-L216.	4.5	47
69	<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
70	Chemical complexity in the Horsehead photodissociation region. <i>Faraday Discussions</i> , 2014, 168, 103-127.	3.2	46
71	<i>Trans-cis</i> molecular photoswitching in interstellar space. <i>Astronomy and Astrophysics</i> , 2016, 596, L1.	5.1	46
72	Complex organic molecules in strongly UV-irradiated gas. <i>Astronomy and Astrophysics</i> , 2017, 603, A124.	5.1	46

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73	Water vapor toward starless cores: The <i>Herschel</i> view. <i>Astronomy and Astrophysics</i> , 2010, 521, L29.	5.1	45
74	Water in massive star-forming regions: HIFI observations of W3IRS5. <i>Astronomy and Astrophysics</i> , 2010, 521, L37.	5.1	44
75	Molecular content of the circumstellar disk in AB Aurigae. <i>Astronomy and Astrophysics</i> , 2010, 524, A19.	5.1	44
76	<i>HERSCHEL</i> * FAR-INFRARED SPECTROSCOPY OF THE GALACTIC CENTER. HOT MOLECULAR GAS: SHOCKS VERSUS RADIATION NEAR Sgr A. <i>Astrophysical Journal Letters</i> , 2013, 769, L13.	8.3	44
77	Gas phase Elemental abundances in Molecular clouds (GEMS). <i>Astronomy and Astrophysics</i> , 2020, 637, A39.	5.1	44
78	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Methanol as a probe of physical conditions in Orion KL. <i>Astronomy and Astrophysics</i> , 2011, 527, A95.	5.1	42
79	[CII] emission from L1630 in the Orion B molecular cloud. <i>Astronomy and Astrophysics</i> , 2017, 606, A29.	5.1	42
80	<i>HERSCHEL</i> FAR-INFRARED SPECTRAL-MAPPING OF ORION BN/KL OUTFLOWS: SPATIAL DISTRIBUTION OF EXCITED CO, H <sub>2</sub> O, OH, O, AND C <sup>+</sup> IN SHOCKED GAS. <i>Astrophysical Journal</i> , 2015, 799, 102.	4.5	41
81	Warm Water Vapor around Sagittarius B2. <i>Astrophysical Journal</i> , 2006, 642, 940-953.	4.5	40
82	MID-INFRARED POLYCYCLIC AROMATIC HYDROCARBON AND H <sub>2</sub> EMISSION AS A PROBE OF PHYSICAL CONDITIONS IN EXTREME PHOTODISSOCIATION REGIONS. <i>Astrophysical Journal</i> , 2009, 706, L160-L163.	4.5	40
83	Detection of OH <sup>+</sup> and H <sub>2</sub> O <sup>+</sup> towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L47.	5.1	40
84	Chemical Evolution of the Circumstellar Envelopes of Carbon-rich Post-Asymptotic Giant Branch Objects. <i>Astrophysical Journal</i> , 2002, 577, 961-973.	4.5	39
85	A far-infrared molecular and atomic line survey of the Orion KL region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 597-628.	4.4	39
86	Detection of anhydrous hydrochloric acid, HCl, in IRC +10216 with the <i>Herschel</i> SPIRE and PACS spectrometers. <i>Astronomy and Astrophysics</i> , 2010, 518, L136.	5.1	39
87	Far-infrared molecular lines from low- to high-mass star forming regions observed with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2014, 562, A45.	5.1	39
88	OH far-infrared emission from low- and intermediate-mass protostars surveyed with <i>Herschel</i> -PACS. <i>Astronomy and Astrophysics</i> , 2013, 552, A56.	5.1	39
89	A New Infrared Band in Interstellar and Circumstellar Clouds: C <sub>4</sub> or C <sub>4</sub> H?. <i>Astrophysical Journal</i> , 2002, 580, L157-L160.	4.5	38
90	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

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91	CHEMICAL ANALYSIS OF A DIFFUSE CLOUD ALONG A LINE OF SIGHT TOWARD W51: MOLECULAR FRACTION AND COSMIC-RAY IONIZATION RATE. <i>Astrophysical Journal</i> , 2012, 758, 83.	4.5	37
92	Dissecting the molecular structure of the Orion-B cloud: insight from principal component analysis. <i>Astronomy and Astrophysics</i> , 2017, 599, A100.	5.1	37
93	<i>Herschel</i> /HIFI detections of hydrides towards AFGL 2591. <i>Astronomy and Astrophysics</i> , 2010, 521, L44.	5.1	36
94	Spectral line survey of the ultracompact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2012, 543, A27.	5.1	36
95	Observational Evidence of the Formation of Cyanopolynes in CRL 618 through the Polymerization of HCN. <i>Astrophysical Journal</i> , 2005, 628, 275-282.	4.5	35
96	<i>Herschel</i> observations of ortho- and para-oxidaniumyl ( $\text{H}_2\text{O}^+$ ) in spiral arm clouds toward Sagittarius-B2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L11.	5.1	35
97	The IRAM-30m line survey of the Horsehead PDR. <i>Astronomy and Astrophysics</i> , 2012, 543, L1.	5.1	35
98	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
99	$\text{OH}^+$ IN ASTROPHYSICAL MEDIA: STATE-TO-STATE FORMATION RATES, EINSTEIN COEFFICIENTS AND INELASTIC COLLISION RATES WITH He. <i>Astrophysical Journal</i> , 2014, 794, 33.	4.5	35
100	Deuterium fractionation in the Horsehead edge. <i>Astronomy and Astrophysics</i> , 2007, 464, L41-L44.	5.1	35
101	The ISO LWS high-resolution spectral survey towards Sagittarius B2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 1122-1150.	4.4	33
102	Chemistry of $\text{C}_3$ and carbon chain molecules in DR21(OH). <i>Astronomy and Astrophysics</i> , 2012, 546, A75.	5.1	33
103	<i>HERSCHEL</i> HIFI OBSERVATIONS OF $\text{O}_2$ TOWARD ORION: SPECIAL CONDITIONS FOR SHOCK ENHANCED EMISSION. <i>Astrophysical Journal</i> , 2014, 793, 111.	4.5	33
104	Spatially resolved images of reactive ions in the Orion Bar. <i>Astronomy and Astrophysics</i> , 2017, 601, L9.	5.1	33
105	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. <i>Astronomy and Astrophysics</i> , 2010, 518, L107.	5.1	32
106	<i>Herschel</i> observations of the hydroxyl radical (OH) in young stellar objects. <i>Astronomy and Astrophysics</i> , 2010, 521, L36.	5.1	32
107	Variations in $\text{H}_2\text{O}^+/\text{H}_2\text{O}$ ratios toward massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L34.	5.1	31
108	Abundances of sulphur molecules in the Horsehead nebula. <i>Astronomy and Astrophysics</i> , 2019, 628, A16.	5.1	31

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109	Excitation and abundance of C <sub>3</sub> in star forming cores. <i>Astronomy and Astrophysics</i> , 2010, 521, L13.	5.1	30
110	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
111	High spatial resolution imaging of SO and H <sub>2</sub> CO in AB Auriga: The first SO image in a transitional disk. <i>Astronomy and Astrophysics</i> , 2016, 589, A60.	5.1	30
112	The Slowly Expanding Envelope of CRL 618 Probed with HC3N Rotational Ladders. <i>Astrophysical Journal</i> , 2004, 615, 495-505.	4.5	29
113	The Water Vapor Abundance in Orion KL Outflows. <i>Astrophysical Journal</i> , 2006, 649, L33-L36.	4.5	29
114	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Observations of H <sub>2</sub> O and its isotopologues towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L27.	5.1	29
115	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The Terahertz spectrum of Orion KL seen at high spectral resolution. <i>Astronomy and Astrophysics</i> , 2010, 521, L21.	5.1	29
116	Silicon in the dust formation zone of IRC+10216. <i>Astronomy and Astrophysics</i> , 2010, 518, L143.	5.1	29
117	The SAFARI imaging spectrometer for the SPICA space observatory. <i>Proceedings of SPIE</i> , 2012, , .	0.8	29
118	Combined IRAM and <i>Herschel</i> /HIFI study of cyano(di)acetylene in Orion KL: tentative detection of DC <sub>3</sub> N. <i>Astronomy and Astrophysics</i> , 2013, 559, A51.	5.1	29
119	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
120	Abundance of SiC <sub>2</sub> in carbon star envelopes. <i>Astronomy and Astrophysics</i> , 2018, 611, A29.	5.1	28
121	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. <i>Astronomy and Astrophysics</i> , 2010, 521, L14.	5.1	27
122	Oxygen fractionation in dense molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5777-5789.	4.4	27
123	Far-Infrared Excited Hydroxyl Lines from Orion KL Outflows. <i>Astrophysical Journal</i> , 2006, 641, L49-L52.	4.5	26
124	Deuteration around the ultracompact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2014, 569, A19.	5.1	26
125	Water in star-forming regions with <i>Herschel</i> (WISH). <i>Astronomy and Astrophysics</i> , 2016, 590, A105.	5.1	26
126	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



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127	Molecular ions in the O-rich evolved star OH231.8+4.2: HCO <sup>+</sup> , H <sup>13</sup> CO <sup>+</sup> and first detection of SO <sup>+</sup> , N <sub>2</sub> H <sup>+</sup> , and H <sub>3</sub> O <sup>+</sup> . <i>Astronomy and Astrophysics</i> , 2015, 577, A52.	5.1	25
128	A dynamically young, gravitationally stable network of filaments in Orion B. <i>Astronomy and Astrophysics</i> , 2019, 624, A113.	5.1	25
129	Bottlenecks to interstellar sulfur chemistry. <i>Astronomy and Astrophysics</i> , 2021, 647, A10.	5.1	24
130	Water abundances in high-mass protostellar envelopes: <i>Herschel</i> observations with HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L32.	5.1	23
131	First hyperfine resolved far-infrared OH spectrum from a star-forming region. <i>Astronomy and Astrophysics</i> , 2011, 531, L16.	5.1	23
132	<i>Herschel</i> /HIFI observations of CO, H <sub>2</sub> O and NH <sub>3</sub> in <i>Monoceros</i> R2. <i>Astronomy and Astrophysics</i> , 2012, 544, A110.	5.1	23
133	Molecular tracers of radiative feedback in Orion (OMC-1). <i>Astronomy and Astrophysics</i> , 2019, 622, A91.	5.1	23
134	Reversal of infall in SgrB2(M) revealed by <i>Herschel</i> /HIFI observations of HCN lines at THz frequencies. <i>Astronomy and Astrophysics</i> , 2010, 521, L46.	5.1	23
135	The hyperfine structure in the rotational spectrum of CF <sup>+</sup> . <i>Astronomy and Astrophysics</i> , 2012, 548, A94.	5.1	22
136	Clustering the Orion B giant molecular cloud based on its molecular emission. <i>Astronomy and Astrophysics</i> , 2018, 610, A12.	5.1	22
137	The <sup>35</sup> Cl/ <sup>37</sup> Cl isotopic ratio in dense molecular clouds: HIFI observations of hydrogen chloride towards W3. <i>Astronomy and Astrophysics</i> , 2010, 518, L115.	5.1	22
138	<i>Herschel</i> -PACS spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2. <i>Astronomy and Astrophysics</i> , 2010, 518, L86.	5.1	21
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