Javier RodrÃ-guez Goicoechea

List of Publications by Year
in descending order

195 papers	8,784 citations	30070 54 h-index	62596 80 g-index
195 all docs	195 docs citations	195 times ranked	3590 citing authors

#	Article	IF	Citations
1	[Câ€¯II] 158 Î¼m line emission from Orion A. Astronomy and Astrophysics, 2022, 658, A98.	5.1	5
2	Anomalous HCN emission from warm giant molecular clouds. Astronomy and Astrophysics, 2022, 658, A28.	5.1	10
3	Breaking Orion's Veil with fossil outflows. Astronomy and Astrophysics, 2022, 660, A109.	5.1	7
4	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
5	Bottlenecks to interstellar sulfur chemistry. Astronomy and Astrophysics, 2021, 647, A10.	5.1	24
6	The initial gas-phase sulfur abundance in the Orion Molecular Cloud from sulfur radio recombination lines. Astronomy and Astrophysics, 2021, 647, L7.	5.1	18
7	Quantum study of reaction O (³P) + H₂ (v,j) â†' OH + H: OH formation in strongly UV-irradiated gas. Astronomy and Astrophysics, 2021, 648, A76.	5.1	7
8	Submillimeter imaging of the Galactic Center starburst Sgr B2. Astronomy and Astrophysics, 2021, 649, A32.	5.1	7
9	Bringing high spatial resolution to the far-infrared. Experimental Astronomy, 2021, 51, 661-697.	3.7	9
10	Observation and calibration strategies for large-scale multi-beam velocity-resolved mapping of the [CII] emission in the Orion molecular cloud. Astronomy and Astrophysics, 2021, 652, A77.	5.1	5
11	C¹⁸O,¹³CO, and¹²CO abundances and excitation temperatures in the Orion B molecular cloud. Astronomy and Astrophysics, 2021, 645, A26.	5.1	17
12	Quantitative inference of the H₂ column densities from 3 mm molecular emission: case study towards Orion B. Astronomy and Astrophysics, 2021, 645, A27.	5.1	11
13	Tracers of the ionization fraction in dense and translucent gas. Astronomy and Astrophysics, 2021, 645, A28.	5.1	11
14	CF+ excitation in the interstellar medium. Astronomy and Astrophysics, 2021, 645, A8.	5.1	6
15	Expanding bubbles in Orion A: [Câ€¯II] observations of M 42, M 43, and NGC 1977. Astronomy and Astrophysics, 2020, 639, A2.	5.1	51
16	Molecular globules in the Veil bubble of Orion. Astronomy and Astrophysics, 2020, 639, A1.	5.1	18
17	Hyperfine excitation of SH⁺ by H. Astronomy and Astrophysics, 2020, 638, A72.	5.1	9
18	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2020, 637, A39.	5.1	44

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19	Distribution of Water Vapor in Molecular Clouds. II. Astrophysical Journal, 2020, 892, 22.	4.5	5
20	Formation of interstellar SH⁺from vibrationally excited H₂: Quantum study of S⁺+ H₂â‡„ SH⁺+ H reaction and inelastic collision. Astronomy and Astrophysics, 2019, 626, A103.	5.1	21
21	Dynamics of cluster-forming hub-filament systems. Astronomy and Astrophysics, 2019, 629, A81.	5.1	62
22	Abundances of sulphur molecules in the Horsehead nebula. Astronomy and Astrophysics, 2019, 628, A16.	5.1	31
23	Molecular tracers of radiative feedback in Orion (OMC-1). Astronomy and Astrophysics, 2019, 622, A91.	5.1	23
24	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
25	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2019, 624, A105.	5.1	66
26	Oxygen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5777-5789.	4.4	27
27	A Fully Bayesian Approach For Inferring Physical Properties With Credibility Intervals From Noisy Astronomical Data. , 2019, , .		0
28	Disruption of the Orion molecular core 1 by wind from the massive star Î¸1 Orionis C. Nature, 2019, 565, 618-621.	27.8	82
29	A dynamically young, gravitationally stable network of filaments in Orion B. Astronomy and Astrophysics, 2019, 624, A113.	5.1	25
30	High-speed molecular cloudlets around the Galactic centerâ€™s supermassive black hole. Astronomy and Astrophysics, 2018, 618, A35.	5.1	10
31	Using radio astronomical receivers for molecular spectroscopic characterization in astrochemical laboratory simulations: A proof of concept. Astronomy and Astrophysics, 2018, 609, A15.	5.1	12
32	Structure of photodissociation fronts in star-forming regions revealed by Herschel observations of high-J CO emission lines. Astronomy and Astrophysics, 2018, 615, A129.	5.1	56
33	Clustering the Orion B giant molecular cloud based on its molecular emission. Astronomy and Astrophysics, 2018, 610, A12.	5.1	22
34	High-velocity hot CO emission close to Sgr A*. Astronomy and Astrophysics, 2018, 616, L1.	5.1	5
35	Abundance of SiC₂ in carbon star envelopes. Astronomy and Astrophysics, 2018, 611, A29.	5.1	28
36	Spatial distribution of far-infrared rotationally excited CH⁺and OH emission lines in the Orion Bar photodissociation region. Astronomy and Astrophysics, 2017, 599, A20.	5.1	17

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37	Dissecting the molecular structure of the Orionâ€‰B cloud: insight from principal component analysis. Astronomy and Astrophysics, 2017, 599, A100.	5.1	37
38	Gravitational collapse of the OMC-1 region. Astronomy and Astrophysics, 2017, 602, L2.	5.1	67
39	The anatomy of the Orionâ€‰B giant molecular cloud: A local template for studies of nearby galaxies. Astronomy and Astrophysics, 2017, 599, A98.	5.1	135
40	Turbulence and star formation efficiency in molecular clouds: solenoidal versus compressive motions in Orionâ€‰B. Astronomy and Astrophysics, 2017, 599, A99.	5.1	71
41	Complex organic molecules in strongly UV-irradiated gas. Astronomy and Astrophysics, 2017, 603, A124.	5.1	46
42	CO Spectral Line Energy Distributions in Galactic Sources: Empirical Interpretation of Extragalactic Observations^{â^—}. Astrophysical Journal, 2017, 836, 117.	4.5	12
43	First Detection of Interstellar S₂H. Astrophysical Journal Letters, 2017, 851, L49.	8.3	55
44	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
45	[Câ€‰II] emission from L1630 in the Orion B molecular cloud. Astronomy and Astrophysics, 2017, 606, A29.	5.1	42
46	Spatially resolved images of reactive ions in the Orion Bar. Astronomy and Astrophysics, 2017, 601, L9.	5.1	33
47	The ALMA view of UV-irradiated cloud edges: unexpected structures and processes. Proceedings of the International Astronomical Union, 2017, 13, 210-217.	0.0	2
48	Herschel survey and modelling of externally-illuminated photoevaporating protoplanetary disks. Astronomy and Astrophysics, 2017, 604, A69.	5.1	13
49	Trans-cismolecular photoswitching in interstellar space. Astronomy and Astrophysics, 2016, 596, L1.	5.1	46
50	High spatial resolution imaging of SO and H₂CO in AB Auriga: The first SO image in a transitional disk. Astronomy and Astrophysics, 2016, 589, A60.	5.1	30
51	ANALYSIS OF THE HERSCHEL/HEXOS SPECTRAL SURVEY TOWARD ORION SOUTH: A MASSIVE PROTOSTELLAR ENVELOPE WITH STRONG EXTERNAL IRRADIATION. Astrophysical Journal, 2016, 832, 12.	4.5	13
52	FIR Spectroscopy of the Galactic Center: Hot and Warm Molecular Gas. Proceedings of the International Astronomical Union, 2016, 11, 168-169.	0.0	0
53	The first CO⁺image. Astronomy and Astrophysics, 2016, 593, L12.	5.1	12
54	The Far Infrared Spectroscopic Explorer (FIRSPEX): probing the lifecycle of the ISM in the universe. Proceedings of SPIE, 2016, , .	0.8	3

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55	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. Nature, 2016, 537, 207-209.	27.8	94
56	Interstellar Hydrides. Annual Review of Astronomy and Astrophysics, 2016, 54, 181-225.	24.3	102
57	Water in star-forming regions withHerschel(WISH). Astronomy and Astrophysics, 2016, 590, A105.	5.1	26
58	[Câ€‰II] absorption and emission in the diffuse interstellar medium across the Galactic plane. Astronomy and Astrophysics, 2015, 573, A30.	5.1	68
59	Molecular ions in the O-rich evolved star OH231.8+4.2: HCO⁺, H¹³CO⁺and first detection of SO⁺, N₂H⁺, and H₃O⁺. Astronomy and Astrophysics, 2015, 577, A52.	5.1	25
60	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR(Corrigendum). Astronomy and Astrophysics, 2015, 579, C1.	5.1	1
61	Herschelimaging of the dust in the Helix nebula (NGC 7293). Astronomy and Astrophysics, 2015, 574, A134.	5.1	10
62	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR. Astronomy and Astrophysics, 2015, 575, A82.	5.1	95
63	Chemical composition of the circumstellar disk around AB Aurigae. Astronomy and Astrophysics, 2015, 578, A81.	5.1	14
64	SPATIALLY RESOLVED l -C ₃ H ⁺ EMISSION IN THE HORSEHEAD PHOTODISSOCIATION REGION: FURTHER EVIDENCE FOR A TOP-DOWN HYDROCARBON CHEMISTRY. Astrophysical Journal Letters, 2015, 800, L33.	8.3	57
65	VELOCITY-RESOLVED [C ii] EMISSION AND [C ii]/FIR MAPPING ALONG ORION WITHHERSCHEL. Astrophysical Journal, 2015, 812, 75.	4.5	88
66	HERSCHELFAR-INFRARED SPECTRAL-MAPPING OF ORION BN/KL OUTFLOWS: SPATIAL DISTRIBUTION OF EXCITED CO, H₂O, OH, O, AND C⁺IN SHOCKED GAS. Astrophysical Journal, 2015, 799, 102.	4.5	41
67	HERSCHELSURVEY OF GALACTIC OH⁺, H₂O⁺, AND H₃O⁺: PROBING THE MOLECULAR HYDROGEN FRACTION AND COSMIC-RAY IONIZATION RATE. Astrophysical Journal, 2015, 800, 40.	4.5	183
68	HERSCHELOBSERVATIONS OF INTERSTELLAR CHLORONIUM. II. DETECTIONS TOWARD G29.96-0.02, W49N, W51, AND W3(OH), AND DETERMINATIONS OF THE ORTHO-TO-PARA AND³⁵Cl/³⁷Cl ISOTOPIC RATIOS. Astrophysical Journal, 2015, 807, 54.	4.5	20
69	Far-infrared molecular lines from low- to high-mass star forming regions observed withHerschel. Astronomy and Astrophysics, 2014, 562, A45.	5.1	39
70	Kinematics of the ionized-to-neutral interfaces in Monoceros R2. Astronomy and Astrophysics, 2014, 561, A69.	5.1	17
71	Deuteration around the ultracompact HII region Monoceros R2. Astronomy and Astrophysics, 2014, 569, A19.	5.1	26
72	Modelling the sulphur chemistry evolution in Orion KL. Astronomy and Astrophysics, 2014, 567, A95.	5.1	51

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73	HERSCHELHIFI OBSERVATIONS OF O₂TOWARD ORION: SPECIAL CONDITIONS FOR SHOCK ENHANCED EMISSION. Astrophysical Journal, 2014, 793, 111.	4.5	33
74	OH⁺IN ASTROPHYSICAL MEDIA: STATE-TO-STATE FORMATION RATES, EINSTEIN COEFFICIENTS AND INELASTIC COLLISION RATES WITH He. Astrophysical Journal, 2014, 794, 33.	4.5	35
75	Chemical complexity in the Horsehead photodissociation region. Faraday Discussions, 2014, 168, 103-127.	3.2	46
76	Herschelspectral mapping of the Helix nebula (NGCâ€‰7293). Astronomy and Astrophysics, 2014, 566, A78.	5.1	14
77	Physical structure of the photodissociation regions in NGC 7023. Astronomy and Astrophysics, 2014, 569, A109.	5.1	20
78	Revised spectroscopic parameters of SH⁺from ALMA and IRAM 30â€‰m observations. Astronomy and Astrophysics, 2014, 569, L5.	5.1	15
79	First detection of [N II] 205Î¼m absorption in interstellar gas. Astronomy and Astrophysics, 2014, 568, A37.	5.1	11
80	Probing the role of polycyclic aromatic hydrocarbons in the photoelectric heating within photodissociation regions. Astronomy and Astrophysics, 2013, 553, A2.	5.1	35
81	HERSCHEL OBSERVATIONS REVEAL ANOMALOUS MOLECULAR ABUNDANCES TOWARD THE GALACTIC CENTER. Astrophysical Journal Letters, 2013, 763, L19.	8.3	14
82	HERSCHEL * FAR-INFRARED SPECTROSCOPY OF THE GALACTIC CENTER. HOT MOLECULAR GAS: SHOCKS VERSUS RADIATION NEAR Sgr A. Astrophysical Journal Letters, 2013, 769, L13.	8.3	44
83	UNVEILING THE DUST NUCLEATION ZONE OF IRC+10216 WITH ALMA. Astrophysical Journal Letters, 2013, 778, L25.	8.3	60
84	A line confusion-limited millimeter survey of Orion KL. Astronomy and Astrophysics, 2013, 556, A143.	5.1	57
85	Herschelobservations of the SagittariusÂB2 cores: Hydrides, warm CO, and cold dust. Astronomy and Astrophysics, 2013, 556, A137.	5.1	49
86	Combined IRAM andHerschel/HIFI study of cyano(di)acetylene in Orion KL: tentative detection of DC₃N. Astronomy and Astrophysics, 2013, 559, A51.	5.1	29
87	The IRAM-30 m line survey of the Horsehead PDR. Astronomy and Astrophysics, 2013, 557, A101.	5.1	58
88	WATER ABSORPTION IN GALACTIC TRANSLUCENT CLOUDS: CONDITIONS AND HISTORY OF THE GAS DERIVED FROMHERSCHEL/HIFI PRISMAS OBSERVATIONS. Astrophysical Journal, 2013, 762, 11.	4.5	59
89	The IRAM-30 m line survey of the Horsehead PDR. Astronomy and Astrophysics, 2013, 560, A73.	5.1	54
90	Water in star-forming regions withHerschel(WISH). Astronomy and Astrophysics, 2013, 552, A141.	5.1	98

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91	The chemistry of ions in the Orion Bar I. â€“ CH⁺, SH⁺, and CF⁺. Astronomy and Astrophysics, 2013, 550, A96.	5.1	75
92	OH far-infrared emission from low- and intermediate-mass protostars surveyed withHerschel-PACS. Astronomy and Astrophysics, 2013, 552, A56.	5.1	39
93	Spatial distribution of small hydrocarbons in the neighborhood of the ultra compact HII region Monoceros R2. Astronomy and Astrophysics, 2013, 554, A87.	5.1	29
94	SAFARI: Imaging Spectrometer for the SPICA space observatory. , 2013, , .		1
95	HERSCHEL /HIFI DISCOVERY OF HCL ⁺ IN THE INTERSTELLAR MEDIUM. Astrophysical Journal Letters, 2012, 751, L37.	8.3	75
96	Hydride spectroscopy of the diffuse interstellar medium: new clues on the gas fraction in molecular form and cosmic ray ionization rate in relation to H 3 +. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5174-5185.	3.4	17
97	The hyperfine structure in the rotational spectrum of CF⁺. Astronomy and Astrophysics, 2012, 548, A94.	5.1	22
98	The complete far-infrared and submillimeter spectrum of the ClassÂ0 protostar Serpens SMM1 obtained withHerschel. Astronomy and Astrophysics, 2012, 548, A77.	5.1	66
99	Influence of collisional rate coefficients on water vapour excitation. Astronomy and Astrophysics, 2012, 547, A81.	5.1	12
100	Comparative study of CH⁺and SH⁺absorption lines observed towards distant star-forming regions. Astronomy and Astrophysics, 2012, 540, A87.	5.1	112
101	Multi-line detection of O₂towardÏOphiuchi A. Astronomy and Astrophysics, 2012, 541, A73.	5.1	84
102	The IRAM-30 m line survey of the Horsehead PDR. Astronomy and Astrophysics, 2012, 548, A68.	5.1	113
103	THE CHEMISTRY OF INTERSTELLAR OH⁺, H₂O⁺, AND H₃O⁺: INFERRING THE COSMIC-RAY IONIZATION RATES FROM OBSERVATIONS OF MOLECULAR IONS. Astrophysical Journal, 2012, 754, 105.	4.5	149
104	Chemistry of C₃and carbon chain molecules in DR21(OH). Astronomy and Astrophysics, 2012, 546, A75.	5.1	33
105	The SAFARI imaging spectrometer for the SPICA space observatory. Proceedings of SPIE, 2012, , .	0.8	29
106	The IRAM-30m line survey of the Horsehead PDR. Astronomy and Astrophysics, 2012, 543, L1.	5.1	35
107	Spectral line survey of the ultracompact HII region Monoceros R2. Astronomy and Astrophysics, 2012, 543, A27.	5.1	36
108	Herschel/HIFI observations of CO, H₂O and NH₃inÂMonocerosÂR2. Astronomy and Astrophysics, 2012, 544, A110.	5.1	23

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109	Nitrogen hydrides in interstellar gas. Astronomy and Astrophysics, 2012, 543, A145.	5.1	66
110	CHEMICAL ANALYSIS OF A DIFFUSE CLOUD ALONG A LINE OF SIGHT TOWARD W51: MOLECULAR FRACTION AND COSMIC-RAY IONIZATION RATE. Astrophysical Journal, 2012, 758, 83.	4.5	37
111	Water in Star-forming Regions with theHerschel Space Observatory(WISH). I.ÂOverview of Key Program and First Results. Publications of the Astronomical Society of the Pacific, 2011, 123, 138-170.	3.1	206
112	OH emission from warm and dense gas in the Orion Bar PDR. Astronomy and Astrophysics, 2011, 530, L16.	5.1	54
113	Herschelobservations of EXtra-Ordinary Sources (HEXOS): Methanol as a probe of physical conditions in OrionÂKL. Astronomy and Astrophysics, 2011, 527, A95.	5.1	42
114	First hyperfine resolved far-infrared OH spectrum from a star-forming region. Astronomy and Astrophysics, 2011, 531, L16.	5.1	23
115	H₂CO in the Horsehead PDR: photo-desorption of dust grain ice mantles. Astronomy and Astrophysics, 2011, 534, A49.	5.1	58
116	Probing the dust formation region in IRC +10216 with the high vibrational states of hydrogen cyanide. Astronomy and Astrophysics, 2011, 529, L3.	5.1	37
117	HERSCHELMEASUREMENTS OF MOLECULAR OXYGEN IN ORION. Astrophysical Journal, 2011, 737, 96.	4.5	138
118	Detection of anhydrous hydrochloric acid, HCl, in IRCâ€‰+10216 withÂtheÂHerschelSPIRE and PACS spectrometers. Astronomy and Astrophysics, 2010, 518, L136.	5.1	39
119	Interstellar CH absorption in the diffuse interstellar medium along the sight-lines to G10.6â€“0.4 (W31C), W49N, and W51. Astronomy and Astrophysics, 2010, 521, L16.	5.1	77
120	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. Astronomy and Astrophysics, 2010, 521, L35.	5.1	80
121	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. Astronomy and Astrophysics, 2010, 518, L107.	5.1	32
122	Strong absorption by interstellar hydrogen fluoride:Herschel/HIFI observations of the sight-line to G10.6â€“0.4 (W31C). Astronomy and Astrophysics, 2010, 518, L108.	5.1	90
123	Herschelobservations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards OrionÂKL. Astronomy and Astrophysics, 2010, 518, L109.	5.1	48
124	Interstellar OH⁺, H₂O⁺and H₃O⁺along the sight-line to G10.6â€“0.4. Astronomy and Astrophysics, 2010, 518, L110.	5.1	155
125	Detection of interstellar oxidaniumyl: Abundant H₂O⁺towards the star-forming regions DR21, SgrÂB2, and NGC6334. Astronomy and Astrophysics, 2010, 518, L111.	5.1	78
126	HIFI observations of warm gas in DR21: Shock versus radiative heating. Astronomy and Astrophysics, 2010, 518, L79.	5.1	17

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127	Herschelobservations in the ultracompact HIIÂregion MonÂR2. Astronomy and Astrophysics, 2010, 521, L23.	5.1	13
128	Excitation and abundance of C₃in star forming cores. Astronomy and Astrophysics, 2010, 521, L13.	5.1	30
129	Water abundances in high-mass protostellar envelopes:Herschelobservations with HIFI. Astronomy and Astrophysics, 2010, 521, L32.	5.1	23
130	Sensitive limits on the abundance of cold water vapor inÂtheÂDMÂTauri protoplanetary disk. Astronomy and Astrophysics, 2010, 521, L33.	5.1	76
131	Herschelobservations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. Astronomy and Astrophysics, 2010, 521, L14.	5.1	27
132	CH⁺(1â€“0) and¹³CH⁺(1â€“0) absorption lines in the direction of massive star-forming regions. Astronomy and Astrophysics, 2010, 521, L15.	5.1	49
133	Variations in H₂O⁺/H₂O ratios toward massive star-forming regions. Astronomy and Astrophysics, 2010, 521, L34.	5.1	31
134	Water in massive star-forming regions: HIFI observations of W3ÂIRS5. Astronomy and Astrophysics, 2010, 521, L37.	5.1	44
135	Herschelobservations of deuterated water towards SgrÂB2(M). Astronomy and Astrophysics, 2010, 521, L38.	5.1	12
136	Gas morphology and energetics at the surface of PDRs: NewÂinsights withHerschelobservations of NGC 7023. Astronomy and Astrophysics, 2010, 521, L25.	5.1	30
137	Astronomical identification of CN⁻, the smallest observed molecular anion. Astronomy and Astrophysics, 2010, 517, L2.	5.1	207
138	Herschel/HIFI discovery of interstellar chloronium (H₂Cl⁺). Astronomy and Astrophysics, 2010, 521, L9.	5.1	83
139	Herschelobservations of EXtra-Ordinary Sources (HEXOS): TheÂpresent andÂfuture of spectral surveys withHerschel/HIFI. Astronomy and Astrophysics, 2010, 521, L20.	5.1	110
140	Herschel/HIFI measurements of the ortho/para ratio in water towards SagittariusÂB2(M) and W31C. Astronomy and Astrophysics, 2010, 521, L26.	5.1	57
141	Herschelobservations of EXtra-Ordinary Sources (HEXOS): Observations of H₂O and its isotopologues towards OrionÂKL. Astronomy and Astrophysics, 2010, 521, L27.	5.1	29
142	Herschelobservations of ortho- and para-oxidaniumyl (H₂O⁺) in spiral arm clouds toward SagittariusÂB2(M). Astronomy and Astrophysics, 2010, 521, L11.	5.1	35
143	Water vapor toward starless cores: TheHerschelview. Astronomy and Astrophysics, 2010, 521, L29.	5.1	45
144	The origin of the [CÂII] emission in the S140 photon-dominated regions. New insights from HIFI. Astronomy and Astrophysics, 2010, 521, L24.	5.1	15

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145	Herschelobservations of EXtra-Ordinary Sources (HEXOS): The Terahertz spectrum of Orion KL seen at high spectral resolution. Astronomy and Astrophysics, 2010, 521, L21.	5.1	29
146	A high-resolution line survey of IRCâ€‰+10216 withHerschel/HIFI. Astronomy and Astrophysics, 2010, 521, L8.	5.1	68
147	Nitrogen hydrides in interstellar gas. Astronomy and Astrophysics, 2010, 521, L45.	5.1	68
148	Water in low-mass star-forming regions withHerschel. Astronomy and Astrophysics, 2010, 521, L30.	5.1	72
149	Studies of expolanets and solar systems with SPICA. Advances in Space Research, 2010, 45, 1000-1006.	2.6	1
150	THE CHEMISTRY OF VIBRATIONALLY EXCITED H₂IN THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2010, 713, 662-670.	4.5	119
151	Water cooling of shocks in protostellar outflows. Astronomy and Astrophysics, 2010, 518, L120.	5.1	79
152	A line confusion limited millimeter survey of Orionâ€‰KL I. Sulfur carbon chains. Astronomy and Astrophysics, 2010, 517, A96.	5.1	142
153	Molecular content of the circumstellar disk in ABÂAurigae. Astronomy and Astrophysics, 2010, 524, A19.	5.1	44
154	Herschel/HIFI observations of high-JCO lines in the NGC 1333 low-mass star-forming region. Astronomy and Astrophysics, 2010, 521, L40.	5.1	47
155	Herschel/HIFI detections of hydrides towards AFGL 2591. Astronomy and Astrophysics, 2010, 521, L44.	5.1	36
156	Herschel/HIFI observations of interstellar OH⁺and H₂O⁺towards W49N: a probe of diffuse clouds with a small molecular fraction. Astronomy and Astrophysics, 2010, 521, L10.	5.1	143
157	Silicon in the dust formation zone of IRCâ€‰+10216. Astronomy and Astrophysics, 2010, 518, L143.	5.1	29
158	Origin of the hot gas in low-mass protostars. Astronomy and Astrophysics, 2010, 518, L121.	5.1	89
159	Herschel-PACS spectroscopy of the intermediate mass protostar NGCÂ7129 FIRS 2. Astronomy and Astrophysics, 2010, 518, L86.	5.1	21
160	Herschel/HIFI spectroscopy of the intermediate mass protostar NGCâ€‰7129 FIRSÂ2. Astronomy and Astrophysics, 2010, 521, L41.	5.1	18
161	Detection of hydrogen fluoride absorption in diffuse molecular clouds withHerschel/HIFI: an ubiquitous tracer of molecular gas. Astronomy and Astrophysics, 2010, 521, L12.	5.1	92
162	Herschelobservations of the hydroxyl radical (OH) in young stellar objects. Astronomy and Astrophysics, 2010, 521, L36.	5.1	32

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163	Detection of OH⁺and H₂O⁺towards OrionÂKL. Astronomy and Astrophysics, 2010, 521, L47.	5.1	40
164	The³⁵Cl/³⁷Cl isotopic ratio in dense molecular clouds: HIFI observations of hydrogen chloride towards W3â€‰A. Astronomy and Astrophysics, 2010, 518, L115.	5.1	22
165	Reversal of infall in SgrB2(M) revealed byHerschel/HIFI observations of HCN lines at THz frequencies. Astronomy and Astrophysics, 2010, 521, L46.	5.1	23
166	HCO mapping of the Horsehead: tracing the illuminated dense molecular cloud surfaces. Astronomy and Astrophysics, 2009, 494, 977-985.	5.1	54
167	MID-INFRARED POLYCYCLIC AROMATIC HYDROCARBON AND H ₂ EMISSION AS A PROBE OF PHYSICAL CONDITIONS IN EXTREME PHOTODISSOCIATION REGIONS. Astrophysical Journal, 2009, 706, L160-L163.	4.5	40
168	The space infrared telescope for cosmology and astrophysics: SPICA A joint mission between JAXA and ESA. Experimental Astronomy, 2009, 23, 193-219.	3.7	100
169	FAR-INFRARED DETECTION OF NEUTRAL ATOMIC OXYGEN TOWARD THE HORSEHEAD NEBULA. Astrophysical Journal, 2009, 699, L165-L168.	4.5	19
170	The ionization fraction gradient across the Horsehead edge: an archetype for molecular clouds. Astronomy and Astrophysics, 2009, 498, 771-783.	5.1	60
171	Physical parameters for Orion KL from modelling itsISOhigh-resolution far-IR CO line spectrum. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1660-1668.	4.4	14
172	Star Formation near Photodissociation Regions: Detection of a Peculiar Protostar near Cederblad 201. Astrophysical Journal, 2008, 680, 466-473.	4.5	1
173	The European contribution to the SPICA mission. , 2008, , .		9
174	Formation of simple organic molecules in inner T Tauri disks. Astronomy and Astrophysics, 2008, 483, 831-837.	5.1	76
175	Molecular Line Survey of CRL 618 from 80 to 276 GHz and Complete Model. Astrophysical Journal, 2007, 661, 250-261.	4.5	49
176	Far-Infrared Detection of H 2 D + toward Sgr B2. Astrophysical Journal, 2007, 657, L21-L24.	4.5	10
177	The penetration of Far-UV radiation into molecular clouds. Astronomy and Astrophysics, 2007, 467, 1-14.	5.1	70
178	The ISO LWS high-resolution spectral survey towards Sagittarius B2. Monthly Notices of the Royal Astronomical Society, 2007, 377, 1122-1150.	4.4	33
179	Deuterium fractionation in the Horsehead edge. Astronomy and Astrophysics, 2007, 464, L41-L44.	5.1	35
180	Warm Water Vapor around Sagittarius B2. Astrophysical Journal, 2006, 642, 940-953.	4.5	40

#	Article	IF	Citations
181	The Water Vapor Abundance in Orion KL Outflows. Astrophysical Journal, 2006, 649, L33-L36.	4.5	29
182	Far-Infrared Excited Hydroxyl Lines from Orion KL Outflows. Astrophysical Journal, 2006, 641, L49-L52.	4.5	26
183	A far-infrared molecular and atomic line survey of the Orion KL region. Monthly Notices of the Royal Astronomical Society, 2006, 370, 597-628.	4.4	39
184	Low sulfur depletion in the Horsehead PDR. Astronomy and Astrophysics, 2006, 456, 565-580.	5.1	115
185	Observational Evidence of the Formation of Cyanopolyynes in CRL 618 through the Polymerization of HCN. Astrophysical Journal, 2005, 628, 275-282.	4.5	35
186	OH Rotational Lines as a Diagnostic of the Warm Neutral Gas in Galaxies. Astrophysical Journal, 2005, 619, 291-296.	4.5	16
187	The Farâ€Infrared Spectrum of the Sagittarius B2 Region: Extended Molecular Absorption, Photodissociation, and Photoionization. Astrophysical Journal, 2004, 600, 214-233.	4.5	97
188	A New Unidentified Farâ€Infrared Band in NGC 7027. Astrophysical Journal, 2004, 609, 225-230.	4.5	12
189	The Slowly Expanding Envelope of CRL 618 Probed with HC3N Rotational Ladders. Astrophysical Journal, 2004, 615, 495-505.	4.5	29
190	Extended photoionization and photodissociation in Sgr B2. Astronomische Nachrichten, 2003, 324, 139-143.	1.2	4
191	Chemical Evolution of the Circumstellar Envelopes of Carbonâ€rich Postâ€“Asymptotic Giant Branch Objects. Astrophysical Journal, 2002, 577, 961-973.	4.5	39
192	Far-Infrared OH Fluorescent Emission in Sagittarius B2. Astrophysical Journal, 2002, 576, L77-L81.	4.5	49
193	A New Infrared Band in Interstellar and Circumstellar Clouds: C[TINF]4[/TINF] or C[TINF]4[/TINF]H?. Astrophysical Journal, 2002, 580, L157-L160.	4.5	38
194	Far-Infrared Detection of H[TINF]3[/TINF]O[TSUP]+[/TSUP] in Sagittarius B2. Astrophysical Journal, 2001, 554, L213-L216.	4.5	47
195	Far-infrared Detection of C[TINF]3[/TINF] in Sagittarius B2 and IRC +10216. Astrophysical Journal, 2000, 534, L199-L202.	4.5	124