

Paola Caselli

List of Publications by Year in descending order

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Version: 2024-02-01

449
papers

21,537
citations

8181

76
h-index

16650

123
g-index

451
all docs

451
docs citations

451
times ranked

5388
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas phase Elemental abundances in Molecular cloudS (GEMS) V. Methanol in Taurus. Astronomy and Astrophysics, 2022, 657, A10.	5.1	11
2	SOLIS. Astronomy and Astrophysics, 2022, 657, A136.	5.1	4
3	Photoprocessing of H ₂ S on dust grains. Astronomy and Astrophysics, 2022, 657, A100.	5.1	21
4	Negative and positive feedback from a supernova remnant with SHREC: a detailed study of the shocked gas in IC443. Monthly Notices of the Royal Astronomical Society, 2022, 511, 953-963.	4.4	8
5	A train of shocks at 3000-au scale? Exploring the clash of an expanding bubble into the NGC 1333 IRAS 4 region. SOLIS XIV. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5214-5227.	4.4	8
6	Synchrotron-based far-infrared spectroscopy of HCN and HNC in the HMC region. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5214-5227.	2.3	1
7	Extended ro-vibrational analysis and new line list up to 3360 cm^{-1} for HNC . Monthly Notices of the Royal Astronomical Society, 2022, 512, 5214-5227.	5.1	5
8	CHEMOUT: CHEMical complexity in star-forming regions of the OUter Galaxy. Astronomy and Astrophysics, 2022, 660, A76.	5.1	4
9	Methanol Mapping in Cold Cores: Testing Model Predictions*. Astrophysical Journal, 2022, 927, 213.	4.5	10
10	Misaligned Rotations of the Envelope, Outflow, and Disks in the Multiple Protostellar System of VLA 1623-2417: FAUST. III. Astrophysical Journal, 2022, 927, 54.	4.5	7
11	H ₂ CS deuteration maps towards the pre-stellar core L1544. Astronomy and Astrophysics, 2022, 661, A111.	5.1	11
12	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2022, 662, A52.	5.1	9
13	The Central 1000 au of a Prestellar Core Revealed with ALMA. II. Almost Complete Freeze-out. Astrophysical Journal, 2022, 929, 13.	4.5	34
14	Astrochemical modelling of infrared dark clouds. Astronomy and Astrophysics, 2022, 662, A39.	5.1	5
15	An Interferometric View of H-MM1. I. Direct Observation of NH ₃ Depletion. Astronomical Journal, 2022, 163, 294.	4.7	15
16	FAUST VI. VLA1623-2417 B: a new laboratory for astrochemistry around protostars on 50 au scale. Monthly Notices of the Royal Astronomical Society, 2022, 515, 543-554.	4.4	5
17	A Detailed Temperature Map of the Archetypal Protostellar Shocks in L1157. Astrophysical Journal Letters, 2022, 933, L35.	8.3	4
18	Deuterium chemodynamics of massive pre-stellar cores. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1104-1127.	4.4	5

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19	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2021, 645, A91.	5.1	4
20	Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY [^] . <i>Astronomical Journal</i> , 2021, 161, 148.	4.7	59
21	Carbon Chain Chemistry in Hot-core Regions around Three Massive Young Stellar Objects Associated with 6.7 GHz Methanol Masers. <i>Astrophysical Journal</i> , 2021, 908, 100.	4.5	5
22	Gas phase Elemental abundances in Molecular cloudS (GEMS). <i>Astronomy and Astrophysics</i> , 2021, 646, A5.	5.1	17
23	Improved centrifugal and hyperfine analysis of ND ₂ H and NH ₂ D and its application to the spectral line survey of L1544. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111431.	1.2	7
24	Dissecting the Supercritical Filaments Embedded in the 0.5 pc Subsonic Region of Barnard 5. <i>Astrophysical Journal</i> , 2021, 909, 60.	4.5	13
25	ALMA [^] IRDC: dense gas mass distribution from cloud to core scales. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4601-4626.	4.4	16
26	ALMA [^] IRDC [^] II. First high-angular resolution measurements of the ¹⁴ N/ ¹⁵ N ratio in a large sample of infrared-dark cloud cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4320-4335.	4.4	6
27	FAUST. II. Discovery of a Secondary Outflow in IRAS 15398 [^] 3359: Variability in Outflow Direction during the Earliest Stage of Star Formation?. <i>Astrophysical Journal</i> , 2021, 910, 11.	4.5	19
28	A New Method for Simulating Photoprocesses in Astrochemical Models. <i>Astrophysical Journal</i> , 2021, 910, 72.	4.5	5
29	Transition from coherent cores to surrounding cloud in L1688. <i>Astronomy and Astrophysics</i> , 2021, 648, A114.	5.1	9
30	Gas phase Elemental abundances in Molecular cloudS (GEMS). <i>Astronomy and Astrophysics</i> , 2021, 648, A120.	5.1	24
31	Neutral versus Ion Line Widths in Barnard 5: Evidence for Penetration by Magnetohydrodynamic Waves. <i>Astrophysical Journal</i> , 2021, 912, 7.	4.5	13
32	Water in star-forming regions: physics and chemistry from clouds to disks as probed by <i>Herschel</i> spectroscopy. <i>Astronomy and Astrophysics</i> , 2021, 648, A24.	5.1	98
33	The interplay between ambipolar diffusion and Hall effect on magnetic field decoupling and protostellar disc formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5142-5163.	4.4	20
34	Identification of pre-stellar cores in high-mass star forming clumps via H ₂ D ⁺ observations with ALMA. <i>Astronomy and Astrophysics</i> , 2021, 650, A202.	5.1	11
35	Star Formation in a Strongly Magnetized Cloud. <i>Astrophysical Journal</i> , 2021, 916, 78.	4.5	4
36	Water and methanol ice in L 1544. <i>Astronomy and Astrophysics</i> , 2021, 651, A53.	5.1	10

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37	First survey of HCN ⁺ in high-mass star-forming cloud cores. <i>Astronomy and Astrophysics</i> , 2021, 651, A94.	5.1	8
38	Evolutionary view through the starless cores in Taurus. <i>Astronomy and Astrophysics</i> , 2021, 653, A15.	5.1	13
39	Spectroscopic measurements of CH ₃ OH in layered and mixed interstellar ice analogues. <i>Astronomy and Astrophysics</i> , 2021, 652, A126.	5.1	8
40	The Complex Organic Molecular Content in the L1498 Starless Core. <i>Astrophysical Journal</i> , 2021, 917, 44.	4.5	19
41	Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. II. Increased Grain Collisional Velocities. <i>Astrophysical Journal</i> , 2021, 917, 82.	4.5	9
42	TRAO Survey of the Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 5	4.5	9
43	Singly and doubly deuterated formaldehyde in massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2021, 653, A45.	5.1	8
44	The young protostellar disc in IRAS 16293~2422 B is hot and shows signatures of gravitational instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2583-2599.	4.4	12
45	The cosmic-ray ionisation rate in the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2021, 656, A109.	5.1	16
46	The TOPGÅrt high-mass star-forming sample. <i>Astronomy and Astrophysics</i> , 2021, 653, A87.	5.1	5
47	Origins space telescope: from first light to life. <i>Experimental Astronomy</i> , 2021, 51, 595.	3.7	8
48	SOLIS. <i>Astronomy and Astrophysics</i> , 2021, 654, A52.	5.1	9
49	Ice mantles on dust grains: dramatic variation of thickness with grain size. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 6205-6214.	4.4	7
50	SiO Outflows as Tracers of Massive Star Formation in Infrared Dark Clouds. <i>Astrophysical Journal</i> , 2021, 921, 96.	4.5	8
51	Are Massive Dense Clumps Truly Subvirial? A New Analysis Using Gould Belt Ammonia Data. <i>Astrophysical Journal</i> , 2021, 922, 87.	4.5	13
52	A Revised Description of the Cosmic Ray Induced Desorption of Interstellar Ices. <i>Astrophysical Journal</i> , 2021, 922, 126.	4.5	16
53	VLA and NOEMA Views of Bok Globule CB 17: The Starless Nature of a Proposed First Hydrostatic Core Candidate. <i>Astrophysical Journal</i> , 2021, 923, 231.	4.5	6
54	Our astrochemical origins. <i>Physics of Life Reviews</i> , 2020, 32, 117-118.	2.8	0

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55	First detection of NHD and ND ₂ in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2020, 641, A153.	5.1	17
56	Four annular structures in a protostellar disk less than 500,000 years old. <i>Nature</i> , 2020, 586, 228-231.	27.8	109
57	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 635, A189.	5.1	2
58	Orbital and Mass Constraints of the Young Binary System IRAS 16293-2422 A. <i>Astrophysical Journal</i> , 2020, 897, 59.	4.5	33
59	UV Resistance of Nucleosides—An Experimental Approach. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2320-2326.	2.7	3
60	Extensive ro-vibrational analysis of deuterated-cyanoacetylene (DC3N) from millimeter-wavelengths to the infrared domain. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107221.	2.3	3
61	A protostellar system fed by a streamer of 10,500 au length. <i>Nature Astronomy</i> , 2020, 4, 1158-1163.	10.1	77
62	FAUST I. The hot corino at the heart of the prototypical Class I protostar L1551 IRS5. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 498, L87-L92.	3.3	27
63	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 640, A75.	5.1	22
64	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 637, A63.	5.1	22
65	Effect of grain size distribution and size-dependent grain heating on molecular abundances in starless and pre-stellar cores. <i>Astronomy and Astrophysics</i> , 2020, 640, A94.	5.1	9
66	Carbon isotopic fractionation in molecular clouds. <i>Astronomy and Astrophysics</i> , 2020, 640, A51.	5.1	35
67	Relative alignment between dense molecular cores and ambient magnetic field: the synergy of numerical models and observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1971-1987.	4.4	9
68	Propargylimine in the laboratory and in space: millimetre-wave spectroscopy and its first detection in the ISM. <i>Astronomy and Astrophysics</i> , 2020, 640, A98.	5.1	45
69	Gas and star formation from HD and dust emission in a strongly lensed galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4109-4118.	4.4	7
70	SiO emission as a probe of cloud–cloud collisions in infrared dark clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1666-1681.	4.4	13
71	Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. I. Relevant Turbulence Properties. <i>Astrophysical Journal</i> , 2020, 891, 172.	4.5	11
72	Gas phase Elemental abundances in Molecular cloudS (GEMS). <i>Astronomy and Astrophysics</i> , 2020, 637, A39.	5.1	44

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73	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 635, A17.	5.1	26
74	Warm dust surface chemistry in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2020, 635, A16.	5.1	12
75	Efficient Methanol Production on the Dark Side of a Prestellar Core. <i>Astrophysical Journal</i> , 2020, 895, 101.	4.5	17
76	Hot Corinos Chemical Diversity: Myth or Reality?. <i>Astrophysical Journal Letters</i> , 2020, 896, L3.	8.3	41
77	Velocity-coherent Filaments in NGC 1333: Evidence for Accretion Flow?. <i>Astrophysical Journal</i> , 2020, 891, 84.	4.5	31
78	Probabilistic Detection of Spectral Line Components. <i>Astrophysical Journal Letters</i> , 2020, 892, L32.	8.3	9
79	Seeds of Life in Space (SOLIS). IX. Chemical Segregation of SO ₂ and SO toward the Low-mass Protostellar Shocked Region of L1157. <i>Astrophysical Journal</i> , 2020, 896, 37.	4.5	11
80	DC3N observations towards high-mass star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1990-1999.	4.4	9
81	No nitrogen fractionation on 600 au scale in the Sun progenitor analogue OMC-2 FIR4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3412-3421.	4.4	7
82	Warm dust surface chemistry. <i>Astronomy and Astrophysics</i> , 2020, 634, A42.	5.1	18
83	The first steps of interstellar phosphorus chemistry. <i>Astronomy and Astrophysics</i> , 2020, 633, A54.	5.1	32
84	Efficient Production of S ₈ in Interstellar Ices: The Effects of Cosmic-Ray-driven Radiation Chemistry and Nondiffusive Bulk Reactions. <i>Astrophysical Journal</i> , 2020, 888, 52.	4.5	45
85	Molecular complexity in pre-stellar cores: a 3 mm-band study of L183 and L1544. <i>Astronomy and Astrophysics</i> , 2020, 633, A118.	5.1	21
86	ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1180-1198.	4.4	58
87	Inhibited Coagulation of Micron-size Dust Due to the Electrostatic Barrier. <i>Astrophysical Journal</i> , 2020, 889, 64.	4.5	13
88	Hall effect in protostellar disc formation and evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3375-3395.	4.4	21
89	A new proxy to estimate the cosmic ray ionization rate in dense cores. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 495, L7-L11.	3.3	16
90	Ionization: a possible explanation for the difference of mean disk sizes in star-forming regions. <i>Astronomy and Astrophysics</i> , 2020, 639, A86.	5.1	23

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91	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2020, 640, A74.	5.1	8
92	Ubiquitous NH ₃ supersonic component in L1688 coherent cores. <i>Astronomy and Astrophysics</i> , 2020, 640, L6.	5.1	13
93	Rapid elimination of small dust grains in molecular clouds. <i>Astronomy and Astrophysics</i> , 2020, 641, A39.	5.1	23
94	A novel framework for studying the impact of binding energy distributions on the chemistry of dust grains. <i>Astronomy and Astrophysics</i> , 2020, 643, A155.	5.1	15
95	First sample of N ₂ H ⁺ nitrogen isotopic ratio measurements in low-mass protostars. <i>Astronomy and Astrophysics</i> , 2020, 644, A29.	5.1	4
96	The Chemical Structure of Young High-mass Star-forming Clumps. II. Parsec-scale CO Depletion and Deuterium Fraction of HCO ⁺ . <i>Astrophysical Journal</i> , 2020, 901, 145.	4.5	13
97	Exploring the Possibility of Identifying Hydride and Hydroxyl Cations of Noble Gas Species in the Crab Nebula Filament. <i>Astrophysical Journal</i> , 2020, 902, 131.	4.5	6
98	Cosmic-Ray Tracks in Astrophysical Ices: Modeling with the Geant4-DNA Monte Carlo Toolkit. <i>Astrophysical Journal</i> , 2020, 904, 189.	4.5	7
99	Submillimeter and Far-infrared Spectroscopy of Monodeuterated Amidogen Radical (NHD): Improved Rest Frequencies for Astrophysical Observations. <i>Astrophysical Journal</i> , Supplement Series, 2020, 247, 59.	7.7	3
100	A Case of Simultaneous Star and Planet Formation. <i>Astrophysical Journal Letters</i> , 2020, 904, L6.	8.3	48
101	Deuterium Fractionation in the Oph-H-MM1 Dense Core of the L1688 Low Mass Star-Forming Region. <i>Astronomy Reports</i> , 2020, 64, 637-640.	0.9	1
102	Distribution of methanol and cyclopropenylidene around starless cores. <i>Astronomy and Astrophysics</i> , 2020, 643, A60.	5.1	15
103	Cyanopolyne Chemistry around Massive Young Stellar Objects. <i>Astrophysical Journal</i> , 2019, 881, 57.	4.5	21
104	Droplets. I. Pressure-dominated Coherent Structures in L1688 and B18. <i>Astrophysical Journal</i> , 2019, 877, 93.	4.5	46
105	Rotational spectroscopy of imidazole: improved rest frequencies for astrophysical searches. <i>Astronomy and Astrophysics</i> , 2019, 628, A53.	5.1	10
106	Origin of the PN molecule in star-forming regions: the enlarged sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4530-4542.	4.4	23
107	The Specific Angular Momentum Radial Profile in Dense Cores: Improved Initial Conditions for Disk Formation. <i>Astrophysical Journal</i> , 2019, 882, 103.	4.5	28
108	Searches for Interstellar HCCSH and H ₂ CCS. <i>Astrophysical Journal</i> , 2019, 883, 201.	4.5	13

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109	Interstellar Plunging Waves: ALMA Resolves the Physical Structure of Nonstationary MHD Shocks. <i>Astrophysical Journal Letters</i> , 2019, 881, L42.	8.3	14
110	Deuterated forms of H ₃ ⁺ and their importance in Astrochemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180401.	3.4	12
111	High-sensitivity maps of molecular ions in L1544. <i>Astronomy and Astrophysics</i> , 2019, 629, A15.	5.1	46
112	Gas flow and accretion via spiral streamers and circumstellar disks in a young binary protostar. <i>Science</i> , 2019, 366, 90-93.	12.6	57
113	Broadband spectroscopy of astrophysical ice analogues. <i>Astronomy and Astrophysics</i> , 2019, 629, A112.	5.1	29
114	Rotational (de)-excitation of cyclic and linear C ₃ H ₂ by collision with He. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1443-1453.	2.8	15
115	Why does ammonia not freeze out in the centre of pre-stellar cores?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1269-1282.	4.4	33
116	Collisional excitation of NH(3 ⁺) by Ar: A new ab initio 3D potential energy surface and scattering calculations. <i>Journal of Chemical Physics</i> , 2019, 150, 214302.	3.0	5
117	TRAO Survey of Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO FUNS). I. Dynamics and Chemistry of L1478 in the California Molecular Cloud. <i>Astrophysical Journal</i> , 2019, 877, 114.	4.5	12
118	On Simulating the Proton-irradiation of O ₂ and H ₂ O Ices Using Astrochemical-type Models, with Implications for Bulk Reactivity. <i>Astrophysical Journal</i> , 2019, 876, 140.	4.5	30
119	First interferometric study of enhanced N-fractionation in N ₂ H ⁺ : the high-mass star-forming region IRAS 05358+3543. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5543-5558.	4.4	19
120	Modeling sulfur depletion in interstellar clouds. <i>Astronomy and Astrophysics</i> , 2019, 624, A108.	5.1	107
121	Multicomponent Kinematics in a Massive Filamentary Infrared Dark Cloud. <i>Astrophysical Journal</i> , 2019, 872, 30.	4.5	14
122	Widespread Molecular Outflows in the Infrared Dark Cloud G28.37+0.07: Indications of Orthogonal Outflow-filament Alignment. <i>Astrophysical Journal</i> , 2019, 874, 104.	4.5	34
123	The Green Bank Ammonia Survey: A Virial Analysis of Gould Belt Clouds in Data Release 1. <i>Astrophysical Journal</i> , 2019, 874, 147.	4.5	15
124	Gas phase Elemental abundances in Molecular clouds (GEMS). <i>Astronomy and Astrophysics</i> , 2019, 624, A105.	5.1	66
125	Dust opacity variations in the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2019, 623, A118.	5.1	29
126	Dust charge distribution in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1220-1247.	4.4	16

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127	The Central 1000 au of a Pre-stellar Core Revealed with ALMA. I. 1.3 mm Continuum Observations. <i>Astrophysical Journal</i> , 2019, 874, 89.	4.5	43
128	A timeline for massive star-forming regions via combined observation of $\text{o-H}_2\text{D}^+$ and N_2D^+ . <i>Astronomy and Astrophysics</i> , 2019, 621, L7.	5.1	16
129	Mapping deuterated methanol toward L1544. <i>Astronomy and Astrophysics</i> , 2019, 622, A141.	5.1	32
130	Rotational spectroscopy of the HCCO and DCCO radicals in the millimeter and submillimeter range. <i>Astronomy and Astrophysics</i> , 2019, 621, A111.	5.1	6
131	Chemical tracers in proto-brown dwarfs: CO, ortho-H ₂ CO, para-H ₂ CO, HCO ⁺ , CS observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1139-1157.	4.4	8
132	Radiation chemistry in astrochemical models: From the laboratory to the ISM. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 454-455.	0.0	0
133	The Chemical Structure of Young High-mass Star-forming Clumps. I. Deuteration. <i>Astrophysical Journal</i> , 2019, 883, 202.	4.5	14
134	Revealing the dust grain size in the inner envelope of the Class I protostar Per-emb-50. <i>Astronomy and Astrophysics</i> , 2019, 623, A147.	5.1	25
135	VLA cm-wave survey of young stellar objects in the Oph A cluster: constraining extreme UV- and X-ray-driven disk photoevaporation. <i>Astronomy and Astrophysics</i> , 2019, 631, A58.	5.1	6
136	KFPA Examinations of Young STellar Object Natal Environments (KEYSTONE): Hierarchical Ammonia Structures in Galactic Giant Molecular Clouds. <i>Astrophysical Journal</i> , 2019, 884, 4.	4.5	17
137	Search for H_3^+ isotopologues toward CRL 2136 IRS 1. <i>Astronomy and Astrophysics</i> , 2019, 632, A29.	5.1	5
138	Detection of a high-redshift molecular outflow in a primeval hyperstarburst galaxy. <i>Astronomy and Astrophysics</i> , 2019, 632, L7.	5.1	13
139	Magnetic properties of the protostellar core IRAS 15398-3359. <i>Astronomy and Astrophysics</i> , 2019, 631, A154.	5.1	12
140	Modeling deuterium chemistry in starless cores: full scrambling versus proton hop. <i>Astronomy and Astrophysics</i> , 2019, 631, A63.	5.1	21
141	Gas and Dust Temperature in Prestellar Cores Revisited: New Limits on Cosmic-Ray Ionization Rate. <i>Astrophysical Journal</i> , 2019, 884, 176.	4.5	25
142	The chemical structure of the very young starless core L1521E. <i>Astronomy and Astrophysics</i> , 2019, 630, A136.	5.1	22
143	First ALMA maps of HCO, an important precursor of complex organic molecules, towards IRAS 16293-2422. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 806-823.	4.4	32
144	Gas phase detection and rotational spectroscopy of ethynethiol, HCCSH. <i>Molecular Physics</i> , 2019, 117, 1381-1391.	1.7	10

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145	On the origin of phosphorus nitride in star-forming regions. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 476, L39-L44.	3.3	32
146	Penetration of Cosmic Rays into Dense Molecular Clouds: Role of Diffuse Envelopes. Astrophysical Journal, 2018, 855, 23.	4.5	52
147	Similar complex kinematics within two massive, filamentary infrared dark clouds. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5268-5289.	4.4	16
148	Seeds of Life in Space (SOLIS). III. Zooming Into the Methanol Peak of the Prestellar Core L1544*. Astrophysical Journal, 2018, 855, 112.	4.5	28
149	Molecules in space: The analysis of the protostellar clump Barnard 59. AIP Conference Proceedings, 2018, , .	0.4	0
150	ALMA Detections of the Youngest Protostars in Ophiuchus. Astrophysical Journal, 2018, 869, 158.	4.5	18
151	Interaction of cosmic rays with molecular clouds. Nuclear and Particle Physics Proceedings, 2018, 297-299, 80-84.	0.5	2
152	Production of atomic hydrogen by cosmic rays in dark clouds. Astronomy and Astrophysics, 2018, 619, A144.	5.1	31
153	Zooming in to Massive Star Birth. Astrophysical Journal, 2018, 867, 94.	4.5	20
154	Chemical tracers in proto-brown dwarfs: CN, HCN, and HNC observations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4662-4679.	4.4	17
155	Nitrogen and hydrogen fractionation in high-mass star-forming cores from observations of HCN and HNC. Astronomy and Astrophysics, 2018, 609, A129.	5.1	35
156	Accurate millimetre and submillimetre rest frequencies for cis- and trans-dithioformic acid, HCSSH. Astronomy and Astrophysics, 2018, 612, A56.	5.1	5
157	$^{14}\text{N}/^{15}\text{N}$ ratio measurements in prestellar cores with N_2H^+ : new evidence of ^{15}N -antifractionation. Astronomy and Astrophysics, 2018, 617, A7.	5.1	29
158	Protonated CO ₂ in massive star-forming clumps. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 481, L79-L83.	3.3	9
159	Kinematics of dense gas in the L1495 filament. Astronomy and Astrophysics, 2018, 617, A27.	5.1	26
160	Accurate Laboratory Measurement of the Complete Fine Structure of the N_2H^+ Transition of ^{15}N . Astrophysical Journal, 2018, 863, 3.	4.5	4
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