

Karin I Åberg

List of Publications by Year in descending order

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159
papers

11,447
citations

24978

57
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30848

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166
docs citations

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times ranked

4685
citing authors

#	ARTICLE	IF	CITATIONS
1	The Disk Substructures at High Angular Resolution Project (DSHARP). I. Motivation, Sample, Calibration, and Overview. <i>Astrophysical Journal Letters</i> , 2018, 869, L41.	3.0	732
2	THE EFFECTS OF SNOWLINES ON C/O IN PLANETARY ATMOSPHERES. <i>Astrophysical Journal Letters</i> , 2011, 743, L16.	3.0	611
3	THE SPITZER ICE LEGACY: ICE EVOLUTION FROM CORES TO PROTOSTARS. <i>Astrophysical Journal</i> , 2011, 740, 109.	1.6	423
4	RINGED SUBSTRUCTURE AND A GAP AT 1 au IN THE NEAREST PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2016, 820, L40.	3.0	418
5	The Disk Substructures at High Angular Resolution Project (DSHARP). II. Characteristics of Annular Substructures. <i>Astrophysical Journal Letters</i> , 2018, 869, L42.	3.0	326
6	Photochemistry and Astrochemistry: Photochemical Pathways to Interstellar Complex Organic Molecules. <i>Chemical Reviews</i> , 2016, 116, 9631-9663.	23.0	321
7	An old disk still capable of forming a planetary system. <i>Nature</i> , 2013, 493, 644-646.	13.7	285
8	PHOTODESORPTION OF ICES. II. H ₂ O AND D ₂ O. <i>Astrophysical Journal</i> , 2009, 693, 1209-1218.	1.6	254
9	Imaging of the CO Snow Line in a Solar Nebula Analog. <i>Science</i> , 2013, 341, 630-632.	6.0	252
10	THE TW Hya DISK AT 870 μ m: COMPARISON OF CO AND DUST RADIAL STRUCTURES. <i>Astrophysical Journal</i> , 2012, 744, 162.	1.6	230
11	The ancient heritage of water ice in the solar system. <i>Science</i> , 2014, 345, 1590-1593.	6.0	229
12	The comet-like composition of a protoplanetary disk as revealed by complex cyanides. <i>Nature</i> , 2015, 520, 198-201.	13.7	192
13	Photodesorption of CO Ice. <i>Astrophysical Journal</i> , 2007, 662, L23-L26.	1.6	166
14	FIRST DETECTION OF GAS-PHASE METHANOL IN A PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2016, 823, L10.	3.0	166
15	THE RADIAL DISTRIBUTION OF H ₂ AND CO IN TW Hya AS REVEALED BY RESOLVED ALMA OBSERVATIONS OF CO ISOTOPOLOGUES. <i>Astrophysical Journal</i> , 2016, 823, 91.	1.6	163
16	A COLD COMPLEX CHEMISTRY TOWARD THE LOW-MASS PROTOSTAR B1-b: EVIDENCE FOR COMPLEX MOLECULE PRODUCTION IN ICES. <i>Astrophysical Journal</i> , 2010, 716, 825-834.	1.6	156
17	CONSTRAINING THE X-RAY AND COSMIC-RAY IONIZATION CHEMISTRY OF THE TW Hya PROTOPLANETARY DISK: EVIDENCE FOR A SUB-INTERSTELLAR COSMIC-RAY RATE. <i>Astrophysical Journal</i> , 2015, 799, 204.	1.6	151
18	MASS MEASUREMENTS IN PROTOPLANETARY DISKS FROM HYDROGEN DEUTERIDE. <i>Astrophysical Journal</i> , 2016, 831, 167.	1.6	151

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19	CO ICE PHOTODESORPTION: A WAVELENGTH-DEPENDENT STUDY. <i>Astrophysical Journal Letters</i> , 2011, 739, L36.	3.0	138
20	THE <i>SPITZER</i> SPECTROSCOPIC SURVEY OF ICES AROUND LOW-MASS YOUNG STELLAR OBJECTS. IV. NH ₃ AND CH ₃ OH. <i>Astrophysical Journal</i> , 2010, 718, 1100-1117.	1.6	136
21	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.	2.1	135
22	THE COUPLED PHYSICAL STRUCTURE OF GAS AND DUST IN THE IM Lup PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2016, 832, 110.	1.6	130
23	THE DISK IMAGING SURVEY OF CHEMISTRY WITH SMA. I. TAURUS PROTOPLANETARY DISK DATA. <i>Astrophysical Journal</i> , 2010, 720, 480-493.	1.6	128
24	DISK IMAGING SURVEY OF CHEMISTRY WITH SMA. II. SOUTHERN SKY PROTOPLANETARY DISK DATA AND FULL SAMPLE STATISTICS. <i>Astrophysical Journal</i> , 2011, 734, 98.	1.6	128
25	Astrochemistry and compositions of planetary systems. <i>Physics Reports</i> , 2021, 893, 1-48.	10.3	128
26	CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations. <i>Astrophysical Journal</i> , 2018, 852, 122.	1.6	127
27	The Disk Substructures at High Angular Resolution Project (DSHARP). III. Spiral Structures in the Millimeter Continuum of the Elias 27, IM Lup, and WaOph 6 Disks. <i>Astrophysical Journal Letters</i> , 2018, 869, L43.	3.0	121
28	Molecules with ALMA at Planet-forming Scales (MAPS). I. Program Overview and Highlights. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 1.	3.0	117
29	A Multi-ringed, Modestly Inclined Protoplanetary Disk around AA Tau. <i>Astrophysical Journal</i> , 2017, 840, 23.	1.6	112
30	RESOLVING THE CO SNOW LINE IN THE DISK AROUND HD 163296. <i>Astrophysical Journal</i> , 2011, 740, 84.	1.6	111
31	CHEMICAL IMAGING OF THE CO SNOW LINE IN THE HD 163296 DISK. <i>Astrophysical Journal</i> , 2015, 813, 128.	1.6	111
32	C/O AND SNOWLINE LOCATIONS IN PROTOPLANETARY DISKS: THE EFFECT OF RADIAL DRIFT AND VISCOUS GAS ACCRETION. <i>Astrophysical Journal</i> , 2015, 815, 109.	1.6	89
33	Protostellar and cometary detections of organohalogens. <i>Nature Astronomy</i> , 2017, 1, 703-708.	4.2	89
34	An ALMA Survey of DCN/H ¹³ CN and DCO ⁺ /H ¹³ CO ⁺ in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2017, 835, 231.	1.6	87
35	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 5.	3.0	87
36	THE HNC/HCN RATIO IN STAR-FORMING REGIONS. <i>Astrophysical Journal</i> , 2014, 787, 74.	1.6	83

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37	DOUBLE DCO ⁺ RINGS REVEAL CO ICE DESORPTION IN THE OUTER DISK AROUND IM LUP. <i>Astrophysical Journal</i> , 2015, 810, 112.	1.6	83
38	A Survey of CH ₃ CN and HC ₃ N in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2018, 857, 69.	1.6	82
39	Unlocking CO Depletion in Protoplanetary Disks. I. The Warm Molecular Layer. <i>Astrophysical Journal</i> , 2018, 856, 85.	1.6	82
40	H ₂ CO AND N ₂ H ⁺ IN PROTOPLANETARY DISKS: EVIDENCE FOR A CO-ICE REGULATED CHEMISTRY. <i>Astrophysical Journal</i> , 2013, 765, 34.	1.6	81
41	EXCESS C/O AND C/H IN OUTER PROTOPLANETARY DISK GAS. <i>Astrophysical Journal Letters</i> , 2016, 831, L19.	3.0	78
42	INDIRECT ULTRAVIOLET PHOTODESORPTION FROM CO:N ₂ BINARY ICES – AN EFFICIENT GRAIN-GAS PROCESS. <i>Astrophysical Journal</i> , 2013, 779, 120.	1.6	77
43	THE ROLE OF ICE COMPOSITIONS FOR SNOWLINES AND THE C/N/O RATIOS IN ACTIVE DISKS. <i>Astrophysical Journal</i> , 2016, 833, 203.	1.6	76
44	N ₂ AND CO DESORPTION ENERGIES FROM WATER ICE. <i>Astrophysical Journal Letters</i> , 2016, 816, L28.	3.0	76
45	Jupiter's Composition Suggests its Core Assembled Exterior to the N ₂ Snowline. <i>Astronomical Journal</i> , 2019, 158, 194.	1.9	75
46	UV photodesorption of interstellar CO ice analogues: from subsurface excitation to surface desorption. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9929.	1.3	74
47	Turbulence and star formation efficiency in molecular clouds: solenoidal versus compressive motions in Orion. <i>Astronomy and Astrophysics</i> , 2017, 599, A99.	2.1	71
48	The Disk Substructures at High Angular Resolution Project (DSHARP). X. Multiple Rings, a Misaligned Inner Disk, and a Bright Arc in the Disk around the T Tauri star HD 143006. <i>Astrophysical Journal Letters</i> , 2018, 869, L50.	3.0	69
49	Constraining Gas-phase Carbon, Oxygen, and Nitrogen in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 865, 155.	1.6	69
50	FIRST DETECTION OF <i>c</i> -C ₃ H ₂ IN A CIRCUMSTELLAR DISK. <i>Astrophysical Journal Letters</i> , 2013, 765, L14.	3.0	68
51	THE EFFECT OF H ₂ O ON ICE PHOTOCHEMISTRY. <i>Astrophysical Journal</i> , 2010, 718, 832-840.	1.6	67
52	An Empirical Planetesimal Belt Radius – Stellar Luminosity Relation. <i>Astrophysical Journal</i> , 2018, 859, 72.	1.6	66
53	A Survey of C ₂ H, HCN, and C ¹⁸ O in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 876, 25.	1.6	66
54	The Distribution and Excitation of CH ₃ CN in a Solar Nebula Analog. <i>Astrophysical Journal</i> , 2018, 859, 131.	1.6	65

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55	CO DIFFUSION INTO AMORPHOUS H ₂ O ICES. <i>Astrophysical Journal</i> , 2015, 801, 118.	1.6	63
56	Sulfur Chemistry in Protoplanetary Disks: CS and H ₂ CS. <i>Astrophysical Journal</i> , 2019, 876, 72.	1.6	62
57	The Disk Substructures at High Angular Resolution Program (DSHARP). VIII. The Rich Ringed Substructures in the AS 209 Disk. <i>Astrophysical Journal Letters</i> , 2018, 869, L48.	3.0	58
58	Molecules with ALMA at Planet-forming Scales (MAPS). IV. Emission Surfaces and Vertical Distribution of Molecules. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 4.	3.0	58
59	Molecules with ALMA at Planet-forming Scales (MAPS). II. CLEAN Strategies for Synthesizing Images of Molecular Line Emission in Protoplanetary Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 2.	3.0	58
60	Molecules with ALMA at Planet-forming Scales (MAPS). III. Characteristics of Radial Chemical Substructures. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 3.	3.0	57
61	Detecting Weak Spectral Lines in Interferometric Data through Matched Filtering. <i>Astronomical Journal</i> , 2018, 155, 182.	1.9	56
62	Molecules with ALMA at Planet-forming Scales (MAPS). XIV. Revealing Disk Substructures in Multiwavelength Continuum Emission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 14.	3.0	56
63	A Multifrequency ALMA Characterization of Substructures in the GM Aur Protoplanetary Disk. <i>Astrophysical Journal</i> , 2020, 891, 48.	1.6	54
64	Simple optical sensor for amine vapors based on dyed silica microspheres. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 79-85.	4.0	53
65	Molecules with ALMA at Planet-forming Scales (MAPS). XVIII. Kinematic Substructures in the Disks of HD 163296 and MWC 480. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 18.	3.0	51
66	Complex Organic Molecules toward Embedded Low-mass Protostars $\hat{\alpha}$. <i>Astrophysical Journal</i> , 2017, 841, 120.	1.6	49
67	THE DISTRIBUTION AND CHEMISTRY OF H ₂ CO IN THE DM TAU PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 809, L25.	3.0	48
68	EVIDENCE FOR A CO DESORPTION FRONT IN THE OUTER AS 209 DISK. <i>Astrophysical Journal Letters</i> , 2016, 823, L18.	3.0	48
69	Probing CO and N ₂ Snow Surfaces in Protoplanetary Disks with N ₂ H ⁺ Emission. <i>Astrophysical Journal</i> , 2019, 882, 160.	1.6	47
70	An ALMA Survey of H ₂ CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142.	1.6	47
71	Nitrogen Fractionation in Protoplanetary Disks from the H ¹³ CN/HC ¹⁵ N Ratio. <i>Astrophysical Journal</i> , 2017, 836, 30.	1.6	44
72	Variable H ¹³ CO ⁺ Emission in the IM Lup Disk: X-Ray Driven Time-dependent Chemistry?. <i>Astrophysical Journal Letters</i> , 2017, 843, L3.	3.0	44

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73	Comparative studies of O ₂ and N ₂ in pure, mixed and layered CO ices. Faraday Discussions, 2006, 133, 331-345.	1.6	43
74	EXPLORING THE ORIGINS OF DEUTERIUM ENRICHMENTS IN SOLAR NEBULAR ORGANICS. Astrophysical Journal, 2016, 819, 13.	1.6	43
75	EVIDENCE FOR MULTIPLE PATHWAYS TO DEUTERIUM ENHANCEMENTS IN PROTOPLANETARY DISKS. Astrophysical Journal, 2012, 749, 162.	1.6	40
76	G11.92±0.61-MM2: A BONAFIDE MASSIVE PRESTELLAR CORE?. Astrophysical Journal Letters, 2014, 796, L2.	3.0	40
77	A Subarcsecond ALMA Molecular Line Imaging Survey of the Circumbinary, Protoplanetary Disk Orbiting V4046 Sgr. Astrophysical Journal, 2018, 863, 106.	1.6	40
78	Molecules with ALMA at Planet-forming Scales (MAPS). VII. Substellar O/H and C/H and Superstellar C/O in Planet-feeding Gas. Astrophysical Journal, Supplement Series, 2021, 257, 7.	3.0	40
79	Molecular Reconnaissance of the \hat{I}^2 Pictoris Gas Disk with the SMA: A Low HCN/(CO+CO ₂) Outgassing Ratio and Predictions for Future Surveys. Astrophysical Journal, 2018, 853, 147.	1.6	39
80	A RING OF C ₂ H IN THE MOLECULAR DISK ORBITING TW Hya. Astrophysical Journal, 2015, 806, 75.	1.6	38
81	H ₂ CO Distribution and Formation in the TW HYA Disk. Astrophysical Journal, 2017, 839, 43.	1.6	38
82	An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. Astrophysical Journal, 2020, 893, 101.	1.6	38
83	THE IONIZATION FRACTION IN THE DM Tau PROTOPLANETARY DISK. Astrophysical Journal, 2011, 743, 152.	1.6	37
84	Dissecting the molecular structure of the Orion-B cloud: insight from principal component analysis. Astronomy and Astrophysics, 2017, 599, A100.	2.1	37
85	Molecules with ALMA at Planet-forming Scales (MAPS). VI. Distribution of the Small Organics HCN, C ₂ H, and H ₂ CO. Astrophysical Journal, Supplement Series, 2021, 257, 6.	3.0	37
86	On the Ubiquity and Stellar Luminosity Dependence of Exocometary CO Gas: Detection around M Dwarf TWA 7. Astronomical Journal, 2019, 157, 117.	1.9	36
87	Methanol Formation via Oxygen Insertion Chemistry in Ices. Astrophysical Journal, 2017, 845, 29.	1.6	35
88	The TW Hya Rosetta Stone Project. III. Resolving the Gaseous Thermal Profile of the Disk. Astrophysical Journal, 2021, 908, 8.	1.6	35
89	Complex organic molecules in organic-poor massive young stellar objects. Astronomy and Astrophysics, 2015, 576, A45.	2.1	35
90	CARBON CHAINS AND METHANOL TOWARD EMBEDDED PROTOSTARS*. Astrophysical Journal, 2016, 819, 140.	1.6	34

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91	An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97.	1.6	34
92	The Role of C/O in Nitrile Astrochemistry in PDRs and Planet-forming Disks. <i>Astrophysical Journal</i> , 2019, 886, 86.	1.6	33
93	Molecules with ALMA at Planet-forming Scales (MAPS). XIX. Spiral Arms, a Tail, and Diffuse Structures Traced by CO around the GM Aur Disk. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 19.	3.0	33
94	THE SPATIAL DISTRIBUTION OF ORGANICS TOWARD THE HIGH-MASS YSO NGC 7538 IRS9. <i>Astrophysical Journal</i> , 2013, 771, 95.	1.6	32
95	Cometary Delivery of Hydrogen Cyanide to the Early Earth. <i>Astrobiology</i> , 2020, 20, 1109-1120.	1.5	32
96	Turbulent-diffusion Mediated CO Depletion in Weakly Turbulent Protoplanetary Disks. <i>Astrophysical Journal</i> , 2017, 835, 162.	1.6	31
97	CYANIDE PHOTOCHEMISTRY AND NITROGEN FRACTIONATION IN THE MWC 480 DISK. <i>Astrophysical Journal</i> , 2015, 814, 53.	1.6	30
98	Molecules with ALMA at Planet-forming Scales (MAPS). IX. Distribution and Properties of the Large Organic Molecules HC ₃ N, CH ₃ CN, and c-C ₃ H ₂ . <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 9.	3.0	30
99	Molecules with ALMA at Planet-forming Scales (MAPS). XII. Inferring the C/O and S/H Ratios in Protoplanetary Disks with Sulfur Molecules. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 12.	3.0	30
100	Formation of NH ₂ CHO and CH ₃ CHO upon UV Photoprocessing of Interstellar Ice Analogs. <i>Astrophysical Journal</i> , 2020, 894, 98.	1.6	29
101	COMPLEX ORGANIC MOLECULES DURING LOW-MASS STAR FORMATION: PILOT SURVEY RESULTS. <i>Astrophysical Journal</i> , 2014, 788, 68.	1.6	28
102	Unlocking CO Depletion in Protoplanetary Disks. II. Primordial C/H Predictions inside the CO Snowline. <i>Astrophysical Journal</i> , 2019, 877, 131.	1.6	27
103	Oxygen Atom Reactions with C ₂ H ₆ , C ₂ H ₄ , and C ₂ H ₂ in Ices. <i>Astrophysical Journal</i> , 2019, 874, 115.	1.6	27
104	Detection of Phosphorus-bearing Molecules toward a Solar-type Protostar. <i>Astrophysical Journal Letters</i> , 2019, 884, L36.	3.0	27
105	Molecules with ALMA at Planet-forming Scales. XX. The Massive Disk around GM Aurigae. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 20.	3.0	26
106	A dynamically young, gravitationally stable network of filaments in Orion B. <i>Astronomy and Astrophysics</i> , 2019, 624, A113.	2.1	25
107	Molecules with ALMA at Planet-forming Scales (MAPS). XI. CN and HCN as Tracers of Photochemistry in Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 11.	3.0	25
108	Gas Disk Sizes from CO Line Observations: A Test of Angular Momentum Evolution. <i>Astrophysical Journal</i> , 2022, 931, 6.	1.6	25

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109	HNC IN PROTOPLANETARY DISKS. <i>Astrophysical Journal Letters</i> , 2015, 807, L15.	3.0	24
110	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO ⁺ and Disk Ionization Structure. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 13.	3.0	24
111	Large-scale CO Spiral Arms and Complex Kinematics Associated with the T Tauri Star RU Lup. <i>Astrophysical Journal</i> , 2020, 898, 140.	1.6	23
112	Clustering the Orion B giant molecular cloud based on its molecular emission. <i>Astronomy and Astrophysics</i> , 2018, 610, A12.	2.1	22
113	Molecules with ALMA at Planet-forming Scales (MAPS). VIII. CO Gap in AS 209 – Gas Depletion or Chemical Processing?. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 8.	3.0	22
114	Organic Complexity in Protostellar Disk Candidates. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1564-1575.	1.2	21
115	Subarcsecond Imaging of the Complex Organic Chemistry in Massive Star-forming Region G10.6-0.4. <i>Astrophysical Journal</i> , 2021, 909, 214.	1.6	21
116	Molecules with ALMA at Planet-forming Scales (MAPS). XV. Tracing Protoplanetary Disk Structure within 20 au. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 15.	3.0	21
117	CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 932, 114.	1.6	21
118	CO Diffusion and Desorption Kinetics in CO ₂ Ices. <i>Astrophysical Journal</i> , 2018, 852, 75.	1.6	20
119	Probing the Gas Content of Late-stage Protoplanetary Disks with N ₂ H ⁺ . <i>Astrophysical Journal</i> , 2019, 881, 127.	1.6	20
120	Molecules with ALMA at Planet-forming Scales (MAPS). XVI. Characterizing the Impact of the Molecular Wind on the Evolution of the HD 163296 System. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 16.	3.0	20
121	Complex molecule formation around massive young stellar objects. <i>Faraday Discussions</i> , 2014, 168, 81-101.	1.6	19
122	The TW Hya Rosetta Stone Project. II. Spatially Resolved Emission of Formaldehyde Hints at Low-temperature Gas-phase Formation. <i>Astrophysical Journal</i> , 2021, 906, 111.	1.6	19
123	Mapping the 3D Kinematical Structure of the Gas Disk of HD 169142. <i>Astrophysical Journal Letters</i> , 2021, 920, L33.	3.0	19
124	Molecules with ALMA at Planet-forming Scales (MAPS). XVII. Determining the 2D Thermal Structure of the HD 163296 Disk. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 17.	3.0	19
125	CO ₂ INFRARED PHONON MODES IN INTERSTELLAR ICE MIXTURES. <i>Astrophysical Journal</i> , 2016, 832, 5.	1.6	18
126	KINETICS AND MECHANISMS OF THE ACID-BASE REACTION BETWEEN NH ₃ AND HCOOH IN INTERSTELLAR ICE ANALOGS. <i>Astrophysical Journal</i> , 2016, 829, 85.	1.6	18

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127	DETECTION OF N ₂ D ⁺ IN A PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 809, L26.	3.0	17
128	H ₂ CO Ortho-to-para Ratio in the Protoplanetary Disk HD 163296. <i>Astrophysical Journal</i> , 2018, 864, 170.	1.6	17
129	Desorption Kinetics and Binding Energies of Small Hydrocarbons. <i>Astrophysical Journal</i> , 2019, 875, 73.	1.6	17
130	Carbon Chain Molecules toward Embedded Low-mass Protostars ⁺ . <i>Astrophysical Journal</i> , 2018, 863, 88.	1.6	16
131	The TW Hya Rosetta Stone Project. I. Radial and Vertical Distributions of DCN and DCO ⁺ . <i>Astronomical Journal</i> , 2021, 161, 38.	1.9	16
132	ON THE INFERENCE OF THE COSMIC-RAY IONIZATION RATE $\hat{\eta}$ FROM THE HCO ⁺ -to-DCO ⁺ ABUNDANCE RATIO: THE EFFECT OF NUCLEAR SPIN. <i>Astrophysical Journal</i> , 2016, 830, 151.	1.6	15
133	The REASONS Survey: Resolved Millimeter Observations of a Large Debris Disk around the Nearby F Star HD 170773. <i>Astrophysical Journal</i> , 2019, 881, 84.	1.6	15
134	Molecules with ALMA at Planet-forming Scales (MAPS). X. Studying Deuteration at High Angular Resolution toward Protoplanetary Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 10.	3.0	15
135	A New, Rotating Hot Corino in Serpens. <i>Astrophysical Journal</i> , 2019, 880, 130.	1.6	14
136	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42.	1.6	14
137	Entrapment of CO in CO ₂ Ice. <i>Astrophysical Journal</i> , 2019, 883, 21.	1.6	11
138	Tracers of the ionization fraction in dense and translucent gas. <i>Astronomy and Astrophysics</i> , 2021, 645, A28.	2.1	11
139	Exploring HNC and HCN line emission as probes of the protoplanetary disk temperature. <i>Astronomy and Astrophysics</i> , 2021, 647, A118.	2.1	10
140	The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29.	1.6	10
141	Ice-coated Pebble Drift as a Possible Explanation for Peculiar Cometary CO/H ₂ O Ratios. <i>Astrophysical Journal</i> , 2021, 913, 9.	1.6	10
142	A 3 mm Chemical Exploration of Small Organics in Class I YSOs. <i>Astrophysical Journal</i> , 2020, 898, 131.	1.6	10
143	Chemical Network Reduction in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 872, 107.	1.6	9
144	Ices in Starless and Starforming Cores. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 65-78.	0.0	8

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145	Carbon monoxide gas produced by a giant impact in the inner region of a young system. <i>Nature</i> , 2021, 598, 425-428.	13.7	8
146	Hot Corino Chemistry in the Class I Binary Source Ser-emb 11. <i>Astrophysical Journal</i> , 2021, 923, 155.	1.6	8
147	Exploring the Chemistry Induced by Energetic Processing of the H ₂ -bearing, CO-rich Apolar Ice Layer. <i>Astrophysical Journal</i> , 2020, 902, 116.	1.6	7
148	Disk Evolution Study through Imaging of Nearby Young Stars (DESTINYS): A Panchromatic View of DO Tau's Complex Kilo-astronomical-unit Environment. <i>Astrophysical Journal</i> , 2022, 930, 171.	1.6	7
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