

# Gianni Cataldi

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

955  
citations

361413

20  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecules with ALMA at Planet-forming Scales (MAPS). I. Program Overview and Highlights. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 1.	7.7	117
2	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 5.	7.7	87
3	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.	7.7	58
4	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.	7.7	58
5	Molecules with ALMA at Planet-forming Scales (MAPS). III. Characteristics of Radial Chemical Substructures. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 3.	7.7	57
6	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.	7.7	56
7	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.	7.7	51
8	Molecules with ALMA at Planet-forming Scales (MAPS). VII. Substellar O/H and C/H and Superstellar C/O in Planet-feeding Gas. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 7.	7.7	40
9	Contrast sensitivities in the <i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2019, 621, A86.	5.1	39
10	Molecules with ALMA at Planet-forming Scales (MAPS). VI. Distribution of the Small Organics HCN, C <sub>2</sub> H, and H <sub>2</sub> CO. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 6.	7.7	37
11	ALMA Resolves C i Emission from the $\hat{\iota}^2$ Pictoris Debris Disk. <i>Astrophysical Journal</i> , 2018, 861, 72.	4.5	36
12	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.	7.7	33
13	Molecules with ALMA at Planet-forming Scales (MAPS). IX. Distribution and Properties of the Large Organic Molecules HC <sub>3</sub> N, CH <sub>3</sub> CN, and c-C <sub>3</sub> H <sub>2</sub> . <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 9.	7.7	30
14	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.	7.7	30
15	Molecules with ALMA at Planet-forming Scales. XX. The Massive Disk around GM Aurigae. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 20.	7.7	26
16	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.	7.7	25
17	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO <sup>+</sup> and Disk Ionization Structure. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 13.	7.7	24
18	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.	7.7	22

#	ARTICLE	IF	CITATIONS
19	A New Sample of Warm Extreme Debris Disks from the ALLWISE Catalog. <i>Astrophysical Journal</i> , 2021, 910, 27.	4.5	21
20	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.	7.7	21
21	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.	7.7	20
22	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.	7.7	19
23	The Surprisingly Low Carbon Mass in the Debris Disk around HD 32297. <i>Astrophysical Journal</i> , 2020, 892, 99.	4.5	18
24	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.	7.7	15
25	Tidal disruption versus planetesimal collisions as possible origins for the dispersing dust cloud around Fomalhaut. <i>Astronomy and Astrophysics</i> , 2020, 640, A93.	5.1	9
26	Vertical evolution of exocometary gas " I. How vertical diffusion shortens the CO lifetime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 507-524.	4.4	5
27	No Detection of Cold Dust around the Potential Exocomet Host $\rho$ Leo. <i>Research Notes of the AAS</i> , 2019, 3, 39.	0.7	1