

# L Ilse-dore Cleeves

## List of Publications by Year in descending order

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71  
papers

4,042  
citations

94433

37  
h-index

114465

63  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of HC <sup>18</sup> O <sup>+</sup> in a Protoplanetary Disk: Exploring Oxygen Isotope Fractionation of CO. <i>Astrophysical Journal</i> , 2022, 926, 148.	4.5	5
2	Classification of X-Ray Flare-driven Chemical Variability in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 928, 46.	4.5	4
3	New Constraints on Protoplanetary Disk Gas Masses in Lupus. <i>Astrophysical Journal</i> , 2022, 927, 229.	4.5	12
4	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.	4.5	19
5	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42.	4.5	14
6	Observing Carbon and Oxygen Carriers in Protoplanetary Disks at Mid-infrared Wavelengths. <i>Astrophysical Journal</i> , 2021, 909, 55.	4.5	19
7	An Atacama Large Millimeter/submillimeter Array Survey of Chemistry in Disks around M4–M5 Stars. <i>Astrophysical Journal</i> , 2021, 911, 150.	4.5	6
8	The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29.	4.5	10
9	Ice-coated Pebble Drift as a Possible Explanation for Peculiar Cometary CO/H <sub>2</sub> O Ratios. <i>Astrophysical Journal</i> , 2021, 913, 9.	4.5	10
10	Near-IR Observations of the Young Star [BHB2007]-1: A Substellar Companion Opening the Gap in the Disk. <i>Astrophysical Journal</i> , 2021, 912, 64.	4.5	3
11	Evidence for a Cosmic-Ray Gradient in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2021, 912, 136.	4.5	15
12	The TW Hya Rosetta Stone Project. I. Radial and Vertical Distributions of DCN and DCO <sup>+</sup> . <i>Astronomical Journal</i> , 2021, 161, 38.	4.7	16
13	Simulating Observations of Ices in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2021, 920, 115.	4.5	17
14	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</i> , Supplement Series, 2021, 257, 7.	7.7	40
15	Molecules with ALMA at Planet-forming Scales (MAPS). X. Studying Deuteration at High Angular Resolution toward Protoplanetary Disks. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 10.	7.7	15
16	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</i> , Supplement Series, 2021, 257, 9.	7.7	30
17	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</i> , Supplement Series, 2021, 257, 19.	7.7	33
18	Molecules with ALMA at Planet-forming Scales (MAPS). IV. Emission Surfaces and Vertical Distribution of Molecules. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 4.	7.7	58

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19	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
20	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
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). III. Characteristics of Radial Chemical Substructures. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 3.	7.7	57
23	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
24	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
25	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
26	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
27	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
28	An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 893, 101.	4.5	38
29	Chemistry Along Accretion Streams in a Viscously Evolving Protoplanetary Disk. <i>Astrophysical Journal</i> , 2020, 890, 154.	4.5	6
30	An ALMA Survey of H <sub>2</sub> CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142.	4.5	47
31	An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97.	4.5	34
32	Untangling Magnetic Complexity in Protoplanetary Disks with the Zeeman Effect. <i>Astrophysical Journal</i> , 2020, 903, 20.	4.5	6
33	A Case of Simultaneous Star and Planet Formation. <i>Astrophysical Journal Letters</i> , 2020, 904, L6.	8.3	48
34	Probing CO and N <sub>2</sub> Snow Surfaces in Protoplanetary Disks with N <sub>2</sub> H <sup>+</sup> Emission. <i>Astrophysical Journal</i> , 2019, 882, 160.	4.5	47
35	Unlocking CO Depletion in Protoplanetary Disks. II. Primordial C/H Predictions inside the CO Snowline. <i>Astrophysical Journal</i> , 2019, 877, 131.	4.5	27
36	Modeling Time Dependent Water Chemistry Due to Powerful X-Ray Flares from T-Tauri Stars. <i>Astrophysical Journal</i> , 2019, 883, 197.	4.5	11

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37	Unlocking CO Depletion in Protoplanetary Disks. I. The Warm Molecular Layer. <i>Astrophysical Journal</i> , 2018, 856, 85.	4.5	82
38	CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations. <i>Astrophysical Journal</i> , 2018, 852, 122.	4.5	127
39	Chemistry During the Gas-Rich Stage of Planet Formation. , 2018, , 1-30.		1
40	The Distribution and Excitation of CH <sub>3</sub> CN in a Solar Nebula Analog. <i>Astrophysical Journal</i> , 2018, 859, 131.	4.5	65
41	Chemistry During the Gas-Rich Stage of Planet Formation. , 2018, , 2221-2250.		7
42	Constraining Gas-phase Carbon, Oxygen, and Nitrogen in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 865, 155.	4.5	69
43	ALMA Observations of Polarization from Dust Scattering in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 860, 82.	4.5	71
44	First Detection of the Simplest Organic Acid in a Protoplanetary Disk*. <i>Astrophysical Journal Letters</i> , 2018, 862, L2.	8.3	73
45	H <sub>2</sub> CO Distribution and Formation in the TW HYA Disk. <i>Astrophysical Journal</i> , 2017, 839, 43.	4.5	38
46	Mass inventory of the giant-planet formation zone in a solar nebula analogue. <i>Nature Astronomy</i> , 2017, 1, .	10.1	100
47	Variable H <sup>13</sup> CO <sup>+</sup> Emission in the IM Lup Disk: X-Ray Driven Time-dependent Chemistry?. <i>Astrophysical Journal Letters</i> , 2017, 843, L3.	8.3	44
48	Composition of early planetary atmospheres â€” II. Coupled Dust and chemical evolution in protoplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3910-3927.	4.4	38
49	First evidence of external disc photoevaporation in a low mass star forming region: the case of IM Lup. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 468, L108-L112.	3.3	71
50	Zooming in on the Chemistry of Protoplanetary Disks with ALMA. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 57-68.	0.0	0
51	Unveiling the mid-plane temperature and mass distribution in the giant-planet formation zone. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 103-108.	0.0	0
52	THE COUPLED PHYSICAL STRUCTURE OF GAS AND DUST IN THE IM Lup PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2016, 832, 110.	4.5	130
53	THE RADIAL DISTRIBUTION OF H <sub>2</sub> AND CO IN TW HYA AS REVEALED BY RESOLVED ALMA OBSERVATIONS OF CO ISOTOPOLOGUES. <i>Astrophysical Journal</i> , 2016, 823, 91.	4.5	163
54	First detection of gas-phase ammonia in a planet-forming disk. <i>Astronomy and Astrophysics</i> , 2016, 591, A122.	5.1	52

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55	ON THE COMMONALITY OF 10–30 AU SIZED AXISYMMETRIC DUST STRUCTURES IN PROTOPLANETARY DISKS. <i>Astrophysical Journal Letters</i> , 2016, 818, L16.	8.3	117
56	HYDROCARBON EMISSION RINGS IN PROTOPLANETARY DISKS INDUCED BY DUST EVOLUTION. <i>Astrophysical Journal</i> , 2016, 831, 101.	4.5	149
57	MULTIPLE CARBON MONOXIDE SNOWLINES IN DISKS SCULPTED BY RADIAL DRIFT. <i>Astrophysical Journal Letters</i> , 2016, 816, L21.	8.3	59
58	EXPLORING THE ORIGINS OF DEUTERIUM ENRICHMENTS IN SOLAR NEBULAR ORGANICS. <i>Astrophysical Journal</i> , 2016, 819, 13.	4.5	43
59	EVIDENCE FOR DCO <sup>+</sup> AS A PROBE OF IONIZATION IN THE WARM DISK SURFACE. <i>Astrophysical Journal Letters</i> , 2015, 802, L23.	8.3	28
60	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.	4.5	151
61	INDIRECT DETECTION OF FORMING PROTOPLANETS VIA CHEMICAL ASYMMETRIES IN DISKS. <i>Astrophysical Journal</i> , 2015, 807, 2.	4.5	40
62	THE DISTRIBUTION AND CHEMISTRY OF H <sub>2</sub> CO IN THE DM TAU PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 809, L25.	8.3	48
63	EXCLUSION OF COSMIC RAYS IN PROTOPLANETARY DISKS. II. CHEMICAL GRADIENTS AND OBSERVATIONAL SIGNATURES. <i>Astrophysical Journal</i> , 2014, 794, 123.	4.5	69
64	Exploring the origins of carbon in terrestrial worlds. <i>Faraday Discussions</i> , 2014, 168, 61.	3.2	63
65	The ancient heritage of water ice in the solar system. <i>Science</i> , 2014, 345, 1590-1593.	12.6	229
66	An old disk still capable of forming a planetary system. <i>Nature</i> , 2013, 493, 644-646.	27.8	285
67	EXCLUSION OF COSMIC RAYS IN PROTOPLANETARY DISKS: STELLAR AND MAGNETIC EFFECTS. <i>Astrophysical Journal</i> , 2013, 772, 5.	4.5	168
68	A SIGNIFICANTLY LOW CO ABUNDANCE TOWARD THE TW Hya PROTOPLANETARY DISK: A PATH TO ACTIVE CARBON CHEMISTRY?. <i>Astrophysical Journal Letters</i> , 2013, 776, L38.	8.3	155
69	RADIONUCLIDE IONIZATION IN PROTOPLANETARY DISKS: CALCULATIONS OF DECAY PRODUCT RADIATIVE TRANSFER. <i>Astrophysical Journal</i> , 2013, 777, 28.	4.5	45
70	Detection of the Water Reservoir in a Forming Planetary System. <i>Science</i> , 2011, 334, 338-340.	12.6	258
71	TRANSITION DISK CHEMISTRY AND FUTURE PROSPECTS WITH ALMA. <i>Astrophysical Journal Letters</i> , 2011, 743, L2.	8.3	29