

Ke Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,562
citations

201674

27
h-index

197818

49
g-index

52
all docs

52
docs citations

52
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	EVIDENCE OF FAST PEBBLE GROWTH NEAR CONDENSATION FRONTS IN THE HL TAU PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 806, L7.	8.3	297
2	An old disk still capable of forming a planetary system. <i>Nature</i> , 2013, 493, 644-646.	27.8	285
3	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.	4.5	163
4	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
5	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
6	Mass inventory of the giant-planet formation zone in a solar nebula analogue. <i>Nature Astronomy</i> , 2017, 1, .	10.1	100
7	CO Depletion in Protoplanetary Disks: A Unified Picture Combining Physical Sequestration and Chemical Processing. <i>Astrophysical Journal</i> , 2020, 899, 134.	4.5	87
8	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 5.	7.7	87
9	Unlocking CO Depletion in Protoplanetary Disks. I. The Warm Molecular Layer. <i>Astrophysical Journal</i> , 2018, 856, 85.	4.5	82
10	COMPARISON OF THE DUST AND GAS RADIAL STRUCTURE IN THE TRANSITION DISK [PZ99] J160421.7-213028. <i>Astrophysical Journal</i> , 2014, 791, 42.	4.5	74
11	Systematic Variations of CO Gas Abundance with Radius in Gas-rich Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 883, 98.	4.5	70
12	MEASUREMENTS OF WATER SURFACE SNOW LINES IN CLASSICAL PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2016, 818, 22.	4.5	58
13	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
14	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
15	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
16	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
17	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
18	Rapid Evolution of Volatile CO from the Protostellar Disk Stage to the Protoplanetary Disk Stage. <i>Astrophysical Journal Letters</i> , 2020, 891, L17.	8.3	43

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19	ON MAGNESIUM SULFIDE AS THE CARRIER OF THE 30 $\hat{1}$ / ₄ m EMISSION FEATURE IN EVOLVED STARS. <i>Astrophysical Journal</i> , 2009, 702, 680-685.	4.5	41
20	ALMA OBSERVATIONS OF THE T TAURI BINARY SYSTEM AS 205: EVIDENCE FOR MOLECULAR WINDS AND/OR BINARY INTERACTIONS. <i>Astrophysical Journal</i> , 2014, 792, 68.	4.5	41
21	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
22	Molecules with ALMA at Planet-forming Scales (MAPS). VI. Distribution of the Small Organics HCN, C ₂ H, and H ₂ CO. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 6.	7.7	37
23	The TW Hya Rosetta Stone Project. III. Resolving the Gaseous Thermal Profile of the Disk. <i>Astrophysical Journal</i> , 2021, 908, 8.	4.5	35
24	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
25	Excess C/H in Protoplanetary Disk Gas from Icy Pebble Drift Across the CO Snowline. <i>Astrophysical Journal Letters</i> , 2020, 891, L16.	8.3	32
26	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</i> , Supplement Series, 2021, 257, 9.	7.7	30
27	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</i> , Supplement Series, 2021, 257, 12.	7.7	30
28	On the carriers of the 21 $\hat{1}$ / ₄ m emission feature in post-asymptotic giant branch stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1247-1256.	4.4	27
29	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
30	Molecules with ALMA at Planet-forming Scales. XX. The Massive Disk around GM Aurigae. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 20.	7.7	26
31	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO ⁺ and Disk Ionization Structure. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 13.	7.7	24
32	A High-resolution Mid-infrared Survey of Water Emission from Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 874, 24.	4.5	22
33	Molecules with ALMA at Planet-forming Scales (MAPS). VIII. CO Gap in AS 209 "Gas Depletion or Chemical Processing?. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 8.	7.7	22
34	Chemical Evolution in a Protoplanetary Disk within Planet Carved Gaps and Dust Rings. <i>Astrophysical Journal</i> , 2020, 905, 68.	4.5	21
35	Molecules with ALMA at Planet-forming Scales (MAPS). XV. Tracing Protoplanetary Disk Structure within 20 au. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 15.	7.7	21
36	Probing the Gas Content of Late-stage Protoplanetary Disks with N ₂ H ⁺ . <i>Astrophysical Journal</i> , 2019, 881, 127.	4.5	20

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37	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
38	Observing Carbon and Oxygen Carriers in Protoplanetary Disks at Mid-infrared Wavelengths. <i>Astrophysical Journal</i> , 2021, 909, 55.	4.5	19
39	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
40	DETECTION OF WATER VAPOR IN THE TERRESTRIAL PLANET FORMING REGION OF A TRANSITION DISK. <i>Astrophysical Journal Letters</i> , 2015, 810, L24.	8.3	18
41	Destruction of Refractory Carbon Grains Drives the Final Stage of Protoplanetary Disk Chemistry. <i>Astrophysical Journal</i> , 2021, 910, 3.	4.5	15
42	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
43	On Silicon Carbide Grains as the Carrier of the 21 μm Emission Feature in Post-Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2005, 630, L77-L80.	4.5	13
44	A Novel Way of Measuring the Gas Disk Mass of Protoplanetary Disks Using N_2H^+ and C^{18}O . <i>Astrophysical Journal Letters</i> , 2022, 926, L2.	8.3	12
45	Effect of MHD Wind-driven Disk Evolution on the Observed Sizes of Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 926, 61.	4.5	12
46	New Constraints on Protoplanetary Disk Gas Masses in Lupus. <i>Astrophysical Journal</i> , 2022, 927, 229.	4.5	12
47	Hints of a Population of Solar System Analog Planets from ALMA. <i>Astrophysical Journal Letters</i> , 2020, 895, L46.	8.3	10
48	The infrared spectral features of circumstellar envelope of evolved low- and intermediate-mass stars. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 1187-1199.	0.2	4
49	The 21- μm and 30- μm circumstellar dust features in evolved C-rich objects. <i>Earth, Planets and Space</i> , 2010, 62, 105-110.	2.5	4
50	On the inorganic carriers of the 21 micron emission feature in post-AGB stars. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 215-216.	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