

Jane Huang

List of Publications by Year in descending order

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63
papers

4,452
citations

117625

34
h-index

114465

63
g-index

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all docs

65
docs citations

65
times ranked

1501
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.	8.3	732
2	The Disk Substructures at High Angular Resolution Project (DSHARP). II. Characteristics of Annular Substructures. <i>Astrophysical Journal Letters</i> , 2018, 869, L42.	8.3	326
3	The Disk Substructures at High Angular Resolution Project (DSHARP). VII. The Planetâ€“Disk Interactions Interpretation. <i>Astrophysical Journal Letters</i> , 2018, 869, L47.	8.3	289
4	The Disk Substructures at High Angular Resolution Project (DSHARP). VI. Dust Trapping in Thin-ringed Protoplanetary Disks. <i>Astrophysical Journal Letters</i> , 2018, 869, L46.	8.3	250
5	The Disk Substructures at High Angular Resolution Project (DSHARP). V. Interpreting ALMA Maps of Protoplanetary Disks in Terms of a Dust Model. <i>Astrophysical Journal Letters</i> , 2018, 869, L45.	8.3	199
6	One Solution to the Mass Budget Problem for Planet Formation: Optically Thick Disks with Dust Scattering. <i>Astrophysical Journal Letters</i> , 2019, 877, L18.	8.3	150
7	THE COUPLED PHYSICAL STRUCTURE OF GAS AND DUST IN THE IM Lup PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2016, 832, 110.	4.5	130
8	CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations. <i>Astrophysical Journal</i> , 2018, 852, 122.	4.5	127
9	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.	8.3	121
10	Molecules with ALMA at Planet-forming Scales (MAPS). I. Program Overview and Highlights. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 1.	7.7	117
11	Nine Localized Deviations from Keplerian Rotation in the DSHARP Circumstellar Disks: Kinematic Evidence for Protoplanets Carving the Gaps. <i>Astrophysical Journal Letters</i> , 2020, 890, L9.	8.3	116
12	The Disk Substructures at High Angular Resolution Project (DSHARP). IX. A High-definition Study of the HD 163296 Planet-forming Disk. <i>Astrophysical Journal Letters</i> , 2018, 869, L49.	8.3	114
13	An ALMA Survey of DCN/H ¹³ CN and DCO ⁺ /H ¹³ CO ⁺ in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2017, 835, 231.	4.5	87
14	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 5.	7.7	87
15	The Disk Substructures at High Angular Resolution Project (DSHARP). IV. Characterizing Substructures and Interactions in Disks around Multiple Star Systems. <i>Astrophysical Journal Letters</i> , 2018, 869, L44.	8.3	86
16	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.	8.3	69
17	Constraining Gas-phase Carbon, Oxygen, and Nitrogen in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 865, 155.	4.5	69
18	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.	8.3	58

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19	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
20	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
21	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
22	Detecting Weak Spectral Lines in Interferometric Data through Matched Filtering. <i>Astronomical Journal</i> , 2018, 155, 182.	4.7	56
23	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
24	A Multifrequency ALMA Characterization of Substructures in the GM Aur Protoplanetary Disk. <i>Astrophysical Journal</i> , 2020, 891, 48.	4.5	54
25	Characterizing the dust content of disk substructures in TW Hydrae. <i>Astronomy and Astrophysics</i> , 2021, 648, A33.	5.1	53
26	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
27	EVIDENCE FOR A CO DESORPTION FRONT IN THE OUTER AS 209 DISK. <i>Astrophysical Journal Letters</i> , 2016, 823, L18.	8.3	48
28	An ALMA Survey of H ₂ CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142.	4.5	47
29	Spiral Structure in the Gas Disk of TW Hya. <i>Astrophysical Journal Letters</i> , 2019, 884, L56.	8.3	43
30	Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Late Infall Causing Disk Misalignment and Dynamic Structures in SU Aur*. <i>Astrophysical Journal Letters</i> , 2021, 908, L25.	8.3	42
31	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
32	H ₂ CO Distribution and Formation in the TW Hya Disk. <i>Astrophysical Journal</i> , 2017, 839, 43.	4.5	38
33	An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 893, 101.	4.5	38
34	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, Supplement Series</i> , 2021, 257, 6.	7.7	37
35	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
36	An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97.	4.5	34

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37	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
38	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.	7.7	30
39	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
40	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
41	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
42	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO ⁺ and Disk Ionization Structure. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 13.	7.7	24
43	Large-scale CO Spiral Arms and Complex Kinematics Associated with the T Tauri Star RU Lup. <i>Astrophysical Journal</i> , 2020, 898, 140.	4.5	23
44	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
45	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
46	CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 932, 114.	4.5	21
47	Probing the Gas Content of Late-stage Protoplanetary Disks with N ₂ H ⁺ . <i>Astrophysical Journal</i> , 2019, 881, 127.	4.5	20
48	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
49	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
50	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
51	Limits on Millimeter Continuum Emission from Circumplanetary Material in the DSHARP Disks. <i>Astrophysical Journal</i> , 2021, 916, 51.	4.5	18
52	DETECTION OF N ₂ D ⁺ IN A PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 809, L26.	8.3	17
53	The TW Hya Rosetta Stone Project. I. Radial and Vertical Distributions of DCN and DCO ⁺ . <i>Astronomical Journal</i> , 2021, 161, 38.	4.7	16
54	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

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55	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42.	4.5	14
56	A Search for Companions via Direct Imaging in the DSHARP Planet-forming Disks. <i>Astronomical Journal</i> , 2021, 161, 146.	4.7	14
57	The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29.	4.5	10
58	A 3 mm Chemical Exploration of Small Organics in Class I YSOs. <i>Astrophysical Journal</i> , 2020, 898, 131.	4.5	10
59	disksurf: Extracting the 3D Structure of Protoplanetary Disks. <i>Journal of Open Source Software</i> , 2021, 6, 3827.	4.6	9
60	Hot Corino Chemistry in the Class I Binary Source Ser-emb 11. <i>Astrophysical Journal</i> , 2021, 923, 155.	4.5	8
61	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.	4.5	7
62	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
63	Gas and Dust Shadows in the TW Hydrae Disk. <i>Astrophysical Journal</i> , 2022, 930, 144.	4.5	3