

Jane Huang

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

4,452
citations

117625

34
h-index

114465

63
g-index

65
all docs

65
docs citations

65
times ranked

1501
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Gas and Dust Shadows in the TW Hydrae Disk. <i>Astrophysical Journal</i> , 2022, 930, 144. | 4.5 | 3 |
| 2 | 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 |
| 3 | CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 932, 114. | 4.5 | 21 |
| 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 | 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 |
| 6 | 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 |
| 7 | Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42. | 4.5 | 14 |
| 8 | A Search for Companions via Direct Imaging in the DSHARP Planet-forming Disks. <i>Astronomical Journal</i> , 2021, 161, 146. | 4.7 | 14 |
| 9 | 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 |
| 10 | The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29. | 4.5 | 10 |
| 11 | Characterizing the dust content of disk substructures in TW Hydrae. <i>Astronomy and Astrophysics</i> , 2021, 648, A33. | 5.1 | 53 |
| 12 | Limits on Millimeter Continuum Emission from Circumplanetary Material in the DSHARP Disks. <i>Astrophysical Journal</i> , 2021, 916, 51. | 4.5 | 18 |
| 13 | 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 |
| 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, Supplement Series</i> , 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, Supplement Series</i> , 2021, 257, 10. | 7.7 | 15 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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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). 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 5. | 7.7 | 87 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | disksurf: Extracting the 3D Structure of Protoplanetary Disks. <i>Journal of Open Source Software</i> , 2021, 6, 3827. | 4.6 | 9 |
| 34 | 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 |
| 35 | Hot Corino Chemistry in the Class I Binary Source Ser-emb 11. <i>Astrophysical Journal</i> , 2021, 923, 155. | 4.5 | 8 |
| 36 | An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 893, 101. | 4.5 | 38 |

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|----|--|-----|-----------|
| 37 | A Multifrequency ALMA Characterization of Substructures in the GM Aur Protoplanetary Disk. <i>Astrophysical Journal</i> , 2020, 891, 48. | 4.5 | 54 |
| 38 | 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 |
| 39 | An ALMA Survey of H ₂ CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142. | 4.5 | 47 |
| 40 | An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97. | 4.5 | 34 |
| 41 | A 3 mm Chemical Exploration of Small Organics in Class I YSOs. <i>Astrophysical Journal</i> , 2020, 898, 131. | 4.5 | 10 |
| 42 | 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 |
| 43 | Probing the Gas Content of Late-stage Protoplanetary Disks with N ₂ H ⁺ . <i>Astrophysical Journal</i> , 2019, 881, 127. | 4.5 | 20 |
| 44 | 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 |
| 45 | Spiral Structure in the Gas Disk of TW Hya. <i>Astrophysical Journal Letters</i> , 2019, 884, L56. | 8.3 | 43 |
| 46 | Detecting Weak Spectral Lines in Interferometric Data through Matched Filtering. <i>Astronomical Journal</i> , 2018, 155, 182. | 4.7 | 56 |
| 47 | CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations. <i>Astrophysical Journal</i> , 2018, 852, 122. | 4.5 | 127 |
| 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. | 8.3 | 69 |
| 49 | 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 |
| 50 | 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 |
| 51 | The Disk Substructures at High Angular Resolution Project (DSHARP). VII. The Planet–Disk Interactions Interpretation. <i>Astrophysical Journal Letters</i> , 2018, 869, L47. | 8.3 | 289 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Constraining Gas-phase Carbon, Oxygen, and Nitrogen in the IM Lup Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 865, 155. | 4.5 | 69 |
| 59 | H ₂ CO Distribution and Formation in the TW HYA Disk. <i>Astrophysical Journal</i> , 2017, 839, 43. | 4.5 | 38 |
| 60 | 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 |
| 61 | THE COUPLED PHYSICAL STRUCTURE OF GAS AND DUST IN THE IM Lup PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2016, 832, 110. | 4.5 | 130 |
| 62 | EVIDENCE FOR A CO DESORPTION FRONT IN THE OUTER AS 209 DISK. <i>Astrophysical Journal Letters</i> , 2016, 823, L18. | 8.3 | 48 |
| 63 | DETECTION OF N ₂ D ⁺ IN A PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 809, L26. | 8.3 | 17 |