

# Takashi Tsukagoshi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5283735/publications.pdf>

Version: 2024-02-01

99  
papers

3,376  
citations

136950

32  
h-index

161849

54  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1955  
citing authors

#	ARTICLE	IF	CITATIONS
1	MILLIMETER-WAVE POLARIZATION OF PROTOPLANETARY DISKS DUE TO DUST SCATTERING. <i>Astrophysical Journal</i> , 2015, 809, 78.	4.5	197
2	MASS ESTIMATES OF A GIANT PLANET IN A PROTOPLANETARY DISK FROM THE GAP STRUCTURES. <i>Astrophysical Journal Letters</i> , 2015, 806, L15.	8.3	153
3	Local Enhancement of the Surface Density in the Protoplanetary Ring Surrounding HD 142527. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	129
4	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
5	The Evidence of Radio Polarization Induced by the Radiative Grain Alignment and Self-scattering of Dust Grains in a Protoplanetary Disk. <i>Astrophysical Journal Letters</i> , 2017, 844, L5.	8.3	109
6	SUBARU IMAGING OF ASYMMETRIC FEATURES IN A TRANSITIONAL DISK IN UPPER SCORPIUS. <i>Astrophysical Journal Letters</i> , 2012, 760, L26.	8.3	108
7	ALMA OBSERVATIONS OF A GAP AND A RING IN THE PROTOPLANETARY DISK AROUND TW HYA. <i>Astrophysical Journal Letters</i> , 2016, 819, L7.	8.3	105
8	Mass constraint for a planet in a protoplanetary disk from the gap width. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	104
9	DISCOVERY OF A DISK GAP CANDIDATE AT 20 AU IN TW HYDRAE. <i>Astrophysical Journal Letters</i> , 2015, 802, L17.	8.3	96
10	A GAP WITH A DEFICIT OF LARGE GRAINS IN THE PROTOPLANETARY DISK AROUND TW Hya. <i>Astrophysical Journal Letters</i> , 2016, 829, L35.	8.3	90
11	SUBMILLIMETER POLARIZATION OBSERVATION OF THE PROTOPLANETARY DISK AROUND HD 142527. <i>Astrophysical Journal Letters</i> , 2016, 831, L12.	8.3	88
12	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 5.	7.7	87
13	GRAIN SIZE CONSTRAINTS ON HL TAU WITH POLARIZATION SIGNATURE. <i>Astrophysical Journal</i> , 2016, 820, 54.	4.5	86
14	High abundance ratio of $^{13}\text{CO}$ to $\text{C}^{18}\text{O}$ toward photon-dominated regions in the Orion-A giant molecular cloud. <i>Astronomy and Astrophysics</i> , 2014, 564, A68.	5.1	66
15	THE STRUCTURE OF PRE-TRANSITIONAL PROTOPLANETARY DISKS. II. AZIMUTHAL ASYMMETRIES, DIFFERENT RADIAL DISTRIBUTIONS OF LARGE AND SMALL DUST GRAINS IN PDS 70. <i>Astrophysical Journal</i> , 2015, 799, 43.	4.5	65
16	EVIDENCE FOR CLOUD-CLOUD COLLISION AND PARSEC-SCALE STELLAR FEEDBACK WITHIN THE L1641-N REGION. <i>Astrophysical Journal</i> , 2012, 746, 25.	4.5	62
17	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
18	Molecules with ALMA at Planet-forming Scales (MAPS). II. CLEAN Strategies for Synthesizing Images of Molecular Line Emission in Protoplanetary Disks. <i>Astrophysical Journal</i> , Supplement Series, 2021, 257, 2.	7.7	58

#	ARTICLE	IF	CITATIONS
19	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
20	Two Different Grain Size Distributions within the Protoplanetary Disk around HD 142527 Revealed by ALMA Polarization Observation. <i>Astrophysical Journal</i> , 2018, 864, 81.	4.5	56
21	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
22	New Panoramic View of 12CO and 1.1 mm Continuum Emission in the Orion A Giant Molecular Cloud. I. Survey Overview and Possible External Triggers of Star Formation. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 105-123.	2.5	54
23	The Sizes and Depletions of the Dust and Gas Cavities in the Transitional Disk J160421.7-213028. <i>Astrophysical Journal</i> , 2017, 836, 201.	4.5	50
24	MOLECULAR OUTFLOWS FROM THE PROTOCLUSTER SERPENS SOUTH. <i>Astrophysical Journal</i> , 2011, 737, 56.	4.5	49
25	THE MOLECULAR OUTFLOWS IN THE $\rho$ -OPHIUCHI MAIN CLOUD: IMPLICATIONS FOR TURBULENCE GENERATION. <i>Astrophysical Journal</i> , 2011, 726, 46.	4.5	44
26	Detection of Submillimeter-wave [C i] Emission in Gaseous Debris Disks of 49 Ceti and $\hat{\imath}^2$ Pictoris. <i>Astrophysical Journal Letters</i> , 2017, 839, L14.	8.3	44
27	Detection of an ultrabright submillimetre galaxy in the Subaru/XMM-Newton Deep Field, using AzTEC/ASTE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3081-3096.	4.4	41
28	EXTENSIVE [C I] MAPPING TOWARD THE ORION-A GIANT MOLECULAR CLOUD. <i>Astrophysical Journal Letters</i> , 2013, 774, L20.	8.3	40
29	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
30	Discovery of An au-scale Excess in Millimeter Emission from the Protoplanetary Disk around TW Hya. <i>Astrophysical Journal Letters</i> , 2019, 878, L8.	8.3	37
31	A Spatially Resolved au-scale Inner Disk around DM Tau. <i>Astrophysical Journal Letters</i> , 2018, 868, L5.	8.3	36
32	First light demonstration of the integrated superconducting spectrometer. <i>Nature Astronomy</i> , 2019, 3, 989-996.	10.1	36
33	Significant gas-to-dust ratio asymmetry and variation in the disk of HD 142527 and the indication of gas depletion. <i>Publication of the Astronomical Society of Japan</i> , 2015, 67, .	2.5	35
34	CATALOG OF DENSE CORES IN THE ORION A GIANT MOLECULAR CLOUD. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 7.	7.7	33
35	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
36	Detailed modeling of dust distribution in the disk of HD 142527. <i>Publication of the Astronomical Society of Japan</i> , 2017, 69, .	2.5	32

#	ARTICLE	IF	CITATIONS
37	CW Ori: Interactions between a Triple-star System and Its Circumtriple Disk in Action. <i>Astrophysical Journal Letters</i> , 2020, 895, L18.	8.3	32
38	Scattering-induced Intensity Reduction: Large Mass Content with Small Grains in the Inner Region of the TW Hya disk. <i>Astrophysical Journal</i> , 2020, 893, 125.	4.5	31
39	THE ROTATING OUTFLOW, ENVELOPE, AND DISK OF THE CLASS-0/I PROTOSTAR [BHB2007]#11 IN THE PIPE NEBULA. <i>Astrophysical Journal</i> , 2013, 771, 128.	4.5	30
40	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
41	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
42	HIGH-RESOLUTION SUBMILLIMETER AND NEAR-INFRARED STUDIES OF THE TRANSITION DISK AROUND Sz 91. <i>Astrophysical Journal</i> , 2014, 783, 90.	4.5	29
43	Dust Continuum Emission and the Upper Limit Fluxes of Submillimeter Water Lines of the Protoplanetary Disk around HD 163296 Observed by ALMA. <i>Astrophysical Journal</i> , 2019, 875, 96.	4.5	28
44	SPIRAL STRUCTURE AND DIFFERENTIAL DUST SIZE DISTRIBUTION IN THE LkH $\hat{\pm}$ 330 DISK. <i>Astronomical Journal</i> , 2016, 152, 222.	4.7	27
45	Nobeyama 45 $\hat{\mu}$ m mapping observations toward the nearby molecular clouds Orion $\hat{\mu}$ A, Aquila Rift, and M17: Project overview. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	26
46	ALMA Reveals a Misaligned Inner Gas Disk inside the Large Cavity of a Transitional Disk. <i>Astrophysical Journal Letters</i> , 2018, 868, L3.	8.3	25
47	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
48	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
49	Nobeyama 45 $\hat{\mu}$ m mapping observations toward Orion A. II. Classification of cloud structures and variation of the <sup>13</sup> CO/ <sup>18</sup> O abundance ratio due to far-UV radiation. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	23
50	SPECTRAL-LINE SURVEY AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS TOWARD AN OUTFLOW-SHOCKED REGION, OMC 2-FIR 4. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 31.	7.7	22
51	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
52	CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 932, 114.	4.5	21
53	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
54	Multiwavelength study of the high-latitude cloud L1642: chain of star formation. <i>Astronomy and Astrophysics</i> , 2014, 563, A125.	5.1	18

#	ARTICLE	IF	CITATIONS
55	THE INTRINSIC ABUNDANCE RATIO AND X-FACTOR OF CO ISOTOPOLOGUES IN L 1551 SHIELDED FROM FUV PHOTODISSOCIATION. <i>Astrophysical Journal</i> , 2016, 826, 193.	4.5	18
56	DENSE MOLECULAR CLUMPS ASSOCIATED WITH THE LARGE MAGELLANIC CLOUD SUPERGIANT SHELLS LMC 4 AND LMC 5. <i>Astrophysical Journal</i> , 2014, 796, 123.	4.5	17
57	FIRST DETECTION OF [C I] $\text{P}^{1-3}$ EMISSION FROM A PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2015, 802, L7.	8.3	17
58	An Observational Study for Grain Dynamics in the AS 209 Disk with Submillimeter Polarization*. <i>Astrophysical Journal</i> , 2019, 883, 16.	4.5	17
59	The Flared Gas Structure of the Transitional Disk around Sz 91. <i>Astrophysical Journal</i> , 2019, 871, 5.	4.5	16
60	$\text{N}^{14}/\text{N}^{15}$ Isotopic Ratio in $\text{CH}_3\text{CN}$ of Titan's Atmosphere Measured with ALMA. <i>Astrophysical Journal</i> , 2020, 890, 95.	4.5	16
61	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. <i>Astrophysical Journal Letters</i> , 2021, 910, L6.	8.3	15
62	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
63	Extremely Dense Cores Associated with Chandra Sources in Ophiuchus A: Forming Brown Dwarfs Unveiled?. <i>Astrophysical Journal</i> , 2018, 866, 141.	4.5	14
64	ALMA Observations of the Asymmetric Dust Disk around DM Tau. <i>Astrophysical Journal</i> , 2021, 911, 5.	4.5	14
65	High Spatial Resolution Observations of Molecular Lines toward the Protoplanetary Disk around TW Hya with ALMA. <i>Astrophysical Journal</i> , 2021, 914, 113.	4.5	14
66	Temperature Variations of Cold Dust in the Triangulum Galaxy M 33. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 1139-1150.	2.5	11
67	Nobeyama 45 m mapping observations toward Orion A. I. Molecular outflows. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	11
68	TW Hya: an old protoplanetary disc revived by its planet. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	11
69	The 2006 Radio Outbursts of a Microquasar Cygnus X-3: Observations and Data. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, 465-473.	2.5	9
70	Nobeyama 45m mapping observations toward Orion A. III. Multi-line observations toward an outflow-shocked region, Orion Molecular Cloud 2 FIR 4. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	9
71	The Detection of Dust Gap-ring Structure in the Outer Region of the CR Cha Protoplanetary Disk. <i>Astrophysical Journal</i> , 2020, 888, 72.	4.5	9
72	DESHIMA on ASTE: On-Sky Responsivity Calibration of the Integrated Superconducting Spectrometer. <i>Journal of Low Temperature Physics</i> , 2020, 199, 231-239.	1.4	9

#	ARTICLE	IF	CITATIONS
73	Massive Compact Dust Disk with a Gap around CW Tau Revealed by ALMA Multiband Observations. <i>Astrophysical Journal</i> , 2022, 930, 56.	4.5	9
74	Millimeter Continuum Observations of McNeil's Nebula Object. <i>Publication of the Astronomical Society of Japan</i> , 2005, 57, L21-L24.	2.5	8
75	An Observational Study of the Temperature and Surface Density Structures of a Typical Full Disk around MWC480. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	8
76	DETECTION OF STRONG MILLIMETER EMISSION FROM THE CIRCUMSTELLAR DUST DISK AROUND V1094 SCO: COLD AND MASSIVE DISK AROUND A T TAURI STAR IN A QUIESCENT ACCRETION PHASE?. <i>Astrophysical Journal</i> , 2011, 726, 45.	4.5	7
77	Investigating the gas-to-dust ratio in the protoplanetary disk of HD 142527. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	7
78	Model of a Gap Formed by a Planet with Fast Inward Migration. <i>Astrophysical Journal</i> , 2020, 892, 83.	4.5	7
79	Super-resolution Imaging of the Protoplanetary Disk HD 142527 Using Sparse Modeling. <i>Astrophysical Journal</i> , 2020, 895, 84.	4.5	7
80	ALMA Observation of the Protoplanetary Disk around WW Cha: Faint Double-peaked Ring and Asymmetric Structure. <i>Astrophysical Journal</i> , 2021, 909, 212.	4.5	7
81	Search for sulfur-bearing species as remnant of cometary impact on Neptune. <i>Planetary and Space Science</i> , 2014, 104, 211-215.	1.7	6
82	SUBMILLIMETER OBSERVATION OF JUPITER'S STRATOSPHERIC COMPOSITION: DETECTION OF CARBON MONOSULFIDE ( $\text{CS}$ ) 19 YEARS AFTER THE COMETARY IMPACT. <i>Astronomical Journal</i> , 2016, 152, 179.	4.7	6
83	The Synthetic ALMA Multiband Analysis of the Dust Properties of the TW Hya Protoplanetary Disk. <i>Astrophysical Journal</i> , 2019, 872, 179.	4.5	6
84	ALMA Super-resolution Imaging of T Tau: $r = 12$ au Gap in the Compact Dust Disk around T Tau N. <i>Astrophysical Journal</i> , 2021, 923, 121.	4.5	6
85	Unveiling the outer dust disc of TW Hya with deep ALMA observations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 515, L23-L28.	3.0	6
86	A New Method for Direct Measurement of Isotopologue Ratios in Protoplanetary Disks: A Case Study of the $^{12}\text{CO}/^{13}\text{CO}$ Ratio in the TW Hya Disk. <i>Astrophysical Journal</i> , 2022, 932, 126.	4.5	6
87	Subaru Near-infrared Imaging Polarimetry of Misaligned Disks around the SR 24 Hierarchical Triple System*. <i>Astronomical Journal</i> , 2020, 159, 12.	4.7	5
88	Detection of $\text{HC}^{18}\text{O}^{+}$ in a Protoplanetary Disk: Exploring Oxygen Isotope Fractionation of CO. <i>Astrophysical Journal</i> , 2022, 926, 148.	4.5	5
89	ALMA High-resolution Multiband Analysis for the Protoplanetary Disk around TW Hya. <i>Astrophysical Journal</i> , 2022, 928, 49.	4.5	5
90	The C18O core mass function toward Orion A: Single-dish observations. <i>Publication of the Astronomical Society of Japan</i> , 2021, 73, 487-503.	2.5	3

#	ARTICLE	IF	CITATIONS
91	EXTREMELY BRIGHT SUBMILLIMETER GALAXIES BEYOND THE LUPUS-I STAR-FORMING REGION. <i>Astrophysical Journal</i> , 2015, 808, 121.	4.5	2
92	Radial decoupling of small and large dust grains in the transitional disk RX J1615.3-3255. <i>Astronomy and Astrophysics</i> , 2017, 597, A132.	5.1	2
93	A Belt-like Distribution of Gaseous Hydrogen Cyanide on Neptune's Equatorial Stratosphere Detected by ALMA. <i>Astrophysical Journal Letters</i> , 2020, 903, L1.	8.3	2
94	Wide-field Imaging Survey of Dust Continuum Emissions at $\lambda = 1.1$ mm toward the Chamaeleon and Lupus Regions with AzTEC on ASTE. , 2009, , .		0
95	Cold Dust and its Heating Sources in M 33. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 26-29.	0.0	0
96	Observational constraint on Pluto's atmospheric CO with ASTE. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	0
97	Detection of submillimeter-wave [C I] emission in gaseous debris disks of 49 Ceti and $\rho^2$ Pictoris. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 81-87.	0.0	0
98	Possibility to locate the position of the H <sub>2</sub> O snowline in protoplanetary disks through spectroscopic observations. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 393-395.	0.0	0
99	<sup>13</sup> C Isotopic Ratios of HC <sub>3</sub> N on Titan Measured with ALMA. <i>Planetary Science Journal</i> , 2021, 2, 166.	3.6	0