Takashi Tsukagoshi

List of Publications by Year
in descending order

99	3,376	136950	161849
papers	citations	32 h-index	54 g-index

101	101	101	1955
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of HC¹⁸O⁺ in a Protoplanetary Disk: Exploring Oxygen Isotope Fractionation of CO. Astrophysical Journal, 2022, 926, 148.	4.5	5
2	ALMA High-resolution Multiband Analysis for the Protoplanetary Disk around TW Hya. Astrophysical Journal, 2022, 928, 49.	4.5	5
3	Unveiling the outer dust disc of TW Hya with deep ALMA observations. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 515, L23-L28.	3.0	6
4	Massive Compact Dust Disk with a Gap around CW Tau Revealed by ALMA Multiband Observations. Astrophysical Journal, 2022, 930, 56.	4.5	9
5	CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. Astrophysical Journal, 2022, 932, 114.	4.5	21
6	A New Method for Direct Measurement of Isotopologue Ratios in Protoplanetary Disks: A Case Study of the ¹²CO/¹³CO Ratio in the TW Hya Disk. Astrophysical Journal, 2022, 932, 126.	4.5	6
7	ALMA Observation of the Protoplanetary Disk around WW Cha: Faint Double-peaked Ring and Asymmetric Structure. Astrophysical Journal, 2021, 909, 212.	4.5	7
8	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. Astrophysical Journal Letters, 2021, 910, L6.	8.3	15
9	The C18O core mass function toward Orion A: Single-dish observations. Publication of the Astronomical Society of Japan, 2021, 73, 487-503.	2.5	3
10	ALMA Observations of the Asymmetric Dust Disk around DM Tau. Astrophysical Journal, 2021, 911, 5.	4.5	14
11	High Spatial Resolution Observations of Molecular Lines toward the Protoplanetary Disk around TW Hya with ALMA. Astrophysical Journal, 2021, 914, 113.	4.5	14
12	¹³C Isotopic Ratios of HC₃N on Titan Measured with ALMA. Planetary Science Journal, 2021, 2, 166.	3.6	0
13	Molecules with ALMA at Planet-forming Scales (MAPS). VII. Substellar O/H and C/H and Superstellar C/O in Planet-feeding Gas. Astrophysical Journal, Supplement Series, 2021, 257, 7.	7.7	40
14	Molecules with ALMA at Planet-forming Scales (MAPS). X. Studying Deuteration at High Angular Resolution toward Protoplanetary Disks. Astrophysical Journal, Supplement Series, 2021, 257, 10.	7.7	15
15	Molecules with ALMA at Planet-forming Scales (MAPS). IX. Distribution and Properties of the Large Organic Molecules HC₃N, CH₃CN, and c-C₃H₂. Astrophysical Journal, Supplement Series, 2021, 257, 9.	7.7	30
16	Molecules with ALMA at Planet-forming Scales (MAPS). XIX. Spiral Arms, a Tail, and Diffuse Structures Traced by CO around the GM Aur Disk. Astrophysical Journal, Supplement Series, 2021, 257, 19.	7.7	33
17	Molecules with ALMA at Planet-forming Scales (MAPS). IV. Emission Surfaces and Vertical Distribution of Molecules. Astrophysical Journal, Supplement Series, 2021, 257, 4.	7.7	58
18	Molecules with ALMA at Planet-forming Scales (MAPS). XII. Inferring the C/O and S/H Ratios in Protoplanetary Disks with Sulfur Molecules. Astrophysical Journal, Supplement Series, 2021, 257, 12.	7.7	30

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19	Molecules with ALMA at Planet-forming Scales (MAPS). I. Program Overview and Highlights. Astrophysical Journal, Supplement Series, 2021, 257, 1.	7.7	117
20	Molecules with ALMA at Planet-forming Scales (MAPS). XVI. Characterizing the Impact of the Molecular Wind on the Evolution of the HD 163296 System. Astrophysical Journal, Supplement Series, 2021, 257, 16.	7.7	20
21	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. Astrophysical Journal, Supplement Series, 2021, 257, 5.	7.7	87
22	Molecules with ALMA at Planet-forming Scales (MAPS). III. Characteristics of Radial Chemical Substructures. Astrophysical Journal, Supplement Series, 2021, 257, 3.	7.7	57
23	Molecules with ALMA at Planet-forming Scales (MAPS). XV. Tracing Protoplanetary Disk Structure within 20 au. Astrophysical Journal, Supplement Series, 2021, 257, 15.	7.7	21
24	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO⁺ and Disk Ionization Structure. Astrophysical Journal, Supplement Series, 2021, 257, 13.	7.7	24
25	Molecules with ALMA at Planet-forming Scales (MAPS). XIV. Revealing Disk Substructures in Multiwavelength Continuum Emission. Astrophysical Journal, Supplement Series, 2021, 257, 14.	7.7	56
26	Molecules with ALMA at Planet-forming Scales (MAPS). II. CLEAN Strategies for Synthesizing Images of Molecular Line Emission in Protoplanetary Disks. Astrophysical Journal, Supplement Series, 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. Astrophysical Journal, Supplement Series, 2021, 257, 11.	7.7	25
28	ALMA Super-resolution Imaging of T Tau: r = 12 au Gap in the Compact Dust Disk around T Tau N. Astrophysical Journal, 2021, 923, 121.	4.5	6
29	Subaru Near-infrared Imaging Polarimetry of Misaligned Disks around the SR 24 Hierarchical Triple System*. Astronomical Journal, 2020, 159, 12.	4.7	5
30	Model of a Gap Formed by a Planet with Fast Inward Migration. Astrophysical Journal, 2020, 892, 83.	4.5	7
31	Super-resolution Imaging of the Protoplanetary Disk HD 142527 Using Sparse Modeling. Astrophysical Journal, 2020, 895, 84.	4.5	7
32	¹⁴N/¹⁵N Isotopic Ratio in CH₃CN of Titanâ€™s Atmosphere Measured with ALMA. Astrophysical Journal, 2020, 890, 95.	4.5	16
33	The Detection of Dust Gap-ring Structure in the Outer Region of the CR Cha Protoplanetary Disk. Astrophysical Journal, 2020, 888, 72.	4.5	9
34	DESHIMA on ASTE: On-Sky Responsivity Calibration of the Integrated Superconducting Spectrometer. Journal of Low Temperature Physics, 2020, 199, 231-239.	1.4	9
35	Scattering-induced Intensity Reduction: Large Mass Content with Small Grains in the Inner Region of the TW Hya disk. Astrophysical Journal, 2020, 893, 125.	4.5	31
36	GW Ori: Interactions between a Triple-star System and Its Circumtriple Disk in Action. Astrophysical Journal Letters, 2020, 895, L18.	8.3	32

#	Article	IF	Citations
37	A Belt-like Distribution of Gaseous Hydrogen Cyanide on Neptuneâ€™s Equatorial Stratosphere Detected by ALMA. Astrophysical Journal Letters, 2020, 903, L1.	8.3	2
38	First light demonstration of the integrated superconducting spectrometer. Nature Astronomy, 2019, 3, 989-996.	10.1	36
39	Investigating the gas-to-dust ratio in the protoplanetary disk of HD 142527. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	7
40	Nobeyama 45â€‰m mapping observations toward the nearby molecular clouds Orionâ€‰A, Aquila Rift, and M17: Project overview. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	26
41	An Observational Study for Grain Dynamics in the AS 209 Disk with Submillimeter Polarization*. Astrophysical Journal, 2019, 883, 16.	4.5	17
42	Nobeyama 45â€‰m mapping observations toward Orion A. II. Classification of cloud structures and variation of the 13CO/C18O abundance ratio due to far-UV radiation. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	23
43	Discovery of An au-scale Excess in Millimeter Emission from the Protoplanetary Disk around TW Hya. Astrophysical Journal Letters, 2019, 878, L8.	8.3	37
44	The Synthetic ALMA Multiband Analysis of the Dust Properties of the TW Hya Protoplanetary Disk. Astrophysical Journal, 2019, 872, 179.	4.5	6
45	Dust Continuum Emission and the Upper Limit Fluxes of Submillimeter Water Lines of the Protoplanetary Disk around HD 163296 Observed by ALMA. Astrophysical Journal, 2019, 875, 96.	4.5	28
46	The Flared Gas Structure of the Transitional Disk around Sz 91. Astrophysical Journal, 2019, 871, 5.	4.5	16
47	Nobeyama 45 m mapping observations toward Orion A. I. Molecular outflows. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	11
48	Nobeyama 45â€‰m mapping observations toward Orion A. III. Multi-line observations toward an outflow-shocked region, Orion Molecular Cloud 2 FIR 4. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	9
49	A Spatially Resolved au-scale Inner Disk around DM Tau. Astrophysical Journal Letters, 2018, 868, L5.	8.3	36
50	Two Different Grain Size Distributions within the Protoplanetary Disk around HD 142527 Revealed by ALMA Polarization Observation. Astrophysical Journal, 2018, 864, 81.	4.5	56
51	ALMA Reveals a Misaligned Inner Gas Disk inside the Large Cavity of a Transitional Disk. Astrophysical Journal Letters, 2018, 868, L3.	8.3	25
52	Extremely Dense Cores Associated with Chandra Sources in Ophiuchus A: Forming Brown Dwarfs Unveiled?. Astrophysical Journal, 2018, 866, 141.	4.5	14
53	Possibility to locate the position of the H₂O snowline in protoplanetary disks through spectroscopic observations. Proceedings of the International Astronomical Union, 2018, 14, 393-395.	0.0	0
54	Detection of Submillimeter-wave [C i] Emission in Gaseous Debris Disks of 49 Ceti and Î² Pictoris. Astrophysical Journal Letters, 2017, 839, L14.	8.3	44

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55	Radial decoupling of small and large dust grains in the transitional disk RX J1615.3-3255. Astronomy and Astrophysics, 2017, 597, A132.	5.1	2
56	The Sizes and Depletions of the Dust and Gas Cavities in the Transitional Disk J160421.7-213028. Astrophysical Journal, 2017, 836, 201.	4.5	50
57	The Evidence of Radio Polarization Induced by the Radiative Grain Alignment and Self-scattering of Dust Grains in a Protoplanetary Disk. Astrophysical Journal Letters, 2017, 844, L5.	8.3	109
58	Detection of submillimeter-wave [C I]emission in gaseous debris disks of 49 Ceti and Î² Pictoris. Proceedings of the International Astronomical Union, 2017, 13, 81-87.	0.0	0
59	Detailed modeling of dust distribution in the disk of HDÂ142527. Publication of the Astronomical Society of Japan, 2017, 69, .	2.5	32
60	GRAIN SIZE CONSTRAINTS ON HL TAU WITH POLARIZATION SIGNATURE. Astrophysical Journal, 2016, 820, 54.	4.5	86
61	ALMA OBSERVATIONS OF A GAP AND A RING IN THE PROTOPLANETARY DISK AROUND TW HYA. Astrophysical Journal Letters, 2016, 819, L7.	8.3	105
62	SUBMILLIMETER OBSERVATION OF JUPITERâ€™S STRATOSPHERIC COMPOSITION: DETECTION OF CARBON MONOSULFIDE (JÂ=Â7 â^' 6) 19 YEARS AFTER THE COMETARY IMPACT. Astronomical Journal, 2016, 152, 179.	4.7	6
63	THE INTRINSIC ABUNDANCE RATIO AND X-FACTOR OF CO ISOTOPOLOGUES IN L 1551 SHIELDED FROM FUV PHOTODISSOCIATION. Astrophysical Journal, 2016, 826, 193.	4.5	18
64	SUBMILLIMETER POLARIZATION OBSERVATION OF THE PROTOPLANETARY DISK AROUND HD 142527. Astrophysical Journal Letters, 2016, 831, L12.	8.3	88
65	A GAP WITH A DEFICIT OF LARGE GRAINS IN THE PROTOPLANETARY DISK AROUND TW Hya. Astrophysical Journal Letters, 2016, 829, L35.	8.3	90
66	SPIRAL STRUCTURE AND DIFFERENTIAL DUST SIZE DISTRIBUTION IN THE LkHÎ± 330 DISK. Astronomical Journal, 2016, 152, 222.	4.7	27
67	Mass constraint for a planet in a protoplanetary disk from the gap width. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	104
68	Observational constraint on Pluto's atmospheric CO with ASTE. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	0
69	MILLIMETER-WAVE POLARIZATION OF PROTOPLANETARY DISKS DUE TO DUST SCATTERING. Astrophysical Journal, 2015, 809, 78.	4.5	197
70	SPECTRAL-LINE SURVEY AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS TOWARD AN OUTFLOW-SHOCKED REGION, OMC 2-FIR 4. Astrophysical Journal, Supplement Series, 2015, 221, 31.	7.7	22
71	MASS ESTIMATES OF A GIANT PLANET IN A PROTOPLANETARY DISK FROM THE GAP STRUCTURES. Astrophysical Journal Letters, 2015, 806, L15.	8.3	153
72	Significant gas-to-dust ratio asymmetry and variation in the disk of HDÂ142527 and the indication of gas depletion. Publication of the Astronomical Society of Japan, 2015, 67, .	2.5	35

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73	THE STRUCTURE OF PRE-TRANSITIONAL PROTOPLANETARY DISKS. II. AZIMUTHAL ASYMMETRIES, DIFFERENT RADIAL DISTRIBUTIONS OF LARGE AND SMALL DUST GRAINS IN PDS 70[,]. Astrophysical Journal, 2015, 799, 43.	4.5	65
74	FIRST DETECTION OF [C I] ³ P ₁ â€“ ³ P ₀ EMISSION FROM A PROTOPLANETARY DISK. Astrophysical Journal Letters, 2015, 802, L7.	8.3	17
75	DISCOVERY OF A DISK GAP CANDIDATE AT 20 AU IN TW HYDRAE. Astrophysical Journal Letters, 2015, 802, L17.	8.3	96
76	CATALOG OF DENSE CORES IN THE ORION A GIANT MOLECULAR CLOUD. Astrophysical Journal, Supplement Series, 2015, 217, 7.	7.7	33
77	EXTREMELY BRIGHT SUBMILLIMETER GALAXIES BEYOND THE LUPUS-I STAR-FORMING REGION. Astrophysical Journal, 2015, 808, 121.	4.5	2
78	Multiwavelength study of the high-latitude cloud L1642: chain of star formation. Astronomy and Astrophysics, 2014, 563, A125.	5.1	18
79	Search for sulfur-bearing species as remnant of cometary impact on Neptune. Planetary and Space Science, 2014, 104, 211-215.	1.7	6
80	DENSE MOLECULAR CLUMPS ASSOCIATED WITH THE LARGE MAGELLANIC CLOUD SUPERGIANT SHELLS LMC 4 AND LMC 5. Astrophysical Journal, 2014, 796, 123.	4.5	17
81	HIGH-RESOLUTION SUBMILLIMETER AND NEAR-INFRARED STUDIES OF THE TRANSITION DISK AROUND Sz 91. Astrophysical Journal, 2014, 783, 90.	4.5	29
82	High abundance ratio of¹³CO to C¹⁸O toward photon-dominated regions in the Orion-A giant molecular cloud. Astronomy and Astrophysics, 2014, 564, A68.	5.1	66
83	Local Enhancement of the Surface Density in the Protoplanetary Ring Surrounding HD 142527. Publication of the Astronomical Society of Japan, 2013, 65, .	2.5	129
84	An Observational Study of the Temperature and Surface Density Structures of a Typical Full Disk around MWC480. Publication of the Astronomical Society of Japan, 2013, 65, .	2.5	8
85	EXTENSIVE [C I] MAPPING TOWARD THE ORION-A GIANT MOLECULAR CLOUD. Astrophysical Journal Letters, 2013, 774, L20.	8.3	40
86	THE ROTATING OUTFLOW, ENVELOPE, AND DISK OF THE CLASS-0/I PROTOSTAR [BHB2007]#11 IN THE PIPE NEBULA. Astrophysical Journal, 2013, 771, 128.	4.5	30
87	SUBARU IMAGING OF ASYMMETRIC FEATURES IN A TRANSITIONAL DISK IN UPPER SCORPIUS. Astrophysical Journal Letters, 2012, 760, L26.	8.3	108
88	EVIDENCE FOR CLOUD-CLOUD COLLISION AND PARSEC-SCALE STELLAR FEEDBACK WITHIN THE L1641-N REGION. Astrophysical Journal, 2012, 746, 25.	4.5	62
89	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?. Astrophysical Journal, 2011, 726, 45.	4.5	7
90	THE MOLECULAR OUTFLOWS IN THE Ï•OPHIUCHI MAIN CLOUD: IMPLICATIONS FOR TURBULENCE GENERATION. Astrophysical Journal, 2011, 726, 46.	4.5	44

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91	MOLECULAR OUTFLOWS FROM THE PROTOCLUSTER SERPENS SOUTH. Astrophysical Journal, 2011, 737, 56.	4.5	49
92	Detection of an ultrabright submillimetre galaxy in the Subaru/XMM-Newtonâ€,Deep Fieldâ€,using AzTEC/ASTE. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3081-3096.	4.4	41
93	Temperature Variations of Cold Dust in the Triangulum Galaxy M 33. Publication of the Astronomical Society of Japan, 2011, 63, 1139-1150.	2.5	11
94	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. Publication of the Astronomical Society of Japan, 2011, 63, 105-123.	2.5	54
95	Cold Dust and its Heating Sources in M 33. Proceedings of the International Astronomical Union, 2010, 6, 26-29.	0.0	0
96	Wide-field Imaging Survey of Dust Continuum Emissions at Î»â€‰=â€‰1.1â€‰mm toward the Chamaeleon and Lupus Regions with AzTEC on ASTE. , 2009, , .		0
97	The 2006 Radio Outbursts of a Microquasar Cygnus X-3: Observations and Data. Publication of the Astronomical Society of Japan, 2008, 60, 465-473.	2.5	9
98	Millimeter Continuum Observations of McNeilâ€™s Nebula Object. Publication of the Astronomical Society of Japan, 2005, 57, L21-L24.	2.5	8
99	TW Hya: an old protoplanetary disc revived by its planet. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11