Ya-Wen Tang

List of Publications by Year
in descending order

67	2,308	159585 30	233421 45
papers	citations	h-index	g-index

68	68	68	1545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MAGNETIC FIELDS AND MASSIVE STAR FORMATION. Astrophysical Journal, 2014, 792, 116.	4.5	142
2	EVOLUTION OF MAGNETIC FIELDS IN HIGH-MASS STAR FORMATION: LINKING FIELD GEOMETRY AND COLLAPSE FOR THE W51 e2/e8 CORES. Astrophysical Journal, 2009, 700, 251-261.	4.5	91
3	Self-similar fragmentation regulated by magnetic fields in a region forming massive stars. Nature, 2015, 520, 518-521.	27.8	83
4	DR 21(OH): A HIGHLY FRAGMENTED, MAGNETIZED, TURBULENT DENSE CORE. Astrophysical Journal, 2013, 772, 69.	4.5	79
5	Planet Formation in AB Aurigae: Imaging of the Inner Gaseous Spirals Observed inside the Dust Cavity. Astrophysical Journal, 2017, 840, 32.	4.5	79
6	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. Astrophysical Journal, 2017, 842, 66.	4.5	79
7	OBSERVATIONS OF INFALLING AND ROTATIONAL MOTIONS ON A 1000 AU SCALE AROUND 17 CLASS 0 AND 0/I PROTOSTARS: HINTS OF DISK GROWTH AND MAGNETIC BRAKING?. Astrophysical Journal, 2015, 799, 193.	4.5	72
8	First Confirmed Detection of a Bipolar Molecular Outflow from a Young Brown Dwarf. Astrophysical Journal, 2008, 689, L141-L144.	4.5	71
9	The Complex Morphology of the Young Disk MWC 758: Spirals and Dust Clumps around a Large Cavity. Astrophysical Journal, 2018, 853, 162.	4.5	71
10	EVOLUTION OF MAGNETIC FIELDS IN HIGH MASS STAR FORMATION: SUBMILLIMETER ARRAY DUST POLARIZATION IMAGE OF THE ULTRACOMPACT H II REGION G5.89â€“0.39. Astrophysical Journal, 2009, 695, 1399-1412.	4.5	58
11	A Holistic Perspective on the Dynamics of G035.39-00.33: The Interplay between Gas and Magnetic Fields. Astrophysical Journal, 2018, 859, 151.	4.5	57
12	Possible planet formation in the young, low-mass, multiple stellar system GG Tau A. Nature, 2014, 514, 600-602.	27.8	54
13	HIGH-ANGULAR RESOLUTION DUST POLARIZATION MEASUREMENTS: SHAPEDB-FIELD LINES IN THE MASSIVE STAR-FORMING REGION ORION BN/KL. Astrophysical Journal, 2010, 717, 1262-1273.	4.5	52
14	MAGNETIC FIELD STRENGTH MAPS FOR MOLECULAR CLOUDS: A NEW METHOD BASED ON A POLARIZATION-INTENSITY GRADIENT RELATION. Astrophysical Journal, 2012, 747, 79.	4.5	52
15	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. Astrophysical Journal, 2018, 861, 65.	4.5	51
16	The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. Astrophysical Journal, Supplement Series, 2018, 234, 28.	7.7	50
17	SUBMILLIMETER ARRAY OBSERVATIONS OF MAGNETIC FIELDS IN G240.31+0.07: AN HOURGLASS IN A MASSIVE CLUSTER-FORMING CORE. Astrophysical Journal Letters, 2014, 794, L18.	8.3	48
18	MOLECULAR OUTFLOWS IN THE SUBSTELLAR DOMAIN: MILLIMETER OBSERVATIONS OF YOUNG VERY LOW MASS OBJECTS IN TAURUS AND Ï•OPHIUCHI. Astrophysical Journal, 2011, 735, 14.	4.5	47

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19	A First Look at BISTRO Observations of the Ï•Oph-A core. Astrophysical Journal, 2018, 859, 4.	4.5	46
20	Gravity, Magnetic Field, and Turbulence: Relative Importance and Impact on Fragmentation in the Infrared Dark Cloud G34.43+00.24. Astrophysical Journal, 2019, 878, 10.	4.5	45
21	How Do Stars Gain Their Mass? A JCMT/SCUBA-2 Transient Survey of Protostars in Nearby Star-forming Regions. Astrophysical Journal, 2017, 849, 43.	4.5	42
22	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. Astrophysical Journal, 2019, 876, 42.	4.5	42
23	THE IMPORTANCE OF THE MAGNETIC FIELD FROM AN SMA-CSO-COMBINED SAMPLE OF STAR-FORMING REGIONS. Astrophysical Journal, 2014, 797, 99.	4.5	41
24	Gravity-driven Magnetic Field at â^¼1000 au Scales in High-mass Star Formation. Astrophysical Journal Letters, 2021, 915, L10.	8.3	41
25	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. Astrophysical Journal, 2020, 899, 28.	4.5	39
26	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core <i>Ï‹/i> Ophiuchus C. Astrophysical Journal, 2019, 877, 43.	4.5	38
27	Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. Astrophysical Journal, 2019, 883, 95.	4.5	38
28	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. Astrophysical Journal, 2019, 877, 88.	4.5	37
29	FROM POLOIDAL TO TOROIDAL: DETECTION OF A WELL-ORDERED MAGNETIC FIELD IN THE HIGH-MASS PROTOCLUSTER G35.2â€“0.74 N. Astrophysical Journal, 2013, 779, 182.	4.5	34
30	Polarization Properties and Magnetic Field Structures in the High-mass Star-forming Region W51 Observed with ALMA. Astrophysical Journal, 2018, 855, 39.	4.5	34
31	PLANCK COLD CLUMPS IN THE Î» ORIONIS COMPLEX. I. DISCOVERY OF AN EXTREMELY YOUNG CLASS 0 PROTOSTELLAR OBJECT AND A PROTO-BROWN DWARF CANDIDATE IN THE BRIGHT-RIMMED CLUMP PGCC G192.32â€“11.88. Astrophysical Journal, Supplement Series, 2016, 222, 7.	7.7	31
32	Prevalence of Tidal Interactions among Local Seyfert Galaxies. Astrophysical Journal, 2008, 679, 1047-1093.	4.5	30
33	EXTREMELY LARGE AND HOT MULTILAYER KEPLERIAN DISK AROUND THE O-TYPE PROTOSTAR W51N: THE PRECURSORS OF THE HCH II REGIONS?. Astrophysical Journal, 2010, 725, 1091-1099.	4.5	27
34	DUST CONTINUUM AND POLARIZATION FROM ENVELOPE TO CORES IN STAR FORMATION: A CASE STUDY IN THE W51 NORTH REGION. Astrophysical Journal, 2013, 763, 135.	4.5	27
35	SURFACE GEOMETRY OF PROTOPLANETARY DISKS INFERRED FROM NEAR-INFRARED IMAGING POLARIMETRY. Astrophysical Journal, 2014, 795, 71.	4.5	27
36	QUANTIFYING THE SIGNIFICANCE OF THE MAGNETIC FIELD FROM LARGE-SCALE CLOUD TO COLLAPSING CORE: SELF-SIMILARITY, MASS-TO-FLUX RATIO, AND STAR FORMATION EFFICIENCY. Astrophysical Journal, 2012, 747, 80.	4.5	26

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37	1000 au exterior arcs connected to the protoplanetary disk around HL Tauri. Astronomy and Astrophysics, 2017, 608, A134.	5.1	25
38	CIRCUMBINARY RING, CIRCUMSTELLAR DISKS, AND ACCRETION IN THE BINARY SYSTEM UY AURIGAE. Astrophysical Journal, 2014, 793, 10.	4.5	24
39	MAGNETIC FIELD PROPERTIES IN HIGH-MASS STAR FORMATION FROM LARGE TO SMALL SCALES: A STATISTICAL ANALYSIS FROM POLARIZATION DATA. Astrophysical Journal, 2010, 721, 815-827.	4.5	23
40	INTERPRETING THE ROLE OF THE MAGNETIC FIELD FROM DUST POLARIZATION MAPS. Astrophysical Journal, 2013, 775, 77.	4.5	23
41	SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution â€“ survey description and compact source catalogue. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2895-2908.	4.4	22
42	Molecular Gas Feeding the Circumnuclear Disk of the Galactic Center. Astrophysical Journal, 2017, 847, 3.	4.5	21
43	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. Astrophysical Journal Letters, 2021, 912, L27.	8.3	21
44	Magnetized Converging Flows toward the Hot Core in the Intermediate/High-mass Star-forming Region NGC 6334 V. Astrophysical Journal, 2017, 844, 44.	4.5	20
45	Prevalence of Tidal Interactions among Local Seyfert Galaxies: The Control Experiment. Astrophysical Journal, 2008, 679, 1094-1127.	4.5	19
46	MAPPING CO GAS IN THE GG TAURI A TRIPLE SYSTEM WITH 50 au SPATIAL RESOLUTION. Astrophysical Journal, 2016, 820, 19.	4.5	19
47	EVOLUTIONARY STATUS OF BRIGHTEST AND YOUNGEST SOURCE IN THE ORION MOLECULAR CLOUD â€“3 REGION. Astrophysical Journal, 2009, 704, 1459-1470.	4.5	17
48	The JCMT BISTRO Survey: Alignment between Outflows and Magnetic Fields in Dense Cores/Clumps. Astrophysical Journal, 2021, 907, 33.	4.5	17
49	Observations of Magnetic Fields Surrounding LkHÎ± 101 Taken by the BISTRO Survey with JCMT-POL-2. Astrophysical Journal, 2021, 908, 10.	4.5	16
50	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. Astrophysical Journal, 2022, 926, 163.	4.5	16
51	A Magnetic Field Connecting the Galactic Center Circumnuclear Disk with Streamers and Mini-spiral: Implications from 850 Î¼m Polarization Data. Astrophysical Journal, 2018, 862, 150.	4.5	15
52	OMC-1 dust polarization in ALMA Band 7: diagnosing grain alignment mechanisms in the vicinity of Orion Source I. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3414-3433.	4.4	15
53	JCMT POL-2 and ALMA Polarimetric Observations of 6000â€“100 au Scales in the Protostar B335: Linking Magnetic Field and Gas Kinematics in Observations and MHD Simulations. Astrophysical Journal, 2019, 871, 243.	4.5	14
54	THE EXTREMELY HIGH VELOCITY OUTFLOW FROM THE LUMINOUS YOUNG STELLAR OBJECT G5.89â€“0.39. Astrophysical Journal Letters, 2012, 744, L26.	8.3	13

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55	Magnetic Fields in Massive Star-forming Regions (MagMaR). I. Linear Polarized Imaging of the Ultracompact H ii Region G5.89â€“0.39. Astrophysical Journal, 2021, 913, 29.	4.5	13
56	The JCMT BISTRO Survey: An 850/450 Î¼m Polarization Study of NGC 2071IR in Orion B. Astrophysical Journal, 2021, 918, 85.	4.5	13
57	First-generation science cases for ground-based terahertz telescopes. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	12
58	NEAR-INFRARED IMAGING POLARIMETRY OF INNER REGION OF GG TAU A DISK. Astronomical Journal, 2017, 153, 7.	4.7	12
59	The Circumnuclear Disk Revealed by ALMA. I. Dense Clouds and Tides in the Galactic Center. Astrophysical Journal, 2021, 913, 94.	4.5	12
60	Formation of the SDC13 Hub-filament System: A Cloudâ€“Cloud Collision Imprinted on the Multiscale Magnetic Field. Astrophysical Journal, 2022, 931, 115.	4.5	8
61	Transition from Ordered Pinched to Warped Magnetic Field on a 100 au Scale in the Class 0 Protostar B335. Astrophysical Journal, 2020, 893, 54.	4.5	7
62	Millimeter Imaging of the HH 270 Protostellar Core and Outflow. Astrophysical Journal, 2006, 648, 504-509.	4.5	4
63	The Nuclear Filaments inside the Circumnuclear Disk in the Central 0.5 pc of the Galactic Center. Astrophysical Journal Letters, 2019, 885, L20.	8.3	3
64	Morphology of the¹³CO(3â€“2) millimetre emission across the gas disc surrounding the triple protostar GG Tau A using ALMA observations. Research in Astronomy and Astrophysics, 2018, 18, 031.	1.7	2
65	Spiral-arm Substructures in the Asymmetrical Dust Rings of the Circumstellar Disk MWC 758. Astrophysical Journal, 2020, 904, 125.	4.5	1
66	Prevalence of galaxy-galaxy interactions in AGN hosts. Proceedings of the International Astronomical Union, 2004, 2004, 455-456.	0.0	0
67	Magnetic field morphologies at mpc scale. Proceedings of the International Astronomical Union, 2012, 10, 392-392.	0.0	0