

# Tony Mroczkowski

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

3,118  
citations

159585

30  
h-index

175258

52  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3266  
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-resolution view of the filament of gas between Abell 399 and Abell 401 from the Atacama Cosmology Telescope and MUSTANG-2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3335-3355.	4.4	14
2	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
3	Radio and X-Ray Observations of the Luminous Fast Blue Optical Transient AT 2020xnd. <i>Astrophysical Journal</i> , 2022, 926, 112.	4.5	29
4	The velocity structure of the intracluster medium during a major merger: Simulated microcalorimeter observations. <i>Astronomy and Astrophysics</i> , 2022, 663, A76.	5.1	2
5	X-Ray Emission from the Jets and Lobes of the Spiderweb. <i>Astrophysical Journal</i> , 2022, 928, 59.	4.5	7
6	A Study of 90 GHz Dust Emissivity on Molecular Cloud and Filament Scales. <i>Astrophysical Journal</i> , 2022, 929, 102.	4.5	1
7	The Abell 3391/95 galaxy cluster system. <i>Astronomy and Astrophysics</i> , 2021, 647, A2.	5.1	43
8	The Atacama Cosmology Telescope: A Catalog of $>4000$ Sunyaev-Zeldovich Galaxy Clusters. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 3.	7.7	118
9	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zeldovich measurements. <i>Physical Review D</i> , 2021, 103, .	4.7	60
10	Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zeldovich measurements from BOSS CMASS and LOWZ halos. <i>Physical Review D</i> , 2021, 103, .	4.7	76
11	A space mission to map the entire observable universe using the CMB as a backlight. <i>Experimental Astronomy</i> , 2021, 51, 1555-1591.	3.7	4
12	MERGHERS pilot: MeerKAT discovery of diffuse emission in nine massive Sunyaev-Zeldovich-selected galaxy clusters from ACT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1749-1758.	4.4	9
13	An ACA 1.3mm survey of HzRGs in the ELAIS-S1: survey description and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5259-5278.	4.4	1
14	Multiwavelength view of SPT-CL J2106-5844. <i>Astronomy and Astrophysics</i> , 2021, 650, A153.	5.1	5
15	Thermodynamic evolution of the $z = 1.75$ galaxy cluster IDCS J1426.5+3508. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5896-5909.	4.4	8
16	Observations of compact sources in galaxy clusters using MUSTANG2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2600-2612.	4.4	3
17	Atacama Cosmology Telescope measurements of a large sample of candidates from the Massive and Distant Clusters of WISE Survey. <i>Astronomy and Astrophysics</i> , 2021, 653, A135.	5.1	8
18	A Multiwavelength Dynamical State Analysis of ACT-CL J0019.6+0336. <i>Galaxies</i> , 2021, 9, 97.	3.0	2

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19	Active gas features in three HSC-SSP CAMIRA clusters revealed by high angular resolution analysis of MUSTANG-2 SZE and XXL X-ray observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1701-1732.	4.4	11
20	The mergers in Abell 2256: displaced gas and its connection to the radio-emitting plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 5014-5026.	4.4	9
21	The Karl G. Jansky Very Large Array Sky Survey (VLASS). Science Case and Survey Design. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 035001.	3.1	337
22	Wideband 67~116 GHz receiver development for ALMA Band 2. <i>Astronomy and Astrophysics</i> , 2020, 634, A46.	5.1	23
23	The discovery of radio halos in the frontier fields clusters Abell S1063 and Abell 370. <i>Astronomy and Astrophysics</i> , 2020, 636, A3.	5.1	22
24	The Massive and Distant Clusters of WISE Survey. <i>Astronomy and Astrophysics</i> , 2020, 638, A70.	5.1	10
25	High-resolution VLA low radio frequency observations of the Perseus cluster: radio lobes, mini-halo, and bent-jet radio galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5791-5805.	4.4	23
26	Pressure Profiles and Mass Estimates Using High-resolution Sunyaev-Zeldovich Effect Observations of Zwicky 3146 with MUSTANG-2. <i>Astrophysical Journal</i> , 2020, 891, 90.	4.5	25
27	Confirmation of Enhanced Long-wavelength Dust Emission in OMC 2/3. <i>Astrophysical Journal</i> , 2020, 893, 13.	4.5	8
28	The Massive and Distant Clusters of WISE Survey. IX. High Radio Activity in a Merging Cluster. <i>Astrophysical Journal</i> , 2020, 898, 145.	4.5	6
29	The Massive and Distant Clusters of WISE Survey. X. Initial Results from a Sunyaev-Zeldovich Effect Study of Massive Galaxy Clusters at $z > 1$ Using MUSTANG2 on the GBT. <i>Astrophysical Journal</i> , 2020, 902, 144.	4.5	12
30	The MUSTANG Galactic Plane Survey (MGPS90) Pilot. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 24.	7.7	10
31	Imaging the Thermal and Kinematic Sunyaev-Zeldovich Effect Signals in a Sample of 10 Massive Galaxy Clusters: Constraints on Internal Velocity Structures and Bulk Velocities. <i>Astrophysical Journal</i> , 2019, 880, 45.	4.5	28
32	A joint ALMA-Bolocam-Planck SZ study of the pressure distribution in RXJ1347.5~1145. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4037-4056.	4.4	17
33	The MESAS Project: Long-wavelength Follow-up Observations of Sirius A. <i>Astrophysical Journal</i> , 2019, 875, 55.	4.5	9
34	Dust opacity variations in the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2019, 623, A118.	5.1	29
35	Astrophysics with the Spatially and Spectrally Resolved Sunyaev-Zeldovich Effects. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	120
36	An ALMA+ACA measurement of the shock in the Bullet Cluster. <i>Astronomy and Astrophysics</i> , 2019, 628, A100.	5.1	19

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37	The VLA Low-Band Ionosphere and Transient Experiment (VLITE): Ionospheric Signal Processing and Analysis. <i>Radio Science</i> , 2019, 54, 1002-1035.	1.6	7
38	The Physics of Galaxy Cluster Outskirts. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	102
39	Large Molecular Gas Reservoirs in Star-forming Cluster Galaxies. <i>Astrophysical Journal</i> , 2019, 882, 132.	4.5	8
40	ALMA Band 5 receiver cartridge. <i>Astronomy and Astrophysics</i> , 2018, 611, A98.	5.1	23
41	Constraints on the Mass, Concentration, and Nonthermal Pressure Support of Six CLASH Clusters from a Joint Analysis of X-Ray, SZ, and Lensing Data. <i>Astrophysical Journal</i> , 2018, 861, 71.	4.5	19
42	Mapping the kinetic Sunyaev-Zel'dovich effect toward MACS J0717.5+3745 with NIKA. <i>Astronomy and Astrophysics</i> , 2017, 598, A115.	5.1	49
43	VLA Radio Observations of the HST Frontier Fields Cluster Abell 2744: The Discovery of New Radio Relics. <i>Astrophysical Journal</i> , 2017, 845, 81.	4.5	41
44	Galaxy Cluster Pressure Profiles as Determined by Sunyaev Zel'dovich Effect Observations with MUSTANG and Bolocam. II. Joint Analysis of 14 Clusters. <i>Astrophysical Journal</i> , 2017, 838, 86.	4.5	21
45	Chandra and JVLA Observations of HST Frontier Fields Cluster MACS J0717.5+3745. <i>Astrophysical Journal</i> , 2017, 835, 197.	4.5	46
46	ON R <sup>∞</sup> W1 AS A DIAGNOSTIC TO DISCOVER OBSCURED ACTIVE GALACTIC NUCLEI IN WIDE-AREA X-RAY SURVEYS. <i>Astrophysical Journal</i> , 2016, 818, 88.	4.5	21
47	THE DISCOVERY OF LENSED RADIO AND X-RAY SOURCES BEHIND THE FRONTIER FIELDS CLUSTER MACSJ0717.5+3745 WITH THE JVLA AND CHANDRA. <i>Astrophysical Journal</i> , 2016, 817, 98.	4.5	17
48	Photon noise from chaotic and coherent millimeter-wave sources measured with horn-coupled, aluminum lumped-element kinetic inductance detectors. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	20
49	Development of a Microwave SQUID-Multiplexed TES Array for MUSTANG-2. <i>Journal of Low Temperature Physics</i> , 2016, 184, 460-465.	1.4	15
50	A Titanium Nitride Absorber for Controlling Optical Crosstalk in Horn-Coupled Aluminum LEKID Arrays for Millimeter Wavelengths. <i>Journal of Low Temperature Physics</i> , 2016, 184, 154-160.	1.4	3
51	PECULIAR VELOCITY CONSTRAINTS FROM FIVE-BAND SZ EFFECT MEASUREMENTS TOWARD RX J1347.5 <sup>h</sup> 1145 WITH MUSIC AND BOLOCAM FROM THE CSO. <i>Astrophysical Journal</i> , 2016, 820, 101.	4.5	20
52	RADIO EMISSION FROM RED-GIANT HOT JUPITERS. <i>Astrophysical Journal</i> , 2016, 820, 122.	4.5	37
53	WSPEC: A Waveguide Filter-Bank Focal Plane Array Spectrometer for Millimeter Wave Astronomy and Cosmology. <i>Journal of Low Temperature Physics</i> , 2016, 184, 114-122.	1.4	11
54	FRONTIER FIELDS CLUSTERS: DEEP CHANDRA OBSERVATIONS OF THE COMPLEX MERGER MACSJ1149.6+2223. <i>Astrophysical Journal</i> , 2016, 819, 113.	4.5	16

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55	MULTI-WAVELENGTH OBSERVATIONS OF THE DISSOCIATIVE MERGER IN THE GALAXY CLUSTER CIZA J0107.7+5408. <i>Astrophysical Journal</i> , 2016, 823, 94.	4.5	9
56	FRONTIER FIELDS CLUSTERS: CHANDRA AND JVLA VIEW OF THE PRE-MERGING CLUSTER MACS J0416.1-2403. <i>Astrophysical Journal</i> , 2015, 812, 153.	4.5	44
57	MEASUREMENTS OF THE SUNYAEV-ZELDOVICH EFFECT IN MACS J0647.7+7015 AND MACS J1206.2+0847 AT HIGH ANGULAR RESOLUTION WITH MUSTANG. <i>Astrophysical Journal</i> , 2015, 809, 185.	4.5	12
58	A MULTI-WAVELENGTH MASS ANALYSIS OF RCS2 J232727.6-020437, A $z \approx 0.7$ GALAXY CLUSTER AT $z = 0.7$ . <i>Astrophysical Journal</i> , 2015, 814, 45-51.	4.5	19
59	RESOLVING THE MERGING PLANCK CLUSTER PLCK G147.3-16.6 WITH GISMO. <i>Astrophysical Journal Letters</i> , 2015, 808, L6.	8.3	3
60	J1649+2635: a grand-design spiral with a large double-lobed radio source. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 4176-4185.	4.4	31
61	THREE-DIMENSIONAL MULTI-PROBE ANALYSIS OF THE GALAXY CLUSTER A1689. <i>Astrophysical Journal</i> , 2015, 806, 207.	4.5	56
62	GALAXY CLUSTER SCALING RELATIONS BETWEEN BOLOCAM SUNYAEV-ZELDOVICH EFFECT AND CHANDRA X-RAY MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 806, 18.	4.5	48
63	GALAXY CLUSTER PRESSURE PROFILES, AS DETERMINED BY SUNYAEV-ZELDOVICH EFFECT OBSERVATIONS WITH MUSTANG AND BOLOCAM. I. JOINT ANALYSIS TECHNIQUE. <i>Astrophysical Journal</i> , 2015, 807, 121.	4.5	19
64	A LEKID-based CMB instrument design for large-scale observations in Greenland. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
65	Horn-coupled, commercially-fabricated aluminum lumped-element kinetic inductance detectors for millimeter wavelengths. <i>Review of Scientific Instruments</i> , 2014, 85, 123117.	1.3	32
66	MUSTANG2: a large focal plan array for the 100 meter Green Bank Telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	15
67	Aluminum LEKIDs for millimeter-wave radio astronomy. , 2014, , .		0
68	COMPARISON OF PRESTELLAR CORE ELONGATIONS AND LARGE-SCALE MOLECULAR CLOUD STRUCTURES IN THE LUPUS I REGION. <i>Astrophysical Journal</i> , 2014, 791, 43.	4.5	11
69	LUPUS I OBSERVATIONS FROM THE 2010 FLIGHT OF THE BALLOON-BORNE LARGE APERTURE SUBMILLIMETER TELESCOPE FOR POLARIMETRY. <i>Astrophysical Journal</i> , 2014, 784, 116.	4.5	33
70	MUSTANG 2: A Large Focal Plane Array for the 100 $\mu$ m Green Bank Telescope. <i>Journal of Low Temperature Physics</i> , 2014, 176, 808-814.	1.4	32
71	The Detector System for the Stratospheric Kinetic Inductance Polarimeter (Skip). <i>Journal of Low Temperature Physics</i> , 2014, 176, 741-748.	1.4	5
72	CLASH: COMPLETE LENSING ANALYSIS OF THE LARGEST COSMIC LENS MACS J0717.5+3745 AND SURROUNDING STRUCTURES. <i>Astrophysical Journal</i> , 2013, 777, 43.	4.5	79

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73	A MEASUREMENT OF THE KINETIC SUNYAEV-ZEL'DOVICH SIGNAL TOWARD MACS J0717.5+3745. <i>Astrophysical Journal</i> , 2013, 778, 52.	4.5	70
74	THE CONTRIBUTION OF RADIO GALAXY CONTAMINATION TO MEASUREMENTS OF THE SUNYAEV-ZEL'DOVICH DECREMENT IN MASSIVE GALAXY CLUSTERS AT 140 GHz WITH BOLOCAM. <i>Astrophysical Journal</i> , 2013, 764, 152.	4.5	25
75	SUNYAEV-ZEL'DOVICH-MEASURED PRESSURE PROFILES FROM THE BOLOCAM X-RAY/SZ GALAXY CLUSTER SAMPLE. <i>Astrophysical Journal</i> , 2013, 768, 177.	4.5	88
76	Comparison of pressure profiles of massive relaxed galaxy clusters using the Sunyaev-Zel'dovich and x-ray data. <i>New Journal of Physics</i> , 2012, 14, 025010.	2.9	64
77	MAKO: a pathfinder instrument for on-sky demonstration of low-cost 350 micron imaging arrays. <i>Proceedings of SPIE</i> , 2012, . .	0.8	16
78	LoCuSS: THE SUNYAEV-ZEL'DOVICH EFFECT AND WEAK-LENSING MASS SCALING RELATION. <i>Astrophysical Journal</i> , 2012, 754, 119.	4.5	79
79	A MULTI-WAVELENGTH STUDY OF THE SUNYAEV-ZEL'DOVICH EFFECT IN THE TRIPLE-MERGER CLUSTER MACS J0717.5+3745 WITH MUSTANG AND BOLOCAM. <i>Astrophysical Journal</i> , 2012, 761, 47.	4.5	59
80	THE ATACAMA COSMOLOGY TELESCOPE: HIGH-RESOLUTION SUNYAEV-ZEL'DOVICH ARRAY OBSERVATIONS OF ACT SIZE-SELECTED CLUSTERS FROM THE EQUATORIAL STRIP. <i>Astrophysical Journal</i> , 2012, 751, 12.	4.5	23
81	CLASH: MASS DISTRIBUTION IN AND AROUND MACS J1206.2-0847 FROM A FULL CLUSTER LENSING ANALYSIS. <i>Astrophysical Journal</i> , 2012, 755, 56.	4.5	101
82	JOINT ANALYSIS OF X-RAY AND SUNYAEV-ZEL'DOVICH OBSERVATIONS OF GALAXY CLUSTERS USING AN ANALYTIC MODEL OF THE INTRACLUSTER MEDIUM. <i>Astrophysical Journal</i> , 2012, 748, 113.	4.5	7
83	Discovery of the correspondence between intra-cluster radio emission and a high pressure region detected through the Sunyaev-Zel'dovich effect. <i>Astronomy and Astrophysics</i> , 2011, 534, L12.	5.1	22
84	SUNYAEV-ZEL'DOVICH EFFECT OBSERVATIONS OF STRONG LENSING GALAXY CLUSTERS: PROBING THE OVERCONCENTRATION PROBLEM. <i>Astrophysical Journal</i> , 2011, 737, 74.	4.5	36
85	COSMOLOGICAL CONSTRAINTS FROM A 31 GHz SKY SURVEY WITH THE SUNYAEV-ZEL'DOVICH ARRAY. <i>Astrophysical Journal</i> , 2011, 732, 28.	4.5	9
86	A NEW APPROACH TO OBTAINING CLUSTER MASS FROM SUNYAEV-ZEL'DOVICH EFFECT OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2011, 728, L35.	8.3	20
87	The effect of helium sedimentation on galaxy cluster masses and scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 533, A6.	5.1	13
88	MUSTANG HIGH ANGULAR RESOLUTION SUNYAEV-ZEL'DOVICH EFFECT IMAGING OF SUBSTRUCTURE IN FOUR GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2011, 734, 10.	4.5	103
89	A MEASUREMENT OF ARC-MINUTE ANISOTROPY IN THE COSMIC MICROWAVE BACKGROUND WITH THE SUNYAEV-ZEL'DOVICH ARRAY. <i>Astrophysical Journal</i> , 2010, 713, 82-89.	4.5	23
90	RADIO SOURCES FROM A 31 GHz SKY SURVEY WITH THE SUNYAEV-ZEL'DOVICH ARRAY. <i>Astrophysical Journal</i> , 2010, 716, 521-529.	4.5	18

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91	GALAXY CLUSTERS AT $z \approx 1$ : GAS CONSTRAINTS FROM THE SUNYAEV-ZEL'DOVICH ARRAY. Astrophysical Journal Letters, 2010, 723, L78-L83.	8.3	21
92	LoCuSS: A COMPARISON OF SUNYAEV-ZEL'DOVICH EFFECT AND GRAVITATIONAL-LENSING MEASUREMENTS OF GALAXY CLUSTERS. Astrophysical Journal, 2009, 701, L114-L118.	4.5	44
93	APPLICATION OF A SELF-SIMILAR PRESSURE PROFILE TO SUNYAEV-ZEL'DOVICH EFFECT DATA FROM GALAXY CLUSTERS. Astrophysical Journal, 2009, 694, 1034-1044.	4.5	72
94	Observations of High-Redshift X-Ray Selected Clusters with the Sunyaev-Zel'dovich Array. Astrophysical Journal, 2007, 663, 708-716.	4.5	78
95	Electron capture by $\text{Ne}^{2+}$ ions from atomic hydrogen. Physical Review A, 2003, 68, .	2.5	10