

# Michael D Niemack

## List of Publications by Year in descending order

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89  
papers

5,552  
citations

76196

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76769

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docs citations

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times ranked

3315  
citing authors

#	ARTICLE	IF	CITATIONS
1	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	1.6	79
2	The Atacama Cosmology Telescope: Modeling bulk atmospheric motion. <i>Physical Review D</i> , 2022, 105, .	1.6	9
3	The Atacama Cosmology Telescope: measurement and analysis of 1D beams for DR4. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 044.	1.9	4
4	The Atacama Cosmology Telescope: delensed power spectra and parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 031-031.	1.9	23
5	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zelâ€™dovich measurements. <i>Physical Review D</i> , 2021, 103, .	1.6	60
6	Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zelâ€™dovich measurements from BOSS CMASS and LOWZ halos. <i>Physical Review D</i> , 2021, 103, .	1.6	76
7	Strong detection of the CMB lensing and galaxy weak lensing cross-correlation from ACT-DR4, Planck Legacy, and KiDS-1000. <i>Astronomy and Astrophysics</i> , 2021, 649, A146.	2.1	26
8	The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 11.	3.0	19
9	In Situ Performance of the Low Frequency Array for Advanced ACTPol. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-4.	1.1	1
10	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.	2.1	8
11	The Simons Observatory Large Aperture Telescope Receiver. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 23.	3.0	11
12	Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. <i>Astrophysical Journal</i> , 2021, 923, 37.	1.6	20
13	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zelâ€™dovich effect. <i>Physical Review D</i> , 2020, 102, .	1.6	56
14	The cross correlation of the ABS and ACT maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 010-010.	1.9	2
15	Commercially Fabricated Antenna-Coupled Transition Edge Sensor Bolometer Detectors for Next-Generation Cosmic Microwave Background Polarimetry Experiment. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1158-1166.	0.6	6
16	Characterization of Transition Edge Sensors for the Simons Observatory. <i>Journal of Low Temperature Physics</i> , 2020, 199, 672-680.	0.6	6
17	Atacama Cosmology Telescope: Dusty Star-forming Galaxies and Active Galactic Nuclei in the Equatorial Survey. <i>Astrophysical Journal</i> , 2020, 893, 104.	1.6	16
18	The Atacama Cosmology Telescope: a measurement of the Cosmic Microwave Background power spectra at 98 and 150 GHz. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 045-045.	1.9	148

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19	The Atacama Cosmology Telescope: arcminute-resolution maps of 18 000 square degrees of the microwave sky from ACT 2008â€“2018 data combined with Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 046-046.	1.9	50
20	The Atacama Cosmology Telescope: DR4 maps and cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 047-047.	1.9	343
21	The Atacama Cosmology Telescope: a CMB lensing mass map over 2100 square degrees of sky and its cross-correlation with BOSS-CMASS galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2250-2263.	1.6	68
22	The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light. <i>Astrophysical Journal Letters</i> , 2020, 903, L13.	3.0	15
23	Quantifying the thermal Sunyaevâ€“Zelâ€™dovich effect and excess millimetre emission in quasar environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2315-2335.	1.6	16
24	Weak-lensing Mass Calibration of ACTPol Sunyaevâ€“Zelâ€™dovich Clusters with the Hyper Suprime-Cam Survey. <i>Astrophysical Journal</i> , 2019, 875, 63.	1.6	72
25	Visualizing probabilistic models and data with Intensive Principal Component Analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13762-13767.	3.3	9
26	Machine Learning, Markov Chain Monte Carlo, and Optimal Algorithms to Characterize the AdvACT Kilopixel Transition-Edge Sensor Arrays. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	0
27	The Atacama Cosmology Telescope: two-season ACTPol extragalactic point sources and their polarization properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5239-5262.	1.6	27
28	The Atacama Cosmology Telescope: The Two-season ACTPol Sunyaevâ€“Zelâ€™dovich Effect Selected Cluster Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 20.	3.0	121
29	Non-Gaussianity of secondary anisotropies from ACTPol and Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 022-022.	1.9	19
30	Optimizing measurements of cluster velocities and temperatures for CCAT-prime and future surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 032-032.	1.9	12
31	Results from the Atacama B-mode Search (ABS) experiment. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 005-005.	1.9	37
32	Advanced ACTPol TES Device Parameters and Noise Performance in Fielded Arrays. <i>Journal of Low Temperature Physics</i> , 2018, 193, 328-336.	0.6	9
33	The Simons Observatory: instrument overview. , 2018, , .		56
34	The Atacama Cosmology Telescope: two-season ACTPol spectra and parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	1.9	120
35	Optimization of Advanced ACTPol Transition Edge Sensor Bolometer Operation Using R(T,I) Transition Measurements. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-6.	1.1	0
36	Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum. <i>Physical Review D</i> , 2017, 95, .	1.6	104

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37	Cosmological parameters from pre-Planck CMB measurements: A 2017 update. <i>Physical Review D</i> , 2017, 95, .	1.6	33
38	The Atacama Cosmology Telescope: dynamical masses for 44 SZ-selected galaxy clusters over 755 square degrees. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 248-270.	1.6	38
39	Direct Ink Writing of Silicon Carbide for Microwave Optics. <i>Advanced Engineering Materials</i> , 2016, 18, 39-45.	1.6	58
40	Evidence for the kinematic Sunyaev-Zelâ€™dovich effect with the Atacama Cosmology Telescope and velocity reconstruction from the Baryon Oscillation Spectroscopic Survey. <i>Physical Review D</i> , 2016, 93, .	1.6	90
41	Characterization of AlMn TES impedance, noise, and optical efficiency in the first 150 mm multichroic array for Advanced ACTPol. , 2016, , .		2
42	The design and characterization of wideband spline-profiled feedhorns for Advanced ACTPol. <i>Proceedings of SPIE</i> , 2016, , .	0.8	14
43	BFORE: The B-mode Foreground Experiment. <i>Journal of Low Temperature Physics</i> , 2016, 184, 746-753.	0.6	5
44	AlMn Transition Edge Sensors for Advanced ACTPol. <i>Journal of Low Temperature Physics</i> , 2016, 184, 66-73.	0.6	35
45	Designs for a large-aperture telescope to map the CMB 10Å— faster. <i>Applied Optics</i> , 2016, 55, 1688.	2.1	24
46	Designs for a large-aperture telescope to map the CMB 10Å— faster. <i>Applied Optics</i> , 2016, 55, 1686.	2.1	5
47	Constraints on massive neutrinos from the pairwise kinematic Sunyaev-Zelâ€™dovich effect. <i>Physical Review D</i> , 2015, 92, .	1.6	45
48	First measurement of the cross-correlation of CMB lensing and galaxy lensing. <i>Physical Review D</i> , 2015, 91, .	1.6	60
49	SALT spectroscopic observations of galaxy clusters detected by ACT and a type II quasar hosted by a brightest cluster galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 4010-4026.	1.6	10
50	The Atacama Cosmology Telescope: measuring radio galaxy bias through cross-correlation with lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 849-858.	1.6	41
51	CONSTRAINTS ON GRAVITY AND DARK ENERGY FROM THE PAIRWISE KINEMATIC SUNYAEVâ€™ZELâ€™DOVICH EFFECT. <i>Astrophysical Journal</i> , 2015, 808, 47.	1.6	61
52	Evidence of Lensing of the Cosmic Microwave Background by Dark Matter Halos. <i>Physical Review Letters</i> , 2015, 114, 151302.	2.9	70
53	THE ATACAMA COSMOLOGY TELESCOPE: LENSING OF CMB TEMPERATURE AND POLARIZATION DERIVED FROM COSMIC INFRARED BACKGROUND CROSS-CORRELATION. <i>Astrophysical Journal</i> , 2015, 808, 7.	1.6	66
54	THE ATACAMA COSMOLOGY TELESCOPE: THE LABOCA/ACT SURVEY OF CLUSTERS AT ALL REDSHIFTS. <i>Astrophysical Journal</i> , 2015, 803, 79.	1.6	10

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55	A measurement of the millimetre emission and the Sunyaev-Zel'dovich effect associated with low-frequency radio sources. Monthly Notices of the Royal Astronomical Society, 2014, 445, 460-478.	1.6	35
56	Precision epoch of reionization studies with next-generation CMB experiments. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	1.9	83
57	The Atacama Cosmology Telescope: cross correlation with Planck maps. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 016-016.	1.9	27
58	The Atacama Cosmology Telescope: temperature and gravitational lensing power spectrum measurements from three seasons of data. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	1.9	194
59	The Atacama Cosmology Telescope: CMB polarization at 200 &lt;math>\mu\text{m}</math> and 9000. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.	1.9	121
60	Cosmological parameters from pre-planck cosmic microwave background measurements. Physical Review D, 2013, 87, .	1.6	65
61	The Atacama Cosmology Telescope: cosmological parameters from three seasons of data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 060-060.	1.9	215
62	The Atacama Cosmology Telescope: Sunyaev-Zel'dovich selected galaxy clusters at 148 GHz from three seasons of data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008.	1.9	378
63	Subaru weak lensing measurement of a $z = 0.81$ cluster discovered by the Atacama Cosmology Telescope Survey.... Monthly Notices of the Royal Astronomical Society, 2013, 429, 3627-3644.	1.6	19
64	The Atacama Cosmology Telescope: the stellar content of galaxy clusters selected using the Sunyaev-Zel'dovich effect. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3469-3480.	1.6	20
65	THE ATACAMA COSMOLOGY TELESCOPE: BEAM MEASUREMENTS AND THE MICROWAVE BRIGHTNESS TEMPERATURES OF URANUS AND SATURN. Astrophysical Journal, Supplement Series, 2013, 209, 17.	3.0	32
66	THE ATACAMA COSMOLOGY TELESCOPE: DYNAMICAL MASSES AND SCALING RELATIONS FOR A SAMPLE OF MASSIVE SUNYAEV-ZEL'DOVICH EFFECT SELECTED GALAXY CLUSTERS $\hat{M}$ , $\hat{M}$ . Astrophysical Journal, 2013, 772, 25.	1.6	97
67	THE ATACAMA COSMOLOGY TELESCOPE: RELATION BETWEEN GALAXY CLUSTER OPTICAL RICHNESS AND SUNYAEV-ZEL'DOVICH EFFECT. Astrophysical Journal, 2013, 767, 38.	1.6	40
68	THE ATACAMA COSMOLOGY TELESCOPE: PHYSICAL PROPERTIES OF SUNYAEV-ZEL'DOVICH EFFECT CLUSTERS ON THE CELESTIAL EQUATOR <sup>&gt;</sup> . Astrophysical Journal, 2013, 765, 67.	1.6	43
69	THE ATACAMA COSMOLOGY TELESCOPE: DATA CHARACTERIZATION AND MAPMAKING. Astrophysical Journal, 2013, 762, 10.	1.6	70
70	CMB Telescopes and Optical Systems. , 2013, , 431-480.		8
71	Evidence of Galaxy Cluster Motions with the Kinematic Sunyaev-Zel'dovich Effect. Physical Review Letters, 2012, 109, 041101.	2.9	185
72	The Atacama Cosmology Telescope: Cross-correlation of cosmic microwave background lensing and quasars. Physical Review D, 2012, 86, .	1.6	91

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73	Atacama Cosmology Telescope: A measurement of the thermal Sunyaev-Zel'dovich effect using the skewness of the CMB temperature distribution. <i>Physical Review D</i> , 2012, 86, .	1.6	34
74	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.	1.6	23
75	THE ATACAMA COSMOLOGY TELESCOPE: ACT-CL J0102+4915 – EL GORDO, A MASSIVE MERGING CLUSTER AT REDSHIFT 0.87. <i>Astrophysical Journal</i> , 2012, 748, 7.	1.6	158
76	THE ATACAMA COSMOLOGY TELESCOPE: A MEASUREMENT OF THE PRIMORDIAL POWER SPECTRUM. <i>Astrophysical Journal</i> , 2012, 749, 90.	1.6	97
77	CORRELATIONS IN THE (SUB)MILLIMETER BACKGROUND FROM ACT – BLAST. <i>Astrophysical Journal</i> , 2012, 744, 40.	1.6	27
78	An 84 Pixel All-Silicon Corrugated Feedhorn for CMB Measurements. <i>Journal of Low Temperature Physics</i> , 2012, 167, 522-527.	0.6	28
79	Evidence for Dark Energy from the Cosmic Microwave Background Alone Using the Atacama Cosmology Telescope Lensing Measurements. <i>Physical Review Letters</i> , 2011, 107, 021302.	2.9	118
80	Detection of the Power Spectrum of Cosmic Microwave Background Lensing by the Atacama Cosmology Telescope. <i>Physical Review Letters</i> , 2011, 107, 021301.	2.9	225
81	THE ATACAMA COSMOLOGY TELESCOPE: COSMOLOGY FROM GALAXY CLUSTERS DETECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT. <i>Astrophysical Journal</i> , 2011, 732, 44.	1.6	140
82	THE ATACAMA COSMOLOGY TELESCOPE: CALIBRATION WITH THE WILKINSON MICROWAVE ANISOTROPY PROBE USING CROSS-CORRELATIONS. <i>Astrophysical Journal</i> , 2011, 740, 86.	1.6	34
83	THE ATACAMA COSMOLOGY TELESCOPE: EXTRAGALACTIC SOURCES AT 148 GHz IN THE 2008 SURVEY. <i>Astrophysical Journal</i> , 2011, 731, 100.	1.6	75
84	THE ATACAMA COSMOLOGY TELESCOPE: DETECTION OF SUNYAEV-ZEL'DOVICH DECREMENT IN GROUPS AND CLUSTERS ASSOCIATED WITH LUMINOUS RED GALAXIES. <i>Astrophysical Journal</i> , 2011, 736, 39.	1.6	52
85	THE ATACAMA COSMOLOGY TELESCOPE: A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND POWER SPECTRUM AT 148 AND 218 GHz FROM THE 2008 SOUTHERN SURVEY. <i>Astrophysical Journal</i> , 2011, 729, 62.	1.6	144
86	THE ATACAMA COSMOLOGY TELESCOPE: SUNYAEV-ZEL'DOVICH-SELECTED GALAXY CLUSTERS AT 148 GHz IN THE 2008 SURVEY. <i>Astrophysical Journal</i> , 2011, 737, 61.	1.6	234
87	Corrugated silicon platelet feed horn array for CMB polarimetry at 150 GHz. <i>Proceedings of SPIE</i> , 2010, , .	0.8	19
88	THE ATACAMA COSMOLOGY TELESCOPE: PHYSICAL PROPERTIES AND PURITY OF A GALAXY CLUSTER SAMPLE SELECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT. <i>Astrophysical Journal</i> , 2010, 723, 1523-1541.	1.6	98
89	Measuring two-millimeter radiation with a prototype multiplexed TES receiver for ACT. , 2006, 6275, 80.		8