

# Alessandro Schillaci

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,443  
citations

567281

15  
h-index

454955

30  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1374  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Atacama Cosmology Telescope: DR4 maps and cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 047-047.	5.4	343
2	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.	5.4	148
3	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 006-006.	5.4	138
4	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
5	Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zel'dovich measurements from BOSS CMASS and LOWZ halos. <i>Physical Review D</i> , 2021, 103, .	4.7	76
6	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.	4.4	68
7	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zel'dovich measurements. <i>Physical Review D</i> , 2021, 103, .	4.7	60
8	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel'dovich effect. <i>Physical Review D</i> , 2020, 102, .	4.7	56
9	The Atacama Cosmology Telescope: arcminute-resolution maps of 18 000 square degrees of the microwave sky from ACT 2008-2018 data combined with Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 046-046.	5.4	50
10	Atacama Cosmology Telescope: Constraints on cosmic birefringence. <i>Physical Review D</i> , 2020, 101, .	4.7	50
11	BICEP Array: a multi-frequency degree-scale CMB polarimeter. , 2018, , .		46
12	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.	5.1	26
13	The Atacama Cosmology Telescope: delensed power spectra and parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 031-031.	5.4	23
14	Receiver development for BICEP Array, a next-generation CMB polarimeter at the South Pole. , 2020, , .		22
15	Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. <i>Astrophysical Journal</i> , 2021, 923, 37.	4.5	20
16	The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 11.	7.7	19
17	Efficient differential Fourier-transform spectrometer for precision Sunyaev-Zel'dovich effect measurements. <i>Astronomy and Astrophysics</i> , 2014, 565, A125.	5.1	17
18	Quantifying the thermal Sunyaev-Zel'dovich effect and excess millimetre emission in quasar environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2315-2335.	4.4	16

#	ARTICLE	IF	CITATIONS
19	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
20	The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light. Astrophysical Journal Letters, 2020, 903, L13.	8.3	15
21	The design and characterization of wideband spline-profiled feedhorns for Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	14
22	Readout of two-kilopixel transition-edge sensor arrays for Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	14
23	A high-resolution view of the filament of gas between AbellÂ399 and AbellÂ401 from the Atacama Cosmology Telescope and MUSTANG-2. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3335-3355.	4.4	14
24	2017 upgrade and performance of BICEP3: a 95GHz refracting telescope for degree-scale CMB polarization. , 2018, , .		13
25	Common-mode rejection in Martinâ€Puplett spectrometers for astronomical observations at millimeter wavelengths. Applied Optics, 2015, 54, 9269.	2.1	12
26	Optical modeling and polarization calibration for CMB measurements with ACTPol and Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	12
27	The Atacama Cosmology Telescope: A Search for Planet 9. Astrophysical Journal, 2021, 923, 224.	4.5	10
28	Atacama Cosmology Telescope measurements of a large sample of candidates from the Massive and Distant Clusters of WISE Survey. Astronomy and Astrophysics, 2021, 653, A135.	5.1	8
29	BICEP array cryostat and mount design. , 2018, , .		8
30	Design and performance of wide-band corrugated walls for the BICEP Array detector modules at 30/40 GHz. , 2018, , .		6
31	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
32	On the effect of tilted roof reflectors in Martinâ€Puplett spectrometers. Infrared Physics and Technology, 2012, 55, 40-44.	2.9	5
33	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
34	Far sidelobe effects from panel gaps of the Atacama Cosmology Telescope. , 2016, , .		4
35	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
36	Polarization calibration of the BICEP3 CMB polarimeter at the South Pole. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	The Atacama Cosmology Telescope: measurement and analysis of 1D beams for DR4. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 044.	5.4	4
38	Ultra-thin large-aperture vacuum windows for millimeter wavelengths receivers. , 2018, , .		3
39	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
40	Mechanical designs and development of TES bolometer detector arrays for the Advanced ACTPol experiment. Proceedings of SPIE, 2016, , .	0.8	2
41	Constraining Cosmic Microwave Background Temperature Evolution With Sunyaevâ€ŽZelâ€™Dovich Galaxy Clusters from the Atacama Cosmology Telescope. Astrophysical Journal, 2021, 922, 136.	4.5	2
42	Assembly and integration process of the first high density detector array for the Atacama Cosmology Telescope. Proceedings of SPIE, 2016, , .	0.8	1
43	Analysis of Temperature-to-Polarization Leakage in BICEP3 and Keck CMB Data from 2016 to 2018. , 2020, , .		1
44	Observing low elevation sky and the CMB Cold Spot with BICEP3 at the South Pole. , 2020, , .		1
45	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0
46	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0