Alessandro Schillaci

List of Publications by Year
in descending order

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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	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
2	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
3	The Atacama Cosmology Telescope: measurement and analysis of 1D beams for DR4. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 044.	5.4	4
4	The Atacama Cosmology Telescope: delensed power spectra and parameters. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 031-031.	5.4	23
5	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zelâ€™dovich measurements. Physical Review D, 2021, 103, .	4.7	60
6	Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zelâ€™dovich measurements from BOSS CMASS and LOWZ halos. Physical Review D, 2021, 103, .	4.7	76
7	Strong detection of the CMB lensing and galaxy weak lensing cross-correlation from ACT-DR4,PlanckLegacy, and KiDS-1000. Astronomy and Astrophysics, 2021, 649, A146.	5.1	26
8	The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access. Astrophysical Journal, Supplement Series, 2021, 255, 11.	7.7	19
9	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
10	Constraining Cosmic Microwave Background Temperature Evolution With Sunyaevâ€“Zelâ€™Dovich Galaxy Clusters from the Atacama Cosmology Telescope. Astrophysical Journal, 2021, 922, 136.	4.5	2
11	Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock. Astrophysical Journal, 2021, 923, 37.	4.5	20
12	The Atacama Cosmology Telescope: A Search for Planet 9. Astrophysical Journal, 2021, 923, 224.	4.5	10
13	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zelâ€™dovich effect. Physical Review D, 2020, 102, .	4.7	56
14	The Atacama Cosmology Telescope: a measurement of the Cosmic Microwave Background power spectra at 98 and 150 GHz. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	148
15	The Atacama Cosmology Telescope: arcminute-resolution maps of 18 000 square degrees of the microwave sky from ACT 2008â€“2018 data combined with Planck. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 046-046.	5.4	50
16	The Atacama Cosmology Telescope: DR4 maps and cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 047-047.	5.4	343
17	The Atacama Cosmology Telescope: a CMB lensing mass map over 2100 square degrees of sky and its cross-correlation with BOSS-CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2250-2263.	4.4	68
18	Atacama Cosmology Telescope: Constraints on cosmic birefringence. Physical Review D, 2020, 101, .	4.7	50

#	Article	IF	Citations
19	Receiver development for BICEP Array, a next-generation CMB polarimeter at the South Pole. , 2020, , .		22
20	Polarization calibration of the BICEP3 CMB polarimeter at the South Pole. , 2020, , .		4
21	The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light. Astrophysical Journal Letters, 2020, 903, L13.	8.3	15
22	Analysis of Temperature-to-Polarization Leakage in BICEP3 and Keck CMB Data from 2016 to 2018. , 2020, , .		1
23	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0
24	Observing low elevation sky and the CMB Cold Spot with BICEP3 at the South Pole. , 2020, , .		1
25	Quantifying the thermal Sunyaevâ€“Zelâ€™dovich effect and excess millimetre emission in quasar environments. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2315-2335.	4.4	16
26	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
27	BICEP Array: a multi-frequency degree-scale CMB polarimeter. , 2018, , .		46
28	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
29	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
30	Ultra-thin large-aperture vacuum windows for millimeter wavelengths receivers. , 2018, , .		3
31	BICEP array cryostat and mount design. , 2018, , .		8
32	Design and performance of wide-band corrugated walls for the BICEP Array detector modules at 30/40 GHz. , 2018, , .		6
33	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
34	2017 upgrade and performance of BICEP3: a 95GHz refracting telescope for degree-scale CMB polarization. , 2018, , .		13
35	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0
36	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3

#	Article	IF	Citations
37	Mechanical designs and development of TES bolometer detector arrays for the Advanced ACTPol experiment. Proceedings of SPIE, 2016, , .	0.8	2
38	Optical modeling and polarization calibration for CMB measurements with ACTPol and Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	12
39	Assembly and integration process of the first high density detector array for the Atacama Cosmology Telescope. Proceedings of SPIE, 2016, , .	0.8	1
40	The design and characterization of wideband spline-profiled feedhorns for Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	14
41	Far sidelobe effects from panel gaps of the Atacama Cosmology Telescope. , 2016, , .		4
42	Readout of two-kilopixel transition-edge sensor arrays for Advanced ACTPol. Proceedings of SPIE, 2016, , .	0.8	14
43	Common-mode rejection in Martinâ€“Puplett spectrometers for astronomical observations at millimeter wavelengths. Applied Optics, 2015, 54, 9269.	2.1	12
44	Efficient differential Fourier-transform spectrometer for precision Sunyaev-Zelâ€™dovich effect measurements. Astronomy and Astrophysics, 2014, 565, A125.	5.1	17
45	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
46	On the effect of tilted roof reflectors in Martinâ€“Puplett spectrometers. Infrared Physics and Technology, 2012, 55, 40-44.	2.9	5