Rahul Datta

List of Publications by Year
in descending order

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38	2,039	361413 20	361022 35
papers	citations	h-index	g-index

38	38	38	1948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Atacama Cosmology Telescope: DR4 maps and cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 047-047.	5.4	343
2	Advanced ACTPol Cryogenic Detector Arrays and Readout. Journal of Low Temperature Physics, 2016, 184, 772-779.	1.4	240
3	THE ATACAMA COSMOLOGY TELESCOPE: THE POLARIZATION-SENSITIVE ACTPol INSTRUMENT. Astrophysical Journal, Supplement Series, 2016, 227, 21.	7.7	164
4	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
5	The Atacama Cosmology Telescope: CMB polarization at 200 < â„“ < 9000. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.	5.4	121
6	The Atacama Cosmology Telescope: The Two-season ACTPol Sunyaevâ€“Zelâ€™dovich Effect Selected Cluster Catalog. Astrophysical Journal, Supplement Series, 2018, 235, 20.	7.7	121
7	The Atacama Cosmology Telescope: two-season ACTPol spectra and parameters. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 031-031.	5.4	120
8	Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum. Physical Review D, 2017, 95, .	4.7	104
9	Large-aperture wide-bandwidth antireflection-coated silicon lenses for millimeter wavelengths. Applied Optics, 2013, 52, 8747.	1.8	81
10	Evidence of Lensing of the Cosmic Microwave Background by Dark Matter Halos. Physical Review Letters, 2015, 114, 151302.	7.8	70
11	THE ATACAMA COSMOLOGY TELESCOPE: LENSING OF CMB TEMPERATURE AND POLARIZATION DERIVED FROM COSMIC INFRARED BACKGROUND CROSS-CORRELATION. Astrophysical Journal, 2015, 808, 7.	4.5	66
12	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zelâ€™dovich effect. Physical Review D, 2020, 102, .	4.7	56
13	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
14	Advanced ACTPol Multichroic Polarimeter Array Fabrication Process for 150 mm Wafers. Journal of Low Temperature Physics, 2016, 184, 634-641.	1.4	32
15	Characterization of the Mid-Frequency Arrays for Advanced ACTPol. Journal of Low Temperature Physics, 2018, 193, 267-275.	1.4	29
16	The Atacama Cosmology Telescope: two-season ACTPol extragalactic point sources and their polarization properties. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5239-5262.	4.4	27
17	Multi-chroic Feed-Horn Coupled TES Polarimeters. Journal of Low Temperature Physics, 2012, 167, 879-884.	1.4	25
18	Horn Coupled Multichroic Polarimeters for the Atacama Cosmology Telescope Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 670.	1.4	25

#	Article	IF	Citations
19	The CLASS 150/220ÂGHz Polarimeter Array: Design, Assembly, and Characterization. Journal of Low Temperature Physics, 2020, 199, 289-297.	1.4	23
20	Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: 40 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance. Astrophysical Journal, 2020, 891, 134.	4.5	22
21	Four-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: On-sky Receiver Performance at 40, 90, 150, and 220 GHz Frequency Bands. Astrophysical Journal, 2022, 926, 33.	4.5	19
22	ACTPol: on-sky performance and characterization. Proceedings of SPIE, 2014, , .	0.8	16
23	Design and Deployment of a Multichroic Polarimeter Array on the Atacama Cosmology Telescope. Journal of Low Temperature Physics, 2016, 184, 568-575.	1.4	16
24	Atacama Cosmology Telescope: Dusty Star-forming Galaxies and Active Galactic Nuclei in the Equatorial Survey. Astrophysical Journal, 2020, 893, 104.	4.5	16
25	MUSTANG2: a large focal plan array for the 100 meter Green Bank Telescope. Proceedings of SPIE, 2014, , .	0.8	15
26	Development of a Microwave SQUID-Multiplexed TES Array for MUSTANG-2. Journal of Low Temperature Physics, 2016, 184, 460-465.	1.4	15
27	Antireflection coatings for submillimeter silicon lenses. Proceedings of SPIE, 2014, , .	0.8	11
28	Highly uniform 150 mm diameter multichroic polarimeter array deployed for CMB detection. Proceedings of SPIE, 2016, , .	0.8	11
29	The First Multichroic Polarimeter Array on the Atacama Cosmology Telescope: Characterization and Performance. Journal of Low Temperature Physics, 2016, 184, 559-567.	1.4	9
30	The primordial inflation polarization explorer (PIPER): current status and performance of the first flight (Conference Presentation). , 2018, , .		9
31	Two Year Cosmology Large Angular Scale Surveyor (CLASS) Observations: Long Timescale Stability Achieved with a Front-end Variable-delay Polarization Modulator at 40 GHz. Astrophysical Journal, 2021, 922, 212.	4.5	8
32	Sub-Kelvin cooling for two kilopixel bolometer arrays in the PIPER receiver. Review of Scientific Instruments, 2019, 90, 095104.	1.3	7
33	Polarization sensitive Multi-Chroic MKIDs. , 2016, , .		6
34	Venus Observations at 40 and 90 GHz with CLASS. Planetary Science Journal, 2021, 2, 71.	3.6	5
35	Can CMB Surveys Help the AGN Community?. Galaxies, 2017, 5, 47.	3.0	3
36	Confirming the Calibration of ALMA Using Planck Observations. Astrophysical Journal, Supplement Series, 2021, 256, 19.	7.7	3

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37	Characterization of AlMn TES impedance, noise, and optical efficiency in the first 150 mm multichroic array for Advanced ACTPol. , 2016, , .		2
38	Anti-reflection coated vacuum window for the Primordial Inflation Polarization ExploreR (PIPER) balloon-borne instrument. Review of Scientific Instruments, 2021, 92, 035111.	1.3	1