

# Alessandro Coppolecchia

## List of Publications by Year in descending order

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64  
papers

1,021  
citations

471509

17  
h-index

477307

29  
g-index

65  
all docs

65  
docs citations

65  
times ranked

844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
2	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	75
3	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	73
4	CALDER: neutrinoless double-beta decay identification in TeO <sub>2</sub> bolometers with kinetic inductance detectors. European Physical Journal C, 2015, 75, 353.	3.9	57
5	QUBIC: The QU bolometric interferometer for cosmology. Astroparticle Physics, 2011, 34, 705-716.	4.3	47
6	Exploring cosmic origins with CORE: <i>B</i> -mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
7	The Large-Scale Polarization Explorer (LSPE). Proceedings of SPIE, 2012, , .	0.8	38
8	Energy resolution and efficiency of phonon-mediated kinetic inductance detectors for light detection. Applied Physics Letters, 2015, 107, .	3.3	37
9	SWIPE: a bolometric polarimeter for the Large-Scale Polarization Explorer. Proceedings of SPIE, 2012, , .	0.8	32
10	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
11	The large scale polarization explorer (LSPE) for CMB measurements: performance forecast. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 008.	5.4	27
12	Exploring cosmic origins with CORE: The instrument. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 015-015.	5.4	25
13	Kinetic inductance detectors for the OLIMPO experiment: design and pre-flight characterization. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 039-039.	5.4	24
14	Kinetic Inductance Detectors for the OLIMPO experiment: in-flight operation and performance. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 003-003.	5.4	23
15	Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	20
16	QUBIC I: Overview and science program. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 034.	5.4	20
17	Exploring cosmic origins with CORE: Effects of observer peculiar motion. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 021-021.	5.4	18
18	Ultra high molecular weight polyethylene: Optical features at millimeter wavelengths. Infrared Physics and Technology, 2018, 90, 59-65.	2.9	17

#	ARTICLE	IF	CITATIONS
19	Exploring cosmic origins with CORE: Cluster science. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	17
20	Development of Lumped Element Kinetic Inductance Detectors for the W-Band. Journal of Low Temperature Physics, 2016, 184, 97-102.	1.4	16
21	Progress Report on the Large-Scale Polarization Explorer. Journal of Low Temperature Physics, 2020, 200, 374-383.	1.4	16
22	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
23	Exploring cosmic origins with CORE: Mitigation of systematic effects. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 022-022.	5.4	14
24	The short wavelength instrument for the polarization explorer balloon-borne experiment: Polarization modulation issues. Astronomische Nachrichten, 2019, 340, 83-88.	1.2	14
25	In-Flight Performance of the LEKIDs of the OLIMPO Experiment. Journal of Low Temperature Physics, 2020, 199, 491-501.	1.4	14
26	Characterization of the KID-Based Light Detectors of CALDER. Journal of Low Temperature Physics, 2016, 184, 142-147.	1.4	13
27	Kinetic Inductance Detectors and readout electronics for the OLIMPO experiment. Journal of Physics: Conference Series, 2019, 1182, 012005.	0.4	12
28	Design and Fabrication of the KID-Based Light Detectors of CALDER. Journal of Low Temperature Physics, 2016, 184, 131-136.	1.4	11
29	SWIPE Multi-mode Pixel Assembly Design and Beam Pattern Measurements at Cryogenic Temperature. Journal of Low Temperature Physics, 2020, 199, 312-319.	1.4	11
30	QUBIC IV: Performance of TES bolometers and readout electronics. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 037.	5.4	10
31	QUBIC: A Fizeau Interferometer Targeting Primordial B-Modes. Journal of Low Temperature Physics, 2016, 184, 739-745.	1.4	9
32	Fabrication of the CALDER light detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 177-178.	1.6	9
33	QUBIC VIII: Optical design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 041.	5.4	9
34	QUBIC II: Spectral polarimetry with bolometric interferometry. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 035.	5.4	9
35	QUBIC: The Q & U Bolometric Interferometer for Cosmology. Journal of Low Temperature Physics, 2020, 199, 482-490.	1.4	8
36	QUBIC V: Cryogenic system design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 038.	5.4	8

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37	QUBIC VI: Cryogenic half wave plate rotator, design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 039.	5.4	8
38	Cryogenic Wide-Area Light Detectors for Neutrino and Dark Matter Searches. Journal of Low Temperature Physics, 2014, 176, 917-923.	1.4	7
39	New application of superconductors: High sensitivity cryogenic light detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 338-341.	1.6	7
40	Balloon-borne Cosmic Microwave Background experiments. EPJ Web of Conferences, 2019, 209, 01046.	0.3	7
41	W-band Lumped Element Kinetic Inductance Detector Array for Large Ground-Based Telescopes. Journal of Low Temperature Physics, 2020, 199, 130-137.	1.4	6
42	TES Bolometer Arrays for the QUBIC B-Mode CMB Experiment. Journal of Low Temperature Physics, 2020, 199, 955-961.	1.4	6
43	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
44	QUBIC VII: The feedhorn-switch system of the technological demonstrator. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 040.	5.4	6
45	Phonon-Mediated KIDs as Light Detectors for Rare-Event Search: The CALDER Project. Journal of Low Temperature Physics, 2016, 184, 859-865.	1.4	5
46	The first flight of the OLIMPO experiment: instrument performance. Journal of Physics: Conference Series, 2020, 1548, 012018.	0.4	5
47	A chemically etched corrugated feedhorn array for D-band CMB observations. Experimental Astronomy, 2021, 51, 249-272.	3.7	5
48	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
49	Design and Electrical Performance of the Kinetic Inductance Detectors of the OLIMPO Experiment. , 2017, , .		4
50	The long duration cryogenic system of the OLIMPO balloon-borne experiment: Design and in-flight performance. Cryogenics, 2020, 110, 103129.	1.7	4
51	QUBIC: Using NbSi TESs with a Bolometric Interferometer to Characterize the Polarization of the CMB. Journal of Low Temperature Physics, 2020, 200, 363-373.	1.4	4
52	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
53	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
54	Latest Progress on the QUBIC Instrument. Journal of Low Temperature Physics, 2013, 176, 698.	1.4	2

#	ARTICLE	IF	CITATIONS
55	The QUBIC instrument for CMB polarization measurements. Journal of Physics: Conference Series, 2020, 1548, 012016.	0.4	2
56	Millimetric Sardinia radio Telescope Receiver based on Array of Lumped elements kids. EPJ Web of Conferences, 2022, 257, 00012.	0.3	2
57	Total power horn-coupled 150 GHz LEKID array for space applications. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 009.	5.4	2
58	CALDER - Neutrinoless double-beta decay identification in TeO <sub>2</sub> bolometers with kinetic inductance detectors. Journal of Physics: Conference Series, 2016, 718, 062065.	0.4	1
59	First results and perspectives of CALDER. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 156-158.	1.6	1
60	Progress in Precision Measurements of the Cosmic Microwave Background. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 15-20.	0.4	0
61	Optical design and modelling of the QUBIC instrument, a next-generation quasi-optical bolometric interferometer for cosmology. Proceedings of SPIE, 2016, , .	0.8	0
62	CALDER: Cryogenic light detectors for background-free searches. AIP Conference Proceedings, 2015, , .	0.4	0
63	MoBiKID - Kinetic Inductance Detectors for Upcoming B-Mode Satellite Missions. Springer Proceedings in Physics, 2018, , 35-38.	0.2	0
64	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0