

Angelo Cruciani

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,451
citations

279798

23
h-index

330143

37
g-index

82
all docs

82
docs citations

82
times ranked

1152
citing authors

#	ARTICLE	IF	CITATIONS
1	Operating in a deep underground facility improves the locking of gradiometric fluxonium qubits at the sweet spots. Applied Physics Letters, 2022, 120, .	3.3	9
2	Millimetric Sardinia radio Telescope Receiver based on Array of Lumped elements kids. EPJ Web of Conferences, 2022, 257, 00012.	0.3	2
3	Total power horn-coupled 150 GHz LEKID array for space applications. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 009.	5.4	2
4	Characterization of cubic $\text{Li}_{1-x}\text{MoO}_4$ crystals for the CUPID experiment. European Physical Journal C, 2021, 81, 1.	3.9	21
5	Reducing the impact of radioactivity on quantum circuits in a deep-underground facility. Nature Communications, 2021, 12, 2733.	12.8	65
6	Final results of CALDER: kinetic inductance light detectors to search for rare events. European Physical Journal C, 2021, 81, 1.	3.9	5
7	Novel technique for the study of pileup events in cryogenic bolometers. Physical Review C, 2021, 104, .	2.9	16
8	Background identification in cryogenic calorimeters through α - α delayed coincidences. European Physical Journal C, 2021, 81, 722.	3.9	7
9	Measurement of ^{216}Po half-life with the CUPID-0 experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136642.	4.1	5
10	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0
11	CUPID-0: A double-readout cryogenic detector for Double Beta Decay search. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162441.	1.6	1
12	DEMETRA: Suppression of the Relaxation Induced by Radioactivity in Superconducting Qubits. Journal of Low Temperature Physics, 2020, 199, 475-481.	1.4	4
13	Search for neutrinoless double beta decay of ^{64}Zn and ^{70}Zn with CUPID-0. European Physical Journal C, 2020, 80, 1.	3.9	12
14	Final results of the CUPID-0 Phase I experiment. Journal of Physics: Conference Series, 2020, 1468, 012205.	0.4	1
15	Cryogenic Light Detectors for Background Suppression: The CALDER Project. Journal of Low Temperature Physics, 2020, 200, 206-212.	1.4	3
16	BULLKID: BULky and Low-Threshold Kinetic Inductance Detectors. Journal of Low Temperature Physics, 2020, 199, 593-597.	1.4	9
17	Pulse Response of a Kinetic Inductance Detector in the Nonlinear Regime. Journal of Low Temperature Physics, 2020, 199, 639-645.	1.4	2
18	Results on ^{82}Se with CUPID-0 Phase I. Journal of Physics: Conference Series, 2020, 1643, 012025.	0.4	1

#	ARTICLE	IF	CITATIONS
19	CUPID-0, challenges and achievements in the struggle of 0-background double-beta decay experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 519-522.	1.6	3
20	Background model of the CUPID-0 experiment. European Physical Journal C, 2019, 79, 1.	3.9	45
21	Final Result of CUPID-0 Phase-I in the Search for the $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ Neutrinoless Double- $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ Decay of $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$	7.8	68
22	Phonon and light read out of a $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Li} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ crystal with multiplexed kinetic inductance detectors. European Physical Journal C, 2019, 79, 1.	3.9	11
23	High-TC Superconducting Kinetic Inductance Detectors for Terahertz Imaging. , 2019, , .		0
24	First search for Lorentz violation in double beta decay with scintillating calorimeters. Physical Review D, 2019, 100, .	4.7	24
25	Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31. Astrophysical Journal Letters, 2019, 877, L31.	8.3	17
26	Measurements and Simulations of Athermal Phonon Transmission from Silicon Absorbers to Aluminum Sensors. Physical Review Applied, 2019, 11, .	3.8	19
27	Result on the Neutrinoless Double Beta Decay Search of $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ 82Se with the CUPID-0 Experiment. Universe, 2019, 5, 2.	2.5	0
28	Evidence of Single State Dominance in the Two-Neutrino Double- $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ Decay of $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$	4.4	44
29	Thermal kinetic inductance detectors for soft X-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 197-198.	1.6	2
30	Status of the CALDER project: Cryogenic light detectors for background suppression. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 166-168.	1.6	0
31	Design and Fabrication of the Second-Generation KID-Based Light Detectors of CALDER. Journal of Low Temperature Physics, 2018, 193, 726-731.	1.4	5
32	Search of the neutrino-less double beta decay of $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ 82 Se into the excited states of $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$.	3.9	26
33	Analysis of cryogenic calorimeters with light and heat read-out for double beta decay searches. European Physical Journal C, 2018, 78, 734.	3.9	36
34	$\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ decay: the CUPID-0 experiment. Journal of Physics: Conference Series, 2018, 1056, 012044.	0.4	1
35	Development of Thermal Kinetic Inductance Detectors Suitable for X-ray Spectroscopy. Journal of Low Temperature Physics, 2018, 193, 163-169.	1.4	5
36	CUPID-0: the first array of enriched scintillating bolometers for 0 $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ $\langle \text{mml:mrow} \langle \text{mml:mmultiscripts} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mprescripts} \rangle \rangle \rangle \rangle$ decay investigations. European Physical Journal C, 2018, 78, 428.	3.9	56

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37	CALDER: Cryogenic light detectors for background-free searches. AIP Conference Proceedings, 2018, , .	0.4	0
38	CALDER: The Second-Generation Light Detectors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-3.	1.7	1
39	Al/Ti/Al phonon-mediated KIDs for UV-vis light detection over large areas. Superconductor Science and Technology, 2018, 31, 075002.	3.5	24
40	First Result on the Neutrinoless Double- $\langle\text{mml:math display="inline">< mml:mrow>< mml:mi>I^2</mml:mi></mml:mrow></mml:math>$ Decay of $\langle\text{mml:math display="inline">< mml:mrow>< mml:mmultiscripts>< mml:mrow>< mml:mi>Se</mml:mi></mml:mrow>< mml:mprescripts </mml:none$	7.8	89
41	CUPID-0: A Cryogenic Calorimeter with Particle Identification for Double Beta Decay Search. Springer Proceedings in Physics, 2018, , 183-186.	0.2	0
42	MoBiKID - Kinetic Inductance Detectors for Upcoming B-Mode Satellite Missions. Springer Proceedings in Physics, 2018, , 35-38.	0.2	0
43	Scintillating bolometric technique for the neutrino-less double beta decay search: The LUCIFER/CUPID-0 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 342-346.	1.6	5
44	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
45	Phonon-Mediated KIDs as Light Detectors for Rare Event Search: The CALDER Project. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
46	High sensitivity phonon-mediated kinetic inductance detector with combined amplitude and phase read-out. Applied Physics Letters, 2017, 110, .	3.3	33
47	Readout Electronics for the Kinetic Inductance Detectors of CALDER. , 2017, , .		0
48	The LUCIFER/CUPID-0 demonstrator: searching for the neutrinoless double-beta decay with Zn^{82}Se scintillating bolometers. Journal of Physics: Conference Series, 2017, 888, 012077.	0.4	3
49	CALDER - Neutrinoless double-beta decay identification in TeO_2 bolometers with kinetic inductance detectors. Journal of Physics: Conference Series, 2016, 718, 062065.	0.4	1
50	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
51	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
52	First array of enriched Zn^{82}Se bolometers to search for double beta decay. European Physical Journal C, 2016, 76, 364.	3.9	62
53	Design and Fabrication of the KID-Based Light Detectors of CALDER. Journal of Low Temperature Physics, 2016, 184, 131-136.	1.4	11
54	Detailed study of the microwave emission of the supernova remnant 3C 396. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4224-4232.	4.4	14

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55	Characterization of the KID-Based Light Detectors of CALDER. Journal of Low Temperature Physics, 2016, 184, 142-147.	1.4	13
56	Multi-mode TES Bolometer Optimization for the LSPE-SWIPE Instrument. Journal of Low Temperature Physics, 2016, 184, 527-533.	1.4	17
57	Development of Lumped Element Kinetic Inductance Detectors for the W-Band. Journal of Low Temperature Physics, 2016, 184, 97-102.	1.4	16
58	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
59	Energy resolution and efficiency of phonon-mediated kinetic inductance detectors for light detection. Applied Physics Letters, 2015, 107, .	3.3	37
60	Pressure distribution of the high-redshift cluster of galaxies CL J1226.9+3332 with NIKA. Astronomy and Astrophysics, 2015, 576, A12.	5.1	48
61	CALDER: neutrinoless double-beta decay identification in TeO ₂ bolometers with kinetic inductance detectors. European Physical Journal C, 2015, 75, 353.	3.9	57
62	NEW RADIO OBSERVATIONS OF ANOMALOUS MICROWAVE EMISSION IN THE H II REGION RCW175. Astrophysical Journal, 2015, 801, 111.	4.5	23
63	CALDER: Cryogenic light detectors for background-free searches. AIP Conference Proceedings, 2015, , .	0.4	0
64	Cryogenic Wide-Area Light Detectors for Neutrino and Dark Matter Searches. Journal of Low Temperature Physics, 2014, 176, 917-923.	1.4	7
65	Improved mm-wave photometry for kinetic inductance detectors. Astronomy and Astrophysics, 2013, 551, L12.	5.1	31
66	The NIKA 2011 run: results and perspectives towards a permanent camera for the Pico Veleta observatory. , 2012, , .		4
67	SWIPE: a bolometric polarimeter for the Large-Scale Polarization Explorer. Proceedings of SPIE, 2012, , .	0.8	32
68	The Large-Scale Polarization Explorer (LSPE). Proceedings of SPIE, 2012, , .	0.8	38
69	The NÅ©el IRAM KID Arrays (NIKA). Journal of Low Temperature Physics, 2012, 167, 834-839.	1.4	7
70	QUBIC: the Q&U Bolometric Interferometer for Cosmology. Journal of Low Temperature Physics, 2012, 167, 872-878.	1.4	15
71	X-Ray Imaging Using LEKIDs. Journal of Low Temperature Physics, 2012, 167, 311-317.	1.4	10
72	LEKIDs Developments for mm-Wave Astronomy. Journal of Low Temperature Physics, 2012, 167, 379-385.	1.4	1

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73	Intensity and polarization of the atmospheric emission at millimetric wavelengths at Dome Concordia. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1293-1299.	4.4	12
74	Progress in Precision Measurements of the Cosmic Microwave Background. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 15-20.	0.4	0
75	QUBIC: The QU bolometric interferometer for cosmology. Astroparticle Physics, 2011, 34, 705-716.	4.3	47
76	A DUAL-BAND MILLIMETER-WAVE KINETIC INDUCTANCE CAMERA FOR THE IRAM 30 m TELESCOPE. Astrophysical Journal, Supplement Series, 2011, 194, 24.	7.7	122
77	Electronics and data acquisition demonstrator for a kinetic inductance camera. Journal of Instrumentation, 2011, 6, P06012-P06012.	1.2	36
78	Development of KIDs detectors for large submillimetric telescopes. EAS Publications Series, 2010, 40, 443-448.	0.3	1
79	Design and optimization of Microwave Kinetic Inductance Detectors. , 2010, , .		0
80	Characterization of lumped element kinetic inductance detectors for mm-wave detection. Proceedings of SPIE, 2010, , .	0.8	6
81	High-speed phonon imaging using frequency-multiplexed kinetic inductance detectors. Applied Physics Letters, 2010, 96, .	3.3	78