

# 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	A DUAL-BAND MILLIMETER-WAVE KINETIC INDUCTANCE CAMERA FOR THE IRAM 30 m TELESCOPE. <i>Astrophysical Journal, Supplement Series</i> , 2011, 194, 24. First Result on the Neutrinoless Double- $\beta\beta$ Decay of $^{82}\text{Se}$ . <i>Applied Physics Letters</i> , 2010, 96, 061001.	7.7	122
2	High-speed phonon imaging using frequency-multiplexed kinetic inductance detectors. <i>Applied Physics Letters</i> , 2010, 96, 061001.	7.8	89
3	Final Result of CUPID-0 Phase-I in the Search for the Neutrinoless Double- $\beta\beta$ Decay of $^{82}\text{Se}$ . <i>Applied Physics Letters</i> , 2010, 96, 061001.	3.3	78
4	Reducing the impact of radioactivity on quantum circuits in a deep-underground facility. <i>Nature Communications</i> , 2021, 12, 2733.	7.8	68
5	First array of enriched $^{82}\text{Zn}$ $^{82}\text{Se}$ bolometers to search for double beta decay. <i>European Physical Journal C</i> , 2016, 76, 364.	3.9	62
6	CALDER: neutrinoless double-beta decay identification in $\text{TeO}_2$ bolometers with kinetic inductance detectors. <i>European Physical Journal C</i> , 2015, 75, 353.	3.9	57
7	CUPID-0: the first array of enriched scintillating bolometers for $0\nu\bar{\nu}\beta\beta$ decay investigations. <i>European Physical Journal C</i> , 2018, 78, 428.	3.9	56
8	Pressure distribution of the high-redshift cluster of galaxies CL J1226.9+3332 with NIKA. <i>Astronomy and Astrophysics</i> , 2015, 576, A12.	5.1	48
9	QUBIC: The QU bolometric interferometer for cosmology. <i>Astroparticle Physics</i> , 2011, 34, 705-716.	4.3	47
10	Background model of the CUPID-0 experiment. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	45
11	Evidence of Single State Dominance in the Two-Neutrino Double- $\beta\beta$ Decay of $^{82}\text{Se}$ . <i>Applied Physics Letters</i> , 2010, 96, 061001.	3.9	44
12	The Large-Scale Polarization Explorer (LSPE). <i>Proceedings of SPIE</i> , 2012, , .	0.8	38
13	Energy resolution and efficiency of phonon-mediated kinetic inductance detectors for light detection. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	37
14	Electronics and data acquisition demonstrator for a kinetic inductance camera. <i>Journal of Instrumentation</i> , 2011, 6, P06012-P06012.	1.2	36
15	Analysis of cryogenic calorimeters with light and heat read-out for double beta decay searches. <i>European Physical Journal C</i> , 2018, 78, 734.	3.9	36
16	High sensitivity phonon-mediated kinetic inductance detector with combined amplitude and phase read-out. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	33
17	SWIPE: a bolometric polarimeter for the Large-Scale Polarization Explorer. <i>Proceedings of SPIE</i> , 2012, , .	0.8	32

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19	Improved mm-wave photometry for kinetic inductance detectors. <i>Astronomy and Astrophysics</i> , 2013, 551, L12.	5.1	31
20	Search of the neutrino-less double beta decay of $^{82}\text{Se}$ into the excited states of $^{82}\text{Se}$ . <i>European Physical Journal C</i> , 2018, 78, 888.	3.9	26
21	Al/Ti/Al phonon-mediated KIDs for UV-vis light detection over large areas. <i>Superconductor Science and Technology</i> , 2018, 31, 075002.	3.5	24
22	First search for Lorentz violation in double beta decay with scintillating calorimeters. <i>Physical Review D</i> , 2019, 100, .	4.7	24
23	NEW RADIO OBSERVATIONS OF ANOMALOUS MICROWAVE EMISSION IN THE H II REGION RCW175. <i>Astrophysical Journal</i> , 2015, 801, 111.	4.5	23
24	Characterization of cubic $\text{Li}_2\text{MoO}_4$ crystals for the CUPID experiment. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	21
25	Measurements and Simulations of Athermal Phonon Transmission from Silicon Absorbers to Aluminum Sensors. <i>Physical Review Applied</i> , 2019, 11, .	3.8	19
26	Multi-mode TES Bolometer Optimization for the LSPE-SWIPE Instrument. <i>Journal of Low Temperature Physics</i> , 2016, 184, 527-533.	1.4	17
27	Strong Evidence of Anomalous Microwave Emission from the Flux Density Spectrum of M31. <i>Astrophysical Journal Letters</i> , 2019, 877, L31.	8.3	17
28	Development of Lumped Element Kinetic Inductance Detectors for the W-Band. <i>Journal of Low Temperature Physics</i> , 2016, 184, 97-102.	1.4	16
29	Novel technique for the study of pileup events in cryogenic bolometers. <i>Physical Review C</i> , 2021, 104, .	2.9	16
30	QUBIC: the Q&U Bolometric Interferometer for Cosmology. <i>Journal of Low Temperature Physics</i> , 2012, 167, 872-878.	1.4	15
31	Detailed study of the microwave emission of the supernova remnant 3C 396. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4224-4232.	4.4	14
32	Characterization of the KID-Based Light Detectors of CALDER. <i>Journal of Low Temperature Physics</i> , 2016, 184, 142-147.	1.4	13
33	Intensity and polarization of the atmospheric emission at millimetric wavelengths at Dome Concordia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1293-1299.	4.4	12
34	Search for neutrinoless double beta decay of $^{64}\text{Zn}$ and $^{70}\text{Zn}$ with CUPID-0. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
35	Design and Fabrication of the KID-Based Light Detectors of CALDER. <i>Journal of Low Temperature Physics</i> , 2016, 184, 131-136.	1.4	11
36	Phonon and light read out of a $\text{Li}_2\text{MoO}_4$ crystal with multiplexed kinetic inductance detectors. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	11

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37	X-Ray Imaging Using LEKIDs. <i>Journal of Low Temperature Physics</i> , 2012, 167, 311-317.	1.4	10
38	Fabrication of the CALDER light detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 824, 177-178.	1.6	9
39	BULLKID: BULky and Low-Threshold Kinetic Inductance Detectors. <i>Journal of Low Temperature Physics</i> , 2020, 199, 593-597.	1.4	9
40	Operating in a deep underground facility improves the locking of gradiometric fluxonium qubits at the sweet spots. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
41	The NÅ©el IRAM KID Arrays (NIKA). <i>Journal of Low Temperature Physics</i> , 2012, 167, 834-839.	1.4	7
42	Cryogenic Wide-Area Light Detectors for Neutrino and Dark Matter Searches. <i>Journal of Low Temperature Physics</i> , 2014, 176, 917-923.	1.4	7
43	New application of superconductors: High sensitivity cryogenic light detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 338-341.	1.6	7
44	Background identification in cryogenic calorimeters through $\alpha$ - $\alpha$ delayed coincidences. <i>European Physical Journal C</i> , 2021, 81, 722.	3.9	7
45	Characterization of lumped element kinetic inductance detectors for mm-wave detection. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6
46	Phonon-Mediated KIDs as Light Detectors for Rare-Event Search: The CALDER Project. <i>Journal of Low Temperature Physics</i> , 2016, 184, 859-865.	1.4	5
47	Scintillating bolometric technique for the neutrino-less double beta decay search: The LUCIFER/CUPID-0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 342-346.	1.6	5
48	Design and Fabrication of the Second-Generation KID-Based Light Detectors of CALDER. <i>Journal of Low Temperature Physics</i> , 2018, 193, 726-731.	1.4	5
49	Development of Thermal Kinetic Inductance Detectors Suitable for X-ray Spectroscopy. <i>Journal of Low Temperature Physics</i> , 2018, 193, 163-169.	1.4	5
50	Final results of CALDER: kinetic inductance light detectors to search for rare events. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	5
51	Measurement of $^{216}\text{Po}$ half-life with the CUPID-0 experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 822, 136642.	4.1	5
52	The NIKA 2011 run: results and perspectives towards a permanent camera for the Pico Veleta observatory. , 2012, , .		4
53	DEMETRA: Suppression of the Relaxation Induced by Radioactivity in Superconducting Qubits. <i>Journal of Low Temperature Physics</i> , 2020, 199, 475-481.	1.4	4
54	The LUCIFER/CUPID-0 demonstrator: searching for the neutrinoless double-beta decay with $^{82}\text{Se}$ scintillating bolometers. <i>Journal of Physics: Conference Series</i> , 2017, 888, 012077.	0.4	3

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55	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
56	Cryogenic Light Detectors for Background Suppression: The CALDER Project. Journal of Low Temperature Physics, 2020, 200, 206-212.	1.4	3
57	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
58	Pulse Response of a Kinetic Inductance Detector in the Nonlinear Regime. Journal of Low Temperature Physics, 2020, 199, 639-645.	1.4	2
59	Millimetric Sardinia radio Telescope Receiver based on Array of Lumped elements kids. EPJ Web of Conferences, 2022, 257, 00012.	0.3	2
60	Total power horn-coupled 150 GHz LEKID array for space applications. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 009.	5.4	2
61	Development of KIDs detectors for large submillimetric telescopes. EAS Publications Series, 2010, 40, 443-448.	0.3	1
62	LEKIDs Developments for mm-Wave Astronomy. Journal of Low Temperature Physics, 2012, 167, 379-385.	1.4	1
63	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
64	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
65	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
66	$0 \nu \nu$ decay: the CUPID-0 experiment. Journal of Physics: Conference Series, 2018, 1056, 012044.	0.4	1
67	CALDER: The Second-Generation Light Detectors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-3.	1.7	1
68	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
69	Final results of the CUPID-0 Phase I experiment. Journal of Physics: Conference Series, 2020, 1468, 012205.	0.4	1
70	Results on $^{82}\text{Se}$ $0 \nu \nu$ with CUPID-0 Phase I. Journal of Physics: Conference Series, 2020, 1643, 012025.	0.4	1
71	Design and optimization of Microwave Kinetic Inductance Detectors. , 2010, , .		0
72	Progress in Precision Measurements of the Cosmic Microwave Background. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 15-20.	0.4	0

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73	Readout Electronics for the Kinetic Inductance Detectors of CALDER. , 2017, , .		0
74	CALDER: Cryogenic light detectors for background-free searches. AIP Conference Proceedings, 2018, , .	0.4	0
75	High-TC Superconducting Kinetic Inductance Detectors for Terahertz Imaging. , 2019, , .		0
76	Result on the Neutrinoless Double Beta Decay Search of $^{82}\text{Se}$ with the CUPID-0 Experiment. Universe, 2019, 5, 2.	2.5	0
77	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
78	CALDER: Cryogenic light detectors for background-free searches. AIP Conference Proceedings, 2015, , .	0.4	0
79	CUPID-0: A Cryogenic Calorimeter with Particle Identification for Double Beta Decay Search. Springer Proceedings in Physics, 2018, , 183-186.	0.2	0
80	MoBiKID - Kinetic Inductance Detectors for Upcoming B-Mode Satellite Missions. Springer Proceedings in Physics, 2018, , 35-38.	0.2	0
81	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0