

Enectali Figueroa-Feliciano

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2052918/publications.pdf>

Version: 2024-02-01

82
papers

3,399
citations

430843

18
h-index

144002

57
g-index

83
all docs

83
docs citations

83
times ranked

4404
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Matter Search Results from the CDMS II Experiment. <i>Science</i> , 2010, 327, 1619-1621.	12.6	627
2	Search for Low-Mass Weakly Interacting Massive Particles with SuperCDMS. <i>Physical Review Letters</i> , 2014, 112, 241302.	7.8	440
3	Results from a Low-Energy Analysis of the CDMS II Germanium Data. <i>Physical Review Letters</i> , 2011, 106, 131302.	7.8	419
4	Silicon Detector Dark Matter Results from the Final Exposure of CDMS II. <i>Physical Review Letters</i> , 2013, 111, 251301.	7.8	410
5	A High Spectral Resolution Observation of the Soft X-ray Diffuse Background with Thermal Detectors. <i>Astrophysical Journal</i> , 2002, 576, 188-203.	4.5	316
6	Impedance measurements and modeling of a transition-edge-sensor calorimeter. <i>Review of Scientific Instruments</i> , 2004, 75, 1283-1289.	1.3	101
7	Coherent neutrino scattering with low temperature bolometers at Chooz reactor complex. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 105101.	3.6	86
8	Search for Axions with the CDMS Experiment. <i>Physical Review Letters</i> , 2009, 103, 141802.	7.8	80
9	Performance of TES X-ray Microcalorimeters with a Novel Absorber Design. <i>Journal of Low Temperature Physics</i> , 2008, 151, 400-405.	1.4	71
10	Readout strategies for directional dark matter detection beyond the neutrino background. <i>Physical Review D</i> , 2015, 92, .	4.7	59
11	Demonstration of surface electron rejection with interleaved germanium detectors for dark matter searches. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	51
12	FERMI-LAT OBSERVATIONS OF SUPERNOVA REMNANTS INTERACTING WITH MOLECULAR CLOUDS: W41, MSH 17-33, AND G337.7-0.1. <i>Astrophysical Journal</i> , 2013, 774, 36.	4.5	41
13	Lynx x-ray microcalorimeter. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	39
14	SEARCHING FOR keV STERILE NEUTRINO DARK MATTER WITH X-RAY MICROCALORIMETER SOUNDING ROCKETS. <i>Astrophysical Journal</i> , 2015, 814, 82.	4.5	35
15	Absorber Materials for Transition-Edge Sensor X-ray Microcalorimeters. <i>Journal of Low Temperature Physics</i> , 2008, 151, 413-417.	1.4	33
16	Complex microcalorimeter models and their application to position-sensitive detectors. <i>Journal of Applied Physics</i> , 2006, 99, 114513.	2.5	28
17	Lynx Mission concept status. , 2017, , .		25
18	Fabrication of superconducting bilayer transition edge thermometers and their application for spaceborne X-ray microcalorimetry. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2940-2942.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Development of Position-Sensitive Transition-Edge Sensor X-Ray Detectors. IEEE Transactions on Applied Superconductivity, 2009, 19, 451-455.	1.7	20
20	First Direct Limits on Lightly Ionizing Particles with Electric Charge Less than $e/6$. Physical Review Letters, 2015, 114, 111302.	7.8	20
21	The electrical resistance and thermal conductivity of $\text{Ti}_{15}\text{Cr}_3\text{Sn}_3\text{Al}$ at cryogenic temperatures. Cryogenics, 2011, 51, 41-44.	1.7	19
22	Modeling of TES X-Ray Microcalorimeters with a Novel Absorber Design. Journal of Low Temperature Physics, 2008, 151, 406-412.	1.4	18
23	Fabrication of Metallic Magnetic Calorimeter X-ray Detector Arrays. Journal of Low Temperature Physics, 2008, 151, 357-362.	1.4	17
24	CONSTRAINING EXPLOSION TYPE OF YOUNG SUPERNOVA REMNANTS USING 24 μm EMISSION MORPHOLOGY. Astrophysical Journal Letters, 2013, 771, L38.	8.3	17
25	Production rate measurement of Tritium and other cosmogenic isotopes in Germanium with CDMSlite. Astroparticle Physics, 2019, 104, 1-12.	4.3	17
26	A CUPID $\text{Li}_2^{100}\text{MoO}_4$ scintillating bolometer tested in the CROSS underground facility. Journal of Instrumentation, 2021, 16, P02037-P02037.	1.2	16
27	Generation-X: mission and technology studies for an x-ray observatory vision mission. , 2004, , .		15
28	Characterizing the Superconducting-to-Normal Transition in Mo/Au Transition-Edge Sensor Bilayers. Journal of Low Temperature Physics, 2008, 151, 195-200.	1.4	15
29	The design, implementation, and performance of the Atró-H SXS calorimeter array and anti-coincidence detector. , 2016, , .		15
30	Position-sensitive low-temperature detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 496-501.	1.6	14
31	High-density arrays of x-ray microcalorimeters for Constellation-X. , 2006, 6266, 572.		14
32	Uniform high spectral resolution demonstrated in arrays of TES x-ray microcalorimeters. Proceedings of SPIE, 2007, , .	0.8	14
33	Performance of Micro-fabricated Magnetic Calorimeters Arrays for X-Ray Spectroscopy. Journal of Low Temperature Physics, 2008, 151, 351-356.	1.4	14
34	Fabrication of Mo/Au transition-edge sensors for X-ray spectrometry. IEEE Transactions on Applied Superconductivity, 2001, 11, 755-758.	1.7	12
35	Determining the thermal diffusivity in microcalorimeter absorbers and its effect on detector response. Journal of Applied Physics, 2007, 102, 104502.	2.5	12
36	A CHANDRA VIEW OF NON-THERMAL EMISSION IN THE NORTHWESTERN REGION OF SUPERNOVA REMNANT RCW 86: PARTICLE ACCELERATION AND MAGNETIC FIELDS. Astrophysical Journal, 2013, 779, 49.	4.5	12

#	ARTICLE	IF	CITATIONS
37	First Operation of TES Microcalorimeters in Space with the Micro-X Sounding Rocket. Journal of Low Temperature Physics, 2020, 199, 1062-1071.	1.4	12
38	Progress in the development of Mo/Au transition-edge sensors for x-ray spectroscopy. , 2000, 4140, 367.		11
39	Characterization and reduction of noise in Mo/Au transition edge sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 348-350.	1.6	11
40	Development of arrays of position-sensitive microcalorimeters for Constellation-X. Proceedings of SPIE, 2008, , .	0.8	11
41	Monte Carlo Simulation of Massive Absorbers for Cryogenic Calorimeters. Journal of Low Temperature Physics, 2012, 167, 485-490.	1.4	11
42	Next generation of silicon-based x-ray microcalorimeters. , 2003, , .		10
43	Heat Sinking and Crosstalk for Large, Close-Packed Arrays of Microcalorimeters. Journal of Low Temperature Physics, 2008, 151, 506-512.	1.4	10
44	Direct detection searches for WIMP dark matter. Progress in Particle and Nuclear Physics, 2011, 66, 661-673.	14.4	10
45	Design, implementation, and performance of the Astro-H SXS calorimeter array and anticoincidence detector. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	10
46	A DECADE-BASELINE STUDY OF THE PLASMA STATES OF EJECTA KNOTS IN CASSIOPEIA A. Astrophysical Journal, 2013, 769, 64.	4.5	9
47	Performance of Mo/Au TES microcalorimeters. , 2002, , .		8
48	Present Status of the SuperCDMS program. Journal of Low Temperature Physics, 2008, 151, 818-823.	1.4	8
49	Unfolding neutron spectrum with Markov Chain Monte Carlo at MIT research Reactor with He-3 Neutral Current Detectors. Journal of Instrumentation, 2018, 13, P02004-P02004.	1.2	8
50	Single electronâ€“hole pair sensitive silicon detector with surface event discrimination. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 963, 163757.	1.6	8
51	Various Optimizations of TES Arrays for X-Ray Astrophysics. Journal of Low Temperature Physics, 2008, 151, 223-228.	1.4	7
52	Performance of compact TES arrays with integrated high-fill-fraction X-ray absorbers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 411-413.	1.6	6
53	Vibration Isolation Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2016, 184, 597-603.	1.4	6
54	Detailed characterization of Mo/Au TES microcalorimeters. , 2002, , .		5

#	ARTICLE	IF	CITATIONS
55	Optimization of x-ray absorbers for TES microcalorimeters. , 2004, , .		5
56	Micro-X: Mission Overview and Science Goals. Journal of Low Temperature Physics, 2008, 151, 740-745.	1.4	5
57	Optimizing Arrays of Position-Sensitive TESs. Journal of Low Temperature Physics, 2008, 151, 1009-1014.	1.4	5
58	The thermal conductivity of high modulus Zylon fibers between 400mK and 4K. Cryogenics, 2008, 48, 515-517.	1.7	5
59	Validation of Phonon Physics in the CDMS Detector Monte Carlo. Journal of Low Temperature Physics, 2012, 167, 1160-1166.	1.4	5
60	Vibration Isolation Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2014, 176, 1082-1088.	1.4	5
61	Comparison of CDMS [100] and [111] Oriented Germanium Detectors. Journal of Low Temperature Physics, 2012, 167, 1106-1111.	1.4	4
62	Time Evolution of Electric Fields in CDMS Detectors. Journal of Low Temperature Physics, 2012, 167, 1099-1105.	1.4	4
63	Simulations of Noise in Phase-Separated Transition-Edge Sensors for SuperCDMS. Journal of Low Temperature Physics, 2012, 167, 135-140.	1.4	4
64	Development of TES Microcalorimeter Arrays for the Micro-X Sounding Rocket Experiment. IEEE Transactions on Applied Superconductivity, 2013, 23, 2101705-2101705.	1.7	4
65	Detector Calibration for the Micro-X Sounding Rocket X-ray Telescope. Journal of Low Temperature Physics, 2018, 193, 984-990.	1.4	4
66	Micro-X Sounding Rocket: Transitioning from First Flight to a Dark Matter Configuration. Journal of Low Temperature Physics, 2020, 199, 1072-1081.	1.4	4
67	First operation of transition-edge sensors in space with the Micro-X sounding rocket. , 2021, , .		4
68	Position-sensitive transition edge sensor modeling and results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 505-507.	1.6	3
69	Thermal Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2016, 184, 699-705.	1.4	3
70	Optimizing Thermal Detectors for Low-Threshold Applications in Neutrino and Dark Matter Experiments. Journal of Low Temperature Physics, 2018, 193, 1206-1213.	1.4	3
71	Position-sensing transition-edge sensors for large-field high-energy-resolution x-ray imaging spectroscopy. , 2000, 4140, 419.		2
72	Position-sensitive microcalorimeters. , 2004, 5501, 155.		2

#	ARTICLE	IF	CITATIONS
73	Studies of Thermal Diffusion in Planar Absorber Designs for the Micro-X Rocket. Journal of Low Temperature Physics, 2008, 151, 424-429.	1.4	2
74	Probing the phase transition of Mo/Au TES microcalorimeters. , 2003, 4851, 957.		1
75	Status of the Cryogenic Dark Matter Search Experiment. Journal of Low Temperature Physics, 2008, 151, 800-805.	1.4	1
76	Parametric Characterization of TES Detectors Under DC Bias. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
77	Position-sensitive microcalorimeters for large-field high-energy resolution astrophysics. , 2003, 4851, 913.		0
78	Optimizing Transition Edge Sensors for High-Resolution X-ray Spectroscopy. AIP Conference Proceedings, 2006, , .	0.4	0
79	Micro-X, the TES X-ray Imaging Rocket: First Year Progress. IEEE Transactions on Applied Superconductivity, 2009, 19, 553-556.	1.7	0
80	SuperCDMS Cold Hardware Design. Journal of Low Temperature Physics, 2012, 167, 1167-1172.	1.4	0
81	Detector Fabrication Yield for SuperCDMS Soudan. Journal of Low Temperature Physics, 2014, 176, 194.	1.4	0
82	Experimental Concept for a Precision Measurement of Nuclear Recoil Ionization Yields for Low Mass WIMP Searches. Journal of Low Temperature Physics, 2016, 184, 316-322.	1.4	0