

# Enectali Figueroa-Feliciano

## List of Publications by Year in descending order

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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	First operation of transition-edge sensors in space with the Micro-X sounding rocket. , 2021, , .		4
2	A CUPID Li <sub>2</sub> <sup>100</sup> MoO <sub>4</sub> scintillating bolometer tested in the CROSS underground facility. Journal of Instrumentation, 2021, 16, P02037-P02037.	1.2	16
3	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
4	Single electron-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
5	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
6	Production rate measurement of Tritium and other cosmogenic isotopes in Germanium with CDMSlite. Astroparticle Physics, 2019, 104, 1-12.	4.3	17
7	Lynx x-ray microcalorimeter. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	39
8	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
9	Detector Calibration for the Micro-X Sounding Rocket X-ray Telescope. Journal of Low Temperature Physics, 2018, 193, 984-990.	1.4	4
10	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
11	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
12	Parametric Characterization of TES Detectors Under DC Bias. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
13	Coherent neutrino scattering with low temperature bolometers at Chooz reactor complex. Journal of Physics C: Nuclear and Particle Physics, 2017, 44, 105101.	3.6	86
14	Lynx Mission concept status. , 2017, , .		25
15	Vibration Isolation Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2016, 184, 597-603.	1.4	6
16	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
17	Thermal Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2016, 184, 699-705.	1.4	3
18	The design, implementation, and performance of the Astro-H SXS calorimeter array and anti-coincidence detector. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
19	Readout strategies for directional dark matter detection beyond the neutrino background. Physical Review D, 2015, 92, .	4.7	59
20	SEARCHING FOR keV STERILE NEUTRINO DARK MATTER WITH X-RAY MICROCALORIMETER SOUNDING ROCKETS. Astrophysical Journal, 2015, 814, 82.	4.5	35
21	First Direct Limits on Lightly Ionizing Particles with Electric Charge Less than $e/6$ . Physical Review Letters, 2015, 114, 111302.	7.8	20
22	Detector Fabrication Yield for SuperCDMS Soudan. Journal of Low Temperature Physics, 2014, 176, 194.	1.4	0
23	Vibration Isolation Design for the Micro-X Rocket Payload. Journal of Low Temperature Physics, 2014, 176, 1082-1088.	1.4	5
24	Search for Low-Mass Weakly Interacting Massive Particles with SuperCDMS. Physical Review Letters, 2014, 112, 241302.	7.8	440
25	Development of TES Microcalorimeter Arrays for the Micro-X Sounding Rocket Experiment. IEEE Transactions on Applied Superconductivity, 2013, 23, 2101705-2101705.	1.7	4
26	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
27	A DECADE-BASELINE STUDY OF THE PLASMA STATES OF EJECTA KNOTS IN CASSIOPEIA A. Astrophysical Journal, 2013, 769, 64.	4.5	9
28	CONSTRAINING EXPLOSION TYPE OF YOUNG SUPERNOVA REMNANTS USING 24 $\mu$ m EMISSION MORPHOLOGY. Astrophysical Journal Letters, 2013, 771, L38.	8.3	17
29	FERMI-LAT OBSERVATIONS OF SUPERNOVA REMNANTS INTERACTING WITH MOLECULAR CLOUDS: W41, MSH 17-39, AND G337.7-0.1. Astrophysical Journal, 2013, 774, 36.	4.5	41
30	Demonstration of surface electron rejection with interleaved germanium detectors for dark matter searches. Applied Physics Letters, 2013, 103, .	3.3	51
31	Silicon Detector Dark Matter Results from the Final Exposure of CDMS II. Physical Review Letters, 2013, 111, 251301.	7.8	410
32	Comparison of CDMS [100] and [111] Oriented Germanium Detectors. Journal of Low Temperature Physics, 2012, 167, 1106-1111.	1.4	4
33	Time Evolution of Electric Fields in CDMS Detectors. Journal of Low Temperature Physics, 2012, 167, 1099-1105.	1.4	4
34	Validation of Phonon Physics in the CDMS Detector Monte Carlo. Journal of Low Temperature Physics, 2012, 167, 1160-1166.	1.4	5
35	Monte Carlo Simulation of Massive Absorbers for Cryogenic Calorimeters. Journal of Low Temperature Physics, 2012, 167, 485-490.	1.4	11
36	Simulations of Noise in Phase-Separated Transition-Edge Sensors for SuperCDMS. Journal of Low Temperature Physics, 2012, 167, 135-140.	1.4	4

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37	SuperCDMS Cold Hardware Design. <i>Journal of Low Temperature Physics</i> , 2012, 167, 1167-1172.	1.4	0
38	Results from a Low-Energy Analysis of the CDMS II Germanium Data. <i>Physical Review Letters</i> , 2011, 106, 131302.	7.8	419
39	The electrical resistance and thermal conductivity of Ti <sub>15</sub> V <sub>3</sub> Cr <sub>3</sub> Sn <sub>3</sub> Al at cryogenic temperatures. <i>Cryogenics</i> , 2011, 51, 41-44.	1.7	19
40	Direct detection searches for WIMP dark matter. <i>Progress in Particle and Nuclear Physics</i> , 2011, 66, 661-673.	14.4	10
41	Dark Matter Search Results from the CDMS II Experiment. <i>Science</i> , 2010, 327, 1619-1621.	12.6	627
42	Search for Axions with the CDMS Experiment. <i>Physical Review Letters</i> , 2009, 103, 141802.	7.8	80
43	Micro-X, the TES X-ray Imaging Rocket: First Year Progress. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 553-556.	1.7	0
44	Development of Position-Sensitive Transition-Edge Sensor X-Ray Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 451-455.	1.7	20
45	Characterizing the Superconducting-to-Normal Transition in Mo/Au Transition-Edge Sensor Bilayers. <i>Journal of Low Temperature Physics</i> , 2008, 151, 195-200.	1.4	15
46	Various Optimizations of TES Arrays for X-Ray Astrophysics. <i>Journal of Low Temperature Physics</i> , 2008, 151, 223-228.	1.4	7
47	Performance of Micro-fabricated Magnetic Calorimeters Arrays for X-Ray Spectroscopy. <i>Journal of Low Temperature Physics</i> , 2008, 151, 351-356.	1.4	14
48	Fabrication of Metallic Magnetic Calorimeter X-ray Detector Arrays. <i>Journal of Low Temperature Physics</i> , 2008, 151, 357-362.	1.4	17
49	Studies of Thermal Diffusion in Planar Absorber Designs for the Micro-X Rocket. <i>Journal of Low Temperature Physics</i> , 2008, 151, 424-429.	1.4	2
50	Modeling of TES X-Ray Microcalorimeters with Novel Absorber Design. <i>Journal of Low Temperature Physics</i> , 2008, 151, 406-412.	1.4	18
51	Absorber Materials for Transition-Edge Sensor X-ray Microcalorimeters. <i>Journal of Low Temperature Physics</i> , 2008, 151, 413-417.	1.4	33
52	Performance of TES X-ray Microcalorimeters with Novel Absorber Design. <i>Journal of Low Temperature Physics</i> , 2008, 151, 400-405.	1.4	71
53	Heat Sinking and Crosstalk for Large, Close-Packed Arrays of Microcalorimeters. <i>Journal of Low Temperature Physics</i> , 2008, 151, 506-512.	1.4	10
54	Micro-X: Mission Overview and Science Goals. <i>Journal of Low Temperature Physics</i> , 2008, 151, 740-745.	1.4	5

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55	Present Status of the SuperCDMS program. Journal of Low Temperature Physics, 2008, 151, 818-823.	1.4	8
56	Status of the Cryogenic Dark Matter Search Experiment. Journal of Low Temperature Physics, 2008, 151, 800-805.	1.4	1
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	Development of arrays of position-sensitive microcalorimeters for Constellation-X. Proceedings of SPIE, 2008, , .	0.8	11
60	Determining the thermal diffusivity in microcalorimeter absorbers and its effect on detector response. Journal of Applied Physics, 2007, 102, 104502.	2.5	12
61	Uniform high spectral resolution demonstrated in arrays of TES x-ray microcalorimeters. Proceedings of SPIE, 2007, , .	0.8	14
62	High-density arrays of x-ray microcalorimeters for Constellation-X. , 2006, 6266, 572.		14
63	Optimizing Transition Edge Sensors for High-Resolution X-ray Spectroscopy. AIP Conference Proceedings, 2006, , .	0.4	0
64	Complex microcalorimeter models and their application to position-sensitive detectors. Journal of Applied Physics, 2006, 99, 114513.	2.5	28
65	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
66	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
67	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
68	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
69	Impedance measurements and modeling of a transition-edge-sensor calorimeter. Review of Scientific Instruments, 2004, 75, 1283-1289.	1.3	101
70	Optimization of x-ray absorbers for TES microcalorimeters. , 2004, , .		5
71	Position-sensitive microcalorimeters. , 2004, 5501, 155.		2
72	Generation-X: mission and technology studies for an x-ray observatory vision mission. , 2004, , .		15

#	ARTICLE	IF	CITATIONS
73	Next generation of silicon-based x-ray microcalorimeters. , 2003, , .		10
74	Position-sensitive microcalorimeters for large-field high-energy resolution astrophysics. , 2003, 4851, 913.		0
75	Probing the phase transition of Mo/Au TES microcalorimeters. , 2003, 4851, 957.		1
76	A High Spectral Resolution Observation of the Soft X-ray Diffuse Background with Thermal Detectors. Astrophysical Journal, 2002, 576, 188-203.	4.5	316
77	Detailed characterization of Mo/Au TES microcalorimeters. , 2002, , .		5
78	Performance of Mo/Au TES microcalorimeters. , 2002, , .		8
79	Fabrication of Mo/Au transition-edge sensors for X-ray spectrometry. IEEE Transactions on Applied Superconductivity, 2001, 11, 755-758.	1.7	12
80	Progress in the development of Mo/Au transition-edge sensors for x-ray spectroscopy. , 2000, 4140, 367.		11
81	Position-sensing transition-edge sensors for large-field high-energy-resolution x-ray imaging spectroscopy. , 2000, 4140, 419.		2
82	Fabrication of superconducting bilayer transition edge thermometers and their application for spaceborne X-ray microcalorimetry. IEEE Transactions on Applied Superconductivity, 1999, 9, 2940-2942.	1.7	20