

Emanuele Taralli

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Thermal Crosstalk of X-Ray Transition-Edge Sensor Micro-Calorimeters Under Frequency Domain Multiplexing Readout. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-7.	1.7	4
2	Small Size Transition-Edge Sensors for Future X-Ray Applications. Journal of Low Temperature Physics, 2022, 209, 256-262.	1.4	3
3	ATHENA X-IFU Demonstration Model: First Joint Operation of the Main TES Array and its Cryogenic AntiCoincidence Detector (CryoAC). Journal of Low Temperature Physics, 2022, 209, 433-440.	1.4	10
4	Performance and uniformity of a kilo-pixel array of Ti/Au transition-edge sensor microcalorimeters. Review of Scientific Instruments, 2021, 92, 023101.	1.3	10
5	Frequency shift algorithm: Application to a frequency-domain multiplexing readout of x-ray transition-edge sensor microcalorimeters. Review of Scientific Instruments, 2021, 92, 033103.	1.3	6
6	Voltage Fluctuations in ac Biased Superconducting Transition-Edge Sensors. Physical Review Letters, 2021, 126, 217001.	7.8	13
7	Single Pixel Performance of a 32 Å— 32 Ti/Au TES Array With Broadband X-Ray Spectra. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	2
8	Ti/Au TES 32 Å— 32 Pixel Array: Uniformity, Thermal Crosstalk and Performance at Different X-Ray Energies. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
9	Impact of the Absorber-Coupling Design for Transition-Edge-Sensor X-Ray Calorimeters. Physical Review Applied, 2021, 16, .	3.8	4
10	Demonstration of MHz frequency domain multiplexing readout of 37 transition edge sensors for high-resolution x-ray imaging spectrometers. Applied Physics Letters, 2021, 119, .	3.3	14
11	Characterization of High Aspect-Ratio TiAu TES X-ray Microcalorimeter Array Under AC Bias. Journal of Low Temperature Physics, 2020, 199, 80-87.	1.4	12
12	Development of a Ti/Au TES Microcalorimeter Array as a Backup Sensor for the Athena/X-IFU Instrument. Journal of Low Temperature Physics, 2020, 199, 943-948.	1.4	32
13	Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601.	3.3	18
14	Study of TES Detector Transition Curve to Optimize the Pixel Design for Frequency-Division Multiplexing Readout. Journal of Low Temperature Physics, 2020, 199, 962-967.	1.4	8
15	SQUID Noise in a 176-Pixel FDM Demonstrator for the SAFARI Far-Infrared Spectrometer. Journal of Low Temperature Physics, 2020, 199, 723-729.	1.4	5
16	AC/DC Characterization of a Ti/Au TES with Au/Bi Absorber for X-ray Detection. Journal of Low Temperature Physics, 2020, 199, 102-109.	1.4	6
17	High aspect ratio transition edge sensors for x-ray spectrometry. Journal of Applied Physics, 2020, 128, .	2.5	20
18	HUBS: a dedicated hot circumgalactic medium explorer. , 2020, , .		26

#	ARTICLE	IF	CITATIONS
19	Complex impedance of TESs under AC bias using FDM readout system. AIP Advances, 2019, 9, .	1.3	18
20	Development of TiAu TES x-ray calorimeters for the X-IFU on ATHENA space observatory. , 2018, , .		5
21	LEDs: Sources and Intrinsically Bandwidth-Limited Detectors. Sensors, 2017, 17, 1673.	3.8	49
22	Aluminum-Titanium Bilayer for Near-Infrared Transition Edge Sensors. Sensors, 2016, 16, 953.	3.8	15
23	Micro-SQUIDs based on MgB ₂ nano-bridges for NEMS readout. Superconductor Science and Technology, 2016, 29, 104008.	3.5	8
24	Characterization of Optical Fast Transition-Edge Sensors With Optimized Fiber Coupling. IEEE Transactions on Applied Superconductivity, 2013, 23, 2100904-2100904.	1.7	21
25	High intrinsic energy resolution photon number resolving detectors. Applied Physics Letters, 2013, 103, .	3.3	31
26	Photon number statistics of NV centre emission. Metrologia, 2012, 49, S156-S160.	1.2	14
27	Ti/Au TES to Discriminate Single Photons. Journal of Low Temperature Physics, 2012, 167, 803-808.	1.4	30
28	Self consistent, absolute calibration technique for photon number resolving detectors. Optics Express, 2011, 19, 23249.	3.4	42
29	Ti/Au Transition-Edge Sensors Coupled to Single Mode Optical Fibers Aligned by Si V-Groove. IEEE Transactions on Applied Superconductivity, 2011, 21, 215-218.	1.7	18
30	Impedance measurements on a fast transition-edge sensor for optical and near-infrared range. Superconductor Science and Technology, 2010, 23, 105012.	3.5	21
31	Investigation of Ti/Pd Bilayer for Single Photon Detection. IEEE Transactions on Applied Superconductivity, 2009, 19, 493-495.	1.7	79
32	Characterization of the Resistive Transition of MgB_2 Nanogranular Films by Current Noise Analysis. IEEE Transactions on Applied Superconductivity, 2009, 19, 2827-2830.	1.7	0
33	How to avoid reflection losses in superconducting light detectors. Journal of Modern Optics, 2009, 56, 385-389.	1.3	2
34	Photon-number discriminating superconducting transition-edge sensors. Metrologia, 2009, 46, S283-S287.	1.2	24
35	Fabrication of Au/Ti TESs for Optical Photon Counting. Journal of Low Temperature Physics, 2008, 151, 261-265.	1.4	25
36	Superconducting MgB_2 Nanostructures Fabricated by Electron Beam Lithography. IEEE Transactions on Applied Superconductivity, 2007, 17, 222-224.	1.7	10

#	ARTICLE	IF	CITATIONS
37	Fabrication and characterization of an MgB ₂ bolometer. Superconductor Science and Technology, 2007, 20, S403-S407.	3.5	3