

Marcel Ridder

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

379
citations

759233

12
h-index

839539

18
g-index

25
all docs

25
docs citations

25
times ranked

301
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative ballistic phonon transport in silicon-nitride membranes at low temperatures. Applied Physics Letters, 2005, 86, 251903.	3.3	56
2	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
3	Josephson effects in an alternating current biased transition edge sensor. Applied Physics Letters, 2014, 105, .	3.3	28
4	Characterization of a High-Performance Ti/Au TES Microcalorimeter with a Central Cu Absorber. Journal of Low Temperature Physics, 2008, 151, 161-166.	1.4	27
5	HUBS: a dedicated hot circumgalactic medium explorer. , 2020, , .		26
6	Development of Ultra-Low-Noise TES Bolometer Arrays. Journal of Low Temperature Physics, 2016, 184, 52-59.	1.4	24
7	High aspect ratio transition edge sensors for x-ray spectrometry. Journal of Applied Physics, 2020, 128, .	2.5	20
8	Complex impedance of TESs under AC bias using FDM readout system. AIP Advances, 2019, 9, .	1.3	18
9	Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601.	3.3	18
10	Fabrication of Low-Noise TES Arrays for the SAFARI Instrument on SPICA. Journal of Low Temperature Physics, 2016, 184, 60-65.	1.4	17
11	Ultra-low noise TES bolometer arrays for SAFARI instrument on SPICA. Proceedings of SPIE, 2016, , .	0.8	15
12	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
13	Optical performance of an ultra-sensitive horn-coupled transition-edge-sensor bolometer with hemispherical backshort in the far infrared. Review of Scientific Instruments, 2016, 87, 043103.	1.3	13
14	Characterization of Low Noise TES Detectors Fabricated by D-RIE Process for SAFARI Short-Wavelength Band. Journal of Low Temperature Physics, 2014, 176, 363-369.	1.4	10
15	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
16	Diffusion Behaviour in Superconducting Ti/Au bilayers for SAFARI TES Detectors. Journal of Low Temperature Physics, 2014, 176, 370-375.	1.4	8
17	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
18	An angle-scanned cryogenic Fabry-Pérot interferometer for far-infrared astronomy. Review of Scientific Instruments, 2020, 91, 083108.	1.3	7

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Development of TES-based detectors array for the X-ray Integral Field Unit (X-IFU) on the future x-ray observatory ATHENA. Proceedings of SPIE, 2014, , .	0.8	4
22	Electrical cross talk of a frequency division multiplexing readout for a transition edge sensor bolometer array. Review of Scientific Instruments, 2021, 92, 014710.	1.3	4
23	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
24	Small Size Transition-Edge Sensors for Future X-Ray Applications. Journal of Low Temperature Physics, 2022, 209, 256-262.	1.4	3
25	Frequency division multiplexing readout of 60 low-noise transition-edge sensor bolometers. Applied Physics Letters, 2021, 119, .	3.3	2