

# Marcel Bruijn

## List of Publications by Year in descending order

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docs citations

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times ranked

401  
citing authors

#	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	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
4	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
5	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
6	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
7	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
8	Impact of the Absorber-Coupling Design for Transition-Edge-Sensor X-Ray Calorimeters. Physical Review Applied, 2021, 16, .	3.8	4
9	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
10	Frequency division multiplexing readout of 60 low-noise transition-edge sensor bolometers. Applied Physics Letters, 2021, 119, .	3.3	2
11	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
12	Low-noise microwave SQUID multiplexed readout of 38 x-ray transition-edge sensor microcalorimeters. Applied Physics Letters, 2020, 117, 122601.	3.3	18
13	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
14	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
15	Progress in the Development of Frequency-Domain Multiplexing for the X-ray Integral Field Unit on Board the Athena Mission. Journal of Low Temperature Physics, 2020, 199, 737-744.	1.4	15
16	High aspect ratio transition edge sensors for x-ray spectrometry. Journal of Applied Physics, 2020, 128, .	2.5	20
17	A six-degree-of-freedom micro-vibration acoustic isolator for low-temperature radiation detectors based on superconducting transition-edge sensors. Review of Scientific Instruments, 2019, 90, 055107.	1.3	13
18	Complex impedance of TESs under AC bias using FDM readout system. AIP Advances, 2019, 9, .	1.3	18

#	ARTICLE	IF	CITATIONS
19	Study of Dissipative Losses in AC-Biased Mo/Au Bilayer Transition-Edge Sensors. Journal of Low Temperature Physics, 2018, 193, 356-364.	1.4	12
20	Josephson Effects in Frequency-Domain Multiplexed TES Microcalorimeters and Bolometers. Journal of Low Temperature Physics, 2018, 193, 209-216.	1.4	18
21	LC Filters for FDM Readout of the X-IFU TES Calorimeter Instrument on Athena. Journal of Low Temperature Physics, 2018, 193, 661-667.	1.4	13
22	Development of frequency domain multiplexing for the x-ray Integral Field Unit (X-IFU) (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
23	The SAFARI detector system. , 2018, , .		6
24	FDM Readout Assembly with Flexible, Superconducting Connection to Cryogenic kilo-Pixel TES Detectors. Journal of Low Temperature Physics, 2016, 184, 369-373.	1.4	6
25	Development of frequency domain multiplexing for the X-ray Integral Field unit (X-IFU) on the Athena. Proceedings of SPIE, 2016, , .	0.8	14
26	TES-Based X-ray Microcalorimeter Performances Under AC Bias and FDM for Athena. Journal of Low Temperature Physics, 2016, 184, 436-442.	1.4	14
27	Fabrication of Low-Noise TES Arrays for the SAFARI Instrument on SPICA. Journal of Low Temperature Physics, 2016, 184, 60-65.	1.4	17
28	Development of the superconducting detectors and read-out for the X-IFU instrument on board of the X-ray observatory Athena. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 622-625.	1.6	18
29	The focal plane assembly for the Athena X-ray Integral Field Unit instrument. Proceedings of SPIE, 2016, , .	0.8	14
30	Modeling Inductances of Wiring for a TES Array Read by FDM. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	5
31	Nearly Quantum Limited Two-Stage SQUID Amplifiers for the Frequency Domain Multiplexing of TES Based X-ray and Infrared Detectors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	12
32	Tailoring the High-Q LC Filter Arrays for Readout of Kilo-Pixel TES Arrays in the SPICA-SAFARI Instrument. Journal of Low Temperature Physics, 2014, 176, 421.	1.4	19
33	Josephson effects in an alternating current biased transition edge sensor. Applied Physics Letters, 2014, 105, .	3.3	28
34	Progress on the FDM Development at SRON: Toward 160 Pixels. Journal of Low Temperature Physics, 2014, 176, 439.	1.4	6
35	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
36	The SPICA-SAFARI Detector System: TES Detector Arrays With Frequency-Division Multiplexed SQUID Readout. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 12-21.	3.1	59

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37	Frequency division multiplexed readout of TES detectors with baseband feedback. Proceedings of SPIE, 2012, , .	0.8	4
38	High-Q LC Filters for FDM Read out of Cryogenic Sensor Arrays. Journal of Low Temperature Physics, 2012, 167, 695-700.	1.4	24
39	Frequency Domain Multiplexed Readout of TES Detector Arrays With Baseband Feedback. IEEE Transactions on Applied Superconductivity, 2011, 21, 289-293.	1.7	22
40	Superconducting LC Filter Circuits for Frequency Division Multiplexed Readout of TES Detectors. IEEE Transactions on Applied Superconductivity, 2011, 21, 294-297.	1.7	9
41	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
42	Advances in Fabrication of TES $\frac{1}{4}$ -Calorimeter Arrays and Associated Filter Structures for AC-Biased ReadOut. Journal of Low Temperature Physics, 2008, 151, 500-505.	1.4	3
43	Progress in fabrication of microcalorimeter arrays: X-ray absorbers and high-density stripline wiring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 444-446.	1.6	8
44	Steepness, noise and instabilities of Ti/Au transition edge thermometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 709-711.	1.6	3
45	Radiative ballistic phonon transport in silicon-nitride membranes at low temperatures. Applied Physics Letters, 2005, 86, 251903.	3.3	56
46	Understanding TES microcalorimeter noise and energy resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 329-332.	1.6	5
47	Development of an array of transition edge sensors for application in X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 443-445.	1.6	13
48	Development of arrays of transition edge sensors for application in X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 513, 143-146.	1.6	6
49	AC biased TES-based X-ray microcalorimeter with an energy resolution of 6.3 eV at 5.89 keV. IEEE Transactions on Applied Superconductivity, 2003, 13, 638-642.	1.7	7
50	Performance of X-ray microcalorimeters with an energy resolution below 4.5 eV and 100 $\frac{1}{4}$ s response time. , 2002, , .		22
51	Thermal fluctuation noise in a voltage biased superconducting transition edge thermometer. Applied Physics Letters, 2000, 77, 4422-4424.	3.3	57
52	Limitations of heat conductivity in cryogenic sensors due to surface roughness [X-ray detection]. , 0, , .		2