Damien PrÃle

List of Publications by Year
in descending order

69	653	933447 10	713466 21
papers	citations	h-index	g-index

69	69	69	746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Athena X-IFU Instrument Simulator xifusim. Journal of Low Temperature Physics, 2022, 209, 988-997.	1.4	4
2	QUBIC V: Cryogenic system design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 038.	5.4	8
3	QUBIC VII: The feedhorn-switch system of the technological demonstrator. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 040.	5.4	6
4	QUBIC VIII: Optical design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 041.	5.4	9
5	QUBIC VI: Cryogenic half wave plate rotator, design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 039.	5.4	8
6	QUBIC IV: Performance of TES bolometers and readout electronics. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 037.	5.4	10
7	QUBIC I: Overview and science program. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 034.	5.4	20
8	QUBIC II: Spectral polarimetry with bolometric interferometry. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 035.	5.4	9
9	The QUBIC instrument for CMB polarization measurements. Journal of Physics: Conference Series, 2020, 1548, 012016.	0.4	2
10	QUBIC: The Q & U Bolometric Interferometer for Cosmology. Journal of Low Temperature Physics, 2020, 199, 482-490.	1.4	8
11	TES Bolometer Arrays for the QUBIC B-Mode CMB Experiment. Journal of Low Temperature Physics, 2020, 199, 955-961.	1.4	6
12	QUBIC: Using NbSi TESs with a Bolometric Interferometer to Characterize the Polarization of the CMB. Journal of Low Temperature Physics, 2020, 200, 363-373.	1.4	4
13	Conceptual design of the detection chain for the X-IFU on Athena. , 2020, , .		3
14	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0
15	Calibration of QUBIC: The Q and U bolometric interferometer for cosmology. , 2020, , .		0
16	ATHENA warm ASIC for the X-IFU electronics. , 2020, , .		2
17	Warm front end electronic modelization for the X-IFU ATHENA readout chain simulation. , 2020, , .		3
18	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15

#	Article	IF	Citations
19	Radiation Tolerance of RHBD techniques on a SiGe BiCMOS 350 nm ASIC technology. , 2019, , .		0
20	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
21	SiGe Integrated Circuit Developments for SQUID/TES Readout. Journal of Low Temperature Physics, 2018, 193, 455-461.	1.4	7
22	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
23	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
24	The ATHENA x-ray integral field unit (X-IFU). , 2018, , .		120
25	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
26	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0
27	Development of the WFEE subsystem for the X-IFU instrument of the ATHENA Space Observatory. , 2018, , .		2
28	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
29	QUBIC: the Q&U Bolometric Interferometer for Cosmology. A novel way to look at the polarized Cosmic Microwave Background.. , 2017, , .		2
30	The Athena X-ray Integral Field Unit (X-IFU). Proceedings of SPIE, 2016, , .	0.8	88
31	A 128 Multiplexing Factor Time-Domain SQUID Multiplexer. Journal of Low Temperature Physics, 2016, 184, 363-368.	1.4	13
32	Optical design and modelling of the QUBIC instrument, a next-generation quasi-optical bolometric interferometer for cosmology. Proceedings of SPIE, 2016, , .	0.8	0
33	CMB Science: Opportunities for a Cryogenic Filter-Bank Spectrometer. Journal of Low Temperature Physics, 2016, 184, 780-785.	1.4	1
34	QUBIC: A Fizeau Interferometer Targeting Primordial B-Modes. Journal of Low Temperature Physics, 2016, 184, 739-745.	1.4	9
35	LEKIDs as mm-Wave Polarisation Analysers: Fabrication, Test Bench and Early Results. Journal of Low Temperature Physics, 2016, 184, 167-172.	1.4	3
36	A 256-TES Array for the Detection of CMB B-Mode Polarisation. Journal of Low Temperature Physics, 2016, 184, 793-798.	1.4	1

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37	Operating Point and Flux Jumps of a SQUID in Flux-Locked Loop. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	8
38	Gain drift compensation with no feedback-loop developed for the X-Ray Integral Field Unit/ATHENA readout chain. Journal of Astronomical Telescopes, Instruments, and Systems, 2016, 2, 046002.	1.8	4
39	Gain drift compensation with no-feedback-loop developed for the X-IFU/ATHENA readout chain. , 2016, , .		1
40	Characterization of a Superconducting NbSi Transition Edge Sensor for TeSIA. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	2
41	Single-Photon Avalanche Diodes (SPAD) in CMOS 0.35 Âµm technology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 380-385.	1.6	3
42	Front-end multiplexingâ€"applied to SQUID multiplexing: Athena X-IFU and QUBIC experiments. Journal of Instrumentation, 2015, 10, C08015-C08015.	1.2	1
43	The Gamma Cube: a new way to explore the gamma-ray sky. , 2015, , .		0
44	The Gamma Cube: a novel concept of gamma-ray telescope. Proceedings of SPIE, 2014, , .	0.8	6
45	Complementary Measurement of Thermal Architecture of NbSi TES with Alpha Particle and Complex Impedance. Journal of Low Temperature Physics, 2014, 176, 350-355.	1.4	0
46	A mm-Wave Polarisation Analyser Using LEKIDs: Strategy and Preliminary Numerical Results. Journal of Low Temperature Physics, 2014, 176, 524-529.	1.4	1
47	Capacitively-Coupled SQUID Bias for Time Division Multiplexing. Journal of Low Temperature Physics, 2014, 176, 433-438.	1.4	4
48	Latest Progress on the QUBIC Instrument. Journal of Low Temperature Physics, 2013, 176, 698.	1.4	2
49	Characterization of NbSi TES Bolometers: Preliminary Results. Journal of Low Temperature Physics, 2012, 167, 176-181.	1.4	3
50	QUBIC: the Q&U Bolometric Interferometer for Cosmology. Journal of Low Temperature Physics, 2012, 167, 872-878.	1.4	15
51	Cryogenic Integrated Offset Compensation for Time Domain SQUID Multiplexing. Journal of Low Temperature Physics, 2012, 167, 726-731.	1.4	1
52	Nondissipative Addressing for Time-Division SQUID Multiplexing. IEEE Transactions on Applied Superconductivity, 2011, 21, 3652-3654.	1.7	2
53	NbSi TES Array and Readout: Development and Characterization. IEEE Transactions on Applied Superconductivity, 2011, 21, 192-195.	1.7	1
54	QUBIC: The QU bolometric interferometer for cosmology. Astroparticle Physics, 2011, 34, 705-716.	4.3	47

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55	Large submillimeter and millimeter detector arrays for astronomy: development of NbSi superconducting bolometers. Proceedings of SPIE, 2010, , .	0.8	3
56	An efficient phase-shifting scheme for bolometric additive interferometry. Astronomy and Astrophysics, 2009, 497, 963-971.	5.1	12
57	Development of Superconducting NbSi TES Array and Associated Readout With SQUIDs and Integrated Circuit Operating at 2 K. IEEE Transactions on Applied Superconductivity, 2009, 19, 501-504.	1.7	6
58	Characterization of NbSi TES on a 23-Pixel Array. IEEE Transactions on Applied Superconductivity, 2009, 19, 481-483.	1.7	2
59	Development of NbSi TES bolometer arrays for submillimeter astronomy. , 2009, , .		0
60	Superconducting Niobium/Silicon Bolometer Developments in the DCMB French Collaboration. EAS Publications Series, 2009, 37, 107-117.	0.3	2
61	Cryogenic operation of a SiGe integrated circuit for control time domain SQUID multiplexing. EAS Publications Series, 2009, 37, 141-148.	0.3	5
62	Cryogenic SiGe ASICs for readout and multiplexing of superconducting detector arrays. Cryogenics, 2009, 49, 681-685.	1.7	0
63	SiGe Integrated CircuitâˆšSQUID Hybrid Cryogenic Multiplexer for Superconducting Bolometer Array. , 2009, , .		2
64	Large Bolometer Arrays with Superconducting NbSiÂSensors for Future Space Experiments. Journal of Low Temperature Physics, 2008, 151, 513-517.	1.4	10
65	Very Low Noise Multiplexing with SQUIDs and SiGe Heterojunction Bipolar Transistors for Readout ofÂLarge Superconducting Bolometer Arrays. Journal of Low Temperature Physics, 2008, 151, 1028-1033.	1.4	14
66	Development of Large Bolometer Arrays for Submillimeter and Millimeter Astronomy. , 2008, , .		0
67	Very-low-noise multiplexing with SQUIDs and SiGe HBTs for readout of large superconducting bolometer arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 439-441.	1.6	6
68	Cryogenic SiGe Hetero-Junction Bipolar Transistors From Standard Technologies For Low Noise FLL. , 2006, , .		4
69	Standard SiGe technologies operating at 4 K for front-end readout of SQUID arrays. , 2006, , .		7