

Benoit Belier

List of Publications by Year in descending order

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63
papers

724
citations

623734

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552781

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63
times ranked

1016
citing authors

#	ARTICLE	IF	CITATIONS
1	The NIKA2 Instrument, A Dual-Band Kilopixel KID Array for Millimetric Astronomy. <i>Journal of Low Temperature Physics</i> , 2016, 184, 816-823.	1.4	98
2	High angular resolution Sunyaev-Zelâ€™dovich observations of MACS J1423.8+2404 with NIKA: Multiwavelength analysis. <i>Astronomy and Astrophysics</i> , 2016, 586, A122.	5.1	91
3	Performance and calibration of the NIKA camera at the IRAM 30 m telescope. <i>Astronomy and Astrophysics</i> , 2014, 569, A9.	5.1	60
4	First observation of the thermal Sunyaev-Zelâ€™dovich effect with kinetic inductance detectors. <i>Astronomy and Astrophysics</i> , 2014, 569, A66.	5.1	48
5	Pressure distribution of the high-redshift cluster of galaxies CL J1226.9+3332 with NIKA. <i>Astronomy and Astrophysics</i> , 2015, 576, A12.	5.1	48
6	Study of Au coated ZnO nanoarrays for surface enhanced Raman scattering chemical sensing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3528-3535.	5.5	47
7	Surface enhanced Raman scattering improvement of gold triangular nanoprisms by a gold reflective underlayer for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 31-35.	7.8	35
8	Low-cost SERS substrates composed of hybrid nanoskittles for a highly sensitive sensing of chemical molecules. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 795-799.	7.8	34
9	Latest NIKA Results and the NIKA-2 Project. <i>Journal of Low Temperature Physics</i> , 2014, 176, 787-795.	1.4	26
10	Gold metallizations for eutectic bonding of silicon wafers. <i>Microsystem Technologies</i> , 2006, 12, 1021-1025.	2.0	24
11	Gold thickness impact on the enhancement of SERS detection in low-cost Au/Si nanosensors. <i>Journal of Materials Science</i> , 2017, 52, 13650-13656.	3.7	18
12	Al/Si Nanopillars as Very Sensitive SERS Substrates. <i>Materials</i> , 2018, 11, 1534.	2.9	18
13	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. <i>Universe</i> , 2019, 5, 42.	2.5	15
14	Fabrication of free-standing porous silicon microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, S164-S167.	2.6	14
15	Fabrication of large NbSi bolometer arrays for CMB applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 559, 554-556.	1.6	10
16	Large Bolometer Arrays with Superconducting NbSi Sensors for Future Space Experiments. <i>Journal of Low Temperature Physics</i> , 2008, 151, 513-517.	1.4	10
17	QUBIC: A Fizeau Interferometer Targeting Primordial B-Modes. <i>Journal of Low Temperature Physics</i> , 2016, 184, 739-745.	1.4	9
18	Infrared response of a metamaterial made of gold wires and split ring resonators deposited on silicon. <i>Optical and Quantum Electronics</i> , 2007, 39, 273-284.	3.3	8

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19	QUBIC: The Q & U Bolometric Interferometer for Cosmology. Journal of Low Temperature Physics, 2020, 199, 482-490.	1.4	8
20	QUBIC VI: Cryogenic half wave plate rotator, design and performance. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 039.	5.4	8
21	PZT polarization voltage effects on off-centered PZT patch actuating silicon membrane. Sensors and Actuators A: Physical, 2004, 110, 385-389.	4.1	6
22	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
23	First Polarised Light with the NIKA Camera. Journal of Low Temperature Physics, 2016, 184, 724-732.	1.4	6
24	Different configurations of metamaterials coupled with an RF coil for MRI Applications. Applied Physics A: Materials Science and Processing, 2012, 109, 1059-1063.	2.3	5
25	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
26	New optical probes using InP-based cantilevers. Ultramicroscopy, 1998, 71, 81-84.	1.9	4
27	Silicon technology-based micro-systems for atomic force microscopy/photon scanning tunnelling microscopy. Journal of Microscopy, 2001, 202, 34-38.	1.8	4
28	Two axis magnetic camera based on AMR sensors. , 0, , .		4
29	Development of a 2D array of micromachined electromagnetic digital actuators for micro-conveyance applications. Microsystem Technologies, 2018, 24, 411-417.	2.0	4
30	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
31	InP-based photonic micro-sensor for near field optical investigations. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 90.	1.6	3
32	Formation of implanted piezoresistors under 100-nm thick for nanoelectromechanical systems. , 0, , .		3
33	Large-scale lithography for sub-500nm features. Journal of Physics: Conference Series, 2006, 34, 34-38.	0.4	3
34	Bolometer array developments in the DCMB collaboration. EAS Publications Series, 2009, 37, 83-88.	0.3	3
35	Superconducting Planar Devices for Cosmology. , 2009, , .		3
36	Large submillimeter and millimeter detector arrays for astronomy: development of NbSi superconducting bolometers. Proceedings of SPIE, 2010, , .	0.8	3

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37	Characterization of NbSi TES Bolometers: Preliminary Results. Journal of Low Temperature Physics, 2012, 167, 176-181.	1.4	3
38	Fabrication and mechanical properties of an organo-mineral cantilever-based probe for near-field optical microscopy. Sensors and Actuators A: Physical, 2014, 212, 12-17.	4.1	3
39	LEKIDs as mm-Wave Polarisation Analysers: Fabrication, Test Bench and Early Results. Journal of Low Temperature Physics, 2016, 184, 167-172.	1.4	3
40	Design and fabrication of arrays of nanoelectromechanical resonators for parallel detection of biomolecular interactions. , 0, , .		2
41	Characterization of NbSi TES on a 23-Pixel Array. IEEE Transactions on Applied Superconductivity, 2009, 19, 481-483.	1.7	2
42	Superconducting Niobium/Silicon Bolometer Developments in the DCMB French Collaboration. EAS Publications Series, 2009, 37, 107-117.	0.3	2
43	Antenna-coupled arrays of NbSi micro-bolometers. Experimental Astronomy, 2011, 32, 179-191.	3.7	2
44	W-Band Superconducting Planar Orthogonal Mode Transducer Characterisation. Journal of Low Temperature Physics, 2012, 167, 491-496.	1.4	2
45	Latest Progress on the QUBIC Instrument. Journal of Low Temperature Physics, 2013, 176, 698.	1.4	2
46	Superconducting NbN Coplanar Switch Driven by DC Current for CMB Instruments. Journal of Low Temperature Physics, 2014, 176, 663-669.	1.4	2
47	Characterization of NbSi films for TES bolometers. , 2008, , .		1
48	NbSi TES Array and Readout: Development and Characterization. IEEE Transactions on Applied Superconductivity, 2011, 21, 192-195.	1.7	1
49	Robustness of the behavior of microstrip lines loaded with disordered complementary split ring resonators. , 2013, , .		1
50	A mm-Wave Polarisation Analyser Using LEKIDs: Strategy and Preliminary Numerical Results. Journal of Low Temperature Physics, 2014, 176, 524-529.	1.4	1
51	Development of an elementary micromachined electromagnetic digital actuator for microdisplacements. , 2016, , .		1
52	A 256-TES Array for the Detection of CMB B-Mode Polarisation. Journal of Low Temperature Physics, 2016, 184, 793-798.	1.4	1
53	Applied of look up table controller based of FLC (fuzzy logic controller) in non-linear system AFM (atomic force microscopy)/PSTM (photon scanning tunnel microscope). , 0, , .		0
54	Development of Large Bolometer Arrays for Submillimeter and Millimeter Astronomy. , 2008, , .		0

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55	Bolometer arrays development in the DCMB French collaboration. Proceedings of SPIE, 2008, , .	0.8	0
56	Development of NbSi TES bolometer arrays for submillimeter astronomy. , 2009, , .		0
57	Design and simulation of an antenna-coupled TES bolometer. , 2011, , .		0
58	Conception of a 90-GHz metamaterial-based coupler for astrophysical applications. Applied Physics A: Materials Science and Processing, 2014, 117, 523-526.	2.3	0
59	The NIKA 2013-2014 observation campaigns: control of systematic effects and results. Proceedings of SPIE, 2014, , .	0.8	0
60	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
61	MOEMS for near field optical microscopy: from conception to fabrication process challenges. , 2015, , .		0
62	Optical design and modelling of the QUBIC instrument, a next-generation quasi-optical bolometric interferometer for cosmology. Proceedings of SPIE, 2016, , .	0.8	0
63	Superconducting Coplanar Switch and Phase Shifter for CMB Applications. Journal of Low Temperature Physics, 2016, 184, 547-552.	1.4	0