

# Bertrand Jp Baudouy

## List of Publications by Citations

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55  
papers

466  
citations

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59  
ext. papers

538  
ext. citations

2.4  
avg, IF

3.64  
L-index

#	Paper	IF	Citations
55	Overview and status of the Next European Dipole Joint Research Activity. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, S67-S83	3.1	42
54	Heat transfer in electrical insulation of LHC cables cooled with superfluid helium. <i>Cryogenics</i> , <b>1999</b> , 39, 921-931	1.8	35
53	Heat transfer characteristics of two-phase He I (4.2K) thermosiphon flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 3534-3544	4.9	30
52	He II heat transfer through superconducting cables electrical insulation. <i>Cryogenics</i> , <b>2000</b> , 40, 127-136	1.8	28
51	Steady-state pressure drop and heat transfer in He II forced flow at high Reynolds number. <i>Cryogenics</i> , <b>2001</b> , 41, 453-458	1.8	27
50	Thermal performance of a meter-scale horizontal nitrogen Pulsating Heat Pipe. <i>Cryogenics</i> , <b>2018</b> , 93, 66-74	1.8	20
49	Status of the Next European Dipole (NED) activity of the Collaborated Accelerator Research in Europe (CARE) project. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 1106-1112	1.8	19
48	Kapitza resistance and thermal conductivity of Kapton in superfluid helium. <i>Cryogenics</i> , <b>2003</b> , 43, 667-672	1.8	19
47	Progress in Design and Construction of the $\text{R}^3\text{B}$ -GLAD Large Acceptance Superconducting Dipole Spectrometer for GSI-FAIR. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 328-331	1.8	16
46	Cryogenic Design of a Large Superconducting Magnet for Astro-particle Shielding on Deep Space Travel Missions. <i>Physics Procedia</i> , <b>2015</b> , 67, 264-269	1.8	15
45	Thermal conductivity and Kapitza resistance of epoxy resin fiberglass tape at superfluid helium temperature. <i>Cryogenics</i> , <b>2009</b> , 49, 138-143	1.8	14
44	Low temperature thermal conductivity of aluminum alloy 5056. <i>Cryogenics</i> , <b>2014</b> , 60, 1-4	1.8	12
43	Upscaling of superfluid helium flow in porous media. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 4852-4864	4.9	12
42	Experimental study of Large-scale cryogenic Pulsating Heat Pipe. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 278, 012156	0.4	11
41	Stability Analysis of the LHC Cables for Transient Heat Depositions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2008</b> , 18, 1257-1262	1.8	11
40	Thermal design of the CFRP support struts for the spatial framework of the Herschel Space Observatory. <i>Cryogenics</i> , <b>2006</b> , 46, 298-304	1.8	11
39	Quench Experiments in a 8-T Superconducting Coil Cooled by Superfluid Helium. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 1989-1992	1.8	10

38	Low temperature thermal conductivity of aluminum alloy 1200. <i>Cryogenics</i> , <b>2011</b> , 51, 617-620	1.8	9
37	Evaluation of the Transfer of Heat From the Coil of the LHC Dipole Magnet to Helium II. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 1263-1268	1.8	8
36	Insulation Development for the Next European Dipole. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2008</b> , 18, 1387-1390	1.8	7
35	AC losses in superconducting Nb/sub 3/Sn and NbTi CIC conductors. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 2834-2837	2	7
34	Thermal conductivity and Kapitza resistance of cyanate ester epoxy mix and tri-functional epoxy electrical insulations at superfluid helium temperature. <i>Cryogenics</i> , <b>2012</b> , 52, 100-104	1.8	6
33	Modeling of a vertical circulation open loop in two-phase helium <b>2012</b> ,		6
32	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 688-691	1.8	6
31	Effects of filling ratio of a long cryogenic Pulsating Heat Pipe. <i>Applied Thermal Engineering</i> , <b>2021</b> , 194, 117072	5.8	6
30	Transient Thermal Behavior of a Neon Pulsating Heat Pipe (PHP). <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	5
29	A PISO-like algorithm to simulate superfluid helium flow with the two-fluid model. <i>Computer Physics Communications</i> , <b>2015</b> , 187, 20-28	4.2	5
28	Investigation of suitability of the method of volume averaging for the study of heat transfer in superconducting accelerator magnet cooled by superfluid helium. <i>Cryogenics</i> , <b>2013</b> , 53, 128-134	1.8	5
27	Numerical Investigation of Thermal Counterflow of He II Past Cylinders. <i>Physical Review Letters</i> , <b>2017</b> , 118, 074506	7.4	5
26	Experimental investigation of heat transfer through porous media in superfluid helium. <i>Cryogenics</i> , <b>2015</b> , 66, 53-62	1.8	4
25	Numerical simulation of the thermal and fluid-dynamic behavior of a cryogenic capillary tube. <i>Cryogenics</i> , <b>2020</b> , 106, 103044	1.8	4
24	Nucleate boiling heat transfer in a helium natural circulation loop coupled with a cryocooler. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 66, 64-71	4.9	4
23	High precision particle astrophysics as a new window on the universe with an Antimatter Large Acceptance Detector In Orbit (ALADInO). <i>Experimental Astronomy</i> , <b>2021</b> , 51, 1299	1.3	4
22	Steady state boiling crisis in a helium vertically heated natural circulation loop [Part 1: Critical heat flux, boiling crisis onset and hysteresis. <i>Cryogenics</i> , <b>2016</b> , 73, 73-81	1.8	4
21	A temperature-controlled cryogen free cryostat integrated with transceiver-mode superconducting coil for high-resolution magnetic resonance imaging. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 055106	1.7	3

20	Numerical study of the thermal behavior of an Nb <sub>3</sub> Sn high field magnet in He II. <i>Cryogenics</i> , <b>2013</b> , 53, 72-77	1.8	3
19	Transient boiling crisis induced by heat-load step pulses in a helium vertically heated natural circulation loop with static initial condition. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 104, 212-226	4.9	3
18	Steady-State heat transfer through micro-channels in pressurized He II <b>2012</b> ,		3
17	Heat dissipation in accelerator superconducting cables with ceramic insulation in normal and supercritical helium <b>2012</b> ,		3
16	Hydraulic characterization of centrifugal pumps in He I near saturated conditions. <i>Cryogenics</i> , <b>1998</b> , 38, 737-742	1.8	3
15	Heat-balance integral method for heat transfer in superfluid helium. <i>Thermal Science</i> , <b>2009</b> , 13, 121-132	1.2	3
14	A Proposal for a Superconducting Space Magnet for an Antimatter Spectrometer. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2020</b> , 30, 1-5	1.8	3
13	Steady state boiling crisis in a helium vertically heated natural circulation loop [Part 2: Friction pressure drop lessening. <i>Cryogenics</i> , <b>2016</b> , 73, 82-90	1.8	2
12	Numerical Modeling of the Quench Propagation Phase in the JT-60SA TF Coils. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	2
11	Kapitza resistance and thermal conductivity of Mylar at superfluid helium temperature. <i>Cryogenics</i> , <b>2005</b> , 45, 404-407	1.8	2
10	Effect of the thermo-physical properties of the working fluid on the performance of a 1-m long cryogenic horizontal pulsating heat pipe. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 187, 122458	4.9	2
9	Modeling of thermohydraulic transients in a boiling helium natural circulation loop. <i>Cryogenics</i> , <b>2016</b> , 80, 265-273	1.8	1
8	Helium I heat transfer in a small natural circulation loop with self-sustaining recondensation <b>2014</b> ,		1
7	Thermal design of an Nb <sub>3</sub> Sn high field accelerator magnet <b>2012</b> ,		1
6	Heat transfer through cyanate ester epoxy mix and epoxy TGPAP - DETDA electrical insulations at superfluid helium temperature <b>2012</b> ,		1
5	Versatile cryogen-free cryostat for the electromagnetic characterization of superconducting radiofrequency coils. <i>EPJ Techniques and Instrumentation</i> , <b>2020</b> , 7,	1.8	1
4	Recent Advances and Challenges in the Development of Radiofrequency HTS Coil for MRI. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	1
3	Design of an Antimatter Large Acceptance Detector In Orbit (ALADInO). <i>Instruments</i> , <b>2022</b> , 6, 19	1.2	0

- 2 Void fraction effect on AC loss in saturation regime for NbTi CIC conductor. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 567-570 1.8
- 1 Double phase transition numerical modeling of superfluid helium for fixed non-uniform grids. *Computer Physics Communications*, **2022**, 273, 108275 4.2