

Philippe Lebrun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

907
citations

11
h-index

29
g-index

61
ext. papers

1,282
ext. citations

1.7
avg, IF

2.53
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 57 | Quantum fluids at work: Superconductivity and superfluid helium at the large hadron collider. <i>Europhysics News</i> , 2022 , 53, 28-32 | 0.2 | |
| 56 | FCC Physics Opportunities. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 174 |
| 55 | FCC-hh: The Hadron Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 755-1107 | 2.3 | 196 |
| 54 | HE-LHC: The High-Energy Large Hadron Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 1109-1382 | 2.3 | 72 |
| 53 | FCC-ee: The Lepton Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 261-623 | 2.3 | 193 |
| 52 | Cryogenics for high-energy particle accelerators: highlights from the first fifty years. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012001 | 0.4 | 3 |
| 51 | Cryogénie, supraconductivité et accélérateurs de particules : 50 ans de développements croisés 2017 , 20-26 | 0.1 | |
| 50 | Twenty-Three Kilometres of Superfluid Helium Cryostats for the Superconducting Magnets of the Large Hadron Collider (LHC). <i>The International Cryogenics Monograph Series</i> , 2016 , 67-94 | 0 | 0 |
| 49 | Beyond the Large Hadron Collider: A First Look at Cryogenics for CERN Future Circular Colliders. <i>Physics Procedia</i> , 2015 , 67, 768-775 | | 8 |
| 48 | 8.3 Cryogenics 2013 , 250-264 | | |
| 47 | EXERGY ANALYSIS OF THE CRYOGENIC HELIUM DISTRIBUTION SYSTEM FOR THE LARGE HADRON COLLIDER (LHC) 2010 , | | 3 |
| 46 | Superconducting instrumentation for high Reynolds turbulence experiments with low temperature gaseous helium. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 386, 512-516 | 1.3 | 12 |
| 45 | A cryogenic high-Reynolds turbulence experiment at CERN. <i>AIP Conference Proceedings</i> , 2002 , | 0 | 2 |
| 44 | Cryogenics for the Large Hadron Collider. <i>IEEE Transactions on Applied Superconductivity</i> , 2000 , 10, 1500-1806 | | 22 |
| 43 | Economics of Large Helium Cryogenic Systems: Experience from Recent Projects at CERN 2000 , 1301-1308 | | 7 |
| 42 | Preliminary Risk Analysis of the LHC Cryogenic System 2000 , 1309-1316 | | 1 |
| 41 | Thermohydraulics of quenches and helium recovery in the LHC prototype magnet strings. <i>Cryogenics</i> , 1998 , 38, 533-543 | 1.8 | 16 |

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|----|--|-----|----|
| 40 | Operational Experience with a Cryogenic Axial-Centrifugal Compressor 1998 , 637-641 | | 0 |
| 39 | A Simplified Cryogenic Distribution Scheme for the Large Hadron Collider 1998 , 395-402 | | 8 |
| 38 | Cooling Strings of Superconducting Devices Below 2 K: The Helium II Bayonet Heat Exchanger 1998 , 419-426 | | 11 |
| 37 | Demands in Refrigeration Capacity for the Large Hadron Collider 1997 , 95-98 | | 1 |
| 36 | A Cryogenic Axial-Centrifugal Compressor for Superfluid Helium Refrigeration 1997 , 195-198 | | |
| 35 | Cryogenic operation and testing of the extended LHC Prototype Magnet String 1997 , 91-94 | | 2 |
| 34 | Upgrade of the CERN Cryogenic Station for Superfluid Helium Testing of Prototype LHC Superconducting Magnets 1997 , 199-202 | | 2 |
| 33 | Comparison of Floating and Thermalized Multilayer Insulation Systems at Low Boundary Temperature 1997 , 443-446 | | 1 |
| 32 | The Superfluid Helium Cryogenic System for the LHC Test String: Design, Construction and First Operation. <i>Advances in Cryogenic Engineering</i> , 1996 , 777-784 | | 7 |
| 31 | Measurement and Analysis of Thermal Performance of LHC Prototype Cryostats. <i>Advances in Cryogenic Engineering</i> , 1996 , 785-792 | | 3 |
| 30 | Experimental Investigation of Accidental Loss of Insulation Vacuum in an LHC Prototype Dipole Cryostat. <i>Advances in Cryogenic Engineering</i> , 1996 , 799-804 | | 2 |
| 29 | Conclusions from Procuring, Installing and Commissioning Six Large-Scale Helium Refrigerators at CERN. <i>Advances in Cryogenic Engineering</i> , 1996 , 761-768 | | 3 |
| 28 | . <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 2138-2141 | 2 | 3 |
| 27 | Superfluid helium cryogenics for the large hadron collider project at CERN. <i>Cryogenics</i> , 1994 , 34, 1-8 | 1.8 | 28 |
| 26 | Design and construction of a static magnetic refrigerator operating between 1.8 K and 4.5 K. <i>Cryogenics</i> , 1994 , 34, 227-230 | 1.8 | 3 |
| 25 | Pressure drop and transient heat transport in forced flow single phase helium II at high Reynolds numbers. <i>Cryogenics</i> , 1994 , 34, 317-320 | 1.8 | 11 |
| 24 | A full-scale thermal model of a prototype dipole cryomagnet for the CERN LHC project. <i>Cryogenics</i> , 1994 , 34, 693-696 | 1.8 | 6 |
| 23 | Investigation of quench pressure transients in the LHC superconducting magnets. <i>Cryogenics</i> , 1994 , 34, 705-708 | 1.8 | 6 |

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| 22 | Cryogenic benches for superfluid helium testing of full-scale prototype superconducting magnets for the CERN LHC project. <i>Cryogenics</i> , 1994 , 34, 733-736 | 1.8 | 5 |
| 21 | Application of Liquid-Helium Cryoplants at CERN 1994 , 539-546 | | 1 |
| 20 | Cryogenic Infrastructure for Superfluid Helium Testing of LHC Prototype Superconducting Magnets 1994 , 641-648 | | 2 |
| 19 | The Superfluid Helium Model Cryoloop for the CERN Large Hadron Collider (LHC) 1994 , 649-656 | | 8 |
| 18 | . <i>IEEE Transactions on Applied Superconductivity</i> , 1993 , 3, 777-780 | 1.8 | 2 |
| 17 | Precision heat inleak measurements on cryogenic components at 80 K, 4.2 K and 1.8 K. <i>Cryogenics</i> , 1992 , 32, 215-218 | 1.8 | 8 |
| 16 | Design concept and first experimental validation of the superfluid helium system for the Large Hadron Collider (LHC) project at CERN. <i>Cryogenics</i> , 1992 , 32, 118-121 | 1.8 | 14 |
| 15 | Operation of a forced flow superfluid helium test facility and first results. <i>Cryogenics</i> , 1992 , 32, 134-137 | 1.8 | 4 |
| 14 | Design of LHC prototype dipole cryostats. <i>Cryogenics</i> , 1992 , 32, 191-194 | 1.8 | 12 |
| 13 | . <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 1361-1364 | 2 | 5 |
| 12 | CONCEPTUAL STUDY OF THE SUPERFLUID HELIUM CRYOGENIC SYSTEM FOR THE CERN LARGE HADRON COLLIDER (LHC) 1988 , 497-504 | | 2 |
| 11 | DESIGN, TEST AND PERFORMANCE OF THE LIQUID HELIUM CRYOSTATS FOR THE LEP SUPERCONDUCTING QUADRUPOLE MAGNETS 1988 , 112-116 | | 1 |
| 10 | CONTROLLED DOWNWARD TRANSFER OF SATURATED LIQUID HELIUM ACROSS LARGE DIFFERENCES IN ELEVATION 1988 , 222-226 | | |
| 9 | Cryogenic Design of the Stochastic Cooling Pick-Ups for the Cern Antiproton Collector (ACOL) 1986 , 543-550 | | 0 |
| 8 | Modular Thermostatic Vapour-Cooled Current Leads for Cryogenic Service 1984 , 199-206 | | 2 |
| 7 | The Helium Cryogenic System for the Superconducting High-Luminosity Insertion at the CERN-ISR 1984 , 359-367 | | 1 |
| 6 | Operational Experience with the Superconducting High-Luminosity Insertion in the CERN Intersecting Storage Rings (ISR). <i>IEEE Transactions on Nuclear Science</i> , 1983 , 30, 2036-2038 | 1.7 | 6 |
| 5 | Detection of heat inleaks in cryogenic enclosures by infrared thermal imaging. <i>Cryogenics</i> , 1982 , 22, 619-684 | | |

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|---|--|-----|----|
| 4 | Localization of small leaks on the helium vessel of a cryostat. <i>Cryogenics</i> , 1980 , 20, 482-483 | 1.8 | |
| 3 | The Eight Superconducting Quadrupoles for the ISR High-Luminosity Insertion. <i>Exs</i> , 1980 , 848-852 | | 7 |
| 2 | A Superconducting High-Luminosity Insertion in the Intersecting Storage Rings (ISR). <i>IEEE Transactions on Nuclear Science</i> , 1979 , 26, 3179-3181 | 1.7 | 14 |
| 1 | Long flexible transfer lines for gaseous and liquid helium. <i>Cryogenics</i> , 1978 , 18, 659-662 | 1.8 | 4 |