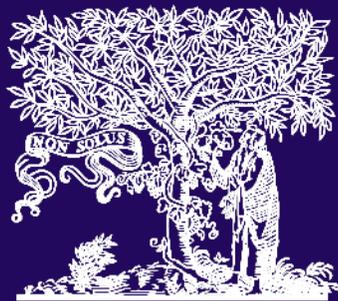


Proceedings of the Twentieth International Cryogenic Engineering Conference

Beijing China 2004

Edited by: Liang ZHANG, Liangzhen LIN, Goubang CHEN



ELSEVIER

**Getting
Started**

**Conference
Information**

Sessions

Authors

Search

Getting Started

Welcome to the Twentieth International Cryogenic Engineering Conference (ICEC 20) on CD-ROM. This disc is designed so that you may locate papers by session or author, as well as with full text search.

Papers originated as electronic files or hard copy. The papers were converted to Adobe Acrobat PDF file format for cross-platform access. Since some of the papers were scanned, the viewing quality will vary with the size and quality of fonts used. Even though the viewing quality on your monitor may vary, all papers print clearly.

Be sure to read the “Getting Started” section for useful recommendations on how to use this electronic guide.

Thank you and Enjoy!

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Getting Started

Trademarks

Adobe, the Adobe logo, Acrobat and the Acrobat logo are trademarks of Adobe Systems Incorporated or its subsidiaries and may be registered in certain jurisdictions. Macintosh is a registered trademark of Apple Computer, Inc. HP is a registered trademark and HP-UX is a trademark of Hewlett-Packard Company. Motif is a trademark of Open Software Foundation, Inc. Solaris is a registered trademark of Sun Microsystems, Inc., Sun and OpenWindows are trademarks of Sun Microsystems, Inc. SPARC is a registered trademark of SPARC International, Inc. SPARCstation is a registered trademark of SPARC International, Inc., licensed exclusively to Sun Microsystems, Inc. and is based upon an architecture developed by Sun Microsystems, Inc. UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company, Ltd. Windows is a trademark of Microsoft Corporation. X Window System is a trademark of the Massachusetts Institute of Technology. i386, 486 and Pentium are trademarks of Intel Corporation. All other products or name brands are trademarks of their respective holders.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Getting Started

ORIENTATION

This Electronic Guide file contains hypertext links to individual article files. Links are represented by colored text (e.g., a name or title); clicking on the text activates the link.

Before you start browsing and using the information on this CD-ROM, you will need to install Adobe Acrobat Reader + Search 5.0. If you already have Acrobat Reader installed on your system, make sure it is version 4.0 or higher and includes the Search plug-in.

The [README.TXT](#) file found on the root directory of this CD-ROM provides additional information.

In many instances, we refer to the “menu bar” and “tool bar”, shown here for reference.

menu bar: 

tool bar: 

Be sure to read the following on how to achieve the best performance with this electronic guide.

Main Menu



Getting Started

RECOMMENDATIONS FOR OPTIMAL PERFORMANCE

In order to take full advantage of the performance capabilities of this collection, we recommend that you do the following:

1. To make navigation and searching easier, we strongly recommend changing the following Acrobat Search Preferences (found under Edit> Preferences > Search on the menu bar.) In the dialog box shown for Acrobat Search Preferences, make the following changes:

A. Select the “Document Information” option so that Title, Author, Keywords, and Subject fields are visible when specifying search criteria. If for some reason this preference option is not present on your system, check to see that you have the Search plug-in

installed. The Search icon  will be present on the Acrobat tool bar if the function is properly installed. Specifics of the Search function are described later in this section.

B. Change “Show first 100 documents” to “Show first 1000 documents”. (Type in “1000” in the field provided.) This allows the maximum number of hits to be displayed during a search.

These settings will become your new default.



Getting Started

USING BOOKMARKS

In addition to links, you can navigate through the Electronic Guide using Bookmarks. If they are not already visible, choose Window > Bookmarks from the menu bar or press the “Show/Hide Navigation Pane” button on the tool bar. A panel opens on the left side of the screen displaying Bookmarks in a hierarchy.

Each Bookmark corresponds to a location in the Electronic Guide. Click on the text in a Bookmark to go to that location.

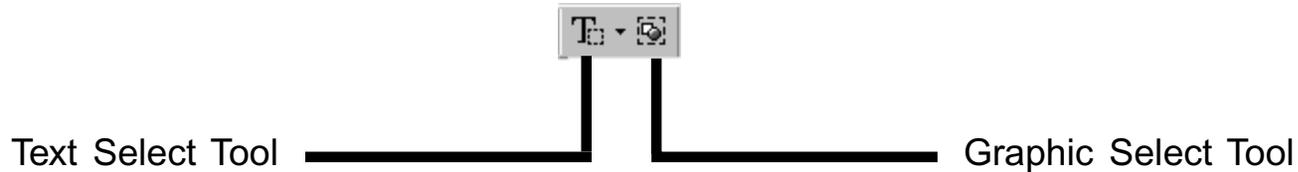
Entries with lower level Bookmarks show a plus sign (+) when subordinate Bookmarks are hidden and a negative sign (-) when subordinate Bookmarks are visible. To view subordinate Bookmarks, click on the plus sign (+). To hide them, click on the negative sign (-). Dragging the right margin of the bookmark panel resizes it. Dragging the Bookmark tab moves the panel to a different location.



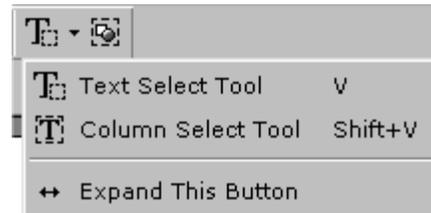
Getting Started

SELECTING TEXT AND GRAPHICS

To select text or graphics, the appropriate select tool must be selected. The select tools share the same space on the tool bar.



To see more text selection tools you must click the arrow to the right of the Text Select Tool. A “flyout” menu will allow you to select the Column Select Tool.



See the Adobe Acrobat Reader 5.0 Guide (Help > Reader Help) for more information on these tools.

Getting Started

NAVIGATION BUTTONS

Section Map

The current section is shown at the top of each page. The “path” to this section is shown at the right. Clicking these text buttons moves you to the start of that section.

Next Page

Click to advance to the next page in the section.



Previous Page

Click to go back to the previous page in the section.



(The Page Up and Page Down keys perform the same functions as the Next and Previous Page buttons.)

Fast Forward Pages

Click to advance (jump) multiple pages in the section.



Fast Back Pages

Click to go back (jump) multiple pages in the section.

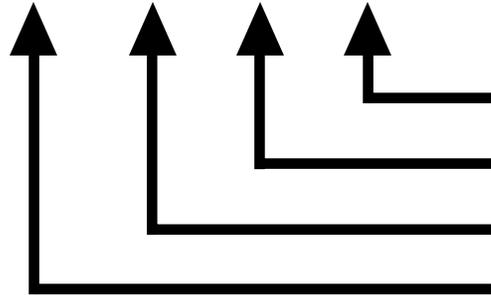
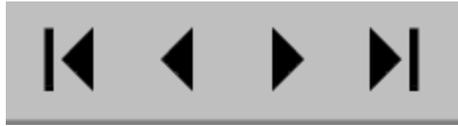


Main Menu



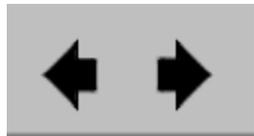
Getting Started

ACROBAT TOOLBAR



- Go to Last Page
- Go Forward One Page
- Go Backward One Page
- Go to First Page

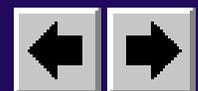
Navigation



- Go to Next View (One Link)
- Go to Previous View (One Link)

History

Main Menu

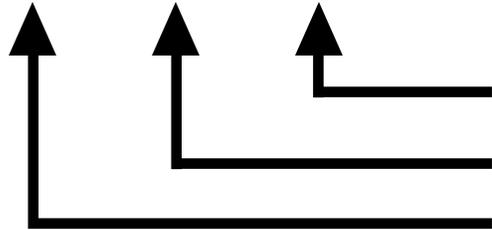


Getting Started

ACROBAT TOOLBAR



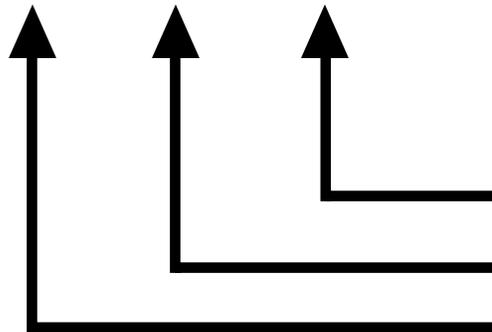
Zoom



Zoom Out
Zoom In
Hand Tool



Selection



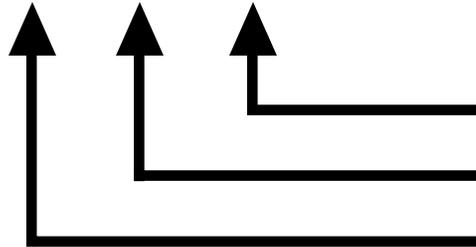
Graphic Select Tool
Column Select Tool
Text Select Tool

Main Menu



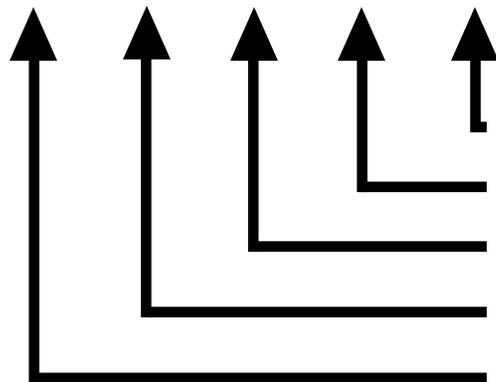
Getting Started

ACROBAT TOOLBAR



Fit Width
Fit in Window
Actual Size

Page View



Next Highlight (Hit)
Previous Highlight (Hit)
View Search Results
Search
Find

Find/Search

Main Menu



Getting Started

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

PERFORMING A “FIND”

Choosing Find opens a dialog box. Find scans linearly through the currently open Acrobat file from the cursor forward. If the Electronic Guide PDF is open, Find will scan the entire Electronic Guide for a match to your text. Type a text string in the field provided, check the appropriate options and press the “Find” button. Reader then highlights the first instance of the text string. To look at the next “hit”, click on the Find icon and press the “Find Again” button in the Acrobat Find window.

PERFORMING A “SEARCH”

Choosing the “Search” tool bar button or Search menu item (Edit > Search > Query), opens a dialog box from which you can access the more powerful full-text search engine (if you installed Acrobat Reader from this CD-ROM). Its dialog box is shown on the next page.

Typing a term in the text box at the top of the Search dialog box and pressing the “Search” button causes a full-text search of all words in the body of papers in the collection. If you have “Document

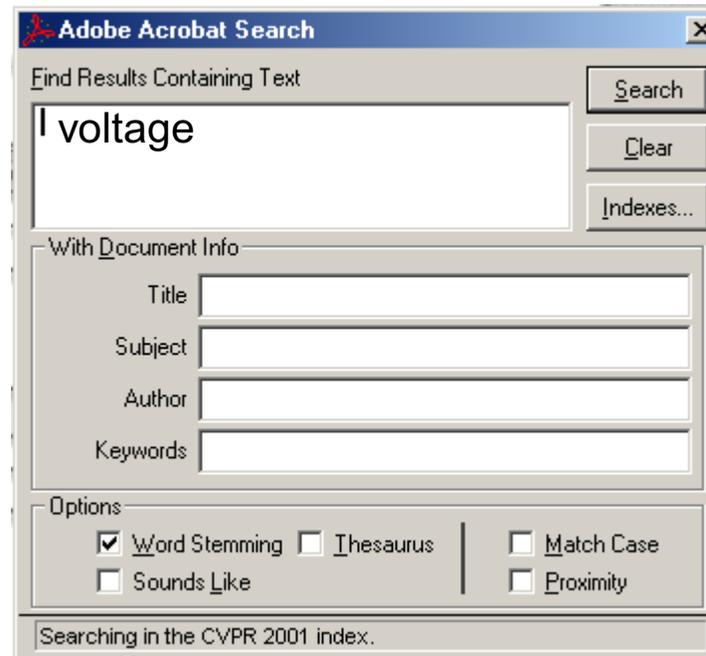


Getting Started

Information” active in your Reader preferences, entering a term in one or more of the fixed fields (Title, Author, Subject or Keywords) will cause a search for hits in only those fields.

If you are not finding files you think should show in the results list, Acrobat may not be attached to the correct index file. To check, press the “Indexes...” button for a list of available indexes. If this collection is not listed, press the “Add...” button and look in the root directory of the CD-ROM for a file called “index.pdx”. Click on that file to add it to the list.

See the Reader Help (on Help menu) for more complete instructions on selecting appropriate options, constructing boolean queries, etc.



Conference Information

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

- [❑ Preface](#)
- [❑ Technical Committees](#)
- [❑ Sponsors](#)
- [❑ Exhibitors](#)
- [❑ Copyright Notice](#)

Conference Information

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

PREFACE

The Twentieth International Cryogenic Engineering Conference (ICEC 20) is the Twentieth in the International series of biennial conference on cryogenic engineering held by the International Cryogenic Engineering Committee. It is the second such conference held in Beijing (ICEC 13, 1990).

ICEC 20 which was held on May 11-14, 2004 in Beijing, brought together around 400 delegates from 17 countries, including 322 registered participants and dozens exhibitors from 31 companies.

The technical program of ICEC-20 consisted of 345 contributed papers and 9 plenary invited papers, including the Mendelssohn Award speech. There are 19 parallel oral sessions with 114 papers, including a special oral session dedicated to the space cryogenics and 231 papers presented in 7 poster sessions. Besides, the program also consisted of a half-day technical visits to the Institute of No.101, China Academy of Launch Vehicle Technology; Technical Institute of Physics and Chemistry, Institute of Electric Engineering, Chinese Academy of Sciences.

The Proceedings of ICEC-20 documents 9 plenary papers and 5 leading papers, and 241 contributed papers, which were selected

[Main Menu](#)



Conference Information

from 312 papers after peer reviewing and some of them were revised according to the review results.

The International Cryogenic Engineering Committee presented the Mendelssohn Award during the Conference to Prof. Gustav Klipping and Dr. Ingrid Klipping in recognition of their outstanding contributions to the development and promotion of Cryogenics worldwide and also to the promotion of ICEC over its whole time since the beginning.

We would like to thank all of our friends and colleagues who devoted their efforts for the successful holding of the Conference. Our appreciation is also to the numerous reviewers for their excellent contributions.

We are looking forward to seeing you at the ICEC 21, which will be held in July 2006 at Prague, Czech.

Liang ZHANG Chairman, Organizing Committee
Liangzhen LIN Chairman, Program Committee
Vice Chairman, Organizing Committee
Guobang CHEN Vice Chairman, Program Committee

Beijing, August 25, 2004

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

International Cryogenic Engineering Committee

Guy GISTAU-BAGUER, Chairman

Kazuo FUNAKI

Tomiyoshi HARUYAMA, Secretary

Peter KITTEL

Peter KOMAREK

Philippe LEBRUN, Vice Chairman

Liangzhen LIN

Kishan NARAYANKHEDKAR

Carlo RIZZUTO

Horst ROGALLA

Stanislas SAFRATA

Ralph SCURLOCK

Alistair STEEL

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Steve Van SCIVER

Konstantin YUSHCHENKO

Liang ZHANG, Vice Chairman

Bruno ZIEGLER, Treasurer

Honorary Members

Gustav KLIPPING

Martin WOOD

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Local Organizing Committees

Organizing Committee

Liang ZHANG , Chairman

Liangzhen LIN, Vice Chairman

Ming LI, Vice Chairman

Chunzheng CHEN

Guangming CHEN

Anzhong GU

Hongwei GU

Fangzhong GUO

Jianguo HAN

Zhenghe HAN

Zezhao HUA

Bencheng HUANG

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Li KONG

Yanzhong LI

Jingtao LIANG

Zhongyue QIU

Yuejin TANG

Ruzhu WANG

Weiyang WANG

Yan WANG

Peide WENG

Peiheng WU

Liye XIAO

Yanru YANG

Pingxiang ZHANG

Jiwen ZHENG

Yuan ZHOU

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu



Conference Information

Programme Committee

Liangzhen LIN, Chairman

Guobang CHEN, Vice Chairman

Liezhao CAO

Jun JI

Xiaohua JIANG

Laifeng LI

Qing LI

Jing LIU

Tao LIU

Limin QIU

Jiasu WANG

Yinshun WANG

Qiansheng YANG

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Daole YIN

Guansen YUAN

Advisory Board

Chaosheng HONG, Chairman

Wenshan ZHAN, Vice Chairman

Chingwu CHU

Zizhao GAN

Yiyi LI

Luguang YAN

Guozhen YANG

Zhongxian ZHAO

Lian ZHOU

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Sponsor

International Cryogenic Engineering Committee

Co-Sponsors

International Institute of Refrigeration

Chinese Academy of Sciences

National Natural Science Foundation of China

Chinese Association of Refrigeration

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

Institute of Electrical Engineering, Chinese Academy of Sciences

China Refrigeration and Air Conditioning Industry Association

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Exhibitors

Air Liquide

Alstom Magnets and Superconductors

AMAC International Inc.

Barber Nichils Inc.

Beijing Saisiai M&E Equipment Co., Ltd

Beijing Bloom-Top Co.Ltd.

Chengdu Golden Phoenix Liquid Nitrogen Container Co., Ltd.

Cryofab Inc.

Cryogenmash

Cryomagnetics Inc.

Cryomech Inc.

DeMaCo

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

DY Refrigeration Co., Ltd.

East changing Technologies Inc.

Huanghe Oxygen Plant Factory

Kaifeng Air Separation Group Company, Ltd.

Lanzhou vacuum Equipment co., Ltd.

Linde Kryotechnik AG

Messer Cryotherm GmbH

Nippon Sanso Corporation

Oxford Instruments Superconductivity

PBS

Ricor-Cryogenic and Vacuum System

Scientific Instruments Inc.

Shandong Dongyue Chemical Co., Ltd.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Shanghai Hanbell Precise Machinery Co., Ltd.

Stars (Guangzhou) Refrigerating Equipment Manufacturing Co., Ltd.

Sumitomo Electric Industries, Ltd.

Taylor-Wharton Beijing Cryogenic Equipment Co., Ltd.

Tianjin Huanhu Hospital

Tristan

Vacree Technologies Co., Ltd.

Velan SA

Weka AG

Wessington Cryogenics

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Conference Information

Copyright Notice

All Rights Reserved. These Proceedings of the Twentieth International Cryogenic Engineering Conference Congress VII protected by copyright of Elsevier Ltd. The Proceedings are for the sole and exclusive use of the purchaser in accordance with the terms of the licence. Unauthorised use is prohibited and would be an infringement of copyright. In particular, no part of these Proceedings, including data and software, may be produced, stored electronically, adapted or distributed except as indicated in the licence, without the written permission of the applicable copyright holder and the publisher.

Electronic Publication and Distribution Rights © 2005 Elsevier Ltd.

Data Copyright © 2005 Elsevier Ltd.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)



Sessions

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

- Large Scale Refrigeration
- Cryogenic Systems and Test Facilities
- Coolers
- Pulse Tube Coolers
- Thermo-Acoustic Refrigeration System
- Space Cryogenics
- Cryogenic Components and Machinery
- Superconductor Behaviour
- LTS Superconducting Devices
- HTS Superconducting Devices
- Applications
- Gas Liquefaction and Separation
- Heat Transfer and Thermal Insulation
- Cryogenics
- Properties of Materials at Cryogenic Temperatures
- Cryogenic Instrumentation and Process Control
- Cryogenics in Medicine and Biology
- LHC

Click on a session for a list of papers.

Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Large Scale Refrigeration

- ❑ [Cryogenics in Russia: Development of basic cryogenic cycles \(Plenary Invited Paper\)](#)
Brodianski V.M., Alexeev A.
- ❑ [Cryogenics in Russia \(Plenary Invited Paper\)](#)
Alexeev A., Klipping G.
- ❑ [Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator](#)
Makida Y., Doi Y., Haruyama T., Kimura N., Kobayashi T., Nakamoto T., Ogitsu T., Ohhata H., Yamamoto A.
- ❑ [Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC](#)
Hsiao F. Z., Li H. C., Chiou W. S., Chang S. H., and Chen J. R.
- ❑ [The Cryogenic System of BESIII in Preliminary Design](#)
Liu L., Zhu Z., Han S., Makida Y., Yamaoka H., Tsuchiya K., Liang W., Gong L., Zhang L.
- ❑ [A Retrospect on the Successful Commissioning of the Linde 18kw Refrigerators for the LHC Particle Accelerator at CERN](#)
Kuendig A., Chromec B., Fleck U., Voigt Th.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

▣ Helium Refrigeration System for Wendelstein 7-X

Kuendig A., Schauer F., Bozhko Y., Dhard C.P.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Cryogenic Systems and Test Facilities

- ❑ [Cryogen free refrigeration to 270mK by adiabatic expansion of He³ gas \(Plenary Invited Paper\)](#)

Mikheev V., Noonan P., Adams A.

- ❑ [Development of the Cryogenic Ground Support Equipment \(CGSE\) for the Superconducting Magnet of the Alpha Magnetic Spectrometer \(AMS-02\)](#)

Gu A., Grechko A., Harrison S., Hofer H., Lin W., Shi Y., Ting S.C.C., Vostrikov S., Wang R.

- ❑ [Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle](#)

Weber T. B., Candia A., Howell G., Racine M., Weisend II J.G.

- ❑ [Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan](#)

Fan Y.F., Gong L.H., Xu X-D., Li L.F., Zhang L., Xiao L.Y.

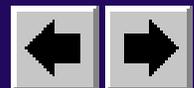
- ❑ [Cryogenic Facility Design in BEPCII Superconducting Upgrade](#)

Jia L.X., Wang L., Yang G.D., Liu X.K., Zhang X.B., Tang H.M., Du H.P., Xing Z.H., Liu C.S., Han G., Xu F.Y., Wang T.H., Yang C.Z., Xiao H., Liu D., Shi L.H., Huang M.X., Gai X.Y., Xu F.Y., Ji Z.M., Jiang W., Yao Z.L., Chen A.B.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

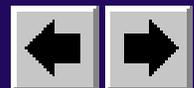
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **First Cold Test of the ISAC-II Medium Beta Cryomodule**
Sekachev I., Laxdal R.E., Marshall C., Ries T., Stanford G.
- ❑ **Experimental Study of Self-Pressurizing Transfer System
Cryogenic Liquid**
Li Q.F., Chen G.B., Xie X.M., Bao R.
- ❑ **Design of a Cooling System for the Cold Test of the ITER TF
Coils Before Installation**
Zahn G.R., Duchateau J.L., Fietz W.H., Gravil B., Heller R., Millet F., Nicollet S., Chesny P.
- ❑ **Study on Key-Tech Problems in Development of a Cold
Neutron Source in China Advanced Research Reactor**
Feng Q.K., Yu Q.F., Zhao C., Shen F., Yuan L.Z.
- ❑ **Experiences from the Operation Tests with the ITER Model
Pump**
Haas H., Antipenkov A., Day Chr., Dremel M., Mack A., Murdoch D.K.
- ❑ **Design of Cryogenic System for the KSTAR Device**
Kim Y. S., Chang H. S., Cho K.W., Gistau Baguer G., Bak J. S., Lee G. S., Briend P.,
Fuenzalida P., Fossen A.
- ❑ **Air Liquide Cryogenic System for the KSTAR Device**
Briend P., Dauget P., Delcayre F., Abe I., Fauve E., Fossen A., Fuenzalida P., Lee L.A.,
Gistau G., Kim Y.S., Cho K.W., Chang H.S.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ❑ **Cryogenic System for BEPCII SRF Cavity IR Quadrupole and Detector Solenoid Magnets**

Jia L.X., Wang L.

- ❑ **Status of the ISAC-II Cryogenic System**

Sekachev I., Andersson W., Laxdal R.E., Marshal C., Stanford G.

- ❑ **Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications**

Caillaud A., Bonneton M., Delcayre F., Grabié V., Grillot D., Hilbert B., Praud A., Walter E.

- ❑ **Standard Liquefier-Test Results with Improved Turbines**

Schoenfeld H., Creteigny D., Loehlein K.

- ❑ **Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat**

Wang L., Tang H.M., Zhang X.B., Yang G. D., Jia L.X.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Coolers

- ❑ [Recent developments in cryocoolers in Europe \(Invited\)](#)
Ravex A., Trollier T.
- ❑ [Experimental Study on a Split-Type Free-Piston Stirling Cooler for Space Applications](#)
Zhang W., Wu Y., Lu G.H.
- ❑ [The Effects of the Clearance at Expander on the Performance of the Stirling Refrigerator](#)
Yong J. H., Deuk Y. K., Seong J. P., Hyo B. K., Young D. C.
- ❑ [Novel Regenerator Design and its Experimental Characteristics](#)
Kwanwoo N., Sangkwon J.
- ❑ [Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices](#)
Fang Z.C., Su X.T., Liu L.Q., Gong L.H., Zhang L.
- ❑ [Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube](#)
Qi Y.F., Gong M.Q., Sun Z.H., Luo E.C., Wu J.F.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

❑ **An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges**

Liu J.Y., Gong M.Q., Wu J. F., Cao Y., Luo E.C.

❑ **Performance of Different Throttle Refrigeration Cycles**

Gong M.Q., Wu J.F.

❑ **A 70 K J-T Cryocooler Based on the Fractional Mixed-Refrigerant Cycle**

Gong M.Q., Wu J.F.

❑ **Development of a Cryogenic Water-Trap Based on the Recuperative Mixture Refrigeration Cycle**

Gong M.Q., Wu J.F., Hu Q.G.

❑ **Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source**

Lu D.W., Wu H.B., Yuan G.Q., Han Y.S., Xu X.N., Jin X., Wu W.

❑ **Properties of Thermoelectric Device with $(\text{Bi}_x\text{Sb}_{1-x})_2(\text{Te}_y\text{Se}_{1-y})_3$ Materials**

Liu H.J., Li G., Li L.F.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Pulse Tube Coolers

- ❑ [Future Trend of Pulse Tube Cryocooler Research \(Plenary Invited Paper\)](#)
Matsubara, Y.
- ❑ [Performance of a Pulse Tube Cryocooler with Two Separate Stages using \$^3\text{He}\$ in the Second Stage](#)
Jiang N., Lindemann U., Chen G.B., Thummes G.
- ❑ [Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators](#)
Wang X.L., Zhao M.G., Cai J.H., Liang J.T., Zhou Y.
- ❑ [Experimental Investigation on DC Flow Suppression and Refrigeration Characteristics of a High-Performance Single-Stage GM-Type PTC](#)
Jiang Y.L., Chen G.B., Thummes G.
- ❑ [Use of Ceramic Part in G-M Refrigerator](#)
Su X.T., Fang Z.C., Gong L.H., Li L.F., Zhang L.
- ❑ [Experiment on a Single-stage GM Type Pulse Tube Cryocooler near 20K](#)
Gan Z.H., Liu H.Z., Cheng Z.Z., Qiu L.M., Chen G.B.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

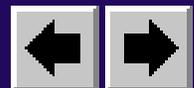
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Design and Test of a 80 K Miniature Pulse Tube Cryocooler**
Zhao M.G., Wang X.L., Hou X.F., Liang J.T., Cai J.H., Zhou Y.
- ❑ **Development of the 3.5 W at 80 K High-Frequency Pulse Tube Cryocooler**
Jing W., Wang G.P., Liang J.T., Cai J.H.
- ❑ **The Effect of Timing Ratio of Injecting to Rejecting on G-M Type PTC's Cooling Temperature**
Wang Y.Y., Cai J.H., Liang J.T.
- ❑ **Comparison of Oscillating Flow Characteristics of a Metallic and a Nonmetallic Regenerators at High Frequencies**
Wang X.L., Dang H.Z., Cai J.H., Liang J.T., Zhou Y.
- ❑ **Analysis of Inertance Tube in the Pulse Tube Refrigerator**
Chen N., Yang C.G., Xu L., Xu R.P.
- ❑ **Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler**
Karunanithi R., Jacob S., Kasthuriengan S., Durgesh Nadig, Upendra Behera, Tamizhanban K.
- ❑ **Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)**
Liu Y.W., He Y.L., Huang J., Li X.Z., Chen C.Z.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

❑ **Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium Compressor**

Kasthuriangan S., Jacob S., Karunanithi R., Upendra Behera, Nadig D.S.,
Anand Bahuguni

❑ **Experimental Investigation on the Performances of Gas Flow in Oscillating Tube**

Li Z.C., Xu L.

❑ **Optimal Vector Analysis of the Phase Shifter in the Pulse Tube Refrigerator**

Chen N., Yang C.G., Xu L.

❑ **Characteristics of 4 K Pulse Tube Cryocoolers in Applications**

Wang C.

❑ **Experimental Investigation on Heat Transfer Performance of a Cryogenic Thermosyphon**

Li W.Z., Qiu L.M., Zhang X.J., Chen P., He Y.L.

❑ **Reduction of Convective Heat Losses in Pulse Tube Refrigerators by Additional DC Flow**

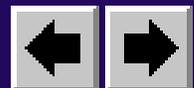
Shiraishi M., Fujisawa Y., Murakami M., and Nakano A.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

- ❑ **Interference Characterization of Stirling-Type Nonmagnetic and Nonmetallic Pulse Tube Cryocoolers for High-Tc SQUIDs Operation**
Dang H.Z., Liang J.T., Ju Y.L., Zhou Y.
- ❑ **Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector**
Haruyama T., Tomaru T., Suzuki T., Shintomi T., Sato N., Yamamoto A., Ikushima Y., Li R., Akutsu T., Uchiyama T., Miyoki S.
- ❑ **Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator**
Huang Y.H., Chen G.B., Gan Z.H., Tang K., Bao R.
- ❑ **Three Dimensional Numerical Computation of the Flow Field in a Pulse Tube**
Ding W.J., He Y.L., Tao W.Q.
- ❑ **Comparison of the Performance of Regenerators to Counterflow Heat Exchangers**
Will M.E., de Waele A.T.A.M.
- ❑ **Temperature Hysteresis in a GM-Type Orifice Pulse Tube Refrigerator**
Gan Z.H., Thummes G.

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Thermo-Acoustic Refrigeration System

- ❑ **Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load**
Tang K., Chen G.B., Jia Z.Z., Jiang N., Bao R.
- ❑ **Lattice Gas Modeling of Thermoacoustic Oscillations**
Zhang X. Q., Chen Y., Liu X.
- ❑ **Characteristics of a Miniature Pulse Tube Cooler Driven by Thermoacoustic Standing Wave Engine**
Dai W., Luo E.C., Zhou Y., Zhu W.X.
- ❑ **Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator**
Chen X., Li Q., Li Z. Y., Yu Z. B., Xie X.J.
- ❑ **Basic Operation Principle of a Novel Cascade Thermoacoustic Prime Mover**
Luo E., Dai E., Ling H.
- ❑ **Study on a Linear Compressor with Metal-Bellow Replacing Conventional Cylinder-Piston Unit**
Wu Z., Luo E., Dai W., Hu J.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

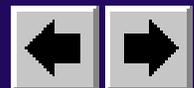
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Analytical Model for Onset Temperature Difference of Thermoacoustic Stirling Prime Movers**
Hu J., Luo E., Ling H.
- ❑ **Two-Dimensional Numerical Simulation of the Inertance Tube**
Zhang Y., Dai W., Luo E., Radebaugh R., Lewis M.
- ❑ **Numerical Simulation on a Novel Cascade Thermoacoustic Prime Mover**
Ling H., Luo E., Dai W., Li X.
- ❑ **New Perspective on Thermodynamic Cycles of Oscillating Flow Regenerators**
Luo E., Dai W., Radebaugh R.
- ❑ **Experimental Investigation on a Room-Temperature Traveling-Wave Thermoacoustic Refrigerator**
Huang Y., Luo E., Dai W., Wu Z.
- ❑ **Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method**
Fan L., Wang B. R., Jin T., Shen Y., Zhang S. Y.
- ❑ **Stack and Frequency's Coupling Characteristic Analysis in Thermoacoustic Systems**
Zhang F. Z., Jiang R.Q., Li Q., Chen X.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

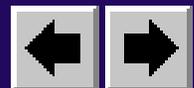
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator**
Tu Q., Chen Z.J., Liu J.X., Zhang X.Q., Li Q., Guo F.Z.
- ❑ **Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic engine**
Yu Z. B., Li Q., Chen X., Guo F. Z., and Xie X. J.
- ❑ **Investigation on Acoustic Characteristics of Regenerator in the Thermoacoustic Apparatus**
Xie X. J., Li Q., Chen X., Yu Z. B.
- ❑ **Discussion on Resonant Frequency in Thermoacoustic Systems**
Jin T., Fan L., Zhang B.S., Wang B.R., Chen G.B.
- ❑ **Figure of Merit for Regenerator Working in Acoustic Field (Invited)**
Guo F.Z.
- ❑ **Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine**
Duthil P., Bretagne E., Wu J., François M.-X., Li Q.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ❑ [Investigation on a Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K](#)
Qiu L.M., Sun D.M., Yan W.L., Chen P., Gan Z.H., Chen G.B.
- ❑ [Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators](#)
Luo E., Radebaugh R., Dai W., Lewis M., Wu Z., Zhang Y.
- ❑ [Thermoacoustically Driven Pulse Tube Refrigeration Below 90K](#)
Tang K., Chen G.B., Jin T., Bao R.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Space Cryogenics

- ❑ [Study on Electricity Generation Performance of Thermoelectric Device in Extreme Environmental Conditions](#)
Wu Z.-L., Zhou Y.-X., Li T., Liu J.
- ❑ [Experimental Investigation on He II Porous Plug Liquid-Vapor Phase Separator](#)
Yu X., Li Q., Li Z., Li Qiang
- ❑ [Novel Cryogenic Motion Control for Aerospace](#)
Cao Z.T., Chen H.P., He G. G., Cai J. J.
- ❑ [Spitzer Space Telescope Thermal/Cryogenic System Flight Performance](#)
Paul T. Finley, Richard A. Hopkins, and Russell B. Schweickart
- ❑ [Thermal Validation of the Design of the CFRP Support Members to be Used in the Spatial Framework of the Herschel Space Observatory](#)
McDonald P.C., and Jaramillo E.
- ❑ [Development and Testing of a Novel Thermal Switch](#)
You J.G., Dong D.P., Wang W.Y., Li Z.W.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ❑ **Cryocoolers Development and Integration for Space Applications at Air Liquide**
Ravex A., Trollier T., Sentis L., Durand F., Crespi P.
- ❑ **Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites**
Duval S., Bravais P., Courty J.C., Crispel S., Marot G.
- ❑ **Thermal Analysis of Cryogenic Rocket Engine with One, Two and Three Dimensional Approaches**
Kuzhiveli B.T., Ghosh S.C., Kuruvila G. K., Gandhi V.G.
- ❑ **Liquid Hydrogen Droplet Generation from a Vibrating Orifice**
Xu J.Q., Celik D., Yousuff Hussaini M., Van Sciver S .W.
- ❑ **The Working Performance of Radiant Cooler in Thermal Vacuum Test**
Xu H.Y., Dong D.P., Wang W.Y., Li Z.
- ❑ **A Study on the Conic Support in the Radiant Cooler**
Fu L.Y., Tu F.H., Wang W.Y.
- ❑ **Analysis of the Influences of View Angle on Paraboloid W Style Radiant Cooler's Working Performance**
Wang X.J., Pan Y.P., He Y.L., Chen C.Z.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Cryogenic Components and Machinery

- ❑ [Simple Method for Calculation of Cryogenic Transfer Line Cool Down](#)
Alexeev A., Pelle Th.
- ❑ [Study of New Aerodynamic Foil Thrust Gas Bearing with Elastic Support for Cryogenic Turbo-Expander](#)
Chen C.Z., Lin S.N., Hou Y., Zhu Z.H.
- ❑ [Design of Small Turbo Brayton Cycle Air Refrigerator Test Rig](#)
Hou Y., Sun Y., Wang J., Chen C.Z.
- ❑ [Analysis of Centrifugal Stresses in the Rotor of a Cryogenic Turboexpander](#)
Parthasarathi Ghosh, Sunil Kr Sarangi
- ❑ [Study of Temperature Distribution of Flat Steel Ribbon Wound Cryogenic High-Pressure Vessel](#)
Cui X. L., Chen G. M.
- ❑ [The Design and Study of a Reciprocating Helium Compressor](#)
Lei G., Gong L-H., Lu W-H., Zhang L.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

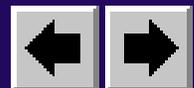
Superconductor Behaviour

- ❑ [Strain Effects on the Critical Current of Bi-2223/Ag Tape](#)
Wu Y. L., Wang Z. D., Xiong Y. F.
- ❑ [Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities](#)
Wen H.M., Singer X., Singer W., Proch D., Vogel E., Hui D.
- ❑ [AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables](#)
Funaki K., Iwakuma M., Kajikawa K., Hirano N., Nagaya S., Ohtani N., Hasegawa T.
- ❑ [Property of Joint Resistance of Bi-2223 Multi-Filament Tape by Using Sn-Pb Solder](#)
Gu C., Zhuang C., Zhang J.Y., Qu T.M., Han Z.
- ❑ [Quench Characteristics of High- \$T_c\$ Superconducting Tape for Alternating Over-Current Using DFT](#)
Lim S.H., Yim S.W., Lee J.H., Ko S.C., Hwang S.D., Han B.S.
- ❑ [Dip-Coated \$YBa_2Cu_3O_{7-x}\$ Films on Ag Substrate by MOD Method](#)
Dong J., Liu M., Liu D.M., Zhao Y., Liang J.X., Sheng J.L., Suo H.L., Zhou M.L.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

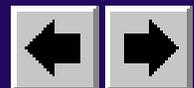
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film
Liu M., Liu D. M., Dong J., Zhao Y., Sheng J., Liang J. X., Suo H. L., Zhou M. L.
- ❑ Boiling Heat Transfer to Liquid Nitrogen Pool from Ag Sheathed PbBi2223 Tapes Carrying Over-Current
Bailey W., Young E.A., Yang Y., Beduz C.
- ❑ Equivalent Circuit Model for High- T_c Superconducting Flux Flow Transistor with a Dual-Gate Structure
Ko S-C., Kang H-G., Lim S-H., Lee J-H., Han B-S.
- ❑ Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System
Cao G. X., Zhang J. C., Li P. L., Yu J., Wang S. P., Jing C., Cao S. X., Shen X.C.
- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites
Zhang J. C., Cao G. X., Sha Y. N., Wang S. P., Yu J., Jia G. Q., Jing C., Cao S. X., Shen X. C.
- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample
Cao S.X., Wang X.Y., Zhang Y.F., Yu L.M., Jing C., Zhang J.C., and Shen X. C.

Click on title for a paper.



Papers by Session

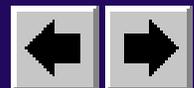
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy**
Liu Y.S., Zhang J.C., Jia G.Q., Zhang X.Y., Ren Z.M., Jing C., Li X., Cao S.X., Deng K.
- ❑ **Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement**
Ruan K. Q., Yu Y., Huang S. L., Li H. L., Qian S., Cao L. Z.
- ❑ **Design of a Cryogenic Giant Magnetostrictive Actuator Using HTS**
Cai J.J., Cao Z.T., Chen H.P., He G.G.
- ❑ **A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link**
Lu D.W., Wu H.B., Yuan G.Q., Han Y.S., Xu X.N., Jin X.
- ❑ **Extended Power Law of Nonlinear Transport Properties of Superconducting Materials**
Ning Z.H., Hu X., Yin D.L., Qi Z., Wang F.R., Guo J.D., Li C.Y.
- ❑ **AC Loss Characteristics of HTS Tapes Subject to Bending Strains**
Tsukamoto O., Ogawa J., Suzuki H.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

LTS Superconducting Devices

❑ [EAST Superconducting Tokamak Device \(Plenary Invited Paper\)](#)

Weng P. D. and EAST team

❑ [Challenges of Large Scale Superconducting Accelerators \(Plenary invited paper\)](#)

Proch D.

❑ [Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement](#)

Watanabe K., Nishijima G., Awaji S., Takahashi K., Miyoshi K., Megro S., Ishizuka M., Hasebe T.

❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

della Corte A., Affinito L., Chiarelli S., Gislon P., Messina G., Muzzi L., Pasotti G., Turtù S., Mariani M., Matrone A., Rossi S.

❑ [Multi-Tube Power Leads Tower for BEPCII IR Magnets](#)

Jia L.X., Zhang X.B., Wang L., Wang T.H., Yao Z.L.

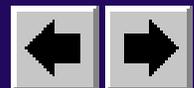
❑ [The MICE Focusing Solenoids and Their Cooling System](#)

Green M. A., Barr G., Lau W., Senanayake R. S., Yang S. Q.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

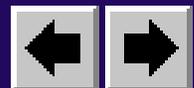
- ❑ **Evaluation of the ITER Cable in Conduit Conductor Heat Transfer Coefficient**
Nicollet S., Ciazynski D., Duchateau J.L., Lacroix B., Renard B.
- ❑ **The BESIII Detector Magnet**
Zhu Z., Zhao L., Wang L., Hou Z., Huang S., Yang H., Hu J., Zhou J., Han S., Yi C., Chen H., Xu Q., Liu L., Makida Y., Yamaoka H., Tsuchiya K., Wang B., Wahrer B., Taylor C., Chen C.
- ❑ **Stability Analysis for Cryocooled Aluminum-Stabilized Superconducting Magnet**
Liu H.W., Wang Q.L., Yu Y.J., and Bai Y.
- ❑ **Thermal Design of BESIII Magnet**
Xu Q., Zhu Z., Liu L., Wang S., Yi C., Chen H., Zhang L.
- ❑ **A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet**
Dai Y.M., Blau B., Hofer H., Yu Y.J., Wang Q.L.
- ❑ **Numerical Simulation on Thermal Stress and Magnetic Force of Current Leads in BEPCII**
Zhang X.B., Jia L.X.
- ❑ **Design and Manufacture of a Low Current ADR Magnet for Space Application**
Brockley-Blatt C., Harrison S., Hepburn I., McMahon R., Milward S., Stafford Allen R.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ▣ [Study of Stress, Strain in Super-Conducting Magnet by Fiber-Bragg Grating](#)

Feng Z.A., Wang Q.L., Dai F., Huang G.J.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

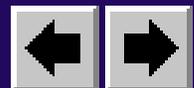
HTS Superconducting Devices

- ❑ [Design Study of Conduction-Cooled High Temperature Superconducting Magnet](#)
Wang Q.L., Huang H., Song S.S., Dai Y.M., Zhao B.Z., Yun Y.J., Yan L.G.
- ❑ [Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer](#)
McMahon R., Harrison S., Milward S., Stafford Allen R., Hofer H., Ulbricht J., Viertel G., Ting S.C.
- ❑ [Normal Transition in YBCO Thin Film and its Effect on Current Limiting Characteristics](#)
Onishi T., Sasaki K., Kayoda T.
- ❑ [Characterization of the Quenching Process and the Protection of an AC High Temperature Superconductor Coil](#)
Li X. H., Wang Y. S., and Xiao L. Y.
- ❑ [Technical Analyses of HTS Bulk Used in a Rotating Machine](#)
Qiu M., Huo H.K., Xu Z., Yao Z.H., Xia D., Lin L.Z.
- ❑ [Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter](#)
Cho S., Yang H.S., Kim D.L., Jung W.M., Kim D.H., Kim H.R., Hyun O.B.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ❑ **LN2 Forced Flow Cooling on HTS Power Cables**
Koh D-Y, Yeom H-K, Lee K-S
- ❑ **Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method**
Song F.C., Zhang G.Q., Chen B., Yu S.Z., Gu G.B.
- ❑ **Development and Testing of 10.5kV/1.5kA HTS Power Cable**
Lin Y. B., Gao Z.Y., Ning Z., Dai S. T., Teng Y. P., Xu L., Lin L. Z., Xiao L. Y.
- ❑ **Study on a Hybrid Superconducting Magnetic Bearing System**
Fang J.R., Lin L.Z., Yan L.G.
- ❑ **Electromagnetic Design and Analysis of a PM Motor with HTS Bulk**
Huo H. K., Qiu M., Xia D., Xu Z., Lin L.Z.
- ❑ **Finite-Element Simulation of HTS Bulk Reluctance Motor**
Xu Z., Qiu M., Yao Z.H., Xia D.
- ❑ **A Current Compensation Type Superconducting Fault Current Limiter**
Chen D.F., Zhao C.H., Xiao L.Y.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

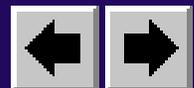
- ❑ **Evaluation on Power System Transient Stability with Resistor Type SFCL and Parameter Design**
Ye Y., Xiao L.Y.
- ❑ **Effects of Bias Power Supply on Bridge Type Superconducting FCL**
Zhang Z.F., Xiao L.Y.
- ❑ **20kA HTS Current Leads for EAST Tokamak Project**
Bi Y.F., Chen X.Q., Ma D.K., Liu X.L., Wu S.T., Li J.G.
- ❑ **Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator**
Chen B., Zhang G.Q., Song F.C., Yu S. Z., Gu G.B.
- ❑ **A Prototype 4m, 2kA, AC HTS Power Cable System**
Xi H.X., Hou B., Bi Y.F., Yang X.C., Ding H.K., Xin Y.
- ❑ **Development of a Three-Phase HTS Power Transformer**
Wang Y.S., Zhao X., Li H.D., Han J.J., Xiao L.Y., Lin L.Z., Guan Y., Bao Q., Lu G.H., Zhu Z.Q., Xu X., Lu Y., Dai S.T., Hui D.
- ❑ **Thermal Stability and Quench Propagation in a Cryocooler-Cooled Pancake Coil of Bi-2223 Tape Operating Between 35K and 65K**
Johnstone A.P., Yang Y., Beduz C.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

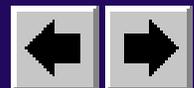
- ❑ **A New Concept of Bridge Fault Current Limiter-SMES for Interline Application to Improve Power Quality**
Zhao C.H., Xiao L.Y., Lin L.Z., Yu Y.J.
- ❑ **Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES**
Zhao C.H., Zhang Y.G., Li S., Huang X.H., Chen D.F., Xiao L.Y., Lin L.Z., Yu Y.J.
- ❑ **Fabrication and Characterization of Bi-2223 Coils for Generator Applications**
Xu B., Al-Mosawi M.K., Yang Y., Beduz C.
- ❑ **Shape Optimization of HTS Magnets Using Hybrid Genetic Algorithms**
Wang C., Wang Q.L.
- ❑ **An Adaptive Neuro-Fuzzy Control Strategy for the Bridge Type Superconducting Fault Current Controller**
Guo W.Y., Zhao C.H., Xiao L.Y.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Applications

- ❑ **Cryoelectronics – An Experimental Examination of the Behaviour of Power Electronic Devices at Low Temperatures**
Hawley C.J., Gower S.A.
- ❑ **Operational Amplifiers in the Temperature Range from 300 to 4 K**
Nawrocki W., and Pająkowski J.
- ❑ **Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes**
Jacob S., Kasthuriengan S., Karunanithi R., Upendra Behera, Nadig D. S.
- ❑ **A Cryostat with Optics Windows for Study of ICF Cryogenics Target**
Liu Y., Zhu Y. Q., Jiang C., Zhou G.
- ❑ **Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target**
Zhou G., Zhu Y. Q., Liu Y., Jiang C., Li Q.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Gas Liquefaction and Separation

- ❑ [Optimization Analysis of Peakshaving Cycle to Liquefy the Natural Gas](#)
Shi Y., Gu A., Wang R., Zhu G.
- ❑ [The Experimental Study on the Performance of a Small-Scale Oxygen Concentrator by PSA](#)
Zhang Y.W., Wu Y.Y., Gong J.Y., Zhang J.L.
- ❑ [The Thermodynamic Analysis and Adjusting Methods for Reliquefaction Plant on Board LEG carriers](#)
Zhao Z.L., Jiang A.L., Xiong L.L.
- ❑ [A Study of the Optimum Temperature for Hydrogen Storage on Carbon Nanostructures](#)
Zheng Q.R., Gu A.Z., Lu X.S., Lin W.S.
- ❑ [Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes](#)
Jacob S., Upendra Behera, Paul P. J., Kasthuriangan S., Karunanithi R., Ram S. N., Dinesh K.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

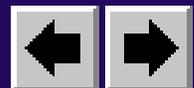
Heat Transfer and Thermal Insulation

- ❑ [Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation](#)
Rousset B., Thibault P., Perraud S., Puech L., Wolf P. E., van Weelderen R.
- ❑ [Design Consideration Validation of Cryo-Components for Current Feeder System of SST-1 Using Flexibility Analysis](#)
Gupta N.C., Sarkar B., Gupta G., and Saxena Y.C.
- ❑ [Contractible Thermosyphon for Conduction Cooled Superconducting Magnets](#)
Noh C., Kim S., Jeong S., Jin H.
- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)
Sarkar B., Gupta N. C., Sahu A. K., Bansal G., Pradhan S., Dhard C. P., Misra Ruchi, Panchal Pradip, Tank Jignesh, Gupta G., and Saxena Y.C.
- ❑ [Investigation of Header Configuration and its Effect on Flow Maldistribution in Plate-Fin Heat Exchanger](#)
Wen J., Li Y.Z., Zhang K.
- ❑ [Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling](#)
Qiu L.M., Li W.Z., Gan Z.H., Zhang X.J., Jiao B., Chen G.B., Yang C.J.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

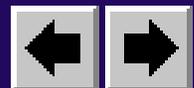
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Film Boiling Modes in Weakly Subcooled He II Around Lambda Pressure**
Nozawa M., Kimura N., Murakami M., Zhang P.
- ❑ **Modeling of Multilayer Vacuum Insulation – Complexity Versus Accuracy**
Chorowski M., Polinski J.
- ❑ **Experimental Study of the Narrow Channel Heat Transfer In Liquid Nitrogen**
Zhang P., You G. C., Ren X., Wang R. Z.
- ❑ **Observation of Various Boiling States in Nearly Saturated He II**
Zhang P., Murakami M., Nozawa M.
- ❑ **Heat Transfer During Natural Convective Boiling in a Vertical Uniformly Heated Closed Tube Submerged in Saturated Helium**
Baudouy B.
- ❑ **Several Problems in the Thermal Contact Resistance Research of Solid Interfaces at Low Temperature**
Xu L., Li Z.C.
- ❑ **Investigation of Thermal Insulation for HTS Cable Systems**
Kim D. H., Kim D. L., Yang H. S., Jung W. M., Hwang S. D.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures**
Sun Z.H., Gong M.Q., Qi Y.F., Luo E.C., Wu J.F.
- ❑ **Modeling the Thermal Mechanical Behavior of a 300 K Vacuum Vessel that is Cooled by Liquid Hydrogen in Film Boiling**
Yang S. Q., Green M. A., and Lau W.
- ❑ **Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature**
Xu R.P., Feng H.D., Jin T.X., Xu L., Zhao L.P.
- ❑ **Study of Two Phase Flow Distribution and its Influence in a Plate-Fin Heat Exchanger**
Xu Q., Li Y.Z., Zhang Z.
- ❑ **A Thermodynamic Optimization of Counterflow Recuperative-Type Heat Exchangers**
Wang Q., Zhang H. F., Chen G. M.
- ❑ **A New Type of Condenser-Evaporator Safely Operated in Large Air Separation Plant**
Wu Y.Y., Chen L.F., Wu T.H.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

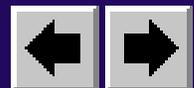
20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ **Heat Transfer in Gas Filled Pipes with Closed Warm End Under Different Orientations**
Hieke M., Haberstroh Ch., Quack H.
- ❑ **Normalized Representation for Steady State Heat Transport in a Channel Containing He II Covering Pressure Range Up to 1.5 Mpa**
Sato A., Maeda M., Yuyama M., and Kamioka Y.
- ❑ **Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System**
Schauer F., Nagel M., Bozhko Y., Pietsch M., Shim S.Y., Kufner F., Leher F., Binni A., Posselt H.
- ❑ **Modeling Free Convection Flow of Liquid Hydrogen within a Cylindrical Heat Exchanger Cooled to 14K**
Yang S. Q., Green M. A., Lau W.
- ❑ **Experiment on Natural Convection of Subcooled Liquid Nitrogen**
Yean S-C., Chang H-M., Van Sciver S. W.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Cryogenics

- ❑ [Numerical Simulation of Flow Boiling of Cryogenic Liquids in Tubes](#)
Li X.D., Wang R.S., Gu A.Z.
- ❑ [A Density Equation for Saturated Helium-3](#)
Li X.Y., Huang Y.H., Chen G.B., Arp V.
- ❑ [The Characterization of Carbon Nanofibres Based on N₂ Adsorption Isotherms at 77K](#)
Zhang C., Lu X.S., Gu A.Z.H.
- ❑ [Experimental Investigation into Storage of Confined Cryogenic Liquids without Evaporation Venting](#)
Huang Z., Wang R., Shi Y., Gu A.
- ❑ [Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar](#)
Zhu H. M., Jin T. X., Xu L., Sun H., Xiao Y. M.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

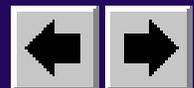
Properties of Materials at Cryogenic Temperatures

- ❑ [Development of Cryogenic Structural Materials \(Plenary Invited Paper\)](#)
Li L.F., Zhang Y.T., Li Y.Y.
- ❑ [Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature](#)
Li B., Wu B. M., Yang D. S., Zheng W. H., Cao L. Z.
- ❑ [Cryogenic Properties of Polymer Composite Materials – A Review](#)
Fu S. Y., Li Y., Zhang Y. H., Pan Q. Y., Huang C. J.
- ❑ [CRYOFLUIDS – A Software for Physical Property Data of Cryogenic Fluids](#)
P. Lalkoshti, Raja Banerjee, Abhijit Tarafder and Sunil Kr Sarangi
- ❑ [Discussion on Gibbons' Equation of State for Helium-3](#)
Huang Y.H., Chen G.B., Li X.Y.
- ❑ [An Internet-Based Working Fluid Properties Database](#)
Huang J., He Y.L., Zhang Y.W.
- ❑ [A New Process for the Preparation of Polyimide/Silica Hybrid Films](#)
Li Y., Fu S. Y., Pan Q. Y., Zhang Y. H., and Lin D. J.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Cryogenic Instrumentation and Process Control

- ❑ [Design of a Fibre Reinforced Plastic Anticryostat for Magnetorelaxometric Measurements](#)
Koettig T., Weber P., Prass S., Seidel P.
- ❑ [Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System](#)
Rawnsley W.R., Bylinski Y., Fong K., Laxdal R.E., Dutto G., Giove D.
- ❑ [Digital Temperature Sensors in the Range of 77-300 K](#)
Nawrocki W., Jurkowski A., and Pająkowski J.
- ❑ [Measurement of characteristic feature of cavitation flows of He I and He II](#)
Harada K., Tsukahara R., and Murakami M.
- ❑ [Application of PIV Technique to Cavitating Flows of Liquid Helium](#)
Tsukahara R., Murakami M., and Harada K.
- ❑ [Measurement of the Cryogenic Tensile Properties of Polymer Composites](#)
Pan Q.Y., Fu S.Y., Zhang Y.H., Li Y.

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

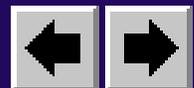
- ❑ **High Precise Thermopower Measurement System and its Applying to Organic Conductors $(\text{TMTSF})_2\text{ClO}_4$ in a Direction**
Chai Y. S., Yang H. S., Liu J., Zhu L., Cao L. Z.
- ❑ **Multichannel Temperature Monitor Compatible with PC**
Filippov Yu.P., Alpatov S.V., and Sveshnikov B.N.
- ❑ **Interchangeability of Diode Temperature Sensors for Various Nonstandard Excitation Currents**
Courts S., Yeager C.
- ❑ **The Laser Megajoule CryoTarget Thermal Regulation**
Lamaison V., Brisset D., Cathala B., Paquignon G., Bonnay P., Chatain D., Communal D., Périn J-P.
- ❑ **Discussion of the Protection of Pressure Vessels by Using Safety Valves-Rupture Disc-Combinations**
Süßer M.
- ❑ **New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project**
Mitin V.F., McDonald P.C., Pavese F., Boltovets N.S., Kholevchuk V.V., I.Yu. Nemish, Basanets V.V., Dugaev V.K., Sorokin P.V., Venger E.F., Mitin E.V.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Sessions

Click on title for a paper.



Papers by Session

Cryogenics in Medicine and Biology

- ❑ [Characteristic Studies of Sputter Deposited Cermet Cryogenic Heaters](#)
Yeager C., Courts S., Chapin L.
- ❑ [Study of Skin Burns Due to Contact with Cold Mediums at Extremely Low Temperature](#)
Deng Z-S., Liu J.
- ❑ [A New Method for Uniformly Cooling Engineered Tissues](#)
Yu L-N., Deng Z-S., Liu J., Zhou Y-X.
- ❑ [Comparative Analysis of the Cryogens Used in Cryomedical Applications](#)
Chorowski M., Piotrowska A.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Papers by Session

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

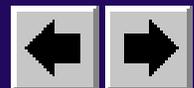
LHC

- ❑ **Measured Performance of Four New 18 kW@4.5 K Helium Refrigerators for the LHC Cryogenic System**
Gruehagen H., Wagner U.
- ❑ **Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC**
Dauguet P., Briend P., Delcayre F., Hilbert B., Mantileri C., Marot G., Monneret E., Walter E.
- ❑ **1.8 K Refrigeration Units for the LHC: Performance Assessment of Pre-series Units**
Claudet S., Ferlin G., Millet F., Tavian L.
- ❑ **The Application of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel**
Brodzinski K., Chorowski M., Gizicki W., Ostropolski W., Riddone G.
- ❑ **Numerical Study of the Final Cooldown from 4.5 K to 1.9 K of the Large Hadron Collider**
Riddone G., Liu L., Tavian L.
- ❑ **Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets**
Axensalva J., Benda V., Herblin L., Lamboy JP., Tovar-Gonzalez A., Vullierme B.

Main Menu

Sessions

Click on title for a paper.



Papers by Session

- ❑ **Control System and Operation of the Cryogenic Test Facilities for LHC Series Superconducting Magnets**
Axensalva J., Herblin L., Lamboy JP., Tovar-Gonzalez A., and Vullierme B.
- ❑ **Series Production of 13 kA Current Leads with Dry and Compact Warm Terminals**
Andersen T.P., Benda V., Vullierme B.
- ❑ **Experience with the String2 Cryogenic Instrumentation and Control System**
Gomes P., Balle Ch., Blanco E., Casas J., Pelletier S., Rodriguez M.A., Serio L., Suraci A., Vauthier N.
- ❑ **The Management of Cryogenics at CERN**
Delikaris D., Barth K., Passardi G., Serio L., Tavian L.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Sessions](#)

Click on title for a paper.



Authors

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z

Main Menu

Colored letters are active links to the index.

Authors

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

A

- [Abe I.](#)
- [Abhijit Tarafder](#)
- [Affinito L.](#)
- [Akutsu T.](#)
- [Alexeev A.](#)
- [Al-Mosawi M. K.](#)
- [Alpatov S.V.](#)
- [Anand B.](#)
- [Andersen T.P.](#)
- [Andersson W.](#)
- [Antipenkov A.](#)
- [Arp V.](#)
- [Awaji S.](#)
- [Axensalva J.](#)

B

- [Bai Y.](#)
- [Bailey W.](#)
- [Bak J.S.](#)
- [Bansal G.](#)
- [Bao Q.](#)
- [Bao R.](#)
- [Barr G.](#)
- [Barth K.](#)
- [Basanets V.V.](#)
- [Baudouy B.](#)
- [Beduz C.](#)
- [Benda V.](#)
- [Bi Y.F.](#)
- [Binni A.](#)
- [Blau B.](#)
- [Boltovets N.S.](#)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors

- Bonnay P.
- Bonneton M.
- Bozhko Y.
- Bravais P.
- Bretagne E.
- Briend P.
- Brisset D.
- Brockley-Blatt C.
- Brodzinski K.
- Bylinski Y.

C

- Cai J.H.
- Cai J.J.
- Caillaud A.
- Candia A.
- Cao G. X.
- Cao L. Z.
- Cao S. X.
- Cao Y.
- Cao Z.T.
- Cathala B.
- Chai Y. S.
- Chang H.S.
- Chang H-M
- Chapin L.
- Chatain D.
- Chen X.
- Chen A.B.
- Chen B.
- Chen C.
- Chen C.Z.
- Chen D.F.
- Chen G. M.
- Chen G.B.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors

- [Chen G.B.](#)
- [Chen G.M.](#)
- [Chen H.](#)
- [Chen H.P.](#)
- [Chen J. R.](#)
- [Chen L.F.](#)
- [Chen N.](#)
- [Chen P.](#)
- [Chen X.](#)
- [Chen X.Q.](#)
- [Chen Y.](#)
- [Chen Z.J.](#)
- [Cheng Z.Z.](#)
- [Chesny P.](#)
- [Chiarelli S.](#)
- [Chiou W. S.](#)
- [Cho K.W.](#)

- [Cho S.](#)
- [Choi Y.D.](#)
- [Chorowski M.](#)
- [Chromec B.](#)
- [Ciazynski D.](#)
- [Claudet S.](#)
- [Communal D.](#)
- [Courts S.](#)
- [Courty J.C.](#)
- [Crespi P.](#)
- [Creteigny D.](#)
- [Crispel S.](#)
- [Cui X.L.](#)

D

- [Dai E.](#)
- [Dai S.T.](#)

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors

- Dai W.
- Dai Y.M.
- Dang H.Z.
- Dauguet P.
- Day Chr.
- de Waele.A.T.A.M
- Delcayre F.
- Delikaris D.
- della Corte A.
- Deng K.
- Deng Z.S.
- Dhard C. P.
- Dinesh K.
- Ding H.K.
- Ding W.J.
- Dogan C.
- Doi Y.

- Dong D.
- Dong D.P.
- Dong J.
- Dremel M.
- Du H.P.
- Duchateau J.L
- Dugaev V.K.
- Durand F.
- Durgesh Nadig
- Duthil P.
- Dutto G.
- Duval S.

F

- Fan L.
- Fan Y.F.
- Fang Z.C.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Fauve E.
- Feng H.D.
- Feng Q.K.
- Feng Z.A.
- Ferlin G.
- Fietz W.H.
- Filippov Yu.P.
- Fleck U.
- Fong K.
- Fossen A.
- François M.X.
- Fu L.Y.
- Fu S. Y.
- Fuenzalida P.
- Fujisawa Y.
- Funaki K.

G

- Gai X.Y.
- Gan Z.H.
- Gandhi V.G.
- Gao Z.Y.
- Ghosh S.C.
- Giove D.
- Gislou P.
- Gistau Baguer G.
- Gistau G.
- Gizicki W.
- Gong J.Y.
- Gong L.
- Gong L.H.
- Gong M.Q.
- Gower S.A.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Grabié V.
- Gravil B.
- Grechko A.
- Green M. A.
- Grillot D.
- Gruehagen H.
- Gu A.
- Gu A.Z.
- Gu C.
- Gu G.B.
- Guan Y.
- Guo F. Z.
- Guo J.D.
- Guo W.Y.
- Gupta G.
- Gupta N. C.

H

- Haas H.
- Haberstroh Ch.
- Han B.S.
- Han G.
- Han J.J.
- Han S.
- Han Y.S.
- Han Z.
- Harada K.
- Harrison S.
- Haruyama T.
- Hasebe T.
- Hasegawa T.
- Hawley C.J.
- He G.G.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- He Y.L.
- Heller R.
- Hepburn I.
- Herblin L.
- Hieke M.
- Hilbert B.
- Hirano N.
- Hofer H.
- Hong Y.Z.
- Hou B.
- Hou X.F.
- Hou Y.
- Hou Z.
- Howell G.
- Hsiao F. Z.
- Hu J.
- Hu Q.G.
- Hu X.
- Huang C.J.
- Huang H.
- Huang J.
- Huang M.X.
- Huang S.
- Huang S. L.
- Huang X.H.
- Huang Y.
- Huang Y.H.
- Huang Z.
- Hui D.
- Huo H.K.
- Hwang S.D.
- Hyun O.B.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

I

- Ikushima Y.
- Ishizuka M.
- Iwakuma M.

J

- Jacob S.
- Jaramillo E.
- Jeong S.
- Jeong S.K.
- Ji Z.M.
- Jia G. Q.
- Jia L.X.
- Jia Z.Z.
- Jiang A.L.
- Jiang C.
- Jiang N.
- Jiang R.Q.
- Jiang W.
- Jiang Y.L.
- Jiao B.
- Jin H.
- Jin T.
- Jin T.X.
- Jin X.
- Jin X.
- Jing C.
- Jing W.
- Johnstone A. P.
- Ju Y.L.
- Jung W.M.
- Jurkowski A.

Main Menu

Authors

Click on a name for a list of papers.



Authors

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

K

- Kajikawa K.
- Kamioka Y.
- Karunanithi R.
- Kasthuriengan S.
- Kayoda T.
- Kholevchuk V.V.
- Kim D. H.
- Kim D. L.
- Kim H.B.
- Kim H.R.
- Kim S.
- Kim Y.S.
- Kimura N.
- Ko S.C.
- Kobayashi T.

- Koettig T.
- Koh D.Y.
- Kuendig A.
- Kufner F.
- Kuruvila G. K.
- Kuzhiveli B.T.

L

- Lacroix B.
- Lalkoshti P.
- Lamaison V.
- Lamboy JP.
- Lau W.
- Laxdal R.E.
- Lee G.S.
- Lee J.H.

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Lee K.S.
- Lee L.A.
- Leher F.
- Lei G.
- Lewis M.
- Li B.
- Li C.Y.
- Li G.
- Li H. C.
- Li H. L.
- Li H.D.
- Li J.G.
- Li L.F.
- Li P. L.
- Li Q.
- Li Q.F.
- Li R.
- Li S.
- Li T.
- Li W.Z.
- Li X.
- Li X. H.
- Li X.D.
- Li X.Y.
- Li X.Z.
- Li Y.
- Li Y.Z.
- Li Z.
- Li Z.C.
- Li Z.W.
- Li Z.Y.
- Liang J. X.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Liang J.T.
- Liang J.X.
- Liang W.
- Lim S.H.
- Lin D. J.
- Lin L. Z.
- Lin S.N.
- Lin W.
- Lin W.S.
- Lin Y. B.
- Lindemann U.
- Ling H.
- Liu C.S.
- Liu D.
- Liu D. M.
- Liu H.J.
- Liu H.W.
- Liu H.Z.
- Liu J.
- Liu J.X.
- Liu J.Y.
- Liu L.
- Liu L.Q.
- Liu M.
- Liu X.
- Liu X.K.
- Liu X.L.
- Liu Y.
- Liu Y.S.
- Liu Y.W.
- Loehlein K.
- Lu D.W.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Lu G.H.
- Lu W.H.
- Lu X.S.
- Lu Y.
- Luo E.
- Luo E.C.

M

- Ma D.K.
- Mack A.
- Maeda M.
- Makida Y.
- Mantileri C.
- Mariani M.
- Marot G.
- Marshall C.
- Matrone A.

- McDonald P.C.
- McMahon R.
- Megro S.
- Messina G.
- Millet F.
- Milward S.
- Misra Ruchi
- Mitin E.V.
- Mitin V.F.
- Miyoki S.
- Miyoshi K.
- Monneret E.
- Murakami M.
- Murdoch D.K.
- Muzzi L.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

N

- N. Sato
- Nadig D.S.
- Nagaya S.
- Nagel M.
- Nakamoto T.
- Nakano A.
- Nam K.
- Nawrocki W.
- Nemish I.Yu.
- Nicollet S.
- Ning Z.
- Ning Z.H.
- Nishijima G.
- Noh C.
- Nozawa M.

O

- Ogawa J.
- Ogitsu T.
- Ohhata H.
- Ohtani N.
- Onishi T.
- Ostropolski W.

P

- Pająkowski J.
- Pan Q. Y.
- Pan Y.P.
- Panchal Pradip
- Paquignon G.
- Park S.J.
- Parthasarathi G.

Main Menu

Authors

Click on a name for a list of papers.



Authors

- [Pasotti G.](#)
- [Passardi G.](#)
- [Paul P. J.](#)
- [Paul T. Finley](#)
- [Pavese F.](#)
- [Pelle Th.](#)
- [Périn J.P.](#)
- [Perraud S.](#)
- [Pietsch M.](#)
- [Piotrowska A.](#)
- [Polinski J.](#)
- [Posselt H.](#)
- [Pradhan S.](#)
- [Prass S.](#)
- [Praud A.](#)
- [Proch D.](#)
- [Puech L.](#)

Q

- [Qi Y.F.](#)
- [Qi Z.](#)
- [Qian S.](#)
- [Qiu L.M.](#)
- [Qiu M.](#)
- [Qu T.M.](#)
- [Quack H.](#)

R

- [Racine M.](#)
- [Radebaugh R.](#)
- [Raja Banerjee](#)
- [Ram S. N.](#)
- [Ravex A.](#)
- [Rawnsley W.R.](#)

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors

- Ren X.
- Ren Z.M.
- Renard B.
- Richard A. H.
- Riddone G.
- Ries T.
- Rossi S.
- Rousset B.
- Ruan K. Q.
- Russell B. S.

S

- Sahu A. K.
- Sarkar B.
- Sasaki K.
- Sato A.
- Saxena Y.C.

- Schauer F.
- Schoenfeld H.
- Seidel P.
- Sekachev I.
- Senanayake R. S.
- Sentis L.
- Serio L.
- Sha Y. N.
- Shen F.
- Shen X. C.
- Shen Y.
- Sheng J.
- Sheng J.L.
- Shi L.H.
- Shi Y.
- Shim S.Y.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Shintomi T.
- Shiraishi M.
- Singer W.
- Singer X.
- Song F.C.
- Song Sh.S.
- Sorokin P.V.
- Stafford Allen R.
- Stanford G.
- Steven W. V. S.
- Su X.T.
- Sun D.M.
- Sun H.
- Sun Y.
- Sun Z.H.
- Sunil K.S.

- Sunil Kr Sarangi
- Suo H. L.
- Süßer M.
- Suzuki H.
- Suzuki T.
- Sveshnikov B.N.

T

- Takahashi K.
- Tamizhanban K.
- Tang H.M.
- Tang K.
- Tank Jignesh
- Tao W.Q.
- Tavian L.
- Taylor C.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Teng Y. P.
- Thibault P.
- Thummés G.
- Ting S.C.C.
- Tomaru T.
- Tovar-Gonzalez A.
- Trollier T.
- Tsuchiya K.
- Tsukahara R.
- Tsukamoto O.
- Tu F.H.
- Tu Q.
- Turtù S.

U

- Uchiyama T.
- Ulbricht J.
- Upendra B.
- Upendra Behera

V

- Van Sciver S
- van Weelderen R.
- Venger E.F.
- Viertel G.
- Vogel E.
- Voigt Th.
- Vostrikov S.
- Vullierme B.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

W

- Wagner U.
- Wahrer B.
- Walter E.
- Wang B.
- Wang B.R.
- Wang B.R.
- Wang C.
- Wang F.R.
- Wang G.P.
- Wang J.
- Wang L.
- Wang Q.
- Wang Q.L.
- Wang R.
- Wang R. Z.
- Wang R.S.
- Wang S.
- Wang S. P.
- Wang T.H.
- Wang W.Y.
- Wang X.J.
- Wang X.L.
- Wang X.Y.
- Wang Y.S.
- Wang Y.Y.
- Wang Z. D.
- Watanabe K.
- Weber P.
- Weber T. B.

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Weisend II J.G.
- Wen H.M.
- Wen J.
- Will M.E.
- Wolf P. E.
- Wu B.M.
- Wu H.B.
- Wu J.
- Wu J.F.
- Wu S.T.
- Wu T.H.
- Wu Y. L.
- Wu Y.N.
- Wu Y.Y.
- Wu Z.
- Wu Z.L.

X

- Xi H.X.
- Xia D.
- Xiao H.
- Xiao L. Y.
- Xiao Y. M.
- Xie X. J.
- Xie X.M.
- Xin Y.
- Xing Z.H.
- Xiong L.L.
- Xiong Y. F.
- Xu B.
- Xu F.Y.
- Xu H.Y.
- Xu J.Q.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Xu L
- Xu Q.
- Xu R.P.
- Xu X.
- Xu X.D.
- Xu X.N.
- Xu Z.

Y

- Yamamoto A.
- Yamamoto A.
- Yamaoka H.
- Yan L.G.
- Yan W.L.
- Yang C.G.
- Yang C.J.
- Yang C.Z.

- Yang D.S.
- Yang G.D.
- Yang H.
- Yang H. S.
- Yang S. Q.
- Yang X.C.
- Yang Y.
- Yao Z.H.
- Yao Z.L.
- Ye Y.
- Yeager C.
- Yean S-C
- Yeom H.K.
- Yi C.
- Yim S.W.
- Yin D.L.
- You G. C.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- You J.G.
- Young E.A.
- Yousuff H. M.
- Yuan L.Z.
- Yu J.
- Yu L.M.
- Yu L.N.
- Yu Q.F.
- Yu S. Z.
- Yu X.
- Yu Y.
- Yu Y.J.
- Yu Z. B.
- Yuan G.Q.
- Yuyama M.

Z

- Zahn G.R.
- Zhang B.S.
- Zhang C.
- Zhang F. Z.
- Zhang G.Q.
- Zhang H. F.
- Zhang J. C.
- Zhang J.L.
- Zhang J.Y.
- Zhang K.
- Zhang L.
- Zhang P.
- Zhang S.Y.
- Zhang W.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- Zhang X.B.
- Zhang X.J.
- Zhang X.Q.
- Zhang X.Y.
- Zhang Y.
- Zhang Y. H.
- Zhang Y.F.
- Zhang Y.G
- Zhang Y.H.
- Zhang Y.W.
- Zhang Z.
- Zhang Z.F.
- Zhao B.Z.
- Zhao C.
- Zhao C.H.
- Zhao L.
- Zhao L.P.
- Zhao M.G.
- Zhao X.
- Zhao Y.
- Zhao Z.L.
- Zhao C.H.
- Zheng Q.R.
- Zheng W.H.
- Zhou G.
- Zhou J.
- Zhou M. L.
- Zhou Y.
- Zhou Y.X.
- Zhu G.
- Zhu H. M.
- Zhu L.

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on a name for a list of papers.



Authors

- [Zhu W.X.](#)
- [Zhu Y. Q.](#)
- [Zhu Z.](#)
- [Zhu Z.H.](#)
- [Zhu Z.Q.](#)
- [Zhuang C.](#)

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Abe I.

- ❑ [Air Liquide Cryogenic System for the KSTAR Device](#)

Abhijit Tarafder

- ❑ [CRYOFLUIDS – A Software for Physical Property Data of Cryogenic Fluids](#)

Affinito L.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

Akutsu T.

- ❑ [Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector](#)

Alexeev A.

- ❑ [Simple Method for Calculation of Cryogenic Transfer Line Cool Down](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Al-Mosawi M. K.

- ❑ Fabrication and Characterization of Bi-2223 Coils for Generator Applications

Alpatov S.V.

- ❑ Multichannel Temperature Monitor Compatible with PC

Anand B.

- ❑ Studies on a Single Stage GM type Pulse Tube Cryocooler Using an Indigenous Helium Compressor

Andersen T.P.

- ❑ Series Production of 13 kA Current Leads with Dry and Compact Warm Terminals

Andersson W.

- ❑ Status of the ISAC-II Cryogenic System

Antipenkov A.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Arp V.

- ❑ [A Density Equation for Saturated Helium-3](#)

Awaji S.

- ❑ [Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement](#)

Axensalva J.

- ❑ [Control System and Operation of the Cryogenic Test Facilities for LHC Series Superconducting Magnets](#)
- ❑ [Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets](#)

Bai Y.

- ❑ [Stability Analysis for Cryocooled Aluminum-Stabilized Superconducting Magnet](#)

Bailey W.

- ❑ [Boiling Heat Transfer to Liquid Nitrogen Pool from Ag Sheathed PbBi2223 Tapes Carrying Over-Current](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Bak J.S.

- ❑ [Design of Cryogenic System for the KSTAR Device](#)

Bansal G.

- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)

Bao Q.

- ❑ [Development of a Three-Phase HTS Power Transformer](#)

Bao R.

- ❑ [Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load](#)
- ❑ [Experimental Study of Self-Pressurizing Transfer System for Cryogenic Liquid](#)
- ❑ [Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator](#)
- ❑ [Thermoacoustically Driven Pulse Tube Refrigeration Below 90K](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Barr G.

- [The MICE Focusing Solenoids and Their Cooling System](#)

Barth K.

- [The Management of Cryogenics at CERN](#)

Basanets V.V.

- [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Baudouy B.

- [Heat Transfer During Natural Convective Boiling in a Vertical Uniformly Heated Closed Tube Submerged in Saturated Helium](#)

Beduz C.

- [Boiling Heat Transfer to Liquid Nitrogen Pool from Ag Sheathed PbBi2223 Tapes Carrying Over-Current](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Thermal Stability and Quench Propagation in a Cryocooler-Cooled Pancake Coil of Bi-2223 Tape Operating between 35K and 65K
- ❑ Fabrication and Characterization of Bi-2223 Coils for Generator Applications

Benda V.

- ❑ Series Production of 13 kA Current Leads with Dry and Compact Warm Terminals
- ❑ Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets
- ❑ Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan

Bi Y.F.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System
- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Binni A.

- ❑ Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Blau B.

- ❑ [A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet](#)

Boltovets N.S.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Bonnay P.

- ❑ [The Laser Megajoule CryoTarget Thermal Regulation](#)

Bonneton M.

- ❑ [Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications](#)

Bozhko Y.

- ❑ [Helium Refrigeration System for Wendelstein 7-X](#)
- ❑ [Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Bravais P.

- ❑ Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites

Bretagne E.

- ❑ Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine

Briend P.

- ❑ Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC
- ❑ Design of Cryogenic System for the KSTAR Device
- ❑ Air Liquide Cryogenic System for the KSTAR Device

Brisset D.

- ❑ The Laser Megajoule CryoTarget Thermal Regulation

Brockley-Blatt C.

- ❑ Design and Manufacture of a Low-Current ADR Magnet for a Space Application

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Brodzinski K.

- ❑ [The Applicability of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel](#)

Bylinski Y.

- ❑ [Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System](#)

Cai J.H.

- ❑ [Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators](#)
- ❑ [Design and Test of a 80 K Miniature Pulse Tube Cryocooler](#)
- ❑ [Development of the 3.5 W at 80 K High-Frequency Pulse Tube Cryocooler](#)
- ❑ [Comparison of Oscillating Flow Characteristics of a Metallic and a Nonmetallic Regenerators at High Frequencies](#)

Cai J.J.

- ❑ [Novel Cryogenic Motion Control for Aerospace](#)
- ❑ [Design of a Cryogenic Giant Magnetostrictive Actuator Using HTS](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Caillaud A.

- ❑ [Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications](#)

Candia A.

- ❑ [Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle](#)

Cao G. X.

- ❑ [Direct Observation of Percolation and Phase Separation in \$\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3\$ System](#)
- ❑ [The Reentrant Behaviour of Spin-Glass Phase in \$\(\text{La,Pr}\)_{0.5}\text{Ca}_{0.5}\text{MnO}_3\$ Manganites](#)

Cao L. Z.

- ❑ [High Precise Thermopower Measurement System and its Applying to Organic Conductors \$\(\text{TMTSF}\)_2\text{ClO}_4\$ in a Direction](#)
- ❑ [Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

- ❑ Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement

Cao S. X.

- ❑ Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System
- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites
- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample
- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Cao Y.

- ❑ An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges

Cao Z.T.

- ❑ Novel Cryogenic Motion Control for Aerospace
- ❑ Design of a Cryogenic Giant Magnetostrictive Actuator Using HTS

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Cathala B.

- ❑ [The Laser Megajoule CryoTarget Thermal Regulation](#)

Chai Y. S.

- ❑ [High Precise Thermopower Measurement System and its Applying to Organic Conductors \$\(\text{TMTSF}\)_2\text{ClO}_4\$ in a Direction](#)

Chang H.S.

- ❑ [Design of Cryogenic System for the KSTAR Device](#)
- ❑ [Air Liquide Cryogenic System for the KSTAR Device](#)
- ❑ [Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC](#)

Chang H-M

- ❑ [Experimental on Natural Convection of Subcooled Liquid Nitrogen](#)

Chapin L.

- ❑ [Characterization Studies of Sputter Deposited Cermet Cryogenic Heaters](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Chatain D.

- ❑ [The Laser Megajoule CryoTarget Thermal Regulation](#)

Chen X.

- ❑ [Investigation on Acoustic Characteristics of Regenerator in the Thermoacoustic Apparatus](#)

Chen A.B.

- ❑ [Cryogenic Facility Design in BEPCII Superconducting Upgrade](#)

Chen B.

- ❑ [Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method](#)
- ❑ [Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator](#)

Chen C.

- ❑ [The BESIII Detector Magnet](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Chen C.Z.

- ❑ Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)
- ❑ Study of New Aerodynamic Foil Thrust Gas Bearing with Elastic Support for Cryogenic Turbo-Expander
- ❑ Analysis of the Influences of View Angle on Paraboloid W Style Radiant Cooler's Working Performance
- ❑ Design of Small Turbo Brayton Cycle Air Refrigerator Test Rig

Chen D.F.

- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES
- ❑ A Current Compensation Type Superconducting Fault Current Limiter

Chen G. M.

- ❑ A Thermodynamic Optimization of Counterflow Recuperative-Type Heat Exchangers

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Chen G.B.

- ❑ [A Density Equation for Saturated Helium-3](#)
- ❑ [Discussion on Gibbons' Equation of State for Helium-3](#)
- ❑ [Performance of a Pulse Tube Cryocooler with Two Separate Stages using \$^3\text{He}\$ in the Second Stage](#)
- ❑ [Experimental Investigation on DC Flow Suppression and Refrigeration Characteristics of a High-Performance Single-Stage GM-Type PTC](#)
- ❑ [Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load](#)
- ❑ [Experimental Study of Self-Pressurizing Transfer System for Cryogenic Liquid](#)
- ❑ [Discussion on Resonant Frequency in Thermoacoustic Systems](#)

Chen G.B.

- ❑ [Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator](#)
- ❑ [Investigation on A Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K](#)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Thermoacoustically Driven Pulse Tube Refrigeration Below 90K
- ❑ Experimental Investigation on High Performance Cryogenic Heat Transfer Based upon Natural Circulation Cooling
- ❑ Experiment on a Single-stage GM Type Pulse Tube Cryocooler near 20K

Chen G.M.

- ❑ Study of Temperature Distribution of Flat Steel Ribbon Wound Cryogenic High-Pressure Vessel

Chen H.

- ❑ The BESIII Detector Magnet
- ❑ Thermal Design of BESIII Magnet

Chen H.P.

- ❑ Novel Cryogenic Motion Control for Aerospace
- ❑ Design of a Cryogenic Giant Magnetostrictive Actuator Using HTS

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Chen J. R.

- ❑ Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC

Chen L.F.

- ❑ A New Type of Condenser-Evaporator Safely Operated in Large Air Separation Plant

Chen N.

- ❑ Optimal Vector Analysis of the Phase Shifter in the Pulse Tube Refrigerator

Chen P.

- ❑ Experimental Investigation on Heat Transfer Performance of A Cryogenic Thermosyphon
- ❑ Investigation on A Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K

Chen X.

- ❑ Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Stack and Frequency's Coupling Characteristic Analysis in Thermoacoustic Systems
- ❑ Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic engine

Chen X.Q.

- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Chen Y.

- ❑ Lattice Gas Modeling of Thermoacoustic Oscillations

Chen Z.J.

- ❑ Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator

Cheng Z.Z.

- ❑ Experiment on a Single-Stage GM Type Pulse Tube Cryocooler near 20K

Chesny P.

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Chiarelli S.

- ❑ Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor

Chiou W. S.

- ❑ Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC

Cho K.W.

- ❑ Design of Cryogenic System for the KSTAR Device
- ❑ Air Liquide Cryogenic System for the KSTAR Device

Cho S.

- ❑ Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter

Choi Y.D.

- ❑ The Effects of the Clearance in the Cold Finger on the Performance of the Stirling Refrigerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Chorowski M.

- ❑ [The Applicability of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel](#)
- ❑ [Modeling of Multilayer Vacuum Insulation – Complexity Versus Accuracy](#)
- ❑ [Comparative Analysis of the Cryogenes Used in Cryomedical Applications](#)

Chromec B.

- ❑ [A Retrospect on the Successful Commissioning of the Linde 18kw Refrigerators for the LHC Particle Accelerator at CERN](#)

Ciazynski D.

- ❑ [Evaluation of the ITER Cable in Conduit Conductor Heat Transfer](#)

Claudet S.

- ❑ [1.8 K Refrigeration Units for the LHC: Performance Assessment of Pre-series Units](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Communal D.

- ❑ [The Laser Megajoule CryoTarget Thermal Regulation](#)

Courts S.

- ❑ [Interchangeability of Diode Temperature Sensors for Various Nonstandard Excitation Currents](#)
- ❑ [Characterization Studies of Sputter Deposited Cermet Cryogenic Heaters](#)

Courty J.C.

- ❑ [Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites](#)

Crespi P.

- ❑ [Cryocoolers Development and Integration for Space Applications at Air Liquide](#)

Creteigny D.

- ❑ [Standard Liquefier-Test Results with Improved Turbines](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Crispel S.

- ❑ Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites

Cui X.L.

- ❑ Study of Temperature Distribution of Flat Steel Ribbon Wound Cryogenic High-Pressure Vessel

Dai E.

- ❑ Basic Operation Principle of a Novel Cascade Thermoacoustic Prime Mover
- ❑ Study of Stress, Strain in Super-Conducting Magnet by Fiber-Bragg Grating

Dai S.T.

- ❑ Development and Testing of 10.5kV/1.5kA HTS Power Cable
- ❑ Development of a Three-Phase HTS Power Transformer

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Dai W.

- ❑ Characteristics of a Miniature Pulse Tube Cooler Driven by Thermoacoustic Standing Wave Engine
- ❑ Study on a Linear Compressor with Metal-Bellow Replacing Conventional Cylinder-Piston Unit
- ❑ Two-Dimensional Numerical Simulation of the Inertance Tube
- ❑ Numerical Simulation on a Novel Cascade Thermoacoustic Prime Mover
- ❑ New Perspective on Thermodynamic Cycles of Oscillating Flow Regenerators
- ❑ Experimental Investigation on a Room-Temperature Traveling-Wave Thermoacoustic Refrigerator
- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Dai Y.M.

- ❑ Design Study of Conduction-Cooled High Temperature Superconducting Magnet

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet

Dang H.Z.

- ❑ Interference Characterization of Stirling-Type Nonmagnetic and Nonmetallic Pulse Tube Cryocoolers for High-Tc SQUIDS Operation

Dauguet P.

- ❑ Air Liquide Cryogenic System for the KSTAR Device
- ❑ Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC

Day Chr.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

de Waele A.T.A.M

- ❑ Comparison of the Performance of Regenerators to Counterflow Heat Exchangers

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Delcayre F.

- ❑ Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC
- ❑ Air Liquide Cryogenic System for the KSTAR Device
- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Delikaris D.

- ❑ The Management of Cryogenics at CERN

della Corte A.

- ❑ Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor

Deng K.

- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Deng Z.S.

- ❑ A New Method for Uniformly Cooling Engineered Tissues

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Study of Skin Burns Due to Contact with Cold Mediums at Extremely Low Temperature

Dhard C.P.

- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1
- ❑ Helium Refrigeration System for Wendelstein 7-X

Dinesh K.

- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Ding H.K.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System

Ding W.J.

- ❑ Three Dimensional Numerical Computation of the Flow Field in a Pulse Tube

Dogan C.

- ❑ Liquid Hydrogen Droplet Generation from a Vibrating Orifice

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Doi Y.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator

Dong D.

- ❑ Development and Testing of a Novel Thermal Switch

Dong D.P.

- ❑ The Working Performance of Radiant Cooler in Thermal Vacuum Test

Dong J.

- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method
- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film

Dremel M.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Du H.P.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Duchateau J.L

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation
- ❑ Evaluation of the ITER Cable in Conduit Conductor Heat Transfer

Dugaev V.K.

- ❑ New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project

Durand F.

- ❑ Cryocoolers Development and Integration for Space Applications at Air Liquide

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Durgesh Nadig

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler

Duthil P.

- ❑ Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine

Dutto G.

- ❑ Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System

Duval S.

- ❑ Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites

Fan L.

- ❑ Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method
- ❑ Discussion on Resonant Frequency in Thermoacoustic Systems

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Fan Y.F.

- ❑ Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan

Fang Z.C.

- ❑ Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices
- ❑ Use of Ceramic Part in G-M Refrigerator

Fauve E.

- ❑ Air Liquide Cryogenic System for the KSTAR Device

Feng H.D.

- ❑ Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature

Feng Q.K.

- ❑ Study on Key-Tech Problems in Development of a Cold Neutron Source in China Advanced Research Reactor

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Feng Z.A.

- ❑ Study of Stress, Strain in Super-Conducting Magnet by Fiber-Bragg Grating

Ferlin G.

- ❑ 1.8 K Refrigeration Units for the LHC: Performance Assessment of Pre-series Units

Fietz W.H.

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Filippov Yu.P.

- ❑ Multichannel Temperature Monitor Compatible with PC

Fleck U.

- ❑ A Retrospect on the Successful Commissioning of the Linde 18kw Refrigerators for the LHC Particle Accelerator at CERN

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Fong K.

- ❑ [Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System](#)

Fossen A.

- ❑ [Design of Cryogenic System for the KSTAR Device](#)
- ❑ [Air Liquide Cryogenic System for the KSTAR Device](#)

François M.X.

- ❑ [Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine](#)

Fu L.Y.

- ❑ [A Study on the Conic Support in the Radiant Cooler](#)

Fu S. Y.

- ❑ [A New Process for the Preparation of Polyimide/Silica Hybrid Films](#)
- ❑ [Measurement of the Cryogenic Tensile Properties of Polymer Composites](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ [Cryogenic Properties of Polymer Composite Materials – A Review](#)

Fuenzalida P.

- ❑ [Design of Cryogenic System for the KSTAR Device](#)
- ❑ [Air Liquide Cryogenic System for the KSTAR Device](#)

Fujisawa Y.

- ❑ [Reduction of Convective Heat Losses in Pulse Tube Refrigerators by Additional DC Flow](#)

Funaki K.

- ❑ [AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables](#)

Gai X.Y.

- ❑ [Cryogenic Facility Design in BEPCII Superconducting Upgrade](#)

Gan Z.H.

- ❑ [Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Temperature Hysteresis in a GM-Type Orifice Pulse Tube Refrigerator
- ❑ Investigation on a Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K
- ❑ Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling
- ❑ Experiment on a Single-Stage GM Type Pulse Tube Cryocooler Near 20K

Gandhi V.G.

- ❑ Thermal Analysis of Cryogenic Rocket Engine with One, Two and Three Dimensional Approaches

Gao Z.Y.

- ❑ Development and Testing of 10.5kV/1.5kA HTS Power Cable

Ghosh S.C.

- ❑ Thermal Analysis of Cryogenic Rocket Engine with One, Two and Three Dimensional Approaches

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Giove D.

- ❑ [Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System](#)

Gislon P.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

Gistau Baguer G.

- ❑ [Design of Cryogenic System for the KSTAR Device](#)

Gistau G.

- ❑ [Air Liquide Cryogenic System for the KSTAR Device](#)

Gizicki W.

- ❑ [The Applicability of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel](#)

Gong J.Y.

- ❑ [The Experimental Study on the Performance of a Small-Scale Oxygen Concentrator by PSA](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Gong L.

- ❑ [The Cryogenic System of BESIII in Preliminary Design](#)

Gong L.H.

- ❑ [Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan](#)
- ❑ [Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices](#)
- ❑ [Use of Ceramic Part in G-M Refrigerator](#)
- ❑ [The Design and Study of a Reciprocating Helium Compressor](#)

Gong M.Q.

- ❑ [Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube](#)
- ❑ [An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges](#)
- ❑ [Performance of Different Throttle Refrigeration Cycles](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A 70 K J-T Cryocooler Based on the Fractional Mixed-Refrigerant Cycle
- ❑ Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures
- ❑ Development of a Cryogenic Water-Trap Based on the Recuperative Mixture Refrigeration Cycle

Gower S.A.

- ❑ Cryoelectronics – An Experimental Examination of the Behaviour of Power Electronic Devices at Low Temperatures

Grabié V.

- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Gravil B.

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Grechko A.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)

Green M. A.

- ❑ The MICE Focusing Solenoids and Their Cooling System
- ❑ Modeling Free Convection Flow of Liquid Hydrogen Within a Cylindrical Heat Exchanger Cooled to 14K

Grillot D.

- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Gruehagen H.

- ❑ Measured Performance of Four New 18 kW@4.5 K Helium Refrigerators for the LHC Cryogenic System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Gu A.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)
- ❑ Optimization Analysis of Peakshaving Cycle to Liquefy the Natural Gas
- ❑ Experimental Investigation into Storage of Confined Cryogenic Liquids without Evaporation Venting

Gu A.Z.

- ❑ A study of the Optimum Temperature for Hydrogen Storage on Carbon Nanostructures
- ❑ Numerical Simulation of Flow Boiling of Cryogenic Liquids in Tubes
- ❑ The Characterization of Carbon Nanofibres Based on N₂ Adsorption Isotherms at 77K

Gu C.

- ❑ Property of Joint Resistance of Bi2223 Multi-Filament Tape by Using Sn-Pb Solder

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Gu G.B.

- ❑ Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method
- ❑ Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator

Guan Y.

- ❑ Development of a Three-Phase HTS Power Transformer

Guo F. Z.

- ❑ Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic engine
- ❑ Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator
- ❑ Figure of Merit for Regenerator Working in Acoustic Field (Invited)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Guo J.D.

- ❑ [Extended Power Law of Nonlinear Transport Properties of Superconducting Materials](#)

Guo W.Y.

- ❑ [An Adaptive Neuro-Fuzzy Control Strategy for the Bridge Type Superconducting Fault Current Controller](#)

Gupta G.

- ❑ [Design Consideration Validation of Cryo-Components for Current Feeder System of SST-1 Using Flexibility Analysis](#)
- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)

Gupta N. C.

- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)
- ❑ [Design Consideration Validation of Cryo-Components for Current Feeder System of SST-1 Using Flexibility Analysis](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Haas H.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

Haberstroh Ch.

- ❑ Heat Transfer in Gas Filled Pipes with Closed Warm End Under Different Orientations

Han B.S.

- ❑ Quench Characteristics of High- T_c Superconducting Tape for Alternating Over-Current Using DFT

Han G.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Han J.J.

- ❑ Development of a Three-Phase HTS Power Transformer

Han S.

- ❑ The BESIII Detector Magnet
- ❑ The Cryogenic System of BESIII in Preliminary Design

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Han Y.S.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source
- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link

Han Z.

- ❑ Property of Joint Resistance of Bi2223 Multi-Filamentary Tape by Using Sn-Pb Solder

Harada K.

- ❑ Measurement of characteristic feature of cavitation flows of He I and He II
- ❑ Application of PIV Technique to Cavitating Flows of Liquid Helium

Harrison S.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer
- ❑ Design and Manufacture of a Low-Current ADR Magnet for a Space Application

Haruyama T.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector
- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator

Hasebe T.

- ❑ Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement

Hasegawa T.

- ❑ AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Hawley C.J.

- ❑ Cryoelectronics – An Experimental Examination of the Behaviour of Power Electronic Devices at Low Temperatures

He G.G.

- ❑ Novel Cryogenic Motion Control for Aerospace
- ❑ Design of a Cryogenic Giant Magnetostrictive Actuator Using HTS

He Y.L.

- ❑ Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)
- ❑ Analysis of the Influences of View Angle on Paraboloid W Style Radiant Cooler's Working Performance
- ❑ Experimental Investigation on Heat Transfer Performance of a Cryogenic Thermosyphon
- ❑ Three Dimensional Numerical Computation of the Flow Field in a Pulse Tube
- ❑ An Internet-Based Working Fluid Properties Database

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Heller R.

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Hepburn I.

- ❑ Design and Manufacture of a Low Current ADR Magnet for Space Application

Herblin L.

- ❑ Control System and Operation of the Cryogenic Test Facilities for LHC Series Superconducting Magnets
- ❑ Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets

Hieke M.

- ❑ Heat Transfer in Gas Filled Pipes with Closed Warm End Under Different Orientations

Hilbert B.

- ❑ Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Hirano N.

- ❑ AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables

Hofer H.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)
- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer
- ❑ A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet

Hong Y.Z.

- ❑ The Effects of the Clearance in the Cold Finger on the Performance of the Stirling Refrigerator

Hou B.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Hou X.F.

- ❑ Design and Test of a 80 K Miniature Pulse Tube Cryocooler

Hou Y.

- ❑ Study of New Aerodynamic Foil Thrust Gas Bearing with Elastic Support for Cryogenic Turbo-Expander
- ❑ Design of Small Turbo Brayton Cycle Air Refrigerator Test Rig

Hou Z.

- ❑ The BESIII Detector Magnet

Howell G.

- ❑ Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle

Hsiao F. Z.

- ❑ Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Hu J.

- ❑ Study on a Linear Compressor with Metal-Bellow Replacing Conventional Cylinder-Piston Unit
- ❑ Analytical Model for Onset Temperature Difference of Thermoacoustic Stirling Prime Movers
- ❑ The BESIII Detector Magnet

Hu Q.G.

- ❑ Development of a Cryogenic Water-Trap Based on the Recuperative Mixture Refrigeration Cycle

Hu X.

- ❑ Extended Power Law of Nonlinear Transport Properties of Superconducting Materials

Huang C.J.

- ❑ Cryogenic Properties of Polymer Composite Materials – A Review
- ❑ Study of Stress, Strain in Super-Conducting Magnet by Fiber-Bragg Grating

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Huang H.

- ❑ Design Study of Conduction-Cooled High Temperature Superconducting Magnet

Huang J.

- ❑ Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)
- ❑ An Internet-Based Working Fluid Properties Database

Huang M.X.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Huang S.

- ❑ The BESIII Detector Magnet

Huang S. L.

- ❑ Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Huang X.H.

- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES

Huang Y.

- ❑ Experimental Investigation on a Room-Temperature Traveling-Wave Thermoacoustic Refrigerator

Huang Y.H.

- ❑ Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator
- ❑ A Density Equation for Saturated Helium-3
- ❑ Discussion on Gibbons' Equation of State for Helium-3

Huang Z.

- ❑ Experimental Investigation into Storage of Confined Cryogenic Liquids without Evaporation Venting

Hui D.

- ❑ Development of a Three-Phase HTS Power Transformer

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities

Huo H.K.

- ❑ Technical Analyses of HTS Bulk Used in a Rotating Machine

Hwang S.D.

- ❑ Investigation of Thermal Insulation for HTS Cable Systems
- ❑ Quench Characteristics of High- T_c Superconducting Tape for Alternating Over-Current Using DFT

Hyun O.B.

- ❑ Investigation of the Subcooled LN₂ Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter

Ikushima Y.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Ishizuka M.

- ❑ Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement

Iwakuma M.

- ❑ AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables

Jacob S.

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler
- ❑ Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium Compressor
- ❑ Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes
- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Jaramillo E.

- ❑ Thermal Validation of the Design of the CFRP Support Members to be Used in the Spatial Framework of the Herschel Space Observatory

Jeong S.

- ❑ Contractible Thermosyphon for Conduction Cooled Superconducting Magnets

Jeong S.K.

- ❑ Novel Regenerator Design and its Experimental Characteristics

Ji Z.M.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Jia G. Q.

- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Jia L.X.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Cryogenic System for BEPCII SRF Cavity IR Quadrupole and Detector Solenoid Magnets
- ❑ Multi-Tube Power Leads Tower for BEPCII IR Magnets
- ❑ Numerical Simulation on Thermal Stress and Magnetic Force of Current Leads in BEPCII
- ❑ Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat

Jia Z.Z.

- ❑ Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load

Jiang A.L.

- ❑ The Thermodynamic Analysis and Adjusting Methods for Reliquefaction Plant on Board LEG carriers

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Jiang C.

- ❑ A Cryostat with Optics Windows for Study of ICF Cryogenics Target
- ❑ Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target

Jiang N.

- ❑ Performance of a Pulse Tube Cryocooler with Two Separate Stages Using ^3He in the Second Stage
- ❑ Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load

Jiang R.Q.

- ❑ Stack and Frequency's Coupling Characteristic Analysis in Thermoacoustic Systems

Jiang W.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Jiang Y.L.

- ❑ Experimental Investigation on DC Flow Suppression and Refrigeration Characteristics of a High-Performance Single-Stage GM-Type PTC

Jiao B.

- ❑ Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling

Jin H.

- ❑ Contractible Thermosyphon for Conduction Cooled Superconducting Magnets

Jin T.

- ❑ Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method
- ❑ Discussion on Resonant Frequency in Thermoacoustic Systems
- ❑ Thermoacoustically Driven Pulse Tube Refrigeration Below 90K

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Jin T.X.

- ❑ Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar
- ❑ Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature

Jin X.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source

Jin X.

- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link

Jing C.

- ❑ Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System
- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy
- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample

Jing W.

- ❑ Development of the 3.5 W at 80 K High-Frequency Pulse Tube Cryocooler

Johnstone A. P.

- ❑ Thermal Stability and Quench Propagation in a Cryocooler-Cooled Pancake Coil of Bi-2223 Tape Operating Between 35K and 65K

Ju Y.L.

- ❑ Interference Characterization of Stirling-Type Nonmagnetic and Nonmetallic Pulse Tube Cryocoolers for High-Tc SQUIDS Operation

Jung W.M.

- ❑ Investigation of Thermal Insulation for HTS Cable Systems

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter

Jurkowski A.

- ❑ Digital Temperature Sensors in the Range of 77-300 K

Kajikawa K.

- ❑ AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables

Kamioka Y.

- ❑ Normalized Representation for Steady State Heat Transport in a Channel Containing He II Covering Pressure Range Up to 1.5 Mpa

Karunanithi R.

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler
- ❑ Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium compressor

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes
- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Kasthuriengan S.

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler
- ❑ Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium Compressor
- ❑ Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes
- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Kayoda T.

- ❑ Normal Transition in YBCO Thin Film and its Effect on Current Limiting Characteristics

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Kholevchuk V.V.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Kim D. H.

- ❑ [Investigation of Thermal Insulation for HTS Cable Systems](#)
- ❑ [Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter](#)

Kim D. L.

- ❑ [Investigation of Thermal Insulation for HTS Cable Systems](#)
- ❑ [Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter](#)

Kim H.B.

- ❑ [The Effects of the Clearance in the Cold Finger on the Performance of the Stirling Refrigerator](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Kim H.R.

- ❑ Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter

Kim S.

- ❑ Contractible Thermosyphon for Conduction Cooled Superconducting Magnets

Kim Y.S.

- ❑ Design of Cryogenic System for the KSTAR Device
- ❑ Air Liquide Cryogenic System for the KSTAR Device

Kimura N.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator
- ❑ Film Boiling Modes in Weakly Subcooled He II Around Lambda Pressure

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Ko S.C.

- ❑ Quench Characteristics of High- T_c Superconducting Tape for Alternating Over-Current Using DFT

Kobayashi T.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator

Koettig T.

- ❑ Design of a Fibre Reinforced Plastic Anticryostat for Magnetorelaxometric Measurements

Koh D.Y.

- ❑ The Effects of the Clearance in the Cold Finger on the Performance of the Stirling Refrigerator
- ❑ LN2 Forced Flow Cooling on HTS Power Cables

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Kuendig A.

- ❑ [A Retrospect on the Successful Commissioning of the Linde 18kw Refrigerators for the LHC Particle Accelerator at CERN](#)
- ❑ [Helium Refrigeration System for Wendelstein 7-X](#)

Kufner F.

- ❑ [Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System](#)

Kuruvila G. K.

- ❑ [Thermal Analysis of Cryogenic Rocket Engine with One, Two and Three Dimensional Approaches](#)

Kuzhiveli B.T.

- ❑ [Thermal Analysis of Cryogenic Rocket Engine with One, Two and Three Dimensional Approaches](#)

Lacroix B.

- ❑ [Evaluation of the ITER Cable in Conduit Conductor Heat Transfer](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Lalkoshti P.

- ❑ [CRYOFLUIDS – A Software for Physical Property Data of Cryogenic Fluid](#)

Lamaison V.

- ❑ [The Laser Megajoule CryoTarget Thermal Regulation](#)

Lambooy JP.

- ❑ [Control System And Operation of the Cryogenic Test Facilities for LHC Series Superconducting Magnets](#)
- ❑ [Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets](#)

Lau W.

- ❑ [Modeling the Thermal Mechanical Behavior of a 300 K Vacuum Vessel that is Cooled by Liquid Hydrogen in Film Boiling](#)
- ❑ [Modeling Free Convection Flow of Liquid Hydrogen within a Cylindrical Heat Exchanger Cooled to 14K](#)
- ❑ [The MICE Focusing Solenoids and Their Cooling System](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Laxdal R.E.

- ❑ Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System
- ❑ First Cold Test of the ISAC-II Medium Beta Cryomodule
- ❑ Status of the ISAC-II Cryogenic System

Lee G.S.

- ❑ Design of Cryogenic System for the KSTAR Device

Lee J.H.

- ❑ Quench Characteristics of High- T_c Superconducting Tape for Alternating Over-Current Using DFT

Lee K.S.

- ❑ LN2 Forced Flow Cooling on HTS Power Cables

Lee L.A.

- ❑ Air Liquide Cryogenic System for the KSTAR Device

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Leher F.

- ❑ Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System

Lei G.

- ❑ The Design and Study of a Reciprocating Helium Compressor

Lewis M.

- ❑ Two-Dimensional Numerical Simulation of the Inertance Tube
- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Li B.

- ❑ Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature

Li C.Y.

- ❑ Extended Power Law of Nonlinear Transport Properties of Superconducting Materials

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Li G.

- ❑ Properties of Thermoelectric Device with $(\text{Bi}_x\text{Sb}_{1-x})_2(\text{Te}_y\text{Se}_{1-y})_3$ Materials

Li H. C.

- ❑ Performance of a Cryogenic System for the Superconducting RF Cavity at NSRRC

Li H. L.

- ❑ Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement

Li H.D.

- ❑ Development of a Three-Phase HTS Power Transformer

Li J.G.

- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Li L.F.

- ❑ Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan
- ❑ Use of Ceramic Part in G-M Refrigerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- Properties of Thermoelectric Device with $(\text{Bi}_x\text{Sb}_{1-x})_2(\text{Te}_y\text{Se}_{1-y})_3$ Materials

Li P. L.

- Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System

Li Q.

- Stack and Frequency's Coupling Characteristic Analysis in Thermoacoustic Systems
- Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator
- Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic Engine
- Experimental Investigation on He II Porous Plug Liquid-Vapor Phase Separator
- Investigation on Acoustic Characteristics of Regenerator in the Thermoacoustic Apparatus
- Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator
- ❑ Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target

Li Q.F.

- ❑ Experimental Study of Self-Pressurizing Transfer System Cryogenic Liquid

Li R.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Li S.

- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES

Li T.

- ❑ Study on Electricity Generation Performance of Thermoelectric Device in Extreme Environmental Conditions

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Li W.Z.

- ❑ Experimental Investigation on Heat Transfer Performance of a Cryogenic Thermosyphon
- ❑ Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling

Li X.

- ❑ Numerical Simulation on a Novel Cascade Thermoacoustic Prime Mover
- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Li X. H.

- ❑ Characterization of the Quenching Process and the Protection of an AC High Temperature Superconductor Coil

Li X.D.

- ❑ Numerical Simulation of Flow Boiling of Cryogenic Liquids in Tubes

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Li X.Y.

- ❑ Discussion on Gibbons' Equation of State for Helium-3
- ❑ A Density Equation for Saturated Helium-3

Li X.Z.

- ❑ Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)

Li Y.

- ❑ Cryogenic Properties of Polymer Composite Materials – A Review
- ❑ A New Process for the Preparation of Polyimide/Silica Hybrid Films
- ❑ Measurement of the Cryogenic Tensile Properties of Polymer Composites

Li Y.Z.

- ❑ Study of Two Phase Flow Distribution and its Influence in a Plate-Fin Heat Exchanger

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Investigation of Header Configuration and its Effect on Flow Maldistribution in Plate-Fin Heat Exchanger

Li Z.

- ❑ The Working Performance of Radiant Cooler in Thermal Vacuum Test

Li Z.C.

- ❑ Experimental Investigation on the Performances of Gas Flow in Oscillating Tube
- ❑ Several Problems in the Thermal Contact Resistance Research of Solid Interfaces at Low Temperature

Li Z.W.

- ❑ Development and Testing of a Novel Thermal Switch

Li Z.Y.

- ❑ Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Liang J. X.

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film

Liang J.T.

- ❑ Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators
- ❑ Design and Test of a 80 K Miniature Pulse Tube Cryocooler
- ❑ Development of the 3.5 W at 80 K High-Frequency Pulse Tube Cryocooler
- ❑ Analysis of Inertance Tube in the Pulse Tube Refrigerator
- ❑ Interference Characterization of Stirling-Type Nonmagnetic and Nonmetallic Pulse Tube Cryocoolers for High-Tc SQUIDS Operation

Liang J.X.

- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method

Liang W.

- ❑ The Cryogenic System of BESIII in Preliminary Design

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Lim S.H.

- ❑ [Quench Characteristics of High-TC Superconducting Tape for Alternating Over-Current using DFT](#)

Lin D. J.

- ❑ [A New Process for the Preparation of Polyimide/Silica Hybrid Films](#)

Lin L. Z.

- ❑ [Development and Testing of 10.5kV/1.5kA HTS Power Cable](#)
- ❑ [Development of a Three-Phase HTS Power Transformer](#)
- ❑ [Technical Analyses of HTS Bulk Used in a Rotating Machine](#)
- ❑ [A New Concept of Bridge Fault Current Limiter-SMES for Interline Application to Improve Power Quality](#)
- ❑ [Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Lin S.N.

- ❑ Study of New Aerodynamic Foil Thrust Gas Bearing with Elastic Support for Cryogenic Turbo-Expander

Lin W.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)

Lin W.S.

- ❑ A Study of the Optimum Temperature for Hydrogen Storage on Carbon Nanostructures

Lin Y. B.

- ❑ Development and Testing of 10.5kV/1.5kA HTS Power Cable

Lindemann U.

- ❑ Performance of a Pulse Tube Cryocooler with Two Separate Stages Using ^3He in the Second Stage

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Ling H.

- ❑ Basic Operation Principle of a Novel Cascade Thermoacoustic Prime Mover
- ❑ Analytical Model for Onset Temperature Difference of Thermoacoustic Stirling Prime Movers
- ❑ Numerical Simulation on a Novel Cascade Thermoacoustic Prime Mover

Liu C.S.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Liu D.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Liu D. M.

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film
- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Liu H.J.

- ❑ Properties of Thermoelectric Device with $(\text{Bi}_x\text{Sb}_{1-x})_2(\text{Te}_y\text{Se}_{1-y})_3$ Materials

Liu H.W.

- ❑ Stability Analysis for Cryocooled Aluminum-Stabilized Superconducting Magnet

Liu H.Z.

- ❑ Experiment on a Single-Stage GM Type Pulse Tube Cryocooler Near 20K

Liu J.

- ❑ Study of Skin Burns Due to Contact with Cold Mediums at Extremely Low Temperature
- ❑ A New Method for Uniformly Cooling Engineered Tissues
- ❑ Study on Electricity Generation Performance of Thermoelectric Device in Extreme Environmental Conditions
- ❑ High Precise Thermopower Measurement System and its Applying to Organic Conductors $(\text{TMTSF})_2\text{ClO}_4$ in a Direction

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Liu J.X.

- ❑ Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator

Liu J.Y.

- ❑ An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges

Liu L.

- ❑ Numerical Study of the Final Cooldown from 4.5 K to 1.9 K of the Large Hadron Collider
- ❑ The Cryogenic System of BESIII in Preliminary Design
- ❑ The BESIII Detector Magnet
- ❑ Thermal Design of BESIII Magnet

Liu L.Q.

- ❑ Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Liu M.

- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method
- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film

Liu X.

- ❑ Lattice Gas Modeling of Thermoacoustic Oscillations

Liu X.K.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Liu X.L.

- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Liu Y.

- ❑ A cryostat with Optics Windows for Study of ICF Cryogenics Target
- ❑ Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Liu Y.S.

- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Liu Y.W.

- ❑ Experimental Study of Wall Temperature Distribution of Stirling Type Pulse Tube Refrigerator (SPTR)

Loehlein K.

- ❑ Standard Liquefier-Test Results with Improved Turbines

Lu D.W.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source
- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link

Lu G.H.

- ❑ Experimental Study on a Split-Type Free-Piston Stirling Cooler for Space Applications

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Development of a Three-Phase HTS Power Transformer

Lu W.H.

- ❑ The Design and Study of a High Power Helium Compressor

Lu X.S.

- ❑ A Study of the Optimum Temperature for Hydrogen Storage on Carbon Nanostructures

- ❑ The Characterization of Carbon Nanofibres Based on N₂ Adsorption Isotherms at 77K

Lu Y.

- ❑ Development of a Three-Phase HTS Power Transformer

Luo E

- ❑ Characteristics of a Miniature Pulse Tube Cooler Driven by Thermoacoustic Standing Wave Engine

- ❑ Basic Operation Principle of a Novel Cascade Thermoacoustic Prime Mover

- ❑ Study on a Linear Compressor with Metal-Bellow Replacing Conventional Cylinder-Piston Unit

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Analytical Model for Onset Temperature Difference of Thermoacoustic Stirling Prime Movers
- ❑ Two-Dimensional Numerical Simulation of the Inertance Tube
- ❑ Numerical Simulation on a Novel Cascade Thermoacoustic Prime Mover
- ❑ New Perspective on Thermodynamic Cycles of Oscillating Flow Regenerators
- ❑ Experimental Investigation on a Room-Temperature Traveling-Wave Thermoacoustic Refrigerator
- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Luo E.C.

- ❑ Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube
- ❑ An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures

Ma D.K.

- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Mack A.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

Maeda M.

- ❑ Normalized Representation for Steady State Heat Transport in a Channel Containing He II Covering Pressure Range Up to 1.5 Mpa

Makida Y.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator
- ❑ The Cryogenic System of BESIII in Preliminary Design
- ❑ The BESIII Detector Magnet

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Mantileri C.

- ❑ [Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC](#)

Mariani M.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

Marot G.

- ❑ [Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC](#)
- ❑ [Overview of the Air Liquide Cryogenic Ground Space Activities for Launchers and Satellites](#)

Marshall C.

- ❑ [Status of the ISAC-II Cryogenic System](#)
- ❑ [First Cold Test of the ISAC-II Medium Beta Cryomodule](#)

Matrone A.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

McDonald P.C.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)
- ❑ [Thermal Validation of the Design of the CFRP Support Members to be Used in the Spatial Framework of the Herschel Space Observatory](#)

McMahon R.

- ❑ [Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer](#)
- ❑ [Design and Manufacture of a Low-Current ADR Magnet for a Space Application](#)

Megro S.

- ❑ [Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Messina G.

- ❑ Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor

Millet F.

- ❑ 1.8 K Refrigeration Units for the LHC: Performance Assessment of Pre-series Units
- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Milward S.

- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer
- ❑ Design and Manufacture of a Low-Current ADR Magnet for Space Application

Misra Ruchi

- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Mitin E.V.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Mitin V.F.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Miyoki S.

- ❑ [Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector](#)

Miyoshi K.

- ❑ [Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn wires with CuNbTi Reinforcement](#)

Monneret E.

- ❑ [Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Murakami M.

- ❑ Reduction of Convective Heat Losses in Pulse Tube Refrigerators by Additional DC Flow
- ❑ Measurement of Characteristic Feature of Cavitation Flows of He I and He II
- ❑ Film Boiling Modes in Weakly Subcooled He II around Lambda Pressure
- ❑ Observation of Various Boiling States in Nearly Saturated He II
- ❑ Application of PIV Technique to Cavitating Flows of Liquid Helium

Murdoch D.K.

- ❑ Experiences from the Operation Tests with the ITER Model Pump

Muzzi L.

- ❑ Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

N. Sato

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Nadig D.S.

- ❑ Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium Compressor
- ❑ Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes

Nagaya S.

- ❑ AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables

Nagel M.

- ❑ Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Nakamoto T.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator

Nakano A.

- ❑ Reduction of Convective Heat Losses in Pulse Tube Refrigerators by Additional DC Flow

Nam K.

- ❑ Novel Regenerator Design and its Experimental Characteristics

Nawrocki W.

- ❑ Digital Temperature Sensors in the Range of 77-300 K
- ❑ Operational Amplifiers in the Temperature Range from 300 to 4 K

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Nemish I.Yu.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Nicollet S.

- ❑ [Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation](#)
- ❑ [Evaluation of the ITER Cable in Conduit Conductor Heat Transfer](#)

Ning Z.

- ❑ [Development and Testing of 10.5kV/1.5kA HTS Power Cable](#)

Ning Z.H.

- ❑ [Extended Power Law of Nonlinear Transport Properties of Superconducting Materials](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Nishijima G.

- ❑ Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement

Noh C.

- ❑ Contractible Thermosyphon for Conduction Cooled Superconducting Magnets

Nozawa M.

- ❑ Film Boiling Modes in Weakly Subcooled He II Around Lambda Pressure
- ❑ Observation of Various Boiling States in Nearly Saturated He II

Ogawa J.

- ❑ AC Loss Characteristics of HTS Tapes Subject to Bending Strains

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Ogitsu T.

- ❑ [Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator](#)

Ohhata H.

- ❑ [Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator](#)

Ohtani N.

- ❑ [AC Loss Characteristics of Bi-2212 Multifilamentary Round Wires and Their Cables](#)

Onishi T.

- ❑ [Normal Transition in YBCO Thin Film and its Effect on Current Limiting Characteristics](#)

Ostropolski W.

- ❑ [The Applicability of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Pająkowski J.

- ❑ Digital Temperature Sensors in the Range of 77-300 K
- ❑ Operational Amplifiers in the Temperature Range from 300 to 4 K

Pan Q. Y.

- ❑ A New Process for the Preparation of Polyimide/Silica Hybrid Films
- ❑ Cryogenic Properties of Polymer Composite Materials – A Review
- ❑ Measurement of the Cryogenic Tensile Properties of Polymer Composites

Pan Y.P.

- ❑ Analysis of the Influences of View Angle on Paraboloid W Style Radiant Cooler's Working Performance

Panchal Pradip

- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Paquignon G.

- ❑ [The Laser Megajoule Cryotarget Thermal Regulation](#)

Park S.J.

- ❑ [The Effects of the Clearance at Expander on the Performance of the Stirling Refrigerator](#)

Parthasarathi G.

- ❑ [Analysis of Centrifugal Stresses in the Rotor of a Cryogenic Turboexpander](#)

Pasotti G.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

Passardi G.

- ❑ [The Management of Cryogens at CERN](#)

Paul P. J.

- ❑ [Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Paul T. Finley

- ❑ [Spitzer Space Telescope Thermal/Cryogenic System Flight Performance](#)

Pavese F.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Pelle Th.

- ❑ [Simple Method for Calculation of Cryogenic Transfer Line Cool Down](#)

Périn J.P.

- ❑ [The Laser Megajoule Cryotarget Thermal Regulation](#)

Perraud S.

- ❑ [Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Pietsch M.

- ❑ [Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System](#)

Piotrowska A.

- ❑ [Comparative Analysis of the Cryogens Used in Cryomedical Applications](#)

Polinski J.

- ❑ [Modeling of Multilayer Vacuum Insulation – Complexity Versus Accuracy](#)

Posselt H.

- ❑ [Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System](#)

Pradhan S.

- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Prass S.

- ❑ Design of a Fibre Reinforced Plastic Anticryostat for Magnetorelaxometric Measurements

Praud A.

- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Proch D.

- ❑ Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Super Conducting Cavities

Puech L.

- ❑ Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation

Qi Y.F.

- ❑ Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures

Qi Z.

- ❑ Extended Power Law of Nonlinear Transport Properties of Superconducting Materials

Qian S.

- ❑ Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement

Qiu L.M.

- ❑ Experimental Investigation on Heat Transfer Performance of a Cryogenic Thermosyphon
- ❑ Investigation on a Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K
- ❑ Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling
- ❑ Experiment on a Single-Stage GM Type Pulse Tube Cryocooler near 20K

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Qiu M.

- ❑ [Technical Analyses of HTS Bulk Used in a Rotating Machine](#)

Qu T.M.

- ❑ [Property of Joint Resistance of Bi-2223 Multi-Filament Tape by Using Sn-Pb Solder](#)

Quack H.

- ❑ [Heat Transfer in Gas Filled Pipes with Closed Warm End Under Different Orientations](#)

Racine M.

- ❑ [Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle](#)

Radebaugh R.

- ❑ [Two-Dimensional Numerical Simulation of the Inertance Tube](#)
- ❑ [New Perspective on Thermodynamic Cycles of Oscillating Flow Regenerators](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Raja Banerjee

- ❑ CRYOFLUIDS – A Software for Physical Property Data of Cryogenic Fluids

Ram S. N.

- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Ravex A.

- ❑ Cryocoolers Development and Integration for Space Applications at Air Liquide
- ❑ Recent Developments on Cryocoolers in Europe (Invited)

Rawnsley W.R.

- ❑ Alignment of the ISAC-II Medium Beta Cryomodule with a Wire Monitoring System

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Ren X.

- ❑ [Experimental Study of the Narrow Channel Heat Transfer In Liquid Nitrogen](#)

Ren Z.M.

- ❑ [Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy](#)

Renard B.

- ❑ [Evaluation of the ITER Cable in Conduit Conductor Heat Transfer Coefficient](#)

Richard A. H.

- ❑ [Spitzer Space Telescope Thermal/Cryogenic System Flight Performance](#)

Riddone G.

- ❑ [The Applicability of Ultrasonic Oxygen Deficiency Hazard Detectors in the LHC Accelerator Tunnel](#)
- ❑ [Numerical Study of the final Cooldown from 4.5 K to 1.9 K of the Large Hadron Collider](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Ries T.

- ❑ [First Cold Test of the ISAC-II Medium Beta Cryomodule](#)

Rossi S.

- ❑ [Design and Manufacture of a NbTi Insert Module Relevant for the ITER PF Magnets Conductor](#)

Rousset B.

- ❑ [Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation](#)

Ruan K. Q.

- ❑ [Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement](#)

Russell B. S.

- ❑ [Spitzer Space Telescope Thermal/Cryogenic System Flight Performance](#)

Sahu A. K.

- ❑ [Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Sarkar B.

- ❑ Design Consideration Validation of Cryo-Components for Current Feeder System of SST-1 Using Flexibility Analysis
- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1

Sasaki K.

- ❑ Normal Transition in YBCO Thin Film and its Effect on Current Limiting Characteristics

Sato A.

- ❑ Normalized Representation for Steady State Heat Transport in a Channel Containing He II Covering Pressure Range Up to 1.5 Mpa

Saxena Y.C.

- ❑ Design Consideration Validation of Cryo-Components for Current Feeder System of SST-1 Using Flexibility Analysis
- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Schauer F.

- ❑ [Helium Refrigeration System for Wendelstein 7-X](#)
- ❑ [Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System](#)

Schoenfeld H.

- ❑ [Standard Liquefier-Test Results with Improved Turbines](#)

Seidel P.

- ❑ [Design of a Fibre Reinforced Plastic Anticyrostat for Magnetorelaxometric Measurements](#)

Sekachev I.

- ❑ [First Cold Test of the ISAC-II Medium Beta Cryomodule](#)
- ❑ [Status of the ISAC-II Cryogenic System](#)

Senanayake R. S.

- ❑ [The MICE Focusing Solenoids and Their Cooling System](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Sentis L.

- ❑ Cryocoolers Development and Integration for Space Applications at Air Liquide

Serio L.

- ❑ The Management of Cryogenics at CERN

Sha Y. N.

- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Shen F.

- ❑ Study on Key-Tech Problems in Development of a Cold Neutron Source in China Advanced Research Reactor

Shen X. C.

- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample
- ❑ Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Shen Y.

- ❑ Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method

Sheng J.

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film

Sheng J.L.

- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method

Shi L.H.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Shi Y.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)
- ❑ Optimization Analysis of Peakshaving Cycle to Liquefy the Natural Gas
- ❑ Experimental Investigation into Storage of Confined Cryogenic Liquids without Evaporation Venting

Shim S.Y.

- ❑ Thermal Insulation of the Wendelstein 7-X Superconducting Magnet System

Shintomi T.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Shiraishi M.

- ❑ Reduction of Convective Heat Losses in Pulse Tube Refrigerators by Additional DC Flow

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Singer W.

- ❑ Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities

Singer X.

- ❑ Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities

Song F.C.

- ❑ Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method
- ❑ Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator

Song Sh.S.

- ❑ Design Study of Conduction-Cooled High Temperature Superconducting Magnet

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Sorokin P.V.

- ❑ [New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project](#)

Stafford Allen R.

- ❑ [Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer](#)
- ❑ [Design and Manufacture of a Low Current ADR Magnet for Space Application](#)

Stanford G.

- ❑ [First Cold Test of the ISAC-II Medium Beta Cryomodule](#)
- ❑ [Status of the ISAC-II Cryogenic System](#)

Steven W. V. S.

- ❑ [Liquid Hydrogen Droplet Generation from a Vibrating Orifice](#)

Su X.T.

- ❑ [Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

- ❑ [Use of Ceramic Part in G-M Refrigerator](#)

Sun D.M.

- ❑ [Investigation on a Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K](#)

Sun H.

- ❑ [Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar](#)

Sun Y.

- ❑ [Design of Small Turbo Brayton Cycle Air Refrigerator Test Rig](#)

Sun Z.H.

- ❑ [Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube](#)
- ❑ [Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures](#)

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Sunil K.S.

- ❑ Analysis of Centrifugal Stresses in the Rotor of a Cryogenic Turboexpander

Sunil Kr Sarangi

- ❑ CRYOFLUIDS – A Software for Physical Property Data of Cryogenic Fluids

Suo H. L.

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film
- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method

Süßer M.

- ❑ Discussion of the Protection of Pressure Vessels by Using Safety Valves-Rupture Disc-Combinations

Suzuki H.

- ❑ AC Loss Characteristics of HTS Tapes Subject to Bending Strains

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Suzuki T.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Sveshnikov B.N.

- ❑ Multichannel Temperature Monitor Compatible with PC

Takahashi K.

- ❑ Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn Wires with CuNbTi Reinforcement

Tamizhanban K.

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler

Tang H.M.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Tang K.

- ❑ Theoretical Prediction on the Coupling of Thermoacoustic Prime Mover and RC Load
- ❑ Influence of He-H₂ Mixture Proportion on the Performance of Pulse Tube Refrigerator
- ❑ Thermoacoustically Driven Pulse Tube Refrigeration Below 90K

Tank Jignesh

- ❑ Experimental Characterization of the Hydraulic Behavior of Cooling for Toroidal Field Magnet of SST-1

Tao W.Q.

- ❑ Three Dimensional Numerical Computation of the Flow Field in a Pulse Tube

Tavian L.

- ❑ 1.8 K Refrigeration Units for the LHC: Performance Assessment of Pre-Series Units
- ❑ Numerical Study of the Final Cooldown from 4.5 K to 1.9 K of the Large Hadron Collider

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ [The Management of Cryogenics at CERN](#)

Taylor C.

- ❑ [The BESIII Detector Magnet](#)

Teng Y. P.

- ❑ [Development and Testing of 10.5kV/1.5kA HTS Power Cable](#)

Thibault P.

- ❑ [Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation](#)

Thummes G.

- ❑ [Performance of a Pulse Tube Cryocooler with Two Separate Stages Using \$^3\text{He}\$ in the Second Stage](#)
- ❑ [Experimental Investigation on DC Flow Suppression and Refrigeration Characteristics of a High-Performance Single-Stage GM-Type PTC](#)
- ❑ [Temperature Hysteresis in a GM-Type Orifice Pulse Tube Refrigerator](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Ting S.C.C.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)
- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer

Tomaru T.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Tovar-Gonzalez A.

- ❑ Control System and Operation of the Cryogenic Test Facilities for LHC Series Superconducting Magnets
- ❑ Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets

Trollier T.

- ❑ Recent Developments on Cryocoolers in Europe (Invited)
- ❑ Cryocoolers Development and Integration for Space Applications at Air Liquide

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Tsuchiya K.

- ❑ [The Cryogenic System of BESIII in Preliminary Design](#)
- ❑ [The BESIII Detector Magnet](#)

Tsukahara R.

- ❑ [Measurement of Characteristic Feature of Cavitation Flows of He I and He II](#)
- ❑ [Application of PIV Technique to Cavitating Flows of Liquid Helium](#)

Tsukamoto O.

- ❑ [AC loss Characteristics of HTS Tapes Subject to Bending Strains](#)

Tu F.H.

- ❑ [A Study on the Conic Support in the Radiant Cooler](#)

Tu Q.

- ❑ [Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Turtù S.

- ❑ Design and Manufacture of a NbTi Insert Module Representative for the ITER PF Magnets Conductor

Uchiyama T.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Ulbricht J.

- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer

Upendra B.

- ❑ Studies on a Single Stage GM Type Pulse Tube Cryocooler Using an Indigenous Helium Compressor
- ❑ Design of Vortex Tubes and Experimental Program on LOX Separation Using Cryogenic Vortex Tubes

Upendra Behera

- ❑ Single Stage Double-Inlet Pulse Tube Refrigerator with Integral Thermo-Electric Cooler

Main Menu

Authors

Click on title for a paper.



Papers by Author

- ❑ Development and Test of a Cryopulverizer for Reprocessing Plastic Wastes

Van Sciver S

- ❑ Experiment on Natural Convection of Subcooled Liquid Nitrogen

van Weelderden R.

- ❑ Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation

Venger E.F.

- ❑ New Temperature and Magnetic Field Sensors for Cryogenic Applications Developed Under a European Project

Viertel G.

- ❑ Testing the Coils of the Superconducting Magnet for the Alpha Magnetic Spectrometer

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Vogel E.

- ❑ Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities

Voigt Th.

- ❑ A Retrospect on the Successful Commissioning of the Linde 18kw Refrigerators for the LHC Particle Accelerator at CERN

Vostrikov S.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)

Vullierme B.

- ❑ Control System and Operation of the Cryogenic Test Facilities for LHC series Superconducting Magnets
- ❑ Series Production of 13 kA Current Leads with Dry and Compact Warm Terminals
- ❑ Cryogenic Infrastructure for Testing of LHC Series Superconducting Magnets

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wagner U.

- ❑ Measured Performance of Four New 18 kW@4.5 K Helium Refrigerators for the LHC Cryogenic System

Wahrer B.

- ❑ The BESIII Detector Magnet

Walter E.

- ❑ Overview of the Air Liquide Cryogenic Systems Designed for CERN LHC
- ❑ Overview of Different Standard Helium Liquefiers / Refrigerators for Various Applications

Wang B.

- ❑ The BESIII Detector Magnet

Wang B.R.

- ❑ Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wang B.R.

- ❑ Discussion on Resonant Frequency in Thermoacoustic Systems

Wang C.

- ❑ Characteristics of 4 K Pulse Tube Cryocoolers in Applications
- ❑ Shape Optimization of HTS Magnets Using Hybrid Genetic Algorithms

Wang F.R.

- ❑ Extended Power Law of Nonlinear Transport Properties of Superconducting Materials

Wang G.P.

- ❑ Development of the 3.5 W at 80 K High-Frequency Pulse Tube Cryocooler

Wang J.

- ❑ Design of Small Turbo Brayton Cycle Air Refrigerator Test Rig

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wang L.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Cryogenic System for BEPCII SRF Cavity IR Quadrupole and Detector Solenoid Magnets
- ❑ Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat
- ❑ Multi-Tube Power Leads Tower for BEPCII IR Magnets
- ❑ The BESIII Detector Magnet

Wang Q.

- ❑ A Thermodynamic Optimization of Counterflow Recuperative-Type Heat Exchangers

Wang Q.L.

- ❑ Design Study of Conduction-Cooled High Temperature Superconducting Magnet
- ❑ Stability Analysis for Cryocooled Aluminum-Stabilized Superconducting Magnet

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet
- ❑ Shape Optimization of HTS Magnets Using Hybrid Genetic Algorithms
- ❑ Study of Stress, Strain in Super-Conducting Magnet by Fiber-Bragg Grating

Wang R.

- ❑ Development of the Cryogenic Ground Support Equipment (CGSE) for the Superconducting Magnet of the Alpha Magnetic Spectrometer (AMS-02)
- ❑ Optimization Analysis of Peakshaving Cycle to Liquefy the Natural Gas
- ❑ Experimental Investigation into Storage of Confined Cryogenic Liquids without Evaporation Venting

Wang R. Z.

- ❑ Experimental Study of the Narrow Channel Heat Transfer in Liquid Nitrogen

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wang R.S.

- ❑ Numerical Simulation of Flow Boiling of Cryogenic Liquids in Tubes

Wang S.

- ❑ Thermal Design of BESIII Magnet

Wang S. P.

- ❑ Direct Observation of Percolation and Phase Separation in $\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3$ System
- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Wang T.H.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Multi-Tube Power Leads Tower for BEPCII IR Magnets

Wang W.Y.

- ❑ The Working Performance of Radiant Cooler in Thermal Vacuum Test

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A Study on the Conic Support in the Radiant Cooler
- ❑ Development and Testing of a Novel Thermal Switch

Wang X.J.

- ❑ Analysis of the Influences of View Angle on Paraboloid W Style Radiant Cooler's Working Performance

Wang X.L.

- ❑ Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators
- ❑ Design and Test of a 80 K Miniature Pulse Tube Cryocooler

Wang X.Y.

- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample

Wang Y.S.

- ❑ Characterization of the Quenching Process and the Protection of an AC High Temperature Superconductor Coil
- ❑ Development of a Three-Phase HTS Power Transformer

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wang Y.Y.

- ❑ [The Effect of Timing Ratio of Injecting to Rejecting on G-M Type PTC's Cooling Temperature](#)

Wang Z. D.

- ❑ [Strain Effects on the Critical Current of Bi-2223/Ag Tape](#)

Watanabe K.

- ❑ [Cryogen-Free Superconducting Magnet Fabricated by a React-and-Wind Method Employing Nb₃Sn wires with CuNbTi reinforcement](#)

Weber P.

- ❑ [Design of a Fibre Reinforced Plastic Anticryostat for Magnetorelaxometric Measurements](#)

Weber T. B.

- ❑ [Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Weisend II J.G.

- ❑ [Unique Method for Liquid Nitrogen Precooling of a Plate Fin Heat Exchanger in a Helium Refrigeration Cycle](#)

Wen H.M.

- ❑ [Thermal, Electrical Properties and Microstructure of High Purity Niobium for High Gradient Superconducting Cavities](#)

Wen J.

- ❑ [Investigation of Header Configuration and its Effect on Flow Maldistribution in Plate-Fin Heat Exchanger](#)

Will M.E.

- ❑ [Comparison of the Performance of Regenerators to Counterflow Heat Exchangers](#)

Wolf P. E.

- ❑ [Heat Transfer Enhancement of He II Co-Current Two-Phase Flow in the Presence of Atomisation](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wu B.M.

- ❑ Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature

Wu H.B.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source
- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link

Wu J.

- ❑ Investigation of Acoustic Streaming in a Thermoacoustic-Stirling Heat Engine

Wu J.F.

- ❑ An Experimental Research on a Small Flow Vortex Tube at Low Temperature Ranges
- ❑ Dimensional Analysis on Multi-Component Mixed-Refrigerants Flow Characteristics in Adiabatic Capillary Tube

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Performance of Different Throttle Refrigeration Cycles
- ❑ A 70 K J-T Cryocooler Based on the Fractional Mixed-Refrigerant Cycle
- ❑ Experimental Investigation on Pool Boiling Heat Transfer of Pure Refrigerants and Binary Mixtures
- ❑ Development of a Cryogenic Water-Trap Based on the Recuperative Mixture Refrigeration Cycle

Wu S.T.

- ❑ 20kA HTS Current Leads for EAST Tokamak Project

Wu T.H.

- ❑ A New Type of Condenser-Evaporator Safely Operated in Large Air Separation Plant

Wu Y. L.

- ❑ Strain Effects on the Critical Current of Bi-2223/Ag Tape

Wu Y.N.

- ❑ Experimental Study on a Split Free-Piston Stirling Cooler for Space Applications

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Wu Y.Y.

- ❑ The Experimental Study on the Performance of a Small-Scale Oxygen Concentrator by PSA
- ❑ A New Type of Condenser-Evaporator Safely Operated in Large Air Separation Plant

Wu Z.

- ❑ Study on a Linear Compressor with Metal-Bellow Replacing Conventional Cylinder-Piston Unit
- ❑ Experimental Investigation on a Room-Temperature Traveling-Wave Thermoacoustic Refrigerator
- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Wu Z.L.

- ❑ Study on Electricity Generation Performance of Thermoelectric Device in Extreme Environmental Conditions

Xi H.X.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Xia D.

- ❑ [Technical Analyses of HTS Bulk Used in a Rotating Machine](#)

Xiao H.

- ❑ [Cryogenic Facility Design in BEPCII Superconducting Upgrade](#)

Xiao L. Y.

- ❑ [Characterization of the Quenching Process and the Protection of an AC High Temperature Superconductor Coil](#)
- ❑ [Development and Testing of 10.5kV/1.5kA HTS Power Cable](#)
- ❑ [A Current Compensation Type Superconducting Fault Current Limiter](#)
- ❑ [Evaluation on Power System Transient Stability with Resistor Type SFCL and Parameter Design](#)
- ❑ [Effects of Bias Power Supply on Bridge Type Superconducting FCL](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A New Concept of Bridge Fault Current Limiter-SMES for Interline Application to Improve Power Quality
- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES
- ❑ An Adaptive Neuro-Fuzzy Control Strategy for the Bridge Type Superconducting Fault Current Controller
- ❑ Development of a Three-Phase HTS Power Transformer

Xiao Y. M.

- ❑ Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar

Xie X. J.

- ❑ Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic Engine
- ❑ Investigation on Acoustic Characteristics of Regenerator in the Thermoacoustic Apparatus
- ❑ Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Xie X.M.

- ❑ Experimental Study of Self-Pressurizing Transfer System Cryogenic Liquid

Xin Y.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System

Xing Z.H.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Xiong L.L.

- ❑ The Thermodynamic Analysis and Adjusting Methods for Reliquefaction Plant on Board LEG Carriers

Xiong Y. F.

- ❑ Strain Effects on the Critical Current of Bi-2223/Ag Tape

Xu B.

- ❑ Fabrication and Characterization of Bi-2223 Coils for Generator Applications

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Xu F.Y.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Xu H.Y.

- ❑ The Working Performance of Radiant Cooler in Thermal Vacuum Test

Xu J.Q.

- ❑ Liquid Hydrogen Droplet Generation from a Vibrating Orifice

Xu L.

- ❑ Experimental Investigation on the Performances of Gas Flow in Oscillating Tube
- ❑ Optimal Vector Analysis of the Phase Shifter in the Pulse Tube Refrigerator
- ❑ Several Problems in the Thermal Contact Resistance Research of Solid Interfaces at Low Temperature
- ❑ Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar
- ❑ Development and Testing of 10.5kV/1.5kA HTS Power Cable

Xu Q.

- ❑ Study of Two Phase Flow Distribution and Its Influence in a Plate-Fin Heat Exchanger
- ❑ The BESIII Detector Magnet
- ❑ Thermal Design of BESIII Magnet

Xu R.P.

- ❑ Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature

Xu X.

- ❑ Development of a Three-Phase HTS Power Transformer

Xu X.D.

- ❑ Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Xu X.N.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source
- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-magnetic-Link

Xu Z.

- ❑ Technical Analyses of HTS Bulk Used in a Rotating Machine

Yamamoto A.

- ❑ Performance of Vibration-Free Pulse Tube Cryocooler System for a Gravitational Wave Detector

Yamamoto A.

- ❑ Conceptual Design of a 2kW Cryogenic System for the Neutrino Superconducting Beam Line Magnet System in the J-PARC 50GeV Proton Accelerator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Yamaoka H.

- ❑ [The Cryogenic System of BESIII in Preliminary Design](#)
- ❑ [The BESIII Detector Magnet](#)

Yan L.G.

- ❑ [Design Study of Conduction-Cooled High Temperature Superconducting Magnet](#)

Yan W.L.

- ❑ [Investigation on a Thermoacoustically Driven Pulse Tube Cooler Working at 82.5 K](#)

Yang C.G.

- ❑ [Optimal Vector Analysis of the Phase Shifter in the Pulse Tube Refrigerator](#)

Yang C.J.

- ❑ [Experimental Investigation on High Performance Cryogenic Heat Transfer Based Upon Natural Circulation Cooling](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Yang C.Z.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Yang D.S.

- ❑ Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature

Yang G.D.

- ❑ Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat
- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade

Yang H.

- ❑ The BESIII Detector Magnet

Yang H. S.

- ❑ Investigation of Thermal Insulation for HTS Cable Systems

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ High Precise Thermopower Measurement System and its Applying to Organic Conductors $(\text{TMTSF})_2\text{ClO}_4$ in a Direction
- ❑ Investigation of the Subcooled LN2 Characteristics in the Prototype Cryostat for the Resistive Superconducting Fault Current Limiter

Yang S. Q.

- ❑ The MICE Focusing Solenoids and Their Cooling System
- ❑ Modeling Free Convection Flow of Liquid Hydrogen Within a Cylindrical Heat Exchanger Cooled to 14K
- ❑ Modeling the Thermal Mechanical Behavior of a 300 K Vacuum Vessel that is Cooled by Liquid Hydrogen in Film Boiling

Yang X.C.

- ❑ A Prototype 4m, 2kA, AC HTS Power Cable System

Yang Y.

- ❑ Boiling Heat Transfer to Liquid Nitrogen Pool from Ag Sheathed PbBi2223 Tapes Carrying Over-Current

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Thermal Stability and Quench Propagation in a Cryocooler-Cooled Pancake Coil of Bi-2223 Tape Operating between 35K and 65K
- ❑ Fabrication and Characterization of Bi-2223 Coils for Generator Applications

Yao Z.H.

- ❑ Technical Analyses of HTS Bulk Used in a Rotating Machine

Yao Z.L.

- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Multi-Tube Power Leads Tower for BEPCII IR Magnets

Ye Y.

- ❑ Evaluation on Power System Transient Stability with Resistor Type SFCL and Parameter

Yeager C.

- ❑ Interchangeability of Diode Temperature Sensors for Various Nonstandard Excitation Currents

Main Menu

Authors

Click on title for a paper.



Papers by Author

- ❑ Characteristic Studies of Sputter Deposited Cermet Cryogenic Heaters

Yean S-C

- ❑ Experiment on Natural Convection of Subcooled Liquid Nitrogen

Yeom H.K.

- ❑ LN₂ Forced Flow Cooling on HTS Power Cables

Yi C.

- ❑ The BESIII Detector Magnet
- ❑ Thermal Design of BESIII Magnet

Yim S.W.

- ❑ Quench Characteristics of High- T_c Superconducting Tape for Alternating Over-Current Using DFT

Yin D.L.

- ❑ Extended Power Law of Nonlinear Transport Properties of Superconducting Materials

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

You G. C.

- ❑ [Experimental Study of the Narrow Channel Heat Transfer in Liquid Nitrogen](#)

You J.G.

- ❑ [Development and Testing of a Novel Thermal Switch](#)

Young E.A.

- ❑ [Boiling Heat Transfer to Liquid Nitrogen Pool from Ag Sheathed PbBi2223 Tapes Carrying Over-Current](#)

Yousuff H. M.

- ❑ [Liquid Hydrogen Droplet Generation from a Vibrating Orifice](#)

Yuan L.Z.

- ❑ [Study on Key-Tech Problems in Development of a Cold Neutron Source in China Advanced Research Reactor](#)

Yu J.

- ❑ [Direct Observation of Percolation and Phase Separation in \$\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3\$ System](#)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ The Reentrant Behaviour of Spin-Glass Phase in $(\text{La,Pr})_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Manganites

Yu L.M.

- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample

Yu L.N.

- ❑ A New Method for Uniformly Cooling Engineered Tissues

Yu Q.F.

- ❑ Study on Key-Tech Problems in Development of a Cold Neutron Source in China Advanced Research Reactor

Yu S. Z.

- ❑ Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator
- ❑ Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Yu X.

- ❑ Experimental Investigation on He II Porous Plug Liquid-Vapor Phase Separator

Yu Y.

- ❑ Physical Properties in Layered Transition-Metal Oxide Crystals and Anisotropic Transport Measurement

Yu Y.J.

- ❑ Design Study of Conduction-Cooled High Temperature Superconducting Magnet
- ❑ A Numerical Code to Simulate Quenching in Conduction Cooled Superconducting Magnet
- ❑ A New Concept of Bridge Fault Current Limiter-SMES for Interline Application to Improve Power Quality
- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES

Yu Z. B.

- ❑ Study on the Optimal Characteristic Dimension of Regenerator in a Thermoacoustic Engine

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Investigation on Acoustic Characteristics of Regenerator in the Thermoacoustic Apparatus
- ❑ Experimental Investigation on the Dynamic Character of Thermoacoustic Engine and Parameters of Regenerator

Yuan G.Q.

- ❑ Room Temperature Magnetic Refrigerator Using Both Metal Gd or/and Gd-Si-Ge Alloys and a Permanent Magnetic Field Source
- ❑ A New Method of Magnetizing and Demagnetizing the Magnetic Refrigerants by Dint of Dynamic-Magnetic-Link

Yuyama M.

- ❑ Normalized Representation for Steady State Heat Transport in a Channel Containing He II Covering Pressure Range Up to 1.5 Mpa

Zahn G.R.

- ❑ Design of a Cooling System for the Cold Test of the ITER TF Coils Before Installation

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhang B.S.

- ❑ Discussion on Resonant Frequency in Thermoacoustic Systems

Zhang C.

- ❑ The Characterization of Carbon Nanofibres Based on N₂ Adsorption Isotherms at 77K

Zhang F. Z.

- ❑ Stack and Frequency's Coupling Characteristic Analysis in Thermoacoustic Systems

Zhang G.Q.

- ❑ Shape Optimization of Field Windings in a High Temperature Superconducting Synchronous Generator with Finite Element Method
- ❑ Design of Cooling System and Temperature Characteristics Analysis of High Temperature Superconducting Demonstrative Synchronous Generator

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhang H. F.

- ❑ [A Thermodynamic Optimization of Counterflow Recuperative-Type Heat Exchangers](#)

Zhang J. C.

- ❑ [Direct Observation of Percolation and Phase Separation in \$\text{Pr}_{5/8}\text{Ca}_{3/8}\text{MnO}_3\$ System](#)
- ❑ [The Reentrant Behaviour of Spin-Glass Phase in \$\(\text{La,Pr}\)_{0.5}\text{Ca}_{0.5}\text{MnO}_3\$ Manganites](#)
- ❑ [Anisotropic Transport and Magnetic Properties of \$\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3\$ Single Crystal Sample](#)
- ❑ [Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy](#)

Zhang J.L.

- ❑ [The Experimental Study on the Performance of a Small-Scale Oxygen Concentrator by PSA](#)

Zhang J.Y

- ❑ [Property of Joint Resistance of Bi2223 Multi-Filament Tape by Using Sn-Pb Solder](#)

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhang K.

- ❑ Investigation of Header Configuration and its Effect on Flow Maldistribution in Plate-Fin Heat Exchanger

Zhang L.

- ❑ The Cryogenic System of BESIII in Preliminary Design
- ❑ Test Results and Analysis of Cryogenic System for Cooling HTS Cables and the Next Stage Plan
- ❑ Investigation of a Single-Stage G-M Refrigerator with High Cooling Capacity for HTS Devices
- ❑ Use of Ceramic Part in G-M Refrigerator
- ❑ The Design and Study of a Reciprocating Helium Compressor
- ❑ Thermal Design of BESIII Magnet

Zhang P.

- ❑ Film Boiling Modes in Weakly Subcooled He II Around Lambda Pressure
- ❑ Experimental Study of the Narrow Channel Heat Transfer in Liquid Nitrogen

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Observation of Various Boiling States in Nearly Saturated He II

Zhang S.Y.

- ❑ Study on Thermoacoustic Resonance Pipe Driven by Loudspeaker Using Two-Microphone Method

Zhang W.

- ❑ Experimental Study on a Split-Type Free-Piston Stirling Cooler for Space Applications

Zhang X.B.

- ❑ Numerical Simulation on Thermal Stress and Magnetic Force of Current Leads in BEPCII
- ❑ Cryogenic Facility Design in BEPCII Superconducting Upgrade
- ❑ Thermal Fluid Modeling of BEPCII IR Quadrupole Magnet Cryostat
- ❑ Multi-Tube Power Leads Tower for BEPCII IR Magnets

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhang X.J.

- ❑ Experimental Investigation on Heat Transfer Performance of a Cryogenic Thermosyphon
- ❑ Experimental Investigation on High Performance Cryogenic Heat transfer Based Upon Natural Circulation Cooling

Zhang X.Q.

- ❑ Lattice Gas Modeling of Thermoacoustic Oscillations
- ❑ Numerical Simulation of Loudspeaker-Driven Thermoacoustic Refrigerator

Zhang X.Y.

- ❑ Dependence of Structure and Magnetic Properties on Magnetic Field and Temperature for Bi-Mn Alloy

Zhang Y.

- ❑ Two-Dimensional Numerical Simulation of the Inertance Tube
- ❑ Thermoacoustic Turbulent-Flow Model for Inertance Tubes Used for Pulse Tube Refrigerators

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhang Y. H.

- ❑ A New Process for the Preparation of Polyimide/Silica Hybrid Films

Zhang Y.F.

- ❑ Anisotropic Transport and Magnetic Properties of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ Single Crystal Sample

Zhang Y.G

- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES

Zhang Y.H.

- ❑ Cryogenic Properties of Polymer Composite Materials – A Review
- ❑ Measurement of the Cryogenic Tensile Properties of Polymer Composites

Zhang Y.W.

- ❑ The Experimental Study on the Performance of a Small-Scale Oxygen Concentrator by PSA

Main Menu

Authors

Click on title for a paper.



Papers by Author

- ❑ [An Internet-Based Working Fluid Properties Database](#)

Zhang Z.

- ❑ [Study of Two Phase Flow Distribution and its Influence in a Plate-Fin Heat Exchanger](#)

Zhang Z.F.

- ❑ [Effects of Bias Power Supply on Bridge Type Superconducting FCL](#)

Zhao B.Z.

- ❑ [Design Study of Conduction-Cooled High Temperature Superconducting Magnet](#)

Zhao C.

- ❑ [Study on Key-Tech Problems in Development of a Cold Neutron Source in China Advanced Research Reactor](#)

Zhao C.H.

- ❑ [An Adaptive Neuro-Fuzzy Control Strategy for the Bridge Type Superconducting Fault Current Controller](#)

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

[Main Menu](#)

[Authors](#)

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ A Current Compensation Type Superconducting Fault Current Limiter
- ❑ Design and Primary Experiment for a Single Phase 220V/100A/6kW Bridge Fault Current Limiter-SMES

Zhao L.

- ❑ The BESIII Detector Magnet

Zhao L.P.

- ❑ Fractal Description of Thermal Contact Resistance Between Rough Surfaces at Low Temperature

Zhao M.G.

- ❑ Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators
- ❑ Design and Test of a 80 K Miniature Pulse Tube Cryocooler

Zhao X.

- ❑ Development of a Three-Phase HTS Power Transformer

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhao Y.

- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method
- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film

Zhao Z.L.

- ❑ The Thermodynamic Analysis and Adjusting Methods for Reliquefaction Plant on Board LEG Carriers

Zhao C.H.

- ❑ A New Concept of Bridge Fault Current Limiter-SMES for Interline Application to Improve Power Quality

Zheng Q.R.

- ❑ A Study of the Optimum Temperature for Hydrogen Storage on Carbon Nanostructures

Zheng W.H.

- ❑ Thermal Conductivity of Materials and Measuring System at Cryogenic Temperature

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhou G.

- ❑ A Cryostat with Optics Windows for Study of ICF Cryogenics Target
- ❑ Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target

Zhou J.

- ❑ The BESIII Detector Magnet

Zhou M. L.

- ❑ Influence of Ag Substrate Surface Condition on Surface Morphology of YBCO Film
- ❑ Dip-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Ag Substrate by MOD Method

Zhou Y.

- ❑ Experimental Analysis of the Oscillating Flow Characteristics for High Frequency Regenerators
- ❑ Design and Test of a 80 K Miniature Pulse Tube Cryocooler

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

- ❑ Characteristics of a Miniature Pulse Tube Cooler Driven by Thermoacoustic Standing Wave Engine
- ❑ Interference Characterization of Stirling-Type Nonmagnetic and Nonmetallic Pulse Tube Cryocoolers for High-Tc SQUIDs Operation

Zhou Y.X.

- ❑ Study on Electricity Generation Performance of Thermoelectric Device in Extreme Environmental Conditions
- ❑ A New Method for Uniformly Cooling Engineered Tissues

Zhu G.

- ❑ Optimization Analysis of Peakshaving Cycle to Liquefy the Natural Gas

Zhu H. M.

- ❑ Thermal Stress Analysis of Cryogenic Adhesive Joints for Non-Magnetic Dewar

Main Menu

Authors

Click on title for a paper.



Papers by Author

20th

International
Cryogenic
Engineering
Conference
(ICEC 20)

Zhu L.

- ❑ High Precise Thermopower Measurement System and its Applying to Organic Conductors $(\text{TMTSF})_2\text{ClO}_4$ in a Direction

Zhu W.X.

- ❑ Characteristics of a Miniature Pulse Tube Cooler Driven by Thermoacoustic Standing Wave Engine

Zhu Y. Q.

- ❑ Temperature Effects on Formation of a Uniform Layer of Isotopes Inside a Cryogenic ICF Target
- ❑ A Cryostat with Optics Windows for Study of ICF Cryogenics Target

Zhu Z.

- ❑ The Cryogenic System of BESIII in Preliminary Design
- ❑ The BESIII Detector Magnet
- ❑ Thermal Design of BESIII Magnet

Main Menu

Authors

Click on title for a paper.



Papers by Author

Zhu Z.H.

- ❑ Study of New Aerodynamic Foil Thrust Gas Bearing with Elastic Support for Cryogenic Turbo-Expander

Zhu Z.Q.

- ❑ Development of a Three-Phase HTS Power Transformer

Zhuang C.

- ❑ Property of Joint Resistance of Bi2223 Multi-Filament Tape by Using Sn-Pb Solder

20th
International
Cryogenic
Engineering
Conference
(ICEC 20)

Main Menu

Authors

Click on title for a paper.

