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# High Temperature Superconductor Rf Probes For Breast Cancer Research

□□□, Kiu-Chui Eddie Chan



## **High Temperature Superconductor Rf Probes For Breast Cancer Research:**

High Temperature Superconductor RF Probes for Breast Cancer Research, 2001 Nuclear magnetic resonance imaging and spectroscopy techniques have been used to study the breast cancer cells and tumor grown on animal The goal of this study is to gain knowledge which could be useful to improve the specificity of diagnosis and staging of breast cancer in clinic Intrinsically NMR techniques have weak signals which limit the ultimate spatial resolution in image and sensitivity in spectrum A high temperature superconductor RF probe has been constructed which has a Q value 650 to improve NMR sensitivity An improved cell perfusion system was made to continuously run spectroscopy study longer than 8 days Many phosphorus metabolites of MCF7 breast cancer cells have been identified There is a subtle difference between MCF7 WT and MCF7 ADR cells Glycerophosphocholine is lower than phosphocholine for the MCF7 ADR cells 2 Micro M Doxorubicin dramatically affected MCF7 WT cells but not MCF7 ADR cells T1 relaxation times of the phosphorus metabolites are measured The NMR spectrum shows significant lower PC and ATP and higher Pi signals in tumor than the muscle High resolution imaging technique with injection of contrast agent shows a significant non uniform image enhancement throughout the tumor Small blood vessels can be identified at peripherals but not at the core of tumor *High Temperature Superconductor RF Probes for Breast Cancer* Paul Wang, Howard Univ Washington DC, 1997 In the second year a HTc coil has been fabricated and tested The resonance frequency is within the target frequency range of the original design The Q value for the coil is 650 and it is expected to increase when the coil is operated below 40 deg K The metabolic and cell proliferation differences of MCF7 wild type cells and its multidrug resistant variants were studied Some subtle difference in the spectra from these two cell lines can not be confirmed This subtle difference may be detectable with the high sensitivity HTc probe

**INIS Atomindex**, 1996 Science Citation Index, 1993 Vols for 1964 have guides and journal lists *Design of High Temperature Superconductor RF Probe for Low Field Magnetic Resonance Imaging Scanner* 张, Kiu-Chui Eddie Chan, 2017-01-27 This dissertation Design of High Temperature Superconductor RF Probe for Low Field Magnetic Resonance Imaging Scanner by Kiu chui Eddie Chan was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3.0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author DOI 10.5353/th.b3122224 Subjects High temperature superconductors Design Magnetic resonance imaging *Design of High Temperature Superconductor RF Probe for Low Field Magnetic Resonance Imaging Scanner* Kiu-chui Chan (Eddie), University of Hong Kong, 2000 **Hyperthermia Treatment of Breast Cancer with RF Phased Array Applicator and RF/US Hybrid Applicator** Liyong Wu, 2006 **Study of Second Generation High Temperature Superconductors: Electromagnetic Characteristics and AC Loss Analysis** Boyang Shen, 2020-09-01 This thesis introduces a systematic study on Second Generation 2G High

Temperature Superconductors HTS covering a novel design of an advanced medical imaging device using HTS and an in depth investigation on the losses of HTS The text covers the design and simulation of a superconducting Lorentz Force Electrical Impedance Tomography This is potentially a significant medical device that is more efficient and compact than an MRI and is capable of detecting early cancer as well as other pathologies such stroke and internal haemorrhages It also presents the information regarding the fundamental physics of superconductivity concentrating on the AC losses in superconducting coils and tapes Overall the thesis signifies an important contribution to the investigation of High Temperature Superconductors This thesis will be beneficial to the development of advanced superconducting applications in healthcare as well as more broadly in electrical and energy systems **Study of Bi-2223 High Temperature**

**Superconducting Tapes for RF and Gradient Coils in Magnetic Resonance Imaging** ,2006 Study of Bi-2223 High Temperature Superconducting Tapes for RF and Gradient Coils in Magnetic Resonance Imaging Jing Yuan (Ph. D.),University of Hong Kong,2006 **Design and Implementation of High Temperature Superconducting (Hts) Tape RF Coil and Cryostat for MRI Applications** Yum-Wing Wong,2017-01-27 This dissertation Design and Implementation of High Temperature Superconducting HTS Tape RF Coil and Cryostat for MRI Applications by Yum wing Wong was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3 0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Abstract of thesis entitled Design and Implementation of High Temperature Superconducting HTS Tape RF Coil and Cryostat for MRI Applications Submitted by Wong Yum Wing For the Degree of Master of Philosophy At the University of Hong Kong In June 2006 Cryogenically cooled radiofrequency RF coils using high temperature superconducting HTS materials in the form of wire or tape have been shown to provide substantial signal to noise ratio SNR improvements in magnetic resonance imaging MRI at a relatively low cost but have not yet been widely adopted for clinical practice because the ceramic compounds used in their manufacture make them quite fragile In this study a novel method of fabricating HTS tape coil is proposed that provides considerably better protection An HTS tape surface coil was designed and implemented for human imaging and exhibited an SNR improvement of 350% over an equivalent room temperature copper coil at 0.21T An HTS volume coil for in vivo mice imaging was first demonstrated with an improvement of 270% in SNR A low cost cryogenic system was also designed and implemented and was able to maintain stable performance for at least half an hour These results suggest that HTS tape coils of different geometries and configurations with significant SNR improvements can be more easily realized and achieved at a relatively low cost which can be traded off for shorter acquisition time or higher resolution Potential applications include mice imaging which is important for basic research and clinical investigations and human imaging in both low and high field MRI systems DOI 10.5353/th\_b3710998 Subjects High temperature

**Design and Implementation of High Temperature Superconducting (Hts) Tape RF Coil and Cryostat for MRI Applications** Yum-Wing Wong,2017-01-27 This dissertation Design and Implementation of High Temperature Superconducting HTS Tape RF Coil and Cryostat for MRI Applications by Yum wing Wong was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3 0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Abstract of thesis entitled Design and Implementation of High Temperature Superconducting HTS Tape RF Coil and Cryostat for MRI Applications Submitted by Wong Yum Wing For the Degree of Master of Philosophy At the University of Hong Kong In June 2006 Cryogenically cooled radiofrequency RF coils using high temperature superconducting HTS materials in the form of wire or tape have been shown to provide substantial signal to noise ratio SNR improvements in magnetic resonance imaging MRI at a relatively low cost but have not yet been widely adopted for clinical practice because the ceramic compounds used in their manufacture make them quite fragile In this study a novel method of fabricating HTS tape coil is proposed that provides considerably better protection An HTS tape surface coil was designed and implemented for human imaging and exhibited an SNR improvement of 350% over an equivalent room temperature copper coil at 0.21T An HTS volume coil for in vivo mice imaging was first demonstrated with an improvement of 270% in SNR A low cost cryogenic system was also designed and implemented and was able to maintain stable performance for at least half an hour These results suggest that HTS tape coils of different geometries and configurations with significant SNR improvements can be more easily realized and achieved at a relatively low cost which can be traded off for shorter acquisition time or higher resolution Potential applications include mice imaging which is important for basic research and clinical investigations and human imaging in both low and high field MRI systems DOI 10.5353/th\_b3710998 Subjects High temperature

superconductors Materials Magnetic resonance imaging **RF Properties of High Temperature Superconductors**, 1990

A description of cavities used in the study of the microwave properties of the high temperature superconductors is followed by a lumped circuit analysis of the coupling of transmission lines and resonators The frequency dependence of the reflected and transmitted microwave power and the character of transient cavity response are analyzed Techniques are discussed for the introduction of samples of the high temperature superconductors into microwave cavities Following a discussion of sample surface impedance and sample geometry factor the connection between surface resistance and cavity Q is examined as well as the connection between cavity frequency shift and surface reactance Measurement techniques that utilize reflected or transmitted power or transient response are described 35 refs 1 fig

The Application of High Temperature Superconducting RF Coils to Magnetic Resonance Imaging and Microscopy Jason Miller, 1998 *High Temperature Superconducting RF Coil on 3T MRI System* [ ] [ ], 2007 Design and Implementation of High Temperature Superconducting (HTS) Tape Radiofrequency Coil and Cryostat for Magnetic Resonance Imaging [ ] [ ], University of Hong Kong, 2006

## Reviewing **High Temperature Superconductor Rf Probes For Breast Cancer Research**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**High Temperature Superconductor Rf Probes For Breast Cancer Research**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents High Temperature Superconductor Rf Probes For Breast Cancer Research**

1. Understanding the eBook High Temperature Superconductor Rf Probes For Breast Cancer Research
  - The Rise of Digital Reading High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Advantages of eBooks Over Traditional Books
2. Identifying High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an High Temperature Superconductor Rf Probes For Breast Cancer Research
  - User-Friendly Interface
4. Exploring eBook Recommendations from High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Personalized Recommendations
  - High Temperature Superconductor Rf Probes For Breast Cancer Research User Reviews and Ratings

- High Temperature Superconductor Rf Probes For Breast Cancer Research and Bestseller Lists
- 5. Accessing High Temperature Superconductor Rf Probes For Breast Cancer Research Free and Paid eBooks
  - High Temperature Superconductor Rf Probes For Breast Cancer Research Public Domain eBooks
  - High Temperature Superconductor Rf Probes For Breast Cancer Research eBook Subscription Services
  - High Temperature Superconductor Rf Probes For Breast Cancer Research Budget-Friendly Options
- 6. Navigating High Temperature Superconductor Rf Probes For Breast Cancer Research eBook Formats
  - ePub, PDF, MOBI, and More
  - High Temperature Superconductor Rf Probes For Breast Cancer Research Compatibility with Devices
  - High Temperature Superconductor Rf Probes For Breast Cancer Research Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Highlighting and Note-Taking High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Interactive Elements High Temperature Superconductor Rf Probes For Breast Cancer Research
- 8. Staying Engaged with High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers High Temperature Superconductor Rf Probes For Breast Cancer Research
- 9. Balancing eBooks and Physical Books High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection High Temperature Superconductor Rf Probes For Breast Cancer Research
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Setting Reading Goals High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Fact-Checking eBook Content of High Temperature Superconductor Rf Probes For Breast Cancer Research
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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