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Ministerio de Ciencia, Tecnología e Innovación Productiva

Susana Centeno
Representante
Marzo 22-23, 2010



Quien es IEEE?

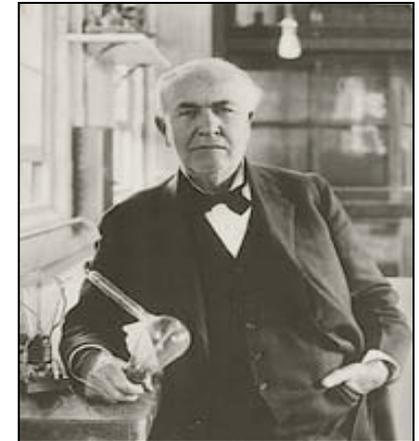
- Una sociedad sin fines de lucro
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 - Académica
 - Comercial
 - Editorial
 - Conferencias
 - Normas





13 de Mayo de 1884

The American Association of Electrical Engineer AIEE



Alexander Graham Bell Thomas A. Edison

Ayer.. 1909 hoy... 2009

Premio Nobel en Física



G. Marconi

1912 - IRE

Institute of Radio Engineers



Photo: Richard Epworth

Charles K. Kao

🕒 1/2 of the prize

Standard
Telecommunication
Laboratories
Harlow, United Kingdom;
Chinese University of
Hong Kong
Hong Kong, China



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Willard S. Boyle

🕒 1/4 of the prize

Bell Laboratories
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George E. Smith

🕒 1/4 of the prize

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Murray Hill, NJ, USA



Acceso
Contenido
Certificación

IEEE, diversidad en el contenido

IEEE Xplore incluye

renewable energy

AEROSPACE

SMART GRIDS

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optics

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semiconductors

IMAGING

CIRCUITS

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nanotechnology

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COMPUTING

wireless

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2009 - IEEE *Xplore* - 2010

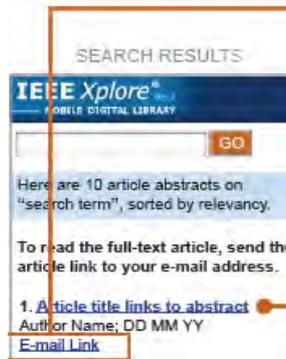


2009 Sello de agua

The screenshot shows a web browser window displaying an IEEE Xplore article. The browser's address bar shows the URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=4439814&isnumber=4439798>. The page header includes the IEEE Xplore logo and the text "Brought to you by IEEE Publications Staff". The article content is partially visible, discussing a model for the lactose regulation system. A large red watermark box is overlaid on the page, containing the text: "Authorized licensed use limited to: AT & T. Downloaded on October 18, 2008 at 11:02 from IEEE Xplore. Restrictions apply." Below the watermark, a red oval highlights a copyright notice: "© 2008 IEEE. Authorized licensed use limited to: IEEE Publications Staff. Downloaded on October 13, 2008 at 12:00 from IEEE Xplore. Restrictions apply." The IEEE logo is visible in the bottom right corner of the page.

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- **Acceso a 5 Applied Physics journals**
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Títulos agregados en el 2009

- IEEE Transactions on Computational Intelligence and AI in Games
- IEEE Transactions on Autonomous Mental Development
- IEEE Journal of Optical Communications and Networking
- IEEE Embedded Systems Letters
- IEEE Solid State Circuits Magazine
- IEEE Photonics Journal



Usuarios en todo el mundo contribuyeron con sus sugerencias al desarrollo de la nueva interfase IEEE Xplore

Los requerimientos de los usuarios

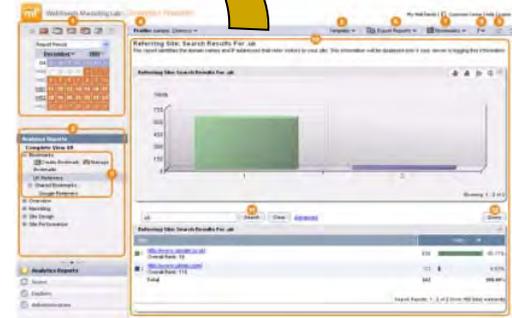


Entrevistas con:

- Usuarios
- Académico, Corporativo, Agencias de Gobierno
- Miembros, Voluntarios
- Bibliotecarios, Estudiantes, Profesores Investigadores



Nueva interfase
IEEE Xplore
Arquitectura nueva



Reportes analíticos

- Estadísticas de uso
- Investigaciones pasadas
- Los deseos de los usuarios

IEEE *Xplore* hoy



IEEE Xplore

- Rediseñada en un 100%
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- Motor de búsqueda muy potente
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&



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 - Textos de nivel introductorio y avanzado
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Content Area	Number of Titles
Communication, Networking & Broadcast Technologies	80
Components, Circuits, Devices & Systems	58
Fields, Waves & Electromagnetics	65
Power, Energy & Industry Applications	44
General Topics for Engineers (Math, Science & Engineering)	35
Computing & Processing (Includes Hardware & Software)	36
Signal Processing & Analysis	36
Robotics & Control Systems	17
Photonics & Electro-Optics	10
Bioengineering	10
RF / Microwave Theory & Techniques	3
Electrical Engineering Special Topics	1
Engineered Materials, Dielectrics & Plasmas	1
Intelligent Systems & Agents	1
Numerical Methods & Algorithms	1
<i>Principles of Data Conversion System Design</i>	1
Geoscience	1

Total 400

Nuevos Títulos en el 2010

- IEEE Transactions on Affective Computing
- IEEE **Biometrics** Compendium
- IEEE Magnetics Letters
- IEEE Transactions on **Smart Grid**
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HOT DISCUSSIONS

Windows Mobile 7 And Its Role In Your

IEEE 802 Committee Looks Back And Forward At 30 Years

By Doug Kohlentz - March 10, 2010

Few technology industry standards impact modern society as much as data networking. That's why the Institute of Electrical and Electronics Engineers will celebrate the IEEE 802 LANMAN Standards Committee's 30th birthday next week with a panel discussion, web site, and enthusiasm for several emerging standards that could further change the world.

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Páginas

1

2

3

4

5

HISTORY OF WIRELESS
by Tapan K. Sarkar, Robert J. Mailloux, Arthur A. Oliner,
Magdalena Salazar-Palma and Dipak L. Sengupta
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7

WIRELESS BEFORE MARCONI

I.V. LINDELL, *Helsinki University of Technology, Finland*

7.1 INTRODUCTION

In this short overview we consider steps leading to the introduction of the practical wireless telegraph by Marconi. The principle of operation in these pre-

11:23
20/03/2010

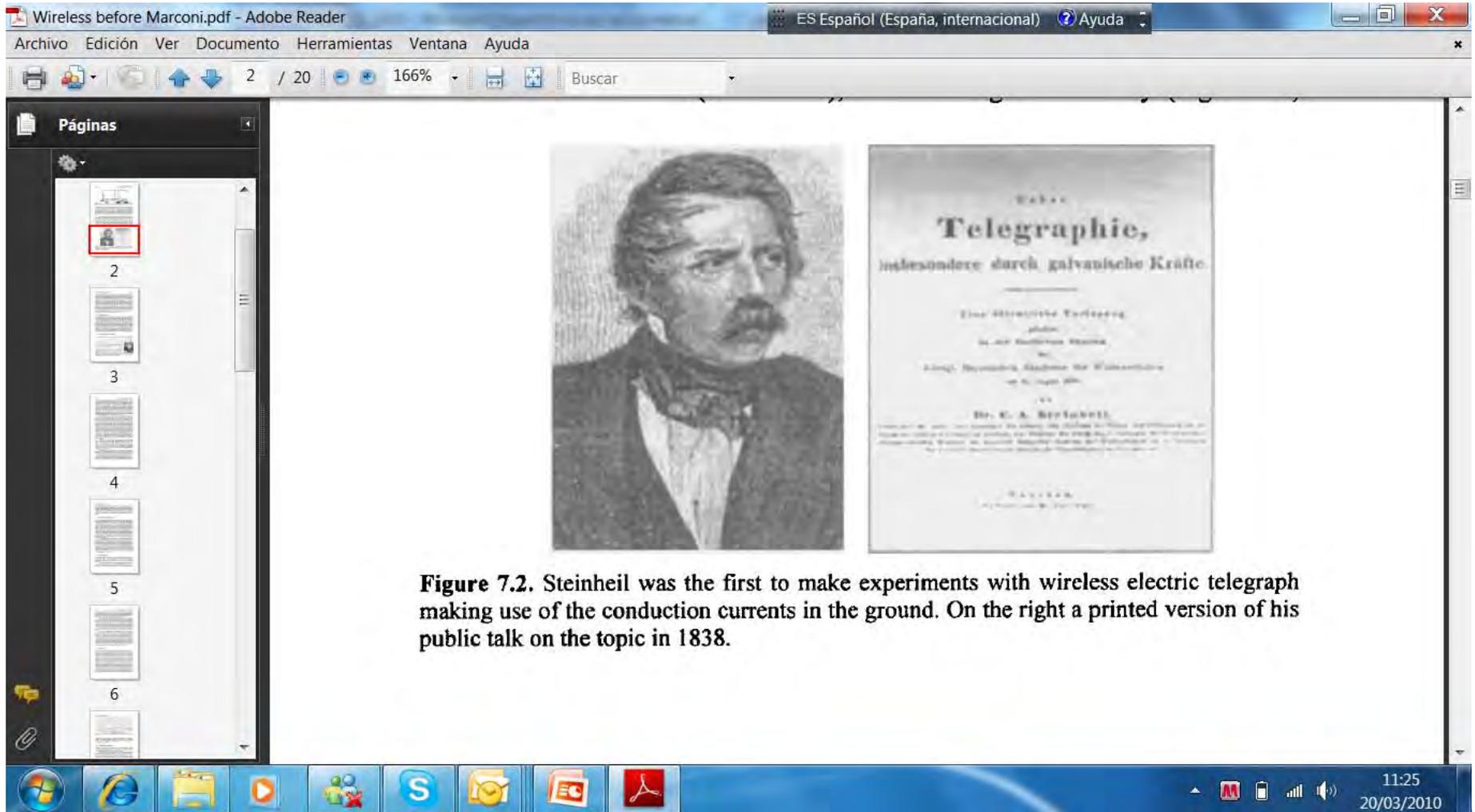


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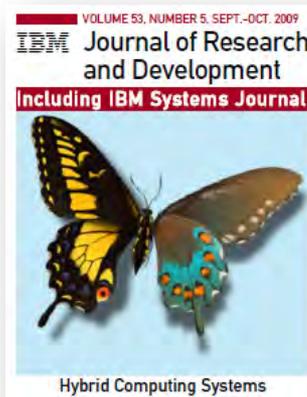


The screenshot shows the Adobe Reader interface. The main content area displays two side-by-side images. On the left is a black and white portrait of Carl Friedrich Steinheil, a man with a mustache wearing a dark coat and a white cravat. On the right is the cover of a book titled 'Telegraphie, insbesondere durch galvanische Kräfte.' The cover text includes 'Eine Abhandlung von Steinheil', 'von Carl Friedrich Steinheil', and 'Dr. C. F. Steinheil'. The left sidebar shows a page navigation pane with thumbnails for pages 2 through 6, with page 2 highlighted by a red box. The Windows taskbar at the bottom shows various application icons and system tray icons, including the date and time '11:25 20/03/2010'.

Figure 7.2. Steinheil was the first to make experiments with wireless electric telegraph making use of the conduction currents in the ground. On the right a printed version of his public talk on the topic in 1838.

IBM Journal

- En el año 2009, las revistas *IBM Journal of Research and Development* e *IBM Systems Journal* dejaron de publicarse en forma separada y su unión dió origen a *IBM Journal of Research and Development*
- Con IEEE Xplore 3.1, estará disponible con un archivo desde 1957



Biometría

- Realidad virtual? X-Men



- Esta disciplina es una realidad de frecuente aplicación hoy en día



IEEE Certified Biometrics Professional™ (CBP) Program

Entrenamiento : es un curso de ayuda para la preparación para el exámen. El mismo consiste en material impreso y "online". Este componente se llama Sistema de Aprendizaje de CBP.

Exámen. El exámen consiste en 150 preguntas "multiple choice"
Los candidatos tienen tres horas para completar el examen.

Las preguntas están relacionadas con temas desarrollado dentro de los 6 módulos principales del programa CBP.



Módulos del Sistema de Aprendizaje

- **1. Fundamentos en Biometría:** una introducción a la biometría, como y donde puede ser usada, y los componentes básicos del sistema.
- **2. Modalidades en Biometría:** visión general de cada una de las diferentes tecnologías en biometría, su funcionalidad (huellas digitales, iris, reconocimiento facial, patrones de las venas, etc.), ventajas de una sobre otra según la aplicación, guía práctica para su selección y aplicación, introducción a las nuevas tecnologías en el campo.
- **3. Diseño y Evaluación del sistema en Biometría:** como diseñar un sistema biométrico, probarlo, confirmar su funcionalidad y mantenerlo a salvo y seguro.
- **4. Estándares en Biometría:** una visión práctica sobre los estándares existentes y su aplicación
- **5. Implicaciones sociales, culturales y legales:** se esbozan las cuestiones que deben tenerse en cuenta para diseñar un sistema que sea aceptado por los usuarios.
- **6. Aplicaciones en Biometría:** ejemplos reales resaltando la aplicación de los conceptos dados en los otros módulos, para poder resolver desafíos en cuanto a la aplicación de la identificación y verificación en diferentes industrias.

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Highlights



Upcoming Publications in 2009

Six new journal titles will be introduced in 2009 offering an exciting array of information on emerging technical topics.

- IEEE Solid-State Circuits Magazine
- IEEE Transactions on Autonomous Mental Development
- IEEE/OSA Journal of Optical Communications and Networking

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- (1978 - 1993) [Components, Hybrids, and Manufacturing Technology, IEEE Transactions on](#)
- (1971 - 1977) [Parts, Hybrids, and Packaging, IEEE Transactions on](#)
- (1965 - 1971) [Parts, Materials and Packaging, IEEE Transactions on](#)

Publisher: IEEE ,

Details

[Aerospace and Electronic Systems Magazine, IEEE](#)

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(1994 - 1998) Components, Packaging, and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions

IEEE TRANSACTIONS ON ADVANCED PACKAGING

Early Access: ?

Year: 2009

Volume: Volume: 32 Issue: 4

Frequency: 2
ISSN: 1521-3323

Browsing Conferences

Browse > Conferences > Solid-State Circuits Conferenc... Page Help

Solid-State Circuits Conference, 2008. ISSCC 2008. Digest of Technical Papers. IEEE International

The 2nd Wave of the Digital Consumer Revolution: Challenges and Opportunities!

Hyung Kyu Lim
Page(s): 18 - 23
Digital Object Identifier : 10.1109/ISSCC.2008.4523048

[AbstractPlus](#) | Full Text: [PDF \(1888KB\)](#) | [Multimedia](#)

Consumers are now living in the era of the 2nd wave of the digital consumer revolution, where consumer lifestyle will be greatly enhanced. Most critically, the underlying human need to maximize the value of time, and provide "cool" experiences will drive the explosive growth of Internet services which provide vivid visual content. While many challenges and opportunities exist across the entire industrial value-chain for services, network infrastructure, and consumer products, technological innov... [Read More »](#)

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- [802.11w-2009 IEEE Standard for Information Technology -- Telecommunications and Information Exchange Between Systems -- Local and Metropolitan Area Networks -- Specific Requirements, Part 11: Wireless LAN Medium Access Control \(MAC\) and Physical Layer \(PHY\) Specifications](#)
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- [802.11y-2008 IEEE Standard for Information Technology--telecommunications and information exchange between systems--local and metropolitan area networks--specific requirements](#)
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- [802.11r-2008 Ieee standard for information technology-telecommunications and information exchange between systems-local and metropolitan area networks-specific requirements part 11: wireless lan medium access control \(mac\) and physical layer \(phy\) specifications amendment 2: fast basic service set \(bss\)](#)
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Six new journal titles will be introduced in 2009 offering an exciting array of information on emerging technical topics.

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- IEEE Transactions on Autonomous Mental Development
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sensor

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- Sensor Networks
- Sensor Network
- Sensor Arrays
- Sensor
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- Sensors, 2004. Proceedings Of IEEE
- Sensor Nodes
- Sensors, 2008 IEEE
- Sensors, 2007 IEEE
- Sensors, 2006. 5th IEEE Conference On
- Sensorless Control
- Sensors, 2005 IEEE
- Sensors, 2002. Proceedings Of IEEE
- Sensors, 2003. Proceedings Of IEEE
- Sensor Data
- Sensory Aids

Highlights

Offering an exciting array

Development and Networking

Search Results Page

REFINE THIS SEARCH

Search within results:

Publisher

- IEEE (41,771)
- IET (1,973)
- AIP (78)
- AVS (12)

Content Type

- Conferences (38,384)
- Journals (5,259)
- Early Access (160)
- Books (23)
- Standards (5)
- Educational Courses (3)

SEARCH RESULTS

You searched for: **sensor network**

Results per Page Showing 1 - 25 of 43,834 results [Next >](#)

Sort By:

[Distributed Asynchronous Clustering for Self-Organisation of Wireless Sensor Networks](#)

Hebden, P.; Pearce, A.R.
[Intelligent Sensing and Information Processing, 2006. ICISIP 2006. Fourth International Conference on](#)
Digital Object Identifier: [10.1109/ICISIP.2006.4286056](#)
Publication Year: 2006 , Page(s): 37 - 42

IEEE CONFERENCES

| Full Text: [PDF](#) (1407 KB)

Guided Navigation

The screenshot shows a search interface with a search bar containing the text "ener" and a "Search" button. Below the search bar are three facet panels:

- Publisher**:
 - IEEE (204)
 - IET (4)
 - AIP (1)
 - AVS (1)
- Content Type**:
 - Conferences (175)
 - Journals (32)
 - Early Access (3)
- Author**:

Search for Author

 - Benini, L. (9)
 - White, N.M. (6)
 - Harris, N.R. (6)
 - Amirtharajah, R. (6)
 - Seah, W.K.G. (5)
 - Smith, J.R. (4)
 - Thiele, L. (4)
 - Moser, C. (4)

You have selected:

- Brunelli, D. (8)

Add additional search terms to refine search

Narrow search by facets such as Publisher, Content Type and Author

Modified Search Results

SEARCH RESULTS

You searched for: **sensor network energy harvest***

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[Efficient Energy Harvesting](#)
Le, T.; May
[Solid-State](#)
Volume: 4
Digital Obj
Publication Year: 2008 , Page(s): 1287 - 1302
Publication Year: 2008 , Page(s): 2759 - 2766

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Query:
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You Refined For: Author[Brunelli, D.]
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Solar lighting system

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Advanced Search

Enter keywords or phrases, select fields, and select operators

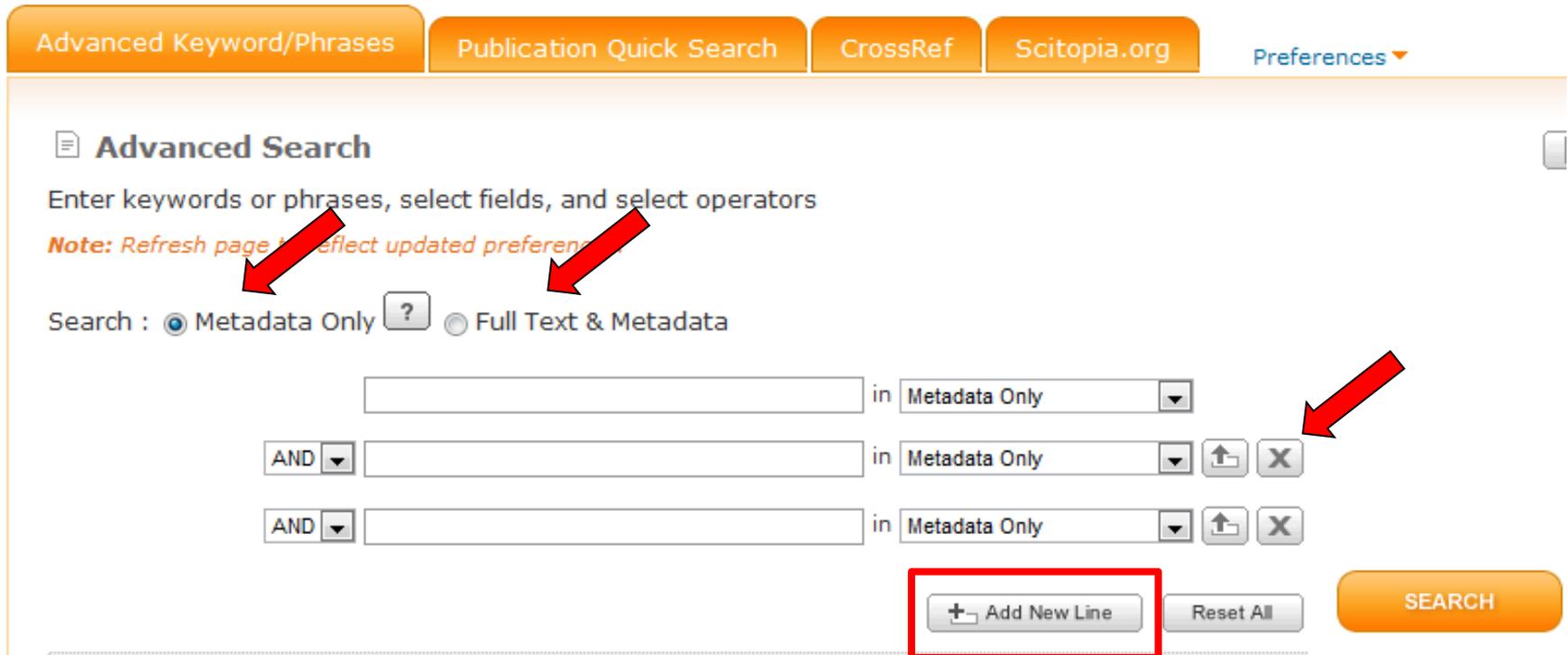
Note: Refresh page to reflect updated preferences

Search : Metadata Only Full Text & Metadata

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AND in Metadata Only

AND in Metadata Only

The image shows a screenshot of the IEEE Advanced Search interface. At the top, there are navigation tabs: "Advanced Keyword/Phrases", "Publication Quick Search", "CrossRef", "Scitopia.org", and "Preferences". Below these is the "Advanced Search" section. It includes a heading "Advanced Search" and a sub-heading "Enter keywords or phrases, select fields, and select operators". A note says "Note: Refresh page to reflect updated preferences". There are two radio buttons for search scope: "Metadata Only" (selected) and "Full Text & Metadata". Below this are three search rows, each with a text input field, a dropdown menu set to "Metadata Only", and a small "X" button. The first row is empty. The second and third rows have "AND" dropdown menus. At the bottom, there is a red-bordered button labeled "+ Add New Line", a "Reset All" button, and a large orange "SEARCH" button. Three red arrows point to the "Metadata Only" radio button, the "Full Text & Metadata" radio button, and the "Add New Line" button.

Advanced Search

▼ Publisher

Return Results from IEEE (2,055,023) AIP (234,403) IET (146,070) AVS (33,769)

▼ Content Types

- Conferences (1,504,715)
- Journals (955,963)
- Early Access (4,350)
- Standards (3,427)
- Books (709)
- Educational Courses (101)

▼ Subjects

- Components, Circuits, Devices & Systems (1,063,823)
- Computing & Processing (Hardware/Software) (967,544)
- Engineered Materials, Dielectrics & Plasmas (628,646)
- Communication, Networking & Broadcasting (587,500)
- Signal Processing & Analysis (566,786)
- Power, Energy, & Industry Applications (504,636)
- Fields, Waves & Electromagnetics (458,351)
- Photonics & Electro-Optics (445,286)
- Bioengineering (419,586)
- General Topics for Engineers (Math, Science & Engineering) (384,377)
- Aerospace (272,420)
- Robotics & Control Systems (254,527)
- Engineering Profession (78,883)
- Nuclear Engineering (75,739)
- Geoscience (66,403)
- Transportation (65,262)

▼ Publication Year

- Search latest content update (11/09/2009)
- Specify Year Range From: To:
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Advanced Search

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REFINE THIS SEARCH

Search within results:

Publisher

- IEEE (46)
- AIP (3)
- AVS (2)
- IET (1)

Content Type

- Conferences (29)
- Journals (23)

Author

Search for Author

- Banerjee, S.K. (7)
- Sarkar, J. (5)
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SEARCH RESULTS

You searched for: **((("flash memory") AND "floating gate") AND nano*)**

Results per Page Showing 1 - 25 of 52 results [Next >](#)

Sort By: [Select All](#) | [Deselect All](#)

- [Radiation-Induced Modifications of the Electrical Characteristics of Nanocrystal Memory Cells and Arrays](#)
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[Nuclear Science, IEEE Transactions on](#)
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Radiation-Induced Modifications of the Electrical Characteristics of Nanocrystal Memory Cells and Arrays



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ABSTRACT

Proton irradiation of nanocrystals memories produces peculiar radiation effects on the electrical characteristics of these devices, owing to their thin tunnel oxide and to the presence of nanocrystals replacing the conventional **flash memory floating gate**. In this work, we show that the data retention capability is compromised only after high fluences and that irradiated devices do not show accelerated degradation during subsequent electrical stresses. The presence of nanocrystals instead of a **floating gate** reduces also the quantity of charge lost during irradiation, indicating these devices as possible candidates for space and avionic environments

INDEX TERMS

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CMOS memory integrated circuits , avionic environments , conventional **flash memory floating gate** , electrical characteristics , nanocrystal memory arrays , nanocrystal memory cells , nonvolatile memories , proton irradiation , radiation effects , space environments , thin tunnel oxide
- **Author Keywords**
CMOS memory integrated circuits , nonvolatile memories , proton irradiation , radiation effects

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