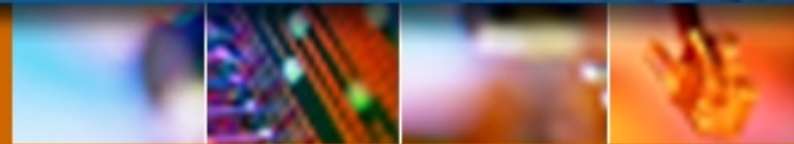


IEEE Xplore[®]

IEEE Information Driving Innovation

Welcome to the IEEE Xplore Tutorial



Overview

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- [Browsing the Tables of Contents](#)
- [Author Search](#)
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What is IEEE Xplore?

- IEEE Xplore is an online delivery system

The screenshot shows the IEEE Xplore website interface. At the top, it says "IEEE Xplore® RELEASE 1.8" and "Welcome IEEE Sales and Marketing Staff". Below this is a navigation bar with links for "Help", "FAQ", "Terms", "IEEE Peer Review", and "Over 1,062,489 documents available". There is also a "Home" link.

The main content area features a news announcement: "IEEE ANNOUNCES NEW RELEASE FOR IEEE Xplore ENHANCEMENTS - [LEARN MORE.](#)" Below this, it states: "IEEE Xplore provides full-text access to IEEE transactions, journals, magazines and conference proceedings published since 1988 plus select content back to 1950, and all current IEEE Standards."

There are three main sections on the left side of the page:

- Welcome to IEEE Xplore***: Includes links for Home, What Can I Access?, and Log-out.
- Tables of Contents**: Includes links for Journals & Magazines, Conference Proceedings, and Standards.
- Search**: Includes links for By Author, Basic, and Advanced.
- Member Services**: Includes links for Join IEEE, Establish IEEE Web Account, and Access the IEEE Member Digital Library.

On the right side, there is a "Cookies Enabled" notification, a "Quick Links" section with links for New This Week, OPAC Linking Information, Email Alerts, Your Feedback, Technical Support, No Robots Please, Release Notes, and IEEE Online Publications. At the bottom right, there is a "GO TO IEEE SPECTRUM ONLINE" button.

- Provides full text access to IEEE's transactions, journals, magazines and conference proceedings published since 1988 and all current IEEE standards, plus select content back to the 1950's
- Serves IEEE members as well as subscribing users to IEEE online publication collections

www.ieee.org/ieeexplore

What is IEEE Xplore? (cont.)

- IEEE Xplore powers several IEEE online collections for organizations as well as IEEE member subscriptions
 - IEEE/IEE Electronic Library (IEL)
 - IEEE All-Society Periodicals Package (ASPP)
 - IEEE Proceedings Order Plans (POP and POP All)
 - IEEE Enterprise
 - IEEE Member Digital Library (MDL)

www.ieee.org/ieeexplore

Browsing Tables of Contents

- To browse Tables of Contents, start with a specific journal, proceeding, or standard
- To browse a specific journal, locate Tables of Contents and click Journals & Magazines



IEEE Xplore
RELEASE 1.8

Welcome
IEEE Sales and Marketing Staff

Help FAQ Terms IEEE Peer Review Over 1,062,489 documents available » Home

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IEEE ANNOUNCES NEW RELEASE FOR IEEE Xplore ENHANCEMENTS - [LEARN MORE](#).

IEEE Xplore provides full-text access to IEEE transactions, journals, magazines and conference proceedings published since 1988 plus select content back to 1950, and all current IEEE Standards.

FREE TO ALL: Browse tables of contents and access Abstract records of IEEE transactions, journals, magazines, conference proceedings and standards.

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CORPORATE, GOVERNMENT AND UNIVERSITY SUBSCRIBERS: Search and access complete Abstract records and full-text documents of the IEEE online publications to which your institution subscribes.

Cookies Enabled
Click for more information

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- ▶ [OPAC Linking Information](#)
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- ▶ [Your Feedback](#)
- ▶ [Technical Support](#)
- ▶ [No Robots Please](#)
- ▶ [Release Notes](#)
- ▶ [IEEE Online Publications](#)

For the latest in Technology news.
GO TO
IEEE SPECTRUM
ONLINE

Browsing Tables of Contents (cont.)

- Browse journal titles by discipline/keyword
 - In the alphabetic listing, ignore the letter “J” such as in “Journal of Lightwave Technology.” No journals are listed under the letter “J.” Instead search under “Lightwave.”
- Browse tables of contents within all available issues of a publication



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- Journals & Magazines**
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Search

- By Author
- By Title

Quick Find a Journal:
Enter a keyword to quickly locate journal titles containing that keyword.

Note: This function returns plural and suffixed forms of the keyword.
OR
Select a letter to browse the journals list

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 | ALL

IEEE - Lightwave Technology, Journal of

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 | ALL

Author Search

- IEEE Xplore enables you to search by author:
 - To begin, locate Search on the navigation menu and click “By Author”
 - “Search By Author” lets you search on complete surnames, or on partial surnames
 - If you’re not sure how to spell the name, you can also click a letter to browse a list of names beginning with this letter

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- By Author**
- Basic
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Member Services

Quick Find an Author:

Enter a last name to quickly locate articles by that author.

Note: You may enter a partial name if you are unsure of the spelling.
OR
 Select a letter to browse the author list

[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](#) | [ALL](#)

A Min Tjoa	A'ain A. K.	A'ain A. K. B.	A'Hearn K.	A'Ortendahl D.
A-Chang Hsu	A-Cheng Wu	A-Firma T.	A-Ping Zhang	A-Rahim A. A.
A-Rum Jun	A. Aspect	A. C. Tsoi	A. I. Pegarkov	A. Lukashov
A. N. Maltsev	A. Oh	A. Rosenhouse-Dantsker	A. T. S. Wee	A. Wunsche

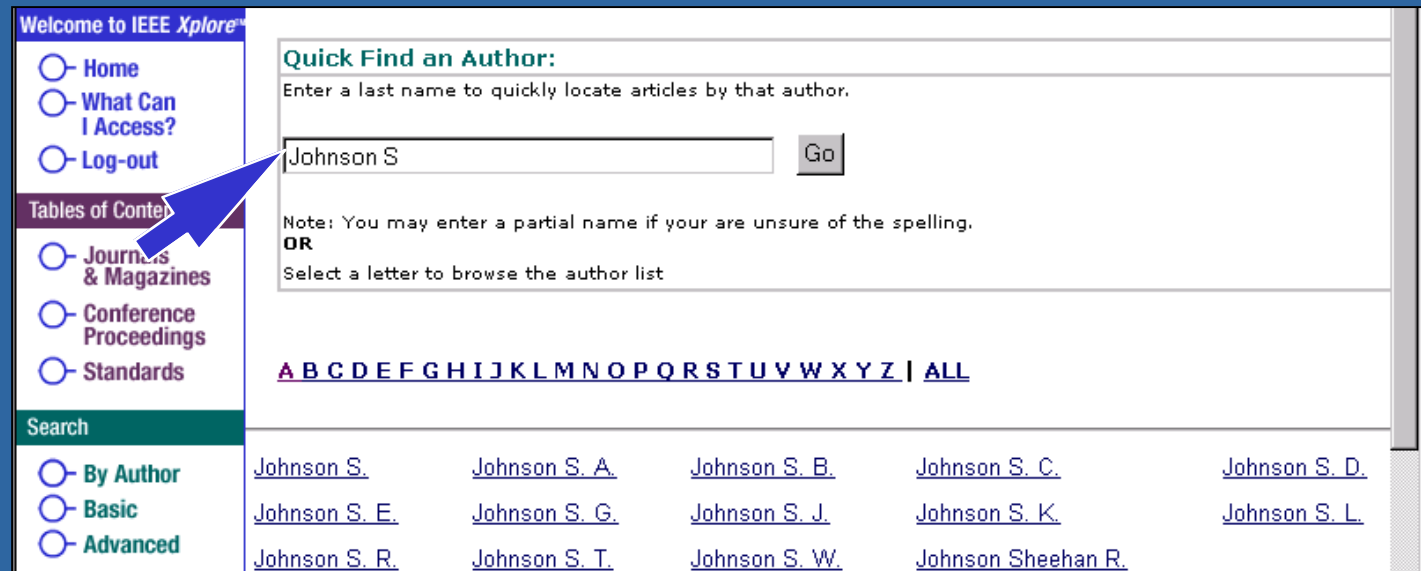
Author Search (cont.)

Quick find an author box

HINTS:

- Last name(space)first initial(period)(space)middle initial(period)
- Do not enter a comma or full first name

Example: Johnson S. W. or Johnson S.



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Search

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Quick Find an Author:
Enter a last name to quickly locate articles by that author.

Johnson S

Note: You may enter a partial name if you are unsure of the spelling.
OR
Select a letter to browse the author list

[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](#) | [ALL](#)

Johnson S.	Johnson S. A.	Johnson S. B.	Johnson S. C.	Johnson S. D.
Johnson S. E.	Johnson S. G.	Johnson S. J.	Johnson S. K.	Johnson S. L.
Johnson S. R.	Johnson S. T.	Johnson S. W.	Johnson Sheehan R.	

Basic Search

- Basic Search can help you define your search
 - No need to know query language syntax
 - To begin, locate Search on the navigation menu and click Basic
 - With Basic Search, you can define up to three search phrases (strings) and specify the fields in which IEEE *Xplore* searches for them

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Search

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- Advanced

Member Services

- 1) Enter keywords in one or more text boxes.
- 2) Select the fields to search for each keyword.
- 3) Select search operators when using multiple keywords.
- 4) Limit the results by selecting Search Options.
- 5) Click Search. See [Search Examples](#)

In: All Fields
 And
 In: Abstract
 And
 In: All Fields

Search Options:
Select publication types:

- IEEE Journals
- IEE Journals
- IEEE Conference proceedings
- IEE Conference proceedings
- IEEE Standards

Select years to search:
 From year: All to Present

Organize search results by:
 Sort by: Relevance
 In: Descending order
 List 15 Results per page

Search Clear

Basic Search (cont.)

- Search Options enable you to:
 - Limit the search by type of publication
 - Specify what years IEEE *Xplore* searches
 - Determine how IEEE *Xplore* displays your results

1) Enter keywords in one or more text boxes.
 2) Select the fields to search for each keyword.
 3) Select search operators when using multiple keywords.
 4) Limit the results by selecting Search Options.
 5) Click Search. See [Search Examples](#)

University of ABC In: Affiliation
 And Title
 Author
 Publication Name
 Abstract
 Index Terms
 Affiliation
 All Fields
 In: All Fields

Search Clear

Note: This function returns plural and suffixes of the keyword(s).

Search Options:
Select publication types:
 IEEE Journals
 IEE Journals
 IEEE Conference proceedings
 IEE Conference proceedings
 IEEE Standards

Select years to search:
 From year: All to Present

Organize search results by:
 Sort by: Relevance
 In: Descending order
 List 15 Results per page

Basic Search (cont.)

- HINT: Search by Affiliation**

- Under Basic Search one of the fields is "affiliation"
- To search for a specific author from an organization, put the name of the organization in the search box and change the field to affiliation

1) Enter keywords in one or more text boxes.
 2) Select the fields to search for each keyword.
 3) Select search operators when using multiple keywords.
 4) Limit the results by selecting Search Options.
 5) Click Search. See [Search Examples](#)

University of ABC In: Affiliation
 And
 In: Abstract
 And
 In: All Fields

Search Clear

Note: This function returns plural and suffixed forms of the keyword(s).

Search Options:
Select publication types:

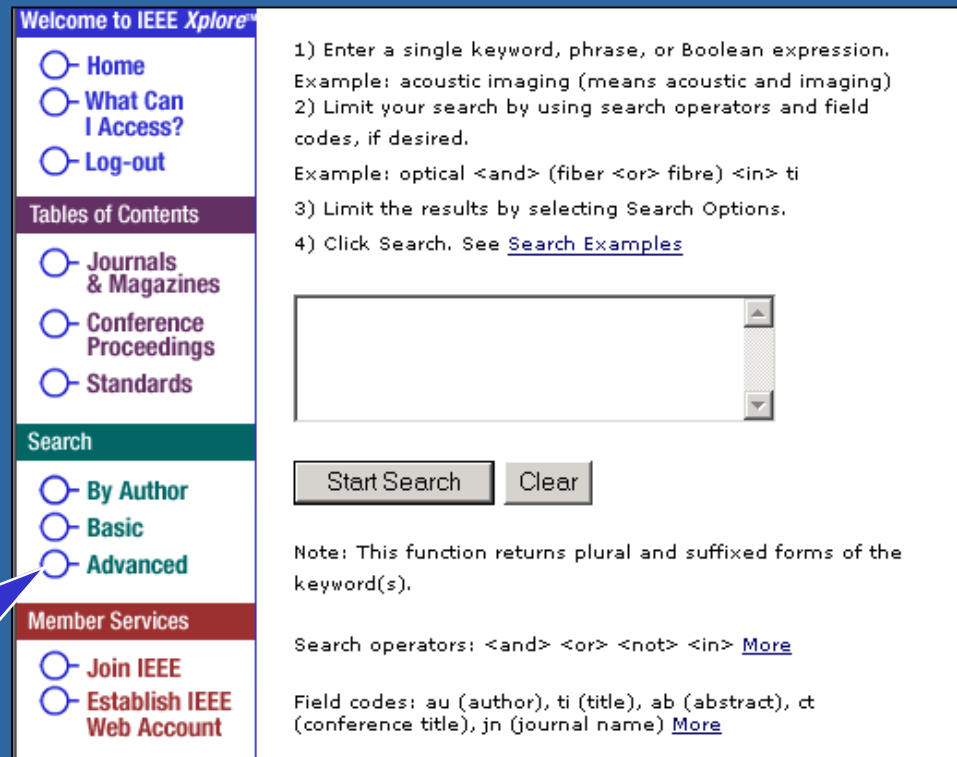
IEEE Journals
 IEE Journals
 IEEE Conference proceedings
 IEE Conference proceedings
 IEEE Standards

Select years to search:
 From year: All to Present

Organize search results by:
 Sort by: Relevance
 In: Descending order
 List 15 Results per page

Advanced Search

- If you are an experienced searcher:
 - You can use IEEE *Xplore*'s query language syntax to do an Advanced Search
 - Advanced Search lets you define any number of search phrases (strings) and use logical, proximity, thesaurus, and wildcard operators



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Member Services

- Join IEEE
- Establish IEEE Web Account

- 1) Enter a single keyword, phrase, or Boolean expression.
Example: acoustic imaging (means acoustic and imaging)
- 2) Limit your search by using search operators and field codes, if desired.
Example: optical <and> (fiber <or> fibre) <in> ti
- 3) Limit the results by selecting Search Options.
- 4) Click Search. See [Search Examples](#)

Start Search Clear

Note: This function returns plural and suffixed forms of the keyword(s).

Search operators: <and> <or> <not> <in> [More](#)

Field codes: au (author), ti (title), ab (abstract), ct (conference title), jn (journal name) [More](#)

Advanced Search (cont.)

- **Field codes** - Use the codes listed on the right with the <in> operator to specify a particular field for searching

Abstract - ab
 Affiliation - cs
 Article Title - ti
 Author(s) - au
 Catalog number - ca
 CODEN - cn
 Conference date - cy
 Conference title - ct
 Editor(s) - au
 ISBN - in
 ISSN - in
 Issue number - is
 Issue part number - pt

Journal name - jn
 Meeting date - cy
 Part number - pt
 Publication name - jn
 Subject term - de
 Title - ti
 Volume - vo

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Example: optical <and> (fiber <or> fibre) <in> ti

3) Limit the results by selecting Search Options.

4) Click Search. See [Search Examples](#)

Start Search Clear

Note: This function returns plural and suffixed forms of the keyword(s).

Search operators: <and> <or> <not> <in> [More](#)

Field codes: au (author), ti (title), ab (abstract), ct (conference title), jn (journal name) [More](#)

Advanced Search (cont.)

- **Search operators** - Use logical operators (also called Boolean operators) to express relationships between search expressions. Logical operators include:

<and> 2 words or phrases must occur

<or> 1 or both words or phrases must occur

<not> word or phrase must not occur

<in> word or phrase must be in a specific field

<near/N> search term must be within N words of each other

<paragraph> search terms must be in the same paragraph

<phrase> search terms must appear in the same phrase

<sentence> search terms must appear in the same sentence

<thesaurus> search for words with similar meaning to the search word

<stem> x find variations; don't score results

<word> x search for an exact match

- All need to be in <>

Basic & Advanced Search Tips

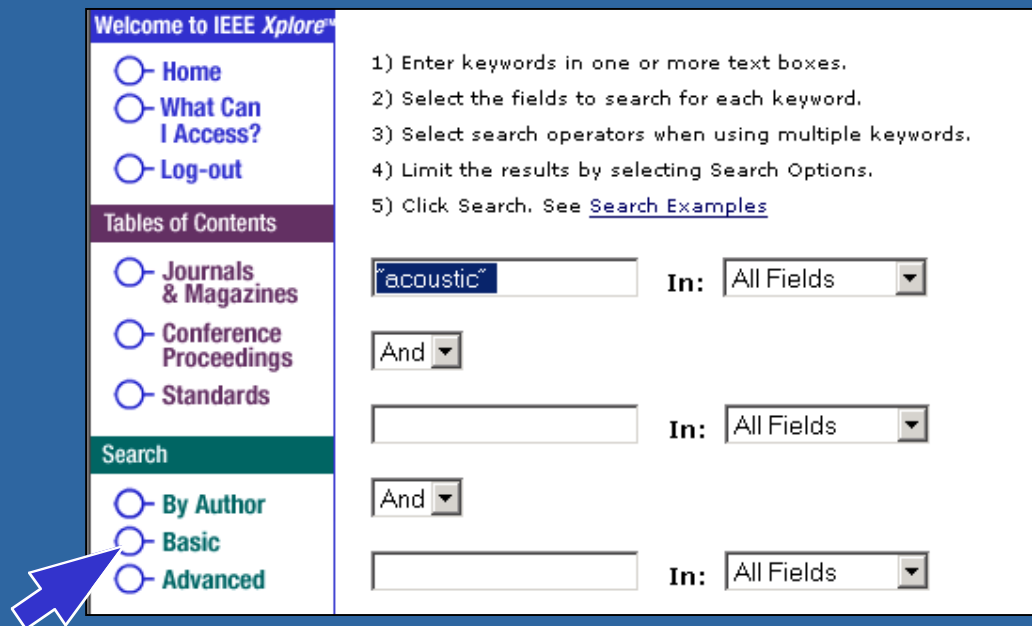
- **Wildcard**

- The “*” wildcard represents any or no characters
 - Ex. *sed* returns results of “sediment” or “based”
- The “?” wildcard represents any single character
 - Ex. Fib?? returns results of “fiber” or “fibre”

HINT: Wildcards can also be used to truncate words before non-English characters such as an umlaut (ü) or an accent (é). Since these characters cannot be searched, a word such as the author name Grundström should be searched as Grundstr*

Basic & Advanced Search Tips (cont.)

- Use Quotation Marks around a word to indicate a search for exact wording & spelling with no word stem variations
 - Ex. A search on “acoustic” with quotations would NOT search for results on variant terms such as acoustics or acoustical



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- 1) Enter keywords in one or more text boxes.
- 2) Select the fields to search for each keyword.
- 3) Select search operators when using multiple keywords.
- 4) Limit the results by selecting Search Options.
- 5) Click Search. See [Search Examples](#)

“acoustic” In: All Fields

And

In: All Fields

And

In: All Fields

Other Search Tips

- **Search Again**

- Link within results page to begin a brand new search

- **Search Results Options**

- Sort by score, year, publication title
- In descending or ascending order
- Select / deselect IEEE or IEE content

- **See the latest articles published online, but not yet available in print**

- Key in "Accepted for Future" in a search field
- Also available from ToC for select publications

- **Check the abstract page for other ways to navigate through the content**

- By author, index term, and linked references

1) Enter keywords in one or more text boxes.
 2) Select the fields to search for each keyword.
 3) Select search operators when using multiple keywords.
 4) Limit the results by selecting Search Options.
 5) Click Search. See [Search Examples](#)

University of ABC In: Affiliation
 And Title
 Author
 Publication Name
 Abstract
 Index Terms
 Affiliation
 All Fields
 In: All Fields

Search Clear

Note: This function returns plural and suffixed forms of the keyword(s).

Search Options:
Select publication types:

IEEE Journals
 IEE Journals
 IEEE Conference proceedings
 IEE Conference proceedings
 IEEE Standards

Select years to search:
 From year: All to Present

Organize search results by:
 Sort by: Relevance
 In: Descending order
 List 15 Results per page

Systems, Man and Cybernetics, Part B, IEEE T on

[Accepted for future Publication](#)

Issues of Year: 2004

[Aug. 2004, Vol.34, Issue 4](#)

[June 2004, Vol.34, Issue 3](#)

[April 2004, Vol.34, Issue 2](#)

[Feb. 2004, Vol.34, Issue 1](#)

Other Years:

[2003](#) [2002](#) [2001](#)

[2000](#) [1999](#) [1998](#)

[1997](#) [1996](#)

For IEEE Members and Publicat

To quickly search the abstract and citati publication:

- 1) Enter a keyword, phrase, or Boolean Example: acoustic imaging
- 2) Click Search.

Search

Note: This function returns plural and su keyword(s).

Publication Information:

[About this publication;](#)
[IEEE Information for Authors;](#)

Viewing an Abstract Record

- After searching, IEEE Xplore displays a list of documents that fit your search criteria
- If your Society membership or institution provides access to the publication, you can click one of these links to view the Abstract or the PDF Full-Text document

The screenshot shows the IEEE Xplore website interface. At the top, there are navigation links: Membership, Publications/Services, Standards, Conferences, and Careers/Jobs. The main header features the IEEE Xplore logo (RELEASE 1.4) and a welcome message from the IEEE Sales and Marketing Staff. Below the header, there are links for Help, FAQ, Terms, IEEE Peer Review, and a Quick Links dropdown menu. A search bar contains the text '(Nanotechnology)' and a 'Search Again' button. The search results section shows 1416 of 794619 documents matched, sorted by publication year in descending order. The first result is titled 'Two-dimensional self-consistent simulation of a triangular p-channel SOI nano-flash memory device' by Xiaohui Tang, Baie, X., Colinge, J.-P., Gustin, C., and Bayot, V. The page(s) are 1420-1426. Below the title, there are links for '[Abstract]', '[PDF Full-Text (367 KB)]', and 'JNL'. Two blue arrows point to the 'Abstract' and 'PDF Full-Text' links. The second result is partially visible, titled 'Growth of Si... nanostructures on Si substrates using ultrathin SiO/sub 2/ technolo...'. The browser status bar at the bottom shows 'Done' and 'Internet'.

Viewing an Abstract Record (cont.)

◆ When you select the Abstract, you see:

- Names of article, authors, editors, and publisher
- Page numbers and date
- Volume and issue
- Identification codes
- Number of references

The screenshot shows the IEEE Xplore website interface. At the top, there are navigation links for Membership, Publications/Services, Standards, Conferences, and Careers/Jobs. The main header features the IEEE Xplore logo and the text 'Welcome IEEE Sales and Marketing Staff'. Below the header is a search bar and a 'Quick Links' dropdown menu. The main content area displays the search results for a paper titled 'Two-dimensional self-consistent simulation of a triangular p-channel SOI nano-flash memory device'. The authors listed are Xiaohui Tang, Baie, X., Colinge, J.-P., Gustin, C., and Bayot, V. The paper is published in 'Electron Devices, IEEE Transactions on' in August 2002, Volume 49, Issue 8. The page number is 1420-1426. The abstract text describes the simulation of a SOI nano-flash memory device, mentioning the use of TSUPREM-4 and 2-D self-consistent solutions of the Poisson and Schrodinger equations.

Membership Publications/Services Standards Conferences Careers/Jobs

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SEARCH RESULTS [PDF Full-Text (367 KB)] NEXT DOWNLOAD CITATION

Two-dimensional self-consistent simulation of a triangular p-channel SOI nano-flash memory device
- [Xiaohui Tang](#), [Baie, X.](#), [Colinge, J.-P.](#), [Gustin, C.](#), [Bayot, V.](#)
Microelectron. Lab., Univ. Catholique de Louvain, Belgium
This paper appears in: Electron Devices, IEEE Transactions on
On page(s): 1420 - 1426
Aug. 2002
Volume: 49 Issue: 8
ISSN: 0018-9383
References Cited: 19
CODEN: IETDAI
INSPEC Accession Number: 7345232

Abstract:
This paper presents the simulation of an SOI nano-flash memory device. The device is composed of a triangular quantum wire channel p-MOSFET with a self-aligned nano-floating gate embedded in the gate oxide. The simulation is carried out by combining TSUPREM-4 and a two-dimensional (2-D) self-consistent solution of the Poisson and Schrodinger equations. The fabrication process as well as quantum physics are taken into account. Hole distribution in the inversion layer of the triangular channel section is calculated in terms of wave functions and energy subbands. The threshold voltage shift

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Abstract Record Links

- **Links from Author Names**
 - Enables users to quickly perform an author search from an abstract record on the entire database without leaving the existing page or entering new search criteria
- **Links from Index Terms**
 - By selecting one of the hyperlinked index terms within the abstract record, a search is initiated on all documents in the database containing the selected index term

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[NEXT](#)
[DOWNLOAD CITATION](#)

Layout optimization for erbium-doped waveguide amplifiers


- [Lowe, D.](#) [Syms, R.R.A.](#) [Weibin Huang](#)
 Dept. of Electr. & Electron. Eng., Imperial College of Sci., Technol. & Med., London, UK
This paper appears in: Lightwave Technology, Journal of Lightwave Technology
 On page(s): 454 - 462
 March 2002
 Volume: 20 Issue: 3
 ISSN: 0733-8724
 References Cited: 32
 CODEN: JLTEDG
 INSPEC Accession Number: 7206964

Abstract:
 The optical layout of erbium-doped waveguide amplifiers (EDWAs) based on folded spiral planar lightwave circuits is considered. It is shown that layout ranked according to their ability to provide maximum gain within a given chip area. An optimum layout based on a spiral containing both straight and curved waveguide sections is identified from an initial set. The analysis is initially based on simple geometric principles. A detailed optical simulation is then carried out using an algorithm based on a five-level rate equation model with beam propagation by the method of Fourier transforms to confirm the choice of optimum layout.

Index Terms:
[erbium-doped waveguide amplifiers](#) [folded spiral planar lightwave circuits](#) [waveguide lasers](#) [optimisation](#) [solid laser](#) [waveguide theory](#) [integrated optoelectronics](#) [integrated circuit layout](#) [erbium-doped waveguide amplifiers](#) [layout optimization](#) [optical layout](#) [spiral planar lightwave circuits](#) [maximum gain](#) [chip area](#) [optimum layout](#) [waveguide sections](#) [curved waveguide sections](#) [simple geometric principles](#) [simulation](#) [five-level rate equation model](#) [beam propagation](#) [method of Fourier transforms](#) [amplifiers](#)



Abstract Record Links (cont.)

- **Reference Linking**
 - Allows user to link to other IEEE journals from abstract record page
- **Forward Linking**
 - Allows the user to see the list of IEEE documents in the database that cite the document currently being viewed
- **Downloadable Citations**
 - Download the citation or citation with abstract into a bibliographic management program

Documents that cite this document 

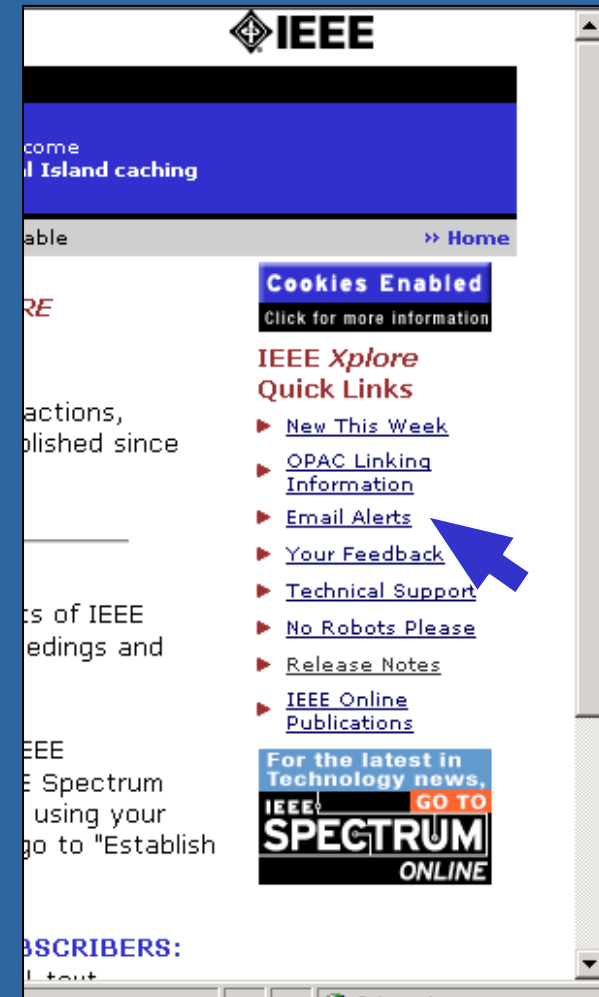
Select link to view other documents in the database that cite this document.

Reference list:

1. "Blood Pressure and Heart Rate Variability", *IOS*, Amsterdam, 1999.
2. B. Wennerblom, L. Lurje, H. Tygesen, R. Vahisalo, A. Hjalmarsson, "Uncomplicated coronary artery disease have reduced heart rate variability affecting vagal tone", *Heart*, vol.83, pp.290-294, 2000.
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[\[Abstract\]](#) [\[PDF Full-Text \(384KB\)\]](#) 
7. P. Laguna, R. G. Mark, A. Goldberger, G. B. Moody, "A Database for ECG Analysis: Algorithms for measurement of QT and other waveform intervals", *Computers in Cardiology, IEEE Comput. Soc. Press*, Los Alamitos, CA, 1990.
[\[Abstract\]](#) [\[PDF Full-Text \(472KB\)\]](#) 

Links to Tools and Features

- Email Alerts
 - Sign up to receive regular email notification of recently posted journals and magazines. Each email contains a direct link to the issue's latest table of contents
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 - A listing of the last four weeks' updates shows the newest content added to IEEE *Xplore*
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 - Link directly to a publication's page from your library's OPAC
- Online Support
 - Fill out this form if you have a specific product or technical question



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