

# The Homepage

[pubs.aip.org](https://pubs.aip.org)

Explore [AIP Publishing](#) and our portfolio by logging into your account profile. Access published articles, information about our partnerships, individual publications, and submit your next manuscript.

- **Search box:** Search the platform by keyword, phrase, DOI, ISBN, author name, etc.
- **Magnifying glass:** Click to run your search
- **Advanced search:** simultaneously search by several parameters to tailor your results
- **Citation search:** Search by Journal, volume and page number

- **Publishers:** Learn about AIP Publishing and our publishing partners
- **Publications:** View our Journals, *Physics Today* magazine, conference proceedings and our books
- **Special Topics:** Access the latest special topics across our publications
- **Authors:** View author resources and learn about publishing
- **Librarians:** View librarian resources and learn about access options
- **About:** Learn about our mission

The screenshot shows the AIP Publishing homepage. At the top, there is a search bar and a navigation menu with links for PUBLISHERS, PUBLICATIONS, SPECIAL TOPICS, AUTHORS, LIBRARIANS, and ABOUT. Below the navigation is a banner with the text "Connecting the physical sciences" and buttons for "Browse Journals", "Conference Proceedings", "Physics Today", and "Browse Books". The main content area features three image-based sections: "Publishing Partners", "Special Topic Collections", and "Upcoming Special Topic Collections". Below these is a "Featured Articles" section with four article previews. On the right side, there are social media icons and an "Active Topics" list. At the bottom right, there are two prominent buttons: "Submit your article" and "Sign up for alerts".

**Most Recent:** View some of the most recently published articles across our Journal portfolio

**Featured Articles**

**Submit your article:** Find the right journal to share your latest discovery worldwide

**Sign up for Alerts:** register for journal and topic alerts to be delivered right to your inbox

# Searching the Platform

From the homepage you can conduct a basic, advanced, or citation search across our content platform.

The screenshot shows the top navigation bar with a search box and links for PUBLISHERS, PUBLICATIONS, SPECIAL TOPICS, AUTHORS, LIBRARIANS, and ABOUT. Below the navigation bar, there are three main search sections:

- Basic Search:** A search box with a "SEARCH" button and options for "Search For: Any, All, Exact Phrase" and a "Filter" dropdown.
- Advanced Search:** A section with a "SEARCH" button and a "Filter" dropdown.
- Citation Search:** A section with a "SEARCH" button and a "Filter" dropdown.

Annotations with arrows point from text boxes to these sections:

- Basic Search:** search the platform by a specific phrase or term
- Advanced Search:** the search options below will appear, allowing you to utilize more than one search term or phrase, and apply filters to your search.
- Citation Search:** select the Journal name and include the volume and page number.

## Search Results

When search results appear, you can:

- Filter by format, topic, subject, or journal
- Sort by relevance or publication date

The screenshot shows search results for "microbial biosensors". The top navigation bar is the same as in the previous image. Below the navigation bar, there are several sections:

- Update Search:** A search box with "microbial biosensors" entered and "Filter All" dropdown.
- Format:** A list of filters including Journal Articles (194), Magazine Articles (0), Book (0), Book Chapter (0), Images (7), and Online (7).
- Topic:** A list of filters including AP Resource, Acoustics, Biological physics, Chemical physics, and Condensed matter physics.
- Sort by:** A dropdown menu set to "Relevance".
- Journal Articles:** A list of results, including "Biosensor performance of phenol analysis using microbial consortium of Bacillus sp. and Pseudomonas sp." with a "View article" button and a PDF icon.
- Images:** A list of images, including "Simplified diagram showing working principle of microbial biosensors." with a "View article" button and a PDF icon.

# Navigating a Journal Homepage

From the navigation bar you can access:

- **Home:** navigate to journal homepage by clicking here
- **Browse:** view the latest issue
- **Collections:** view special issues, press releases, tutorials, and more
- **For Authors:** information on preparing and submitting a manuscript
- **About:** learn about the journal, its scope, editorial board and development team, and more.

Select articles of interest

View some of the most recently published articles

The screenshot shows the homepage of The Journal of Chemical Physics. At the top is a navigation bar with links for HOME, BROWSE, COLLECTIONS, PUBLISH WITH US, and ABOUT. The main content area features the current issue (Volume 158, Issue 16, 28 April 2023) and a 'Focus and Coverage' section. Below this are 'Featured Articles' and 'Most Read' sections. On the right side, there are buttons for 'Submit your article', 'Sign up for alerts', and social media links for Facebook and Twitter.

Learn about the Journal and the editorial board, and access the current issue

Submit your article

Sign up for journal alerts

Access "most read" articles

## Article Search by Citation from Journal Homepage

From the top of the journal homepage, you can search by citation. For the most accurate results, fill in the journal name, volume and page number.

The screenshot shows the 'Citation Search' form on the journal homepage. The form has a search bar with the text 'The Journal of Chemical Physics' entered. Below the search bar is a 'SEARCH' button. At the bottom of the form, there is a link to 'Advanced Search'.



## Browse: Viewing the Latest Issue

After clicking on “Browse” you are directed to the current issue and can navigate to previously published issues. Here you can view an article’s abstract or the article in full.

In the left-hand column, you can view the cover image, jump to a specific type of article, or view articles by topic.

The screenshot shows the journal's website interface. At the top, there is a navigation bar with 'HOME', 'BROWSE', 'COLLECTIONS', 'PUBLISH WITH US', and 'ABOUT'. The 'BROWSE' link is circled in red. Below the navigation bar, the page title is 'The Journal of Chemical Physics'. The main content area is titled 'Issues' and shows 'Volume 158, Issue 16' dated '28 April 2023'. There are filters for 'Select Decade' (2020's) and 'Select Year' (2023). The page is divided into several sections: 'EDITORIALS' featuring a special issue on time-resolved vibrational spectroscopy, 'PERSPECTIVES' featuring 'Nanofluidics at the crossroads', and 'COMMUNICATIONS'. On the right side, there are 'RSS' feeds and 'Most Read' / 'Most Cited' articles. On the left side, there is a sidebar with a 'Cover Image' link circled in red, and a list of article types: EDITORIALS, PERSPECTIVES, COMMUNICATIONS, and ARTICLES.

## Accessing an Article

Institutional customers access content via registered IP ranges. If you try to view content from an unauthorized IP address, you will be asked to select your method of access as shown here.

If you do not have access through your institution, you have the option to log in as an individual subscriber, purchase standard PPV, or view the article via Open Athens or Shibboleth.

The 'Sign in' form includes a 'Client Account' section with fields for 'Username' and 'Password'. There is a checkbox for 'Remember a visitor' and a 'Sign in via your institution' link. A 'Sign in' button is at the bottom left.

The 'Sign in via Shibboleth' form has two dropdown menus: 'Location' (with 'Select Federation' selected) and 'Institution' (with 'Select Institution' selected). A blue 'SELECT' button is at the bottom.

# Viewing an Article

IP authenticated users can access articles without creating a profile. However to benefit from all tools available we encourage users to create a profile.

From an article, users can:

- Save searches
- Sign up for RSS feeds
- View in a split screen
- Download an article as a PDF
- Sign up for journal alerts
- View author affiliations and ORCID, where provided
- View and download article citations
- Add to your “favorites”
- “Share” the article through social media and Reddit
- View article metrics
- Access related articles

Most articles are accessible as HTML or PDF. If only one format is available, the navigation bar will be updated to reflect the version offered. If available, supplementary data will be displayed in the left navigation.

## Article Icons


The blue circle icons next to certain article titles indicate if it is a:

- Featured Article 
- Editor's Pick 
- Scilight 

A Scilight, a science highlight, is a professional summary of significant developments in a particular field of research. The articles that are chosen for Scilight are recommended by the research-active editors of AIP Publishing's journals.



**Data article: Full disk real-time Himawari-8/9 satellite imagery from JAXA** 

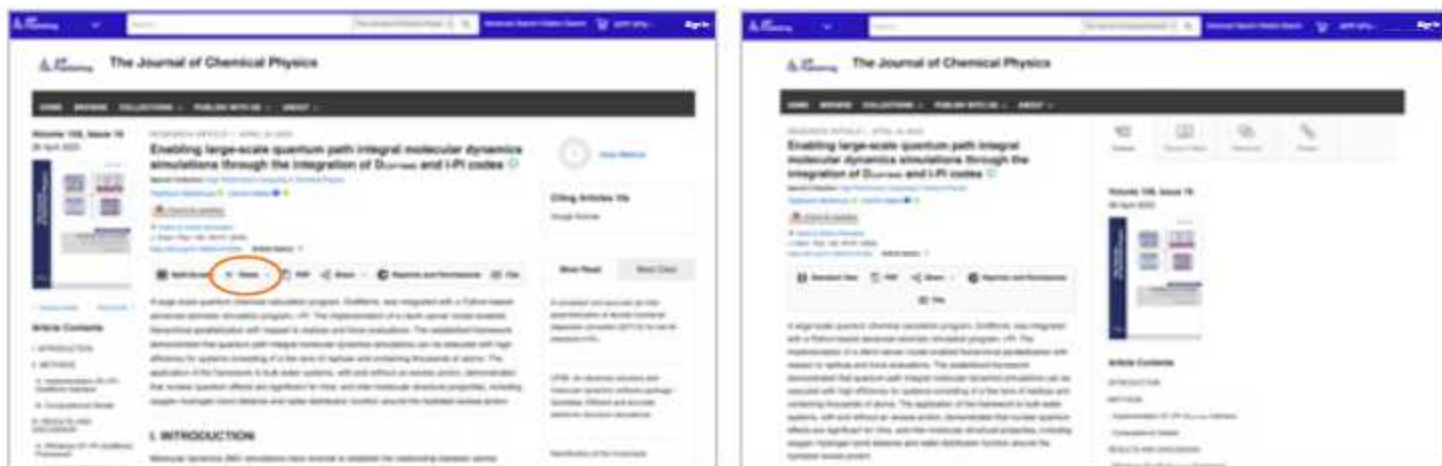
**Encapsulation of biobased fatty acid material applications** 

RESEARCH ARTICLE | APRIL 19 2022  
**A superconducting nanowire binary shift register**   
Special Collection: Advances in Superconducting Logic  
A superconducting nanowire binary shift register

## Article Figures & Split Screen Option

Select “views” to toggle between “figures & tables” and “article contents”. Article “figures & tables” can be downloaded directly as a PowerPoint presentation with citations or as a High-res image.

The newly added **split screen feature** offers readers a way to read an article and view the figures, references, and related content alongside each other.



## Article Metrics & Citations

When available, article metrics can be viewed by selecting “View Metrics” in the upper right-corner of the page. As articles receive “views” and “citations” they will be calculated and updated daily.

(Note: article metrics are cumulative from 12/13/2016 onwards).

Article citations can be viewed by selecting “Web of Science” or “Crossref”



## Related Content

A list of related content is found to the right of the article under “Related Content”.

The screenshot shows the top portion of a journal article page. The article title is "Role of exchange and correlation in high-harmonic generation spectra of H<sub>2</sub>, N<sub>2</sub>, and CO<sub>2</sub>: Real-time time-dependent electronic-structure approaches". The authors are Clark Feynman-Pearson, Christopher O'Connell, and Thomas Lippert. The article is published in Volume 154, Issue 1, on 7 January 2021. The page features a navigation bar with "HOME", "Browse", "Collections", "Publish with us", and "About". On the left, there is a "Table of Contents" section. The main text area contains the abstract and the beginning of the introduction. On the right side, there are several widgets: "Citing Articles Via" (with a list of citation services), "Most Read" and "Most Cited" buttons, a "Related Content" section (circled in red), and a "Share" button. The "Related Content" section lists several related articles with their titles and authors.

## Sharing an Article

Click on the share button to share an article via Twitter, Facebook, Reddit, or LinkedIn.

This screenshot shows the same journal article page as above, but with a red circle highlighting the "Share" button in the navigation bar. The "Share" button is located between the "Print" and "Permissions" buttons. The rest of the page content, including the article title, authors, abstract, and right-hand widgets, is identical to the previous screenshot.

# Navigating Books

Our books are fully integrated with our journals and are designed to help researchers at every stage of their career to discover new developments, investigate new techniques, and explore key concepts in emerging areas of science.

## Accessing the Books Homepage

[pubs.aip.org/books](https://pubs.aip.org/books)

The screenshot shows the AIP Publishing Books homepage. At the top, there is a navigation bar with the AIP Publishing logo, a search bar, and links for "Advanced Search" and "Open Search". Below the navigation bar, the main heading "AIP Publishing Books" is displayed, along with a "BROWSE FOR LIBRARIANS" link. The main content area features a large banner image of a bookshelf with the text "AIP Publishing Books" and "Help global research leaders, students, and educators discover, investigate, learn and explore." A blue button labeled "Browse All Books" is highlighted with a red circle. Below the banner, there are five category cards: "Principles", "Methods", "Professional", "Perspectives", and "Archive". Each card has a brief description of the content type. A callout box on the left points to the "Browse All Books" button, and a callout box on the right points to the category cards.

**Browse:** Access our books by publication date, type, or author

**Select the book type** to view titles within each category



## Book Title Page

The title page offers an easy to navigate overview with a description, short links to the book information, access options, and metrics.

The screenshot shows the AIP Publishing website interface for the book "Strain Engineering in Functional Materials and Devices". The page includes a search bar, navigation links, and a detailed description of the book. Callout boxes highlight specific features:

- Share, Tools, Cite:** share via social media or Reddit, and download citation information. (Points to the Share, Tools, and Cite buttons)
- Buy this Book:** purchase a PDF version of this book. (Points to the Book PDF button)
- Abstract:** read the book abstract. **PDF:** download individual book chapters. (Points to the Abstract and PDF buttons for the first chapter)
- Buy Print:** offers individual an option to purchase a personal softcover copy of this book. (Points to the Buy Print button)
- myBook:** offers readers at institutions with an active license an exclusive option to purchase a discounted B&W copy. (Points to the myBook button)

**Table of Contents**

Front Matter  
By Rangih Ramadurai, Sankala Bhattacharyya  
DOI: [https://doi.org/10.1063/978120425586\\_000](https://doi.org/10.1063/978120425586_000)  
Buttons: Abstract, View Chapter, PDF

Chapter 1: Strain Engineering in Crystalline Solids  
By Rangih Ramadurai, Sankala Bhattacharyya  
DOI: [https://doi.org/10.1063/978120425586\\_001](https://doi.org/10.1063/978120425586_001)  
Button: PDF

Chapter 2: First Principles Modeling of Strain Induced Effects in Functional Materials  
By Rajaraj Rajgurunathan  
DOI: [https://doi.org/10.1063/978120425586\\_002](https://doi.org/10.1063/978120425586_002)  
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Chapter 3: Impact of Strain on the Electronic and Optoelectronic Properties  
of III-V Nitride, GaInAs/InGaAs, and InGaAs/InGaAs

## Viewing a Book Chapter

Additional tools and features are available for each chapter. Read the first chapter of any title for free.

The screenshot displays the AIP Publishing Books website interface. At the top, there is a navigation bar with the AIP Publishing logo, a search bar, and links for 'Advanced Search/Chapter Search', 'AIP Affiliates', and 'Sign In/My Account'. Below the navigation bar, the page title 'AIP Publishing Books' is centered. The main content area features a book cover on the left and a detailed chapter page on the right. The chapter title is 'Chapter 1: Strain Engineering in Crystalline Solids' by Sanjiv Ramadani and Sanku Bhattacharyya. The page includes a 'Full Screen' button, a 'View' dropdown menu, a 'Chapter PDF' button, and 'Share' and 'Tools' options. A 'Chapter Contents' section is visible on the left side of the chapter page, listing sections like 'Introduction', 'Strain: A Solid Mechanics Perspective', 'Strain in Atomic Length Scales', 'Strain As A Physical Property', 'Strain Engineering Methods and Measurements', and 'References'. The main text of the chapter begins with 'Strain is one of the important physical entities in engineering materials. It holds the underlying interrelated relations between various functionalities of crystalline materials that offers smart functionalities like piezoelectricity, ferroelectricity, multiferroicity etc. Overall, this book is an attempt to discuss the operation of strain at different length scales and its influence on properties like electronic structure, structural stability, evolution of functional domains, etc. In addition process induced strains and the respective microstructural evolution are also discussed. This chapter details the essential fundamentals that are required for the theoretical formalisms that are discussed in the later chapters of this book. Introductory sections on strain as a tensor and its interrelation with physical properties and its confirmation to crystal symmetry through Neumann's principle are discussed. In addition, discussions pertaining to strain as an equilibrium physical property is carried out in brief. A brief introduction to atomistic approach mainly through density functional theory is also presented with the essential basis of electrostatic potentials and distortions. The last section of the chapter is dedicated to methods and measurements in which strain is involved in experimental studies. Most importantly, the commonly used processing of epitaxial strain and its experimental determination are discussed.'

On the right side of the page, there are sections for 'Related Topics', 'Related Book Content', and 'Related Articles'. The 'Related Book Content' section lists 'Cristina Pezzeri-Gambetta, The Making of an Atomist' and 'Phase Field Modeling of Ferromagnetic Domains in Strained Structures'. The 'Related Articles' section lists 'AC conductivity studies on  $P_{1-x}Bi_xSb_{1-x}$  solid solution', 'Biologically active substances in food: studies of wood incorporating fungi', and 'Structural and/or quantum formation and gate-tuning of quantum materials: semiconductor-graphene heterostructures'.

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