

AIP数据库平台使用指南

<https://pubs.aip.org/>

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内容平台

我们的新平台优化了用户和管理员服务，带来了精简的时新体验。

特点

- 改进了网站导航，提升了可发现性
- 推出了新的分屏浏览选项
- 为残障用户提供更多便利
- 可使用图形查看器探索视觉内容
- 改进了视频播放器的传输能力
- 改善了网站的性能

如想注册一个账户来优化您的体验，请访问：<https://pubs.aip.org/my-account/register> 或点击主页面 <https://pubs.aip.org/> 右上角“Sign in”下拉菜单中的“register”，进入到注册页面，进行注册。

AIP Publishing Search... All Content Q Advanced Search | Citation Search AIPP APIs Sign In

PUBLISHERS PUBLICATIONS SPECIAL TOPICS AUTHORS LIBRARIANS ABOUT

Register

* = Required Field

Email Address*

Your email address will be set as your 'Username'. Use this when signing in or resetting your password.


Password*

Confirm Password*

First Name*

Last Name*

☐ I have read and accept the [AIP Publishing Terms and Conditions of Use and Privacy Policy](#).

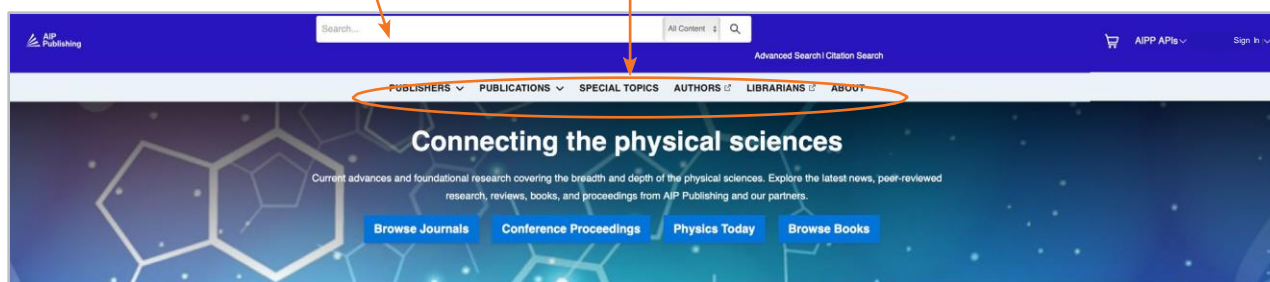
☐ I'm not a robot  reCAPTCHA Privacy - Terms

REGISTER

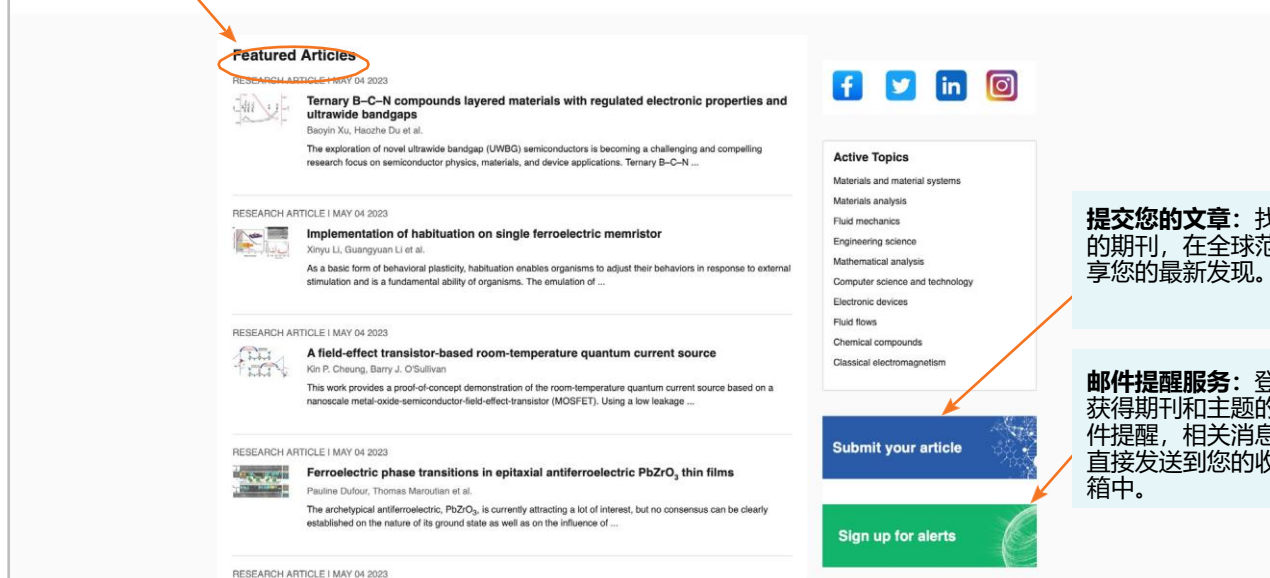
成功注册账户以后，再次点击主页面右上角的“sign in”，输入用户名和密码来登录您的账户，了解[AIP出版社](#)和我们的产品组合。访问已出版的文章、了解我们出版伙伴的相关信息、访问个人出版物，以及提交您的下一份手稿。

- **Search box (搜索框)**：通过关键词、短语、DOI、ISBN、作者姓名等平台相关内容进行搜索。
- **Magnifying glass (放大镜)**：点击开始搜索。
- **Advanced search (高级搜索)**：同时设定几个参数进行搜索，获取您想要的结果。
- **Citation search (引用搜索)**：通过具体的期刊名称、卷号和页码进行搜索。

- **Publishers (出版商)**：了解AIP出版社和我们的合作出版伙伴。
- **Publications (出版物)**：查看我们的期刊、《今日物理》杂志、会议录和图书。
- **Special Topics (专题)**：访问我们所有出版物的最新专题。
- **Authors (作者)**：查看作者资源并了解出版情况。
- **Librarians (图书馆管理员)**：查看图书馆员资源并了解访问选项。
- **About (关于我们)**：了解我们的使命。



特色文章：查看我们期刊合集中最近出版的一些特色文章。



提交您的文章：找到合适的期刊，在全球范围内分享您的最新发现。

邮件提醒服务：登记获得期刊和主题的邮件提醒，相关消息将直接发送到您的收件箱中。

平台搜索

您可以从主页面上对我们的整个内容平台进行基本搜索、高级搜索或引用搜索。

The screenshot shows the AIP Publishing website's search interface. At the top, there is a search bar with a magnifying glass icon. Below it, there are three main search options: **Basic Search** (通过特定短语或词汇对平台进行搜索), **Advanced Search** (下面会出现搜索选项, 您可以使用多个短语和词汇进行限定搜索, 并可以对搜索结果进行筛选), and **Citation Search** (选择期刊名称, 再输入相应的卷号和页码进行搜索). The interface includes a navigation bar with links for PUBLISHERS, PUBLICATIONS, SPECIAL TOPICS, AUTHORS, LIBRARIANS, and ABOUT. There are also links for AIPP APIs and Sign In.

搜索结果

搜索结果出来后, 您可以:

- 按文件格式、主题、话题或期刊进行筛选。
- 按相关性或出版日期排序。

The screenshot shows the search results page for the query "microbial biosensors". The page displays 1-20 of 227 search results. The results are sorted by Relevance (indicated by a dropdown menu). The first result is a journal article titled "Biosensor performance of phenol analysis using microbial consortium of *Bacillus* sp. and *Pseudomonas* sp." by Reza Mulyawan, Dyah Iswantini, Novik Nurhidayat, Deden Saprudin, and Henny Purwaningsih. The article is from the AIP Conference Proceedings 2638, 050009 (2022). The page also includes a section for "Simplified diagram showing working principle of microbial biosensors" with a diagram and a caption. The interface includes a navigation bar with links for PUBLISHERS, PUBLICATIONS, SPECIAL TOPICS, AUTHORS, LIBRARIANS, and ABOUT. There are also links for AIPP APIs and Sign In.

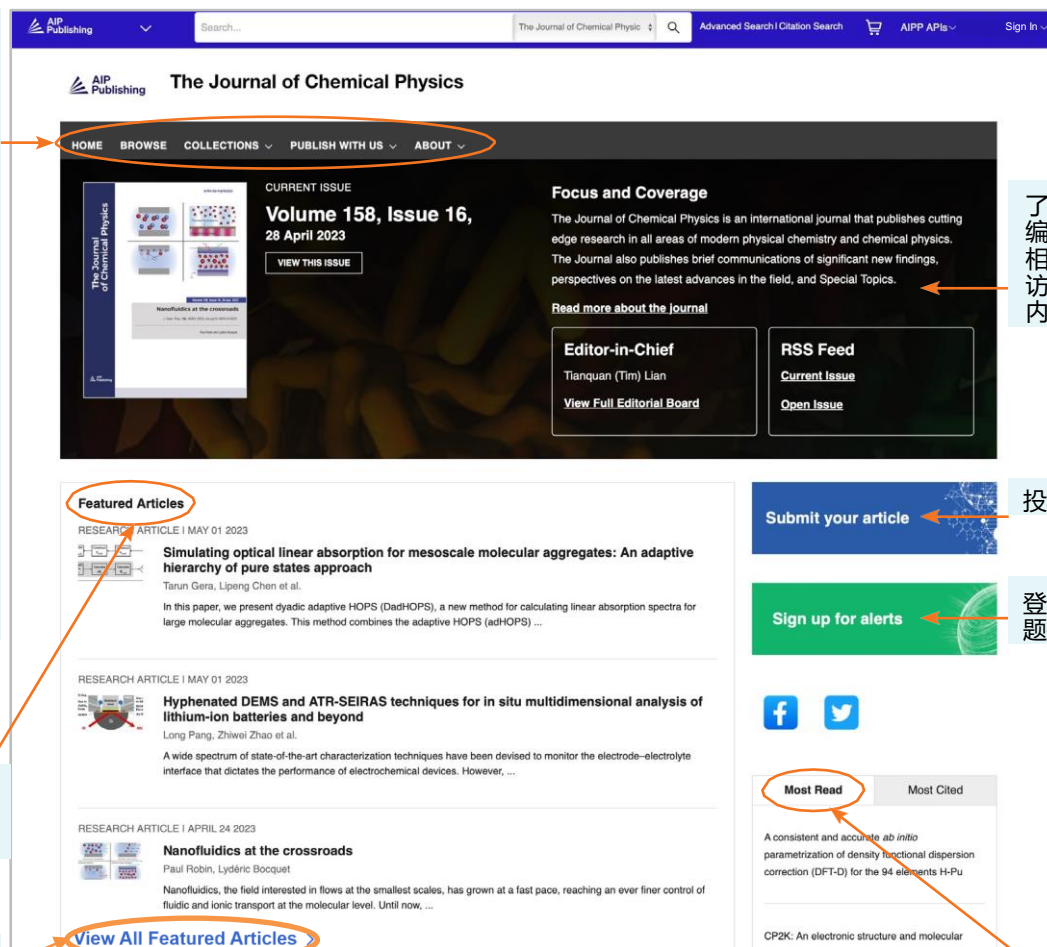
期刊主页导航

通过导航栏，您可以访问：

- **Home (主页) :** 通过点击此处导航到期刊首页
- **Browse (浏览) :** 查看最新一期期刊
- **Collections (合集) :** 查看特期、新闻稿、教程等等
- **Publish with us (作者天地) :** 关于手稿准备和投稿的相关信息
- **About (关于我们) :** 了解期刊的涉猎范围，编辑委员会和开发团队等。

选择最近出版的感兴趣的特色文章

查看最近出版的所有特色文章



了解期刊、编辑委员会相关信息，访问近期的内容

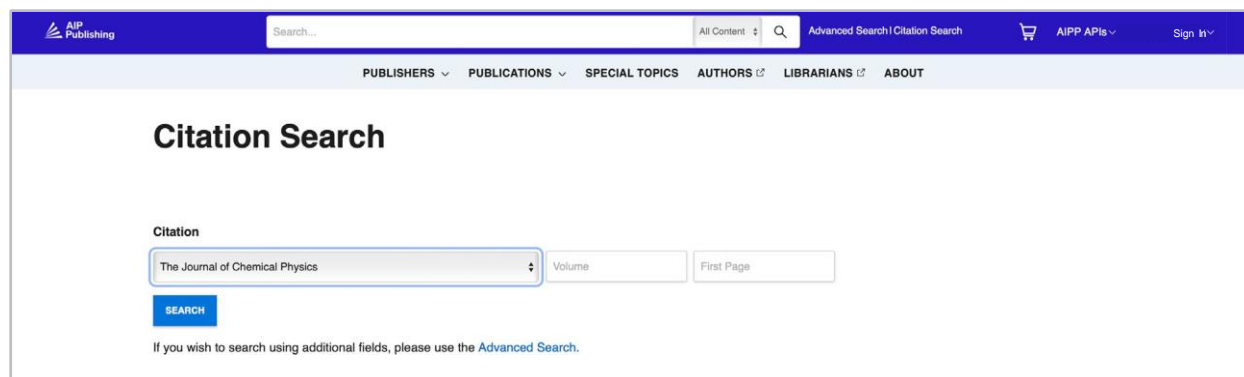
投稿

登记获取定题提醒服务

访问“阅读量最多”的文章

在期刊主页上通过Citation Search引|用搜索来搜索文章

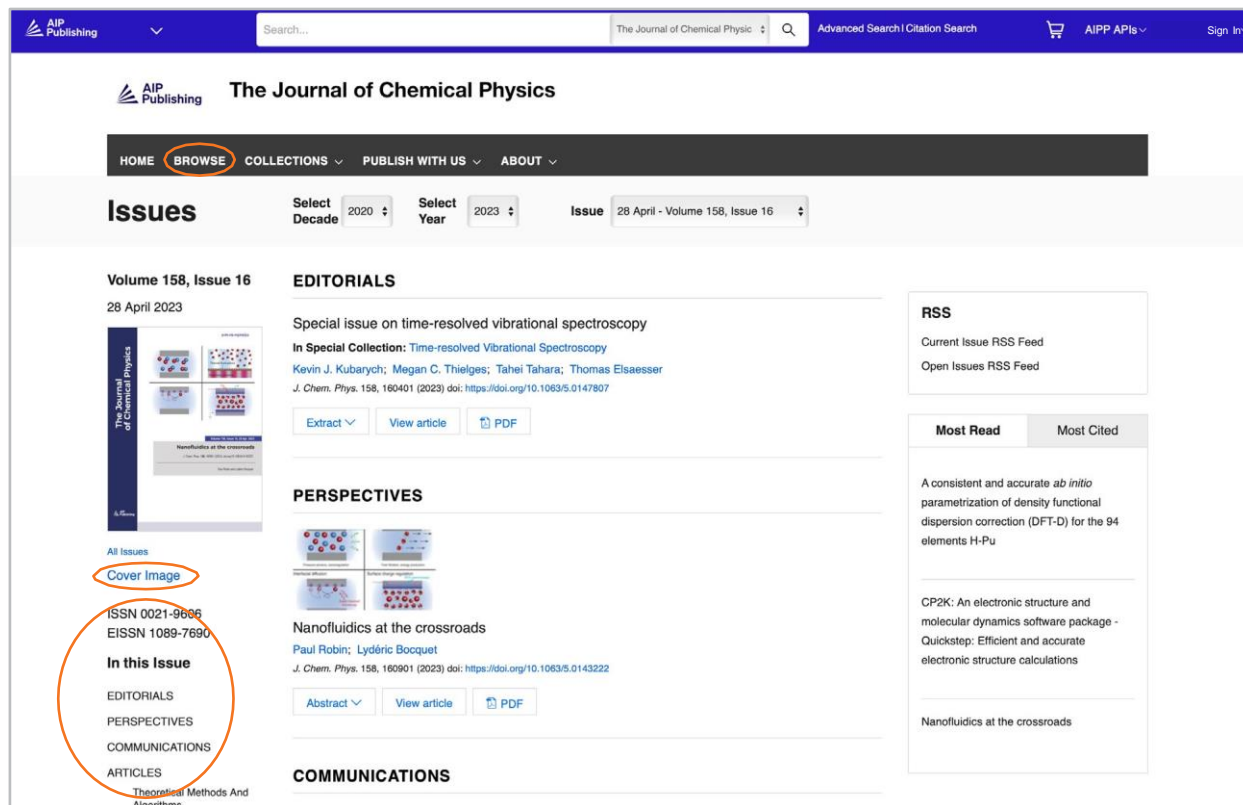
在期刊主页的顶部，您仍然可以进行引用搜索。为了获得最准确的结果，请填写期刊名称、卷号和页码。



浏览：查看最新一期期刊

点击“Browse”（浏览）后，您会被引导到最新一期的期刊页面，您可以从该页面导航到往期期刊页面，也可以通过该页面查看一篇文章的摘要或全文。

在左侧栏中，您可以查看封面图片，跳转到特定类型的文章，或按主题查看文章。



访问文章

机构客户可以通过登记的IP地址进行内容访问。如果您想使用一个未经授权的IP地址查看内容，那么您需要选择访问方法，具体如图所示。

如果您不能通过机构进行访问，您可以选择以个人订阅用户身份登录，购买标准的PPV，或使用Open Athens或 Shibboleth查看文章。

Sign in

Don't already have an account? [Register](#)

Client Account

Username

Password

☐ I'm not a robot

Sign in via your Institution

[Sign in via your Institution](#)

SIGN IN

[Reset password](#)

[Register](#)

Sign In via Shibboleth

Location:

Select Federation

▼

Institution:

Select Institution

▼

SELECT

查看文章

通过IP认证的用户无需创建配置文件就可以直接访问文章。然而，为了使用所有可用的工具，我们建议用户创建一个配置文件。

对于一篇文章，用户可以：

- 保存搜索历史
- 登记RSS订阅
- 分屏查看
- 下载文章的PDF格式
- 登记享用期刊邮件提醒服务
- 查看作者单位和ORCID（如有提供）
- 查看和下载文章引文
- 添加到您的“收藏夹”
- 将文章“分享”到社交媒体
- 查看文章指标
- 访问相关文章

大多数文章都有HTML或PDF格式。如果只有一种格式可用，会在导航栏给出提示，展示所提供的版本。补充数据将显示在左侧导航栏中（如有）。



文章图标

某些文章标题旁边的蓝色圆圈图标指出的是它的文章属性：

- Featured Article 专题文章
- Editor's Pick 编辑推荐
- Scilight

Scilight指的是science highlight（科学亮点），是对特定研究领域重大进展的专业总结。入选Scilight的文章均来自AIP出版社期刊的研究型编辑的推荐。

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

Encapsulation of biobased fatty acid material applications

RESEARCH ARTICLE | APRIL 10 2023

A superconducting nanowire binary shift register

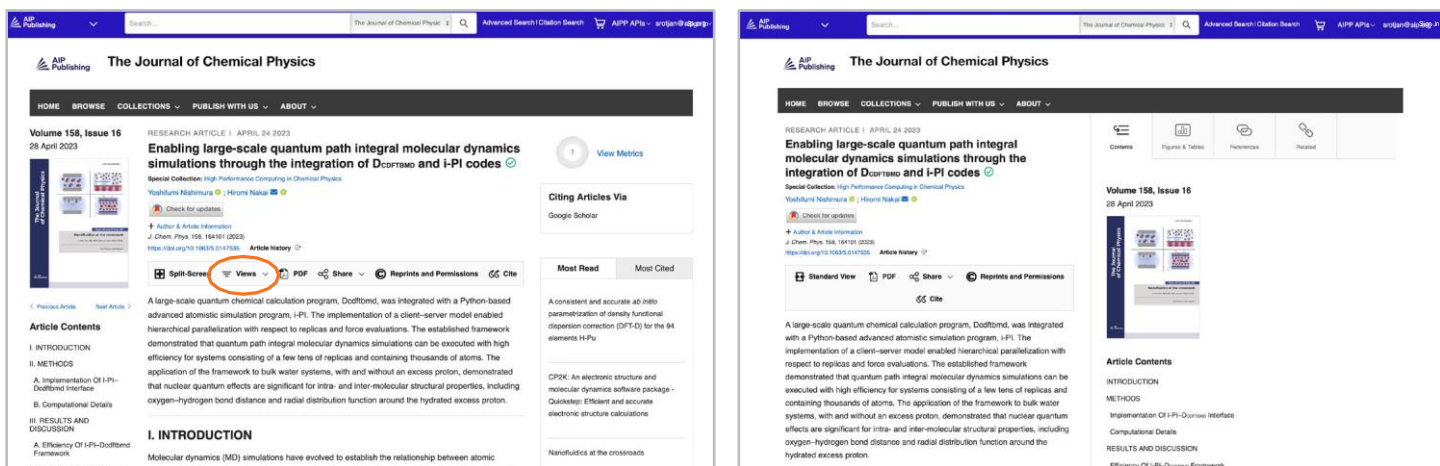
Special Collection: Advances in Superconducting Logic

A superconducting nanowire binary shift register

文章图表和分屏选项

点击“View”（视图），可以在“图表”和“文章内容”之间进行切换。您可以直接下载到文章“图表”的带引文PowerPoint演示文稿或高像素图片。

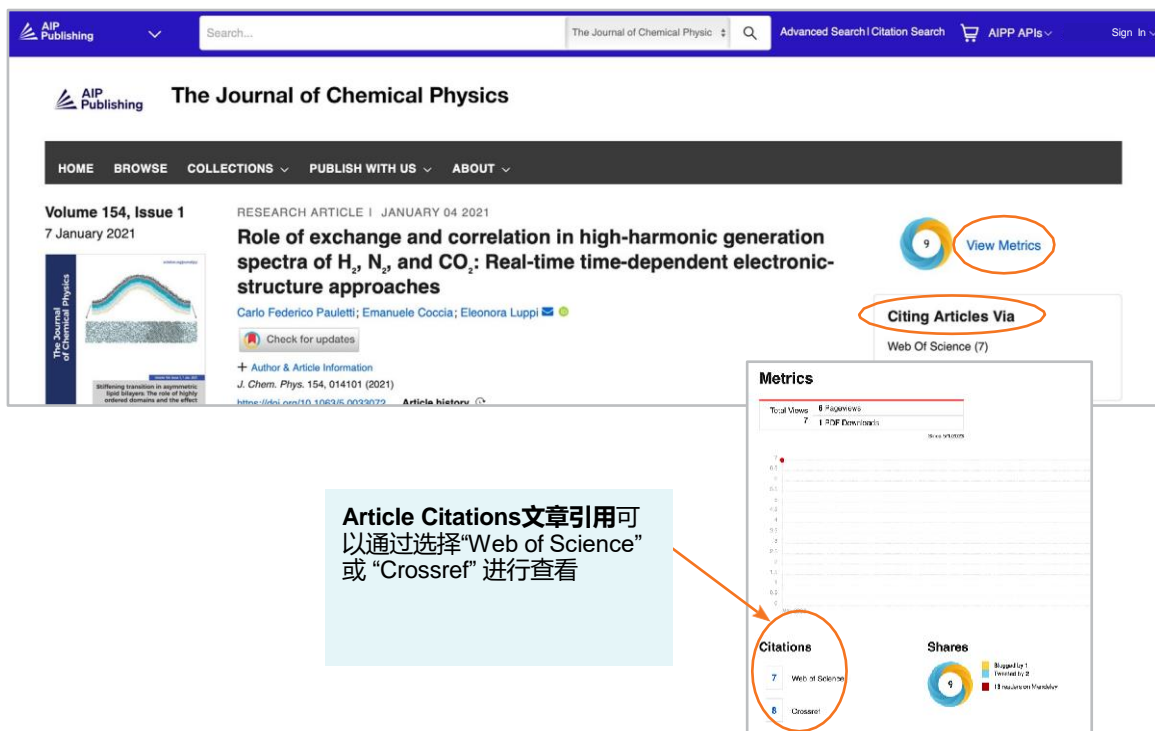
新增加的分屏功能让读者在阅读文章的同时可以查看图表、参考资料和相关内容。



文章指标和引用

Article Metrics文章指标（如有）可以通过选择页面右上角的“View Metrics”（查看指标）来查看。文章的“views”（浏览量）和“citations”（引用量）按天计算，每天更新。

（注：文章指标是从2016年12月13日起累计的）。



文章分享

在文章标题下方，点击“Share”(分享)按钮可以将文章分享到Twitter、Facebook、Reddit或LinkedIn。

The screenshot shows the AIP Publishing website interface. The article title is "Role of exchange and correlation in high-harmonic generation spectra of H_2 , N_2 , and CO_2 : Real-time time-dependent electronic-structure approaches". The authors are Carlo Federico Pauletti, Emanuele Coccia, and Eleonora Luppi. The article is from Volume 154, Issue 1, dated January 04, 2021. The 'Share' button is circled in red, and a dropdown menu is visible showing options for Twitter, Facebook, Reddit, and LinkedIn. The article content is partially visible, starting with "This study arises from the attempt to answer the following question: how different descriptions of electronic exchange and correlation affect the high-harmonic generation (HHG) spectroscopy of H_2 , N_2 , and CO_2 molecules? We compare HHG spectra with different *ab initio* electronic structure methods: real-time time-dependent configuration interaction and real-time time-dependent density functional theory (RT-TDDFT) using truncated basis sets composed of correlated wave functions expanded on Gaussian basis sets. In the framework of RT-TDDFT, we employ Perdew-Burke-Ernzerhof (PBE) and long-range corrected Perdew-Burke-Ernzerhof (LC- ω PBE) functionals. We study HHG spectroscopy by disentangling the effect of electronic exchange and correlation. We first analyze the electronic exchange alone, and in the case of RT-TDDFT with LC- ω PBE, we use $\omega = 0.3$ and $\omega = 0.4$ to tune the percentage of long-range Hartree-Fock exchange and short-range exchange PBE. Then, we added the correlation as described by the PBE functional. All the methods give very similar HHG spectra, and they seem not to be particularly sensitive to the different description of exchange and correlation or to the correct asymptotic behavior of the Coulomb potential. Despite this general trend, some differences are found in the region connecting the cutoff and the background. Here, the harmonics can be resolved with different accuracy depending on the theoretical schemes used. We believe that the investigation of the molecular continuum and its coupling with strong fields merits further theoretical investigations in the near future."

相关内容

在文章正文右侧的“Related Content”(相关内容)中，您可以找到相关内容清单。

The screenshot shows the AIP Publishing website interface. The article title is "Role of exchange and correlation in high-harmonic generation spectra of H_2 , N_2 , and CO_2 : Real-time time-dependent electronic-structure approaches". The authors are Carlo Federico Pauletti, Emanuele Coccia, and Eleonora Luppi. The article is from Volume 154, Issue 1, dated January 04, 2021. The 'Related Content' section is circled in red, showing a list of related articles:

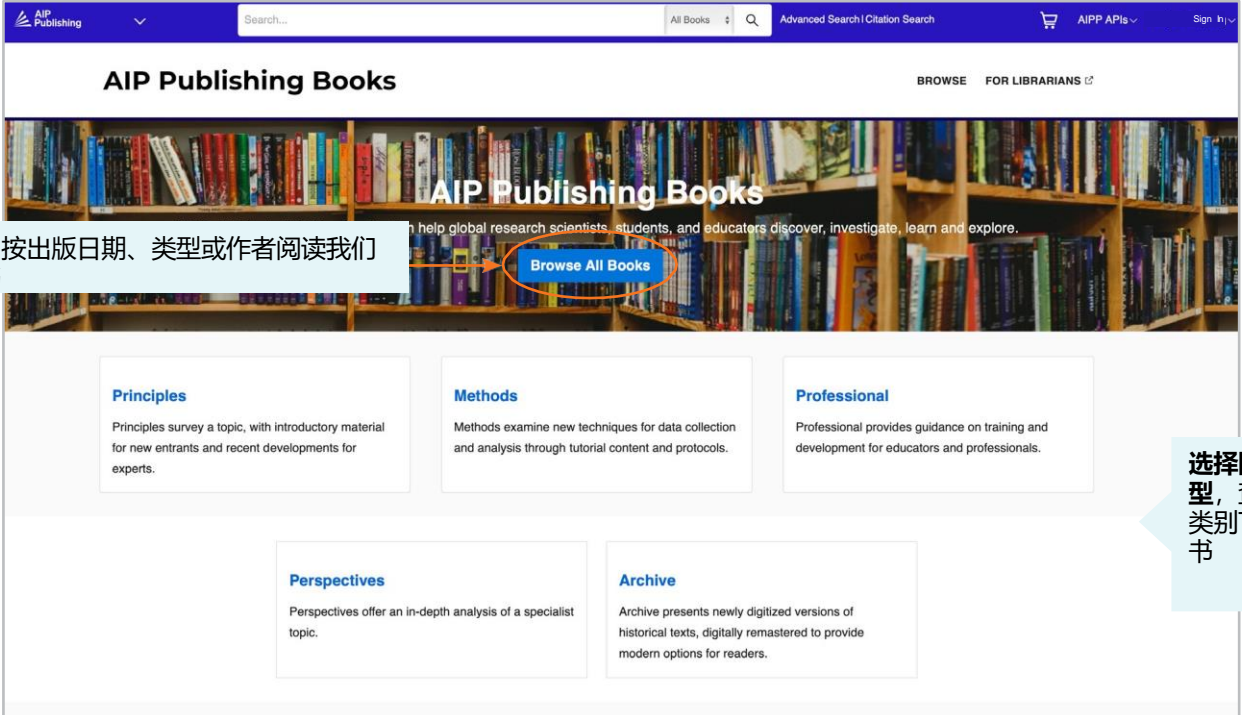
- Most Read**
 - A consistent and accurate *ab initio* parametrization of density functional dispersion correction (DFT-D) for the 94 elements H-Pu
 - CP2K: An electronic structure and molecular dynamics software package - Quickstep: Efficient and accurate electronic structure calculations
 - Nanofluidics at the crossroads
- Most Cited**
- Related Content**
 - Ideal magnetohydrodynamic simulation of magnetic bubble expansion as a model for extragalactic radio lobes
Physics of Plasmas (July 2008)
 - First principles theoretical spectroscopy of methylene blue: Between limitations of time-dependent density functional theory approximations and its realistic description in the solvent

图书导航

我们的图书与期刊是完全整合在一起的，有助于处于职业生涯各阶段的研究人员发现新的动态，查询新的技术，并探索科学新兴领域的关键概念。

图书主页的链接为：pubs.aip.org/books

也可以在平台主页pubs.aip.org，点击“Browse Books”，进入到图书主页。



The screenshot shows the AIP Publishing Books homepage. The header includes the AIP Publishing logo, a search bar, and navigation links for 'All Books', 'Advanced Search', 'Citation Search', 'AIPP APIs', and 'Sign In'. The main banner features a bookshelf background with the text 'AIP Publishing Books' and a sub-header 'Browse All Books' circled in orange. Below the banner are five categories: Principles, Methods, Professional, Perspectives, and Archive, each with a brief description. Annotations include a callout box on the left pointing to the 'Browse All Books' button and a callout box on the right pointing to the category boxes.

浏览：按出版日期、类型或作者阅读我们的图书

选择图书类型，查看各类别下的图书

图书标题页

标题页提供了一个易于导航的布局，包括描述、访问图书信息的短链接、访问选项和指标。

The screenshot shows the AIP Publishing Books page 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. Annotations highlight key features:

- 分享、引用:** 分享到社交媒体或Reddit，并下载引用信息。 (Share, Cite)
- 购买此书:** 购买此书的PDF版本 (Buy this book: Buy the PDF version of this book)
- 摘要:** 阅读本书摘要 (Abstract: Read the book summary)
- PDF:** 下载书的个别章节 (PDF: Download individual chapters of the book)
- 购买印刷版:** 为个人提供购买本书平装版纸质书的选择 (Buy the print edition: Provide a choice of buying the paperback version of the book for individuals)
- 我的书库:** 为已购买电子图书集的机构客户的读者提供一个独家优惠，可以购买打折的黑白版纸质图书。 (My library: Provide a exclusive discount for readers of institutional customers who have purchased electronic book collections, allowing them to purchase discounted black and white paper books.)

The page content includes the book title, editors (Ranjith Ramadurai; Saswata Bhattacharyya), publication date (2023), and a table of contents listing chapters such as "Strain Engineering in Crystalline Solids" and "First Principles Modeling of Strain Induced Effects in Functional Materials".

查看图书章节

每一章都有附加工具和功能。任何图书的第一章都可以免费阅读。

AIP Publishing Books

Chapter 1: Strain Engineering in Crystalline Solids
By Ranjith Ramadurai ; Saswata Bhattacharyya
DOI: https://doi.org/10.1063/9780735425590_001
Published: 2023

Related Topics

- sub
- strain
- tense
- film
- solid
- crystal
- property

Related Book Content

- Cecilia Payne-Gaposchkin: The Making of an Astrophysicist
- References
- Phase-Field Modeling of Ferroic Domains in Strained Structures

Related Articles

- AC - conductivity studies on $Y_{1-x}Bi_xCrO_3$ solid solution
- Biologically active substances in fruit bodies of wood decomposing fungi
- Simultaneous shallow-junction formation and gate doping p-channel metal-semiconductor-oxide field-effect transistor

Chapter Contents

- Introduction
- Strain: A Solid Mechanics Perspective
- Strain At Atomic Length Scales
- Strain As A Physical Property
- Strain Engineering: Methods And Measurements
- References

1.1 Introduction

This chapter introduces the concept of strain in crystalline solids. In subsequent chapters, we show how strain engineering or tailoring of strain fields via different methods (e.g., epitaxy, strain-capping layer, patterning, etc.) can be used to alter the physical properties of crystals.

A crystalline solid or a crystal refers to any solid material in which the constituent atoms or molecules are arranged in a definite, regular or periodic pattern. Macroscopically, crystals

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作者姓名, ORCID ID、文章DOI、ISBN号和出版信息。

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下载可以下载的相关图书和期刊

章节内容：主题概述, 并允许您浏览本章内容

AIP数据库平台 使用指南

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