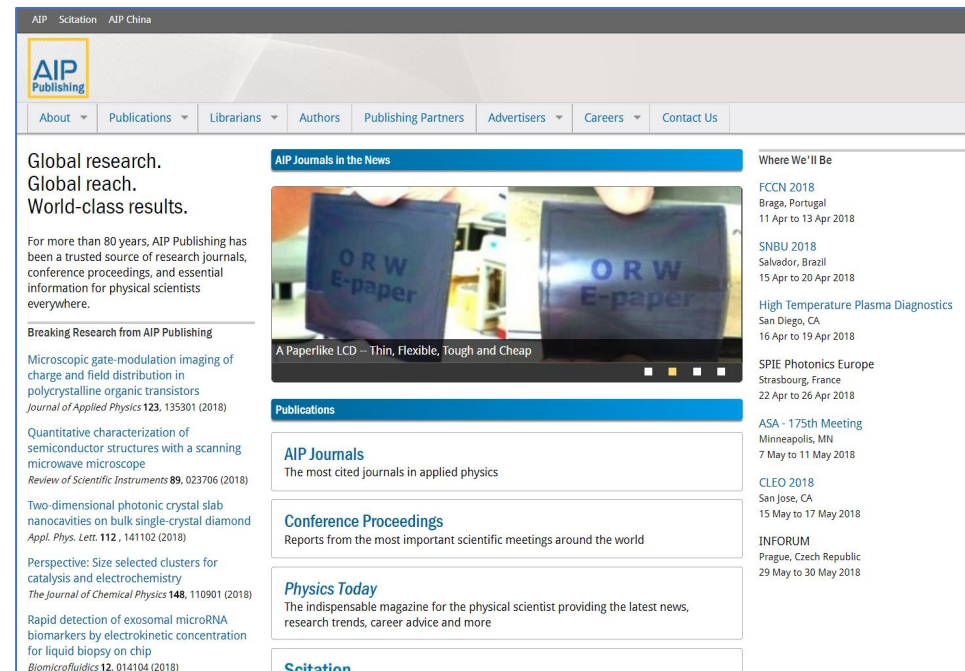


The AIP Publishing Portfolio & Navigating Scitation.org

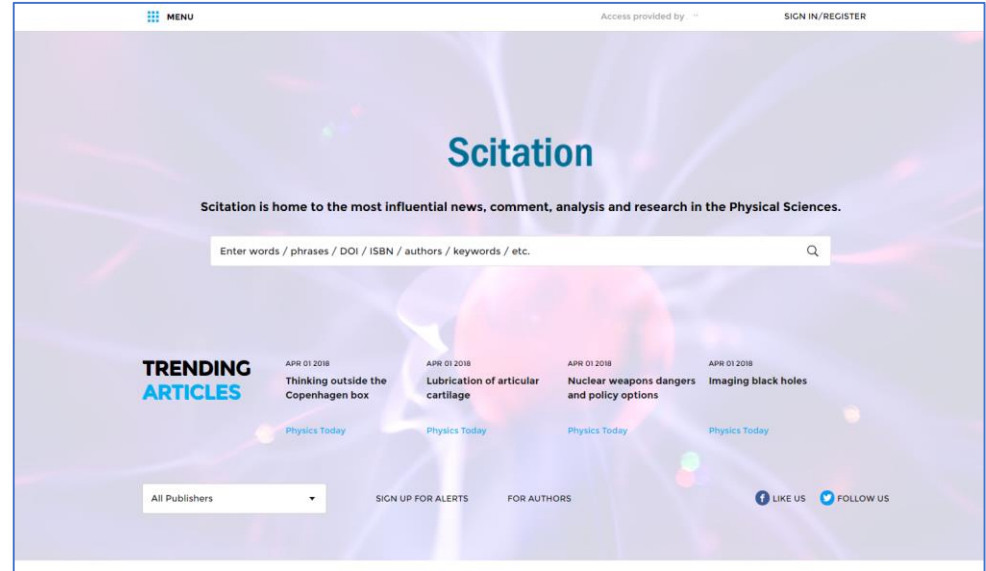
AIP Publishing Corporate Site (www.publishing.aip.org)

- Provides insight into the history of AIP Publishing
- Access to the latest company news
- Breaking research from highly regarded journals
- Author Services
- Information about our Publishing Partners
- Upcoming conferences
- Links to:
 - Scitation.org (content platform)
 - AIP Conference Proceedings
 - Physics Today
 - Offers researchers



Content Platform (www.scitation.org)

- Home to the most influential news, comment, analysis and research in the Physical Sciences
- Platform for all AIP Publishing and Publishing Partner journals, including:
 - *The Journal of Rheology*
 - *JVSTA*
 - *JVSTB*
 - *Biointerphases*
 - *Surface Science Spectra*
 - *The Journal of the Acoustical Society of America*
 - *The American Journal of Physics*
 - *The Physics teacher*
 - *Chinese Journal of Chemical Physics*
 - *Structural Dynamics*
 - *Journal of Laser Applications*



Navigating publishing.aip.org

Homepage

publishing.aip.org

The screenshot shows the AIP Publishing homepage with several callouts highlighting key features:

- Resources for institutional customers and administrators**: Points to the 'Librarians' link in the navigation bar.
- Authors - how to publish, author services and guidelines**: Points to the 'Authors' link in the navigation bar.
- Publishing Partners – learn about the societies we partner with**: Points to the 'Publishing Partners' link in the navigation bar.
- Learn about AIPP, latest news, and publications available on Scitation.org**: Points to the 'About' link in the navigation bar.
- Some of the latest research**: Points to the 'Breaking Research from AIP Publishing' section.
- Upcoming conferences**: Points to the 'Where We'll Be' section.

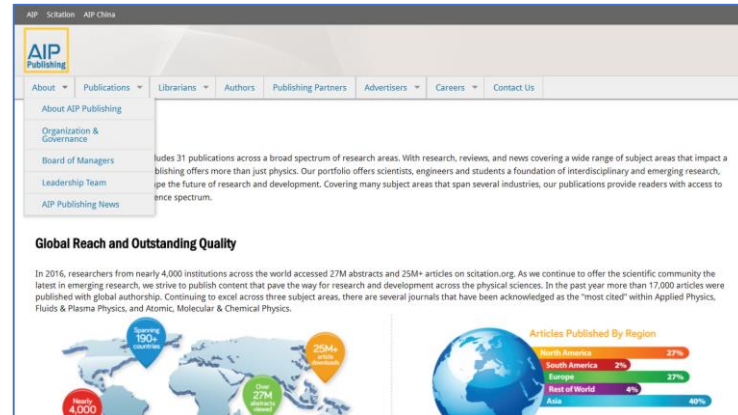
The homepage content includes:

- Global research. Global reach. World-class results.** For more than 80 years, AIP Publishing has been a trusted source of research journals, conference proceedings, and essential information for physical scientists everywhere.
- Breaking Research from AIP Publishing**:
 - Microscopic gate-modulation imaging of charge and field distribution in polycrystalline organic transistors *Journal of Applied Physics* **123**, 135301 (2018)
 - Quantitative characterization of semiconductor structures with a scanning microwave microscope *Review of Scientific Instruments* **89**, 023706 (2018)
 - Two-dimensional photonic crystal slab nanocavities on bulk single-crystal diamond *Appl. Phys. Lett.* **112**, 141102 (2018)
 - Perspective: Size selected clusters for catalysis and electrochemistry *The Journal of Chemical Physics* **148**, 110901 (2018)
 - Rapid detection of exosomal microRNA biomarkers by electrokinetic concentration for liquid biopsy on chip *Biomedfluidics* **12**, 014104 (2018)
- AIP Journals in the News**: A Paperlike LCD – Thin, Flexible, Tough and Cheap
- Publications**:
 - AIP Journals**: The most cited journals in applied physics
 - Conference Proceedings**: Reports from the most important scientific meetings around the world
 - Physics Today**: The indispensable magazine for the physical scientist providing the latest news, research trends, career advice and more
 - Scitation**
- Where We'll Be**:
 - FCCN 2018, Braga, Portugal, 11 Apr to 13 Apr 2018
 - SNBU 2018, Salvador, Brazil, 15 Apr to 20 Apr 2018
 - High Temperature Plasma Diagnostics, San Diego, CA, 16 Apr to 19 Apr 2018
 - SPIE Photonics Europe, Strasbourg, France, 22 Apr to 26 Apr 2018
 - ASA - 175th Meeting, Minneapolis, MN, 7 May to 11 May 2018
 - CLEO 2018, San Jose, CA, 15 May to 17 May 2018
 - INFORUM, Prague, Czech Republic, 29 May to 30 May 2018

About AIP Publishing & Publications

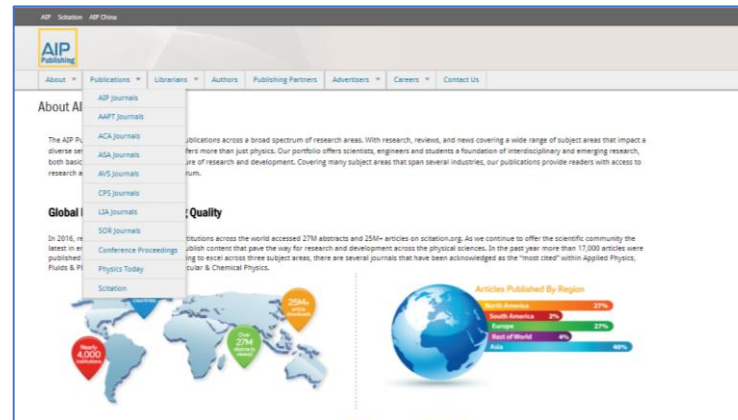
About AIP Publishing

- Learn about the history of AIP Publishing, board of managers and leadership
- View the latest news and press releases from AIPP



Publications

- Direct link to all AIP Publishing and Publishing Partner journals on Scitation.org



Library Resource Center

publishing.aip.org/librarians



Author Resource Center

- Provides authors with necessary tools and resources for when you are submitting a manuscript
- Highlights available author resources
- Learn about:
 - How to prepare a manuscript
 - Submission guidelines
 - OA policy
 - AIP Author Services

The screenshot shows the AIP Publishing Author Resource Center website. At the top, there is a navigation bar with links for AIP, Scitation, and AIP China. Below this is a main menu with links for About, Publications, Librarians, Authors, Publishing Partners, Advertisers, Careers, and Contact Us. The main content area is titled "Author Resource Center" and includes a welcome message. To the right, there are two download icons: "Author Instructions" and "Author Services". Below the welcome message, there are three main sections: "Before you begin", "Prepare your manuscript", and "Submit your manuscript". Each section contains a list of links and resources.

AIP Publishing

About Publications Librarians Authors Publishing Partners Advertisers Careers Contact Us

Author Resource Center

Welcome to AIP Publishing's Author Resource Center. We are committed to providing the support services you need to prepare your manuscripts for submission to our journals. Following the guidelines below can increase your chances of acceptance and minimize publication delays. The Resource Center will also allow you to follow your article's progress through the production process after it's been accepted.

Available for Download:

Author Instructions Author Services

Before you begin

- AIP Author Services
- Find the right journal
- Ethics & Responsibilities
 - Conflict of Interest
 - Ethics and Responsibilities
 - Creative Commons licensing terms
 - Web posting guidelines
 - Rights and permissions
 - New Author License
 - Copyright and re-use FAQs
- Preserving scholarly research
- AIP Open Access policy
- Retraction and correction policy

Prepare your manuscript

- General guidelines
 - Preparing your manuscript
 - Guidelines for specific journals
 - Guidelines for Chinese, Japanese, and Korean names
- Graphics and media
 - Preparing graphics
 - Supporting data
- Author permission FAQ

Submit your manuscript

- Manuscript preparation checklist
- Submit your manuscript via Peer X-Press
- Submitted manuscript status
- Accepted article status

Publishing Options

AIP Publishing Author Select & Open Access

- Authors pay fee to support publication and archiving costs
- Articles free in perpetuity to any online user
- *Author Select* – hybrid author-pays model for any subscription journal
- *Open Access* – available for OA AIP journals

Traditional Submissions

- No page or other fees charged
- Articles available via subscriptions or pay-per-view

The screenshot shows the AIP Publishing Author Resource Center website. At the top is a navigation bar with links for AIP, Scitation, and AIP China. Below this is a main header with the AIP Publishing logo and a secondary navigation bar with links for About, Publications, Librarians, Authors, Publishing Partners, Advertisers, Careers, and Contact Us. The main content area is titled "Author Resource Center" and includes a welcome message. To the right, there are two download links: "Author Instructions" and "Author Services". Below this, there are three columns of links: "Before you begin" (including AIP Author Services, Find the right journal, Ethics & Responsibilities, etc.), "Prepare your manuscript" (including General guidelines, Graphics and media, etc.), and "Submit your manuscript" (including Manuscript preparation checklist, Submit your manuscript via Peer X-Press, etc.).

AIP Publishing

About Publications Librarians Authors Publishing Partners Advertisers Careers Contact Us

Author Resource Center

Welcome to AIP Publishing's Author Resource Center. We are committed to providing the support services you need to prepare your manuscripts for submission to our journals. Following the guidelines below can increase your chances of acceptance and minimize publication delays. The Resource Center will also allow you to follow your article's progress through the production process after it's been accepted.

Available for Download:

Author Instructions Author Services

Before you begin	Prepare your manuscript	Submit your manuscript
<ul style="list-style-type: none">AIP Author ServicesFind the right journalEthics & Responsibilities<ul style="list-style-type: none">Conflict of InterestEthics and ResponsibilitiesCreative Commons licensing termsWeb posting guidelinesRights and permissionsNew Author LicenseCopyright and re-use FAQsPreserving scholarly researchAIP Open Access policyRetraction and correction policy	<ul style="list-style-type: none">General guidelines<ul style="list-style-type: none">Preparing your manuscriptGuidelines for specific journalsGuidelines for Chinese, Japanese, and Korean namesGraphics and media<ul style="list-style-type: none">Preparing graphicsSupporting dataAuthor permission FAQ	<ul style="list-style-type: none">Manuscript preparation checklistSubmit your manuscript via Peer X-PressSubmitted manuscript statusAccepted article status

Publishing Partners

Highlighting the AIP Publishing's publishing partnership seven organizations, including:

- Acoustical Society of America
- American Association of Physics Teachers
- AVS: Science & Technology of Materials, Interfaces, and Processing
- The Society of Rheology
- Laser Institute of America
- Chinese Physical Society
- American Crystallographic Association, Inc.

The screenshot shows the AIP Publishing website's 'Publishing Partners' page. At the top is a navigation bar with links: AIP, Scitation, AIP China, and a main menu with About, Publications, Librarians, Authors, Publishing Partners (highlighted), Advertisers, Careers, and Contact Us. The main content area is titled 'Publishing Partners' and contains a paragraph about the importance of partnerships for AIP's mission. Below this, it states 'AIP Publishing is pleased to publish for these organizations:' and displays seven logos in a grid: ASA (Acoustical Society of America), AAPT (American Association of Physics Teachers), AVS (AVS: Science & Technology of Materials, Interfaces, and Processing), The Society of Rheology, Laser Institute of America, Chinese Physical Society, and ACA (American Crystallographic Association, Inc.). A small note at the bottom right of the grid says '* AIP Member Society'. At the bottom of the page, there is a 'Questions?' section with contact information for Bridget D'Amelio, Director of Publishing Development, including a phone number and email address.

AIP Publishing

About Publications Librarians Authors Publishing Partners Advertisers Careers Contact Us


Publishing Partners

Partnerships are an important way that AIP Publishing fulfills our mission to support the American Institute of Physics' charitable, scientific, and educational purposes. Through collaboration with society publishing partners and industry organizations, AIP Publishing is able to support a broader community of physical scientists around the world and bring high-quality research to the widest global audience. Partnerships also enable us to harness technical developments to evolve scientific communications and accelerate scientific discovery.


AIP Publishing partners with a number of global learned societies to produce a body of trusted and influential research journals. This approach allows AIP Publishing to make greater investments in infrastructure and resources to better serve the needs of society partners and researcher members.

Collective effort on industry initiatives, on behalf of AIP and our publishing partners, helps us to keep pace with rapid, constant change in a digital world and shape the future of physical science communications. AIP Publishing is a leader in efforts to improve and evolve the author experience, peer review, metadata, archiving, and bibliometrics, as well as expand access to research through Open Science.


AIP Publishing is pleased to publish for these organizations:




Acoustical Society of America *




American Association of Physics Teachers *




AVS: Science & Technology of Materials, Interfaces, and Processing *




The Society of Rheology *



Laser Institute of America



Chinese Physical Society



American Crystallographic Association, Inc.

* AIP Member Society

Questions?

Contact Bridget D'Amelio, Director, Publishing Development
+1 516 576 2397
bdamelio@aip.org

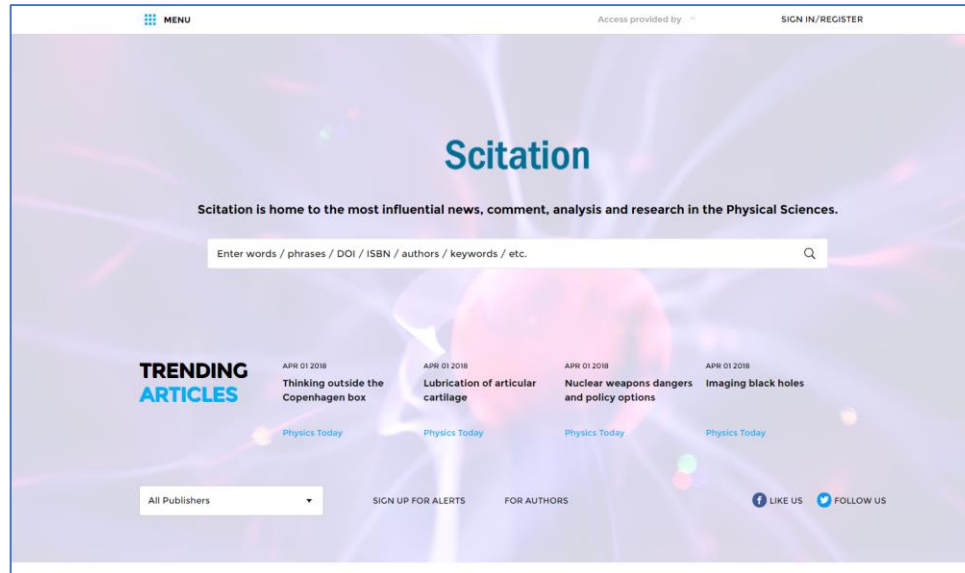
Navigating Scitation.org

AIP Publishing Portfolio

Online access available to...

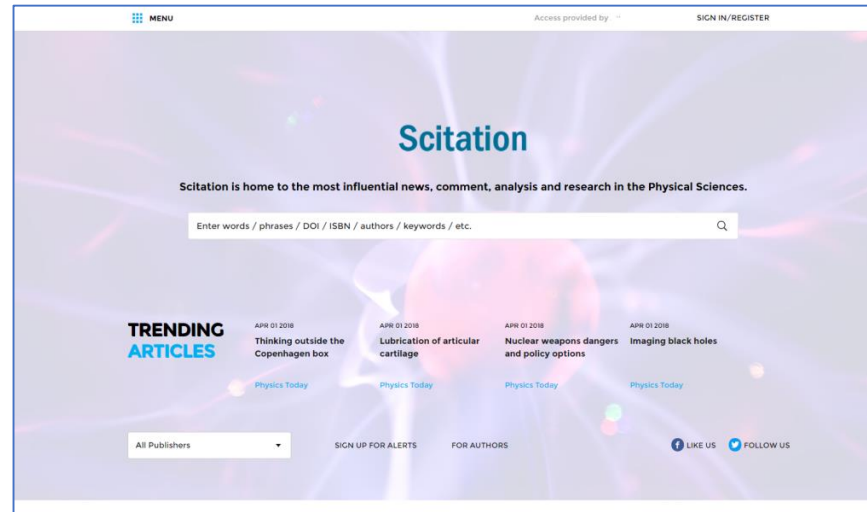
- **24 journals** in the physical sciences
 - 8 published on behalf of/ in conjunction with Publishing Partners
 - 5 Open Access journals
- **2 magazines** (*Physics Today* and *Computing in Science & Engineering*)
- **AIP Conference Proceedings** – back to 1970 including 160+
- **Digital Archives** – dates back to 1930 and includes 280K+ articles

All on one platform – scitation.org



Platform Improvements since Dec 2016

- Redesigned page layout
- Optimized display
- Improved speed
- New figure viewer
- Improved linking
- More collaboration tools
- Rebuilt library admin access site



To ensure a personalized experience on Scitation.org, take a moment to create a profile by visiting:

<https://www.scitation.org/action/registration>

A screenshot of the Scitation registration form. The form is titled 'Register' and includes fields for 'FIRST NAME*', 'LAST NAME*', 'EMAIL*', and 'PASSWORD*'. Below these fields are two checkboxes: 'Yes, I would like to occasionally receive information and offers by email.' and 'I have read and accept the AIP Publishing Terms and Conditions of Use'. A 'Terms of Use' link is provided. Below the checkboxes is a CAPTCHA image showing the text '40XK' and a prompt to 'Retype the code from the picture:'. At the bottom of the form are 'Register' and 'Cancel' buttons.

Navigating the Homepage

From the homepage, users are able to:

The screenshot shows the Scitation homepage with several callout boxes explaining navigation features:

- Personalized for institutional customers when accessing content via IP range**: Points to the "Access provided by" text at the top.
- Indicates you're logged in to your account**: Points to the "Welcome" text at the top.
- Search the Scitation.org platform by keyword, phrase, DOI, ISBN, author name, etc.**: Points to the search bar.
- Read the latest articles from across the platform**: Points to the "TRENDING ARTICLES" section.
- Sign up for Alerts – register for journal alerts to be delivered right to your inbox**: Points to the "SIGN UP FOR ALERTS" button.
- For Authors – access the Author Resource Center for information on manuscript submission, publishing, available services, and more.**: Points to the "FOR AUTHORS" button.
- To perform an advanced search, click the magnifying glass. and the "advanced search" box will appear (see page 4).**: Points to the magnifying glass icon in the search bar.
- Note: the "search tips" that appear in the right column are very useful when you're seeking to obtain tailored search results**: Points to the search bar area.
- Learn more about AIP Publishing, read the latest and most popular articles, etc.**: Points to the "About AIP Publishing" section.

The homepage content includes:

- Scitation**: Scitation is home to the most influential news, comment, analysis and research in the Physical Sciences.
- Search bar**: Enter words / phrases / DOI / ISBN / authors / keywords / etc.
- TRENDING ARTICLES**: A list of trending articles with dates and titles.
- Sign up for Alerts**: A button to register for journal alerts.
- FOR AUTHORS**: A button to access the Author Resource Center.
- About AIP Publishing**: A section providing information about AIP Publishing.
- Popular Articles**: A list of popular articles.

Advanced Search

The image shows a screenshot of the Scitation website. The main page features a large search bar with the placeholder text "Enter words / phrases / DOI / ISBN / authors / keywords / etc.". A magnifying glass icon is circled in yellow, with a callout box stating: "Click here to view the 'Advanced Search' option and to access 'Search Tips'". Below the main page, two smaller screenshots are shown. The first is the "Advanced Search" page, which includes fields for "Anywhere", "Topic", "Published in", and "Publication Date". The "Anywhere" field is circled in yellow. The second screenshot is the "Search Tips" page, which includes a section titled "Basics: How Do Quick and Advanced Search Work?". This section is also circled in yellow, with a callout box stating: "Review the 'Search Tips' to get the most out of your search results".

- Allows you to search the Scitation Platform in one-go
- Search by keyword and phrase, DOI and ISBN #, author, topic, publication and publication date
- “Search tips” – offer the best way to get what you want out of your search

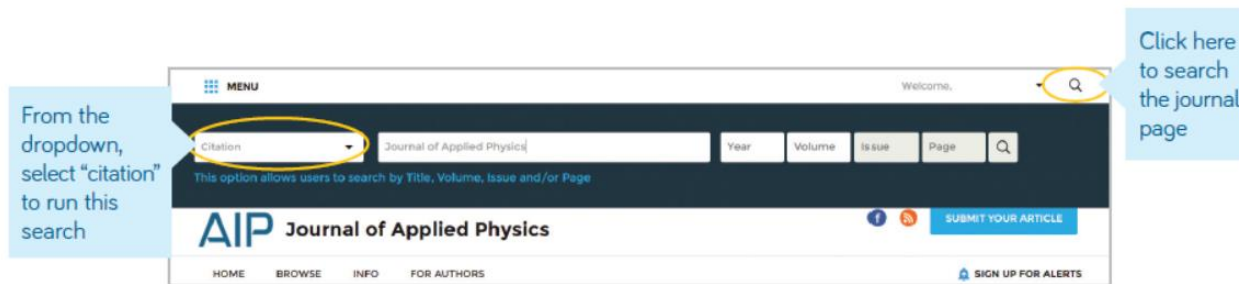
Search Results

When search results appear, you are able to:

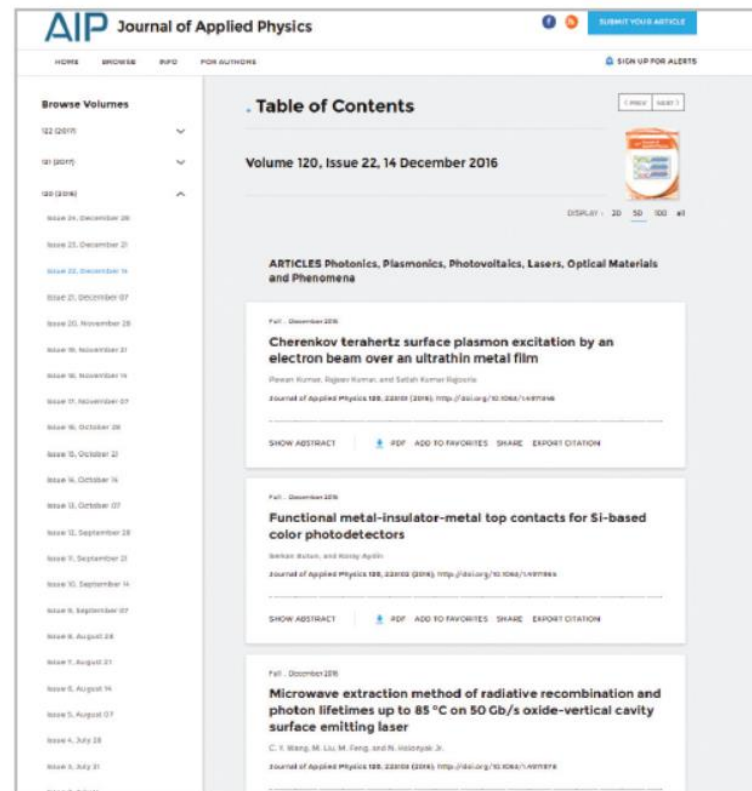
- Filter by article type, publication date, topic, author name, or publication
- Sort by relevance or publication date

The screenshot displays a search results interface for the term 'semiconductor'. The top navigation bar includes a 'MENU' icon, a 'Welcome' message, and a search icon. Below the search bar, the results are summarized as 'RESULTS: 1 - 20 of 188465'. A 'Follow results' link is available. The search criteria are set to 'Anywhere' and 'semiconductor'. The results are categorized by 'ARTICLES (188465)' and 'PHYSICS TODAY DAILY EDITION (15)'. A 'Refine Search' dropdown is present, and the results are sorted by 'Relevance'. The left sidebar offers various filters: 'ARTICLE TYPE' (Research Article: 176248, Letter: 18024, Other: 2207, Book Review: 1024, Correction Chapter: 991, MORE...), 'PUBLICATION DATE' (1932 to 2017), 'TOPICS' (Metals: 70009, Electronic Devices: 62007, Materials Analysis: 50009, Chemical Analysis: 43427, Optical Devices: 11022, MORE...), 'AUTHOR' (Pearson, S.J.: 6029, Morlok, H.: 120, Holonyak, N.Jr.: 372, Ren, P.: 100, Gossard, A.C.: 209, MORE...), and 'PUBLICATION' (Applied Physics Letters: 134023, Journal Of Applied Physics: 160005, AIP Conference Proceedings: 10009, Journal Of Vacuum Science & Technology B, Nanotechnology And: 11001). The main content area lists several articles, each with its title, authors, journal, and a link to the full text. The articles include: 'Effect of various substrates on the hydrogen sensitivity of palladium-semiconductor diodes' (Oct 1, 1981, 22 Citations), 'Carrier mobility in polycrystalline semiconductors' (Dec 1, 1981, 21 Citations), 'Diluted magnetic semiconductors: An interface of semiconductor physics and magnetism (invited)' (Nov 1, 1982, 389 Citations), 'Characterization of SiLK I™ Semiconductor Dielectric by XPS' (Dec 1, 2002, 2 Citations), 'Correlation between Schottky barrier heights on compound semiconductors and metal and semiconductor electronegativities' (Sep 1, 1981, 4 Citations), and 'Dual chopped photoreflectance spectroscopy for nondestructive characterization of semiconductors and semiconductor nanostructures' (Apr 1, 2008, 6 Citations).

Article Search by Citation from Journal Homepage



- For the most accurate results, fill in the journal name, year of publication, volume and page number



Journal Homepage: Navigating the Page

From the navigation bar you can access:

- **"Home"** - navigate to the homepage by clicking here
- **"Browse"** - view Table of Contents
- **"Info"** - Overview, Editorial Board, News
- **"For Authors"** - Author resources on preparing a manuscript and submitting an article

View the Editor's latest article picks

Submit your article

Sign up for journal alerts

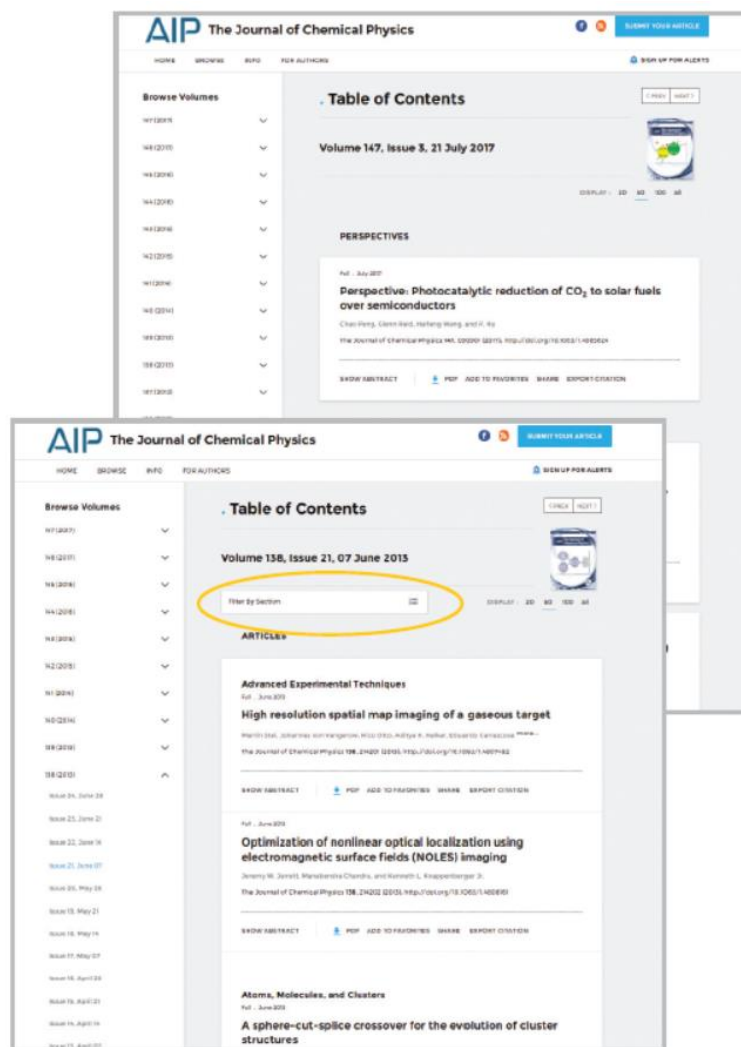
View the featured article from the latest issue

The screenshot shows the homepage of the AIP Journal of Chemical Physics. The navigation bar at the top includes links for HOME, BROWSE, INFO, and FOR AUTHORS. Callouts highlight the 'SUBMIT YOUR ARTICLE' and 'SIGN UP FOR ALERTS' buttons. The featured article is titled 'Toward chemical accuracy in the description of ion-water interactions through many-body representations. Alkali-water dimer potential energy surfaces'. Below this, there are sections for 'Editor's Picks' and 'Most Read' articles, each with a thumbnail image and a brief description. The 'Editor's Picks' section includes articles on liquid-liquid phase transition in an ionic model of silica, low-energy photoelectron transmission through aerosol overlayers, colloidal diffusion over a quasicrystalline-patterned surface, simulations of simple linoleic acid-containing lipid membranes and models for the soybean plasma membranes, and communication: density functional theory embedding with the orthogonality constrained basis set expansion procedure. The 'Most Read' section includes articles on stimulated Raman adiabatic passage: The status after 25 years, benchmarks of electronically excited states: Basis set effects on CASPT2 results, a coupled cluster approach with a hybrid treatment of connected triple excitations: Implementation and applications for open-shell systems, and calculations of the low-lying excited states of the TiO₂ molecule.

Access "most read" articles

Journal Homepage: Table of Content (TOC)

- View, download, “add to favorites” or “share” your article of choice
- “Filter by Section” populates the sections and sub-sections within each TOC



Journal Homepage: Navigation Bar

learn about the journal,
its editorial board, and
the latest news

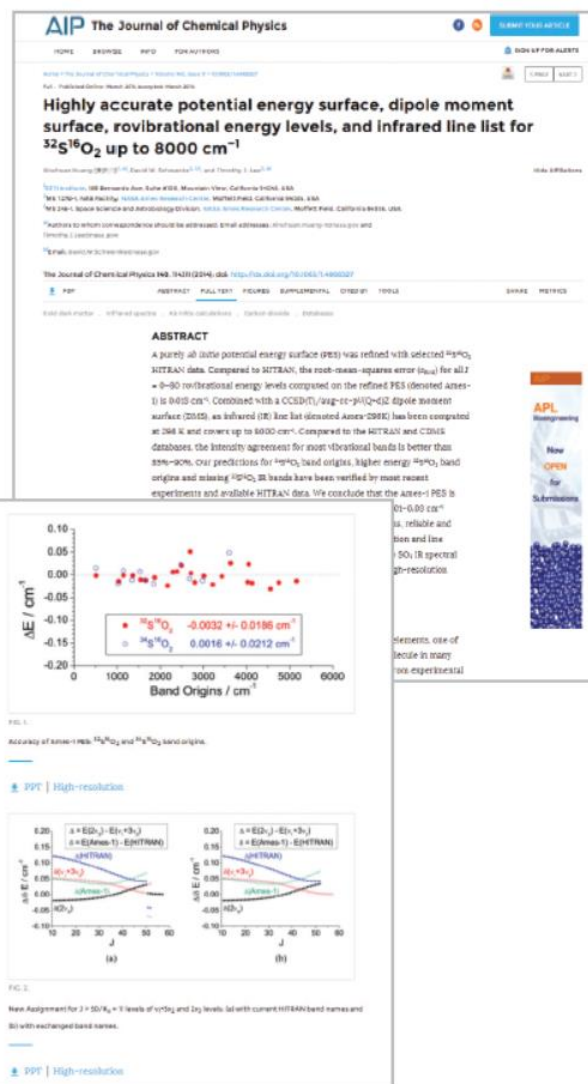
The screenshot shows the AIP Journal of Chemical Physics homepage. At the top is a navigation bar with links: HOME, BROWSE, INFO, and FOR AUTHORS. A blue button labeled 'SUBMIT YOUR ARTICLE' is on the right. Below the navigation bar, a large featured article is displayed with the title 'Toward chemical accuracy in the description of ion-water interactions: Alkali-water dimer potential energy surfaces'. To the left of this article is a callout box with the text 'learn about the journal, its editorial board, and the latest news'. Below the featured article, there are several smaller articles under the heading 'Editor's Picks'. On the right side, there is a 'PERSPECTIVE' section and a 'Most Read' section. The layout is clean and professional, with a focus on scientific content.

Your one stop for
information on publishing
a manuscript

This screenshot shows the same AIP Journal of Chemical Physics homepage, but with a different callout box. The callout box, located on the right side, contains the text 'Your one stop for information on publishing a manuscript'. The rest of the page, including the navigation bar, featured article, and other sections, is identical to the previous screenshot. This highlights the 'FOR AUTHORS' section of the navigation bar, which is the primary point of contact for authors looking to publish in the journal.

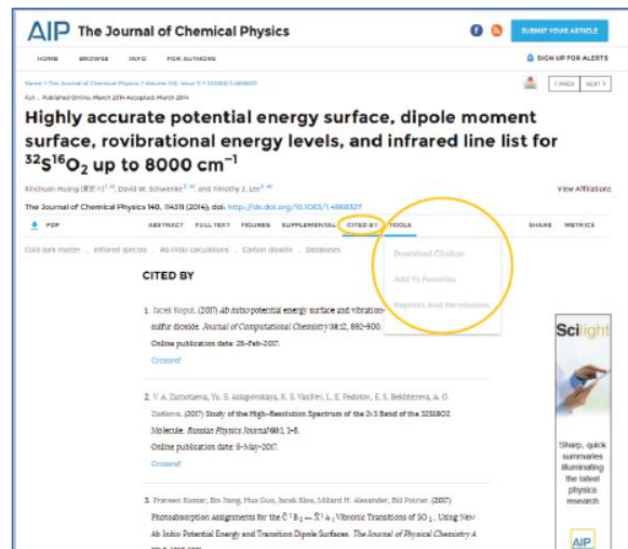
Viewing an Article

- From an article, users can:
 - Save searches
 - Sign up for RSS feeds
 - Download an article as a PDF
 - Sign up for journal alerts
 - View author affiliations
 - View and download article citations
 - Add to your “favorites”
 - “Share” the article with peers
 - View article metrics
 - Access related articles
- In most cases, articles are available as HTML or PDF
- Article graphs/ charts can be downloaded to PPT

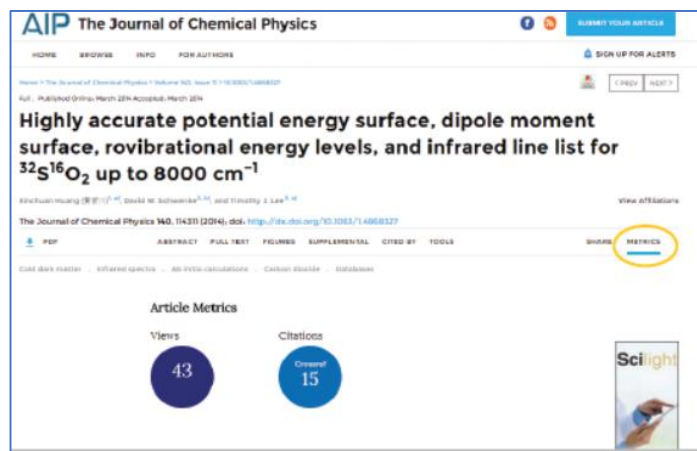


Article Citations, Tools & Metrics

- Article citations can be viewed and downloaded
- Articles can be added to “favorites”



- Article metrics are recorded in real-time and updated on the article page daily
 - Cumulative since Dec 2016



Related Article & Sharing an Article

AIP | Highly accurate potential energy surface, dipole moment surface, rovibrational energy levels, and infrared line list for $^{32}\text{S}^{16}\text{O}_2$ up to 8000 cm^{-1}

RELATED ARTICLES

- Potential energy surface of HDO up to 21000 cm^{-1} – 121000 cm^{-1} mat h dis...
S. N. Yurchenko, S. A...
- Potential energy and dipole moment surfaces of $\text{H}_2\text{H}^{18}\text{O}$ – $\text{H}_2\text{H}^{16}\text{O}$ displa...
M. Ayoub, O. Dulieu, ...
- Highly accurate potential energy surface for the H_2 dimer
Brandon W. Bink, Daniel...
- Accurate global potential energy surface for the $\text{H} + \text{CH}_4$ reaction...
M. A. Garneau, N. E...

- Related articles appear at the top of the screen
- All articles are “shareable” via social media and email

AIP The Journal of Chemical Physics

HOME BROWSE INFO FOR AUTHORS

SIGN UP FOR ALERTS

Home > The Journal of Chemical Physics > Volume 140, Issue 11 > 10.1063/1.4868327

Full | Published Online: March 2014 Accepted: March 2014

Highly accurate potential energy surface, dipole moment surface, rovibrational energy levels, and infrared line list for $^{32}\text{S}^{16}\text{O}_2$ up to 8000 cm^{-1}

Xinchuan Huang (黄新川)^{1, a}, David W. Schwenke^{2, b}, and Timothy J. Lee^{3, a}

The Journal of Chemical Physics **140**, 114311 (2014); doi: <http://dx.doi.org/10.1063/1.4868327>

PDF ABSTRACT FULL TEXT FIGURES SUPPLEMENTAL CITED BY TOOLS SHARE METRICS

Cold dark matter · Infrared spectra · Ab initio calculations · Carbon dioxide · Databases

ABSTRACT

A purely *ab initio* potential energy surface (PES) was refined with selected $^{22}\text{S}^{16}\text{O}$ HITRAN data. Compared to HITRAN, the root-mean-squares error (σ_{RMS}) for a 1) = 0–80 rovibrational energy levels computed on the refined PES (denoted Ames-1) is 0.013 cm^{-1} . Combined with a CCSD(T)/aug-cc-pV(Q+d)Z dipole moment surface (DMS), an infrared (IR) line list (denoted Ames-296K) has been computed at 296 K and covers up to 8000 cm^{-1} . Compared to the HITRAN and CDMS databases, the intensity agreement for most vibrational bands is better than 85%–90%. Our predictions for $^{34}\text{S}^{16}\text{O}_2$ band origins, higher energy $^{22}\text{S}^{16}\text{O}_2$ band

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<https://www.scitation.org/help>

PDF version of this User Guide:
<https://publishing.aip.org/librarians/userguides>