

The American Physical Society (APS) was founded on May 20, 1899. The APS is committed to provide high-quality service and products to its members and the scientific community. APS is active in public and governmental affairs and in the international physics community. APS has fourteen divisions and nine topical groups covering all areas of physics research. There are six forums that reflect the interest of its over 50,000 members in broader issues, and nine sections organized by geographical region. The PROLA (Physical Review Online Archive) search engine (which indexes all APS journal material published from 1893 to present) is freely available to all users. Access to the full-text of articles and other online journals features restricted to members only. Member of N-LIST Programme can access full-text of 10 journals published by the APS with back files for ten years.

## Browse

Homepage of APS contains list of journals. A user can access homepage of a journal by clicking on journal name.

The screenshot shows the APS Journals homepage. At the top, it says "APS Journals" and "Physical Review Letters, Physical Review, and Reviews of Modern Physics". There are navigation links for "Log in", "Create Account", "RSS Feeds", and "Email Alerts". A sidebar on the left contains links for "About the Journals", "Search the Journals", "Join APS", "PACS Scheme", "Annual Index", "BAPS", "Authors", "Referees", etc. The main content area is titled "APS Journals" and lists various journals with their publication ranges. A blue callout box with a white border points to the list of journals, containing the text "Click on Journal Name to View Home Page".

APS Journals

Physical Review Letters, Physical Review, and Reviews of Modern Physics

American Physical Society APS physics

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APS Journals » Journals » Browse APS Journals

Article Lookup Journal Search Site Search

### APS Journals

All APS journal subscriptions go back to the first volume of the journal. *Physical Review Series I and II* are only accessible through a PROLA subscription. In addition, a PROLA subscription gives access to the content of all journals except for the current year and the preceding three years.

- *Physical Review Letters* (1958-Present)
- *Reviews of Modern Physics* (1929-Present)
- *Physical Review A* (1970-Present)
- *Physical Review B* (1970-Present)
- *Physical Review C* (1970-Present)
- *Physical Review D* (1970-Present)
- *Physical Review E* (1993-Present)
- *Physical Review X* (2011-Present)
- *Physical Review Special Topics - Accelerators and Beams* (1998-Present)
- *Physical Review Special Topics - Physics Education Research* (2005-Present)
- *Physical Review* (1913-1969)
- *Physical Review (Series I)* (1893-1912)
- *Physics* (2008-Present)
- *Physical Review Focus* (1998-2011, now part of *Physics*)

Click on Journal Name to View Home Page

After clicking at name of the journal, homepage of particular journal is displayed. Clicking on a particular volume will fetch list of issue published in a given volume. A user can browse table of content by selecting required issue number. Articles can also be located by volume and article number using the Volume/Article lookup. Click on **Earlier Volumes** to browse archives.

**\* Do not log on to the URL directly. First log on to N-LIST website with your user ID and password, and then select American Physical Society for accessing its journals.**

Physical Review A  
atomic, molecular, and optical physics

American Physical Society  
APS  
physics

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Home Browse Search Subscriptions Help

Citation Search: Phys. Rev. Lett. Vol. Page/Article Go

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APS » Journals » Phys. Rev. A

Physical Review A: Volumes 68 – 87  
(July 2003 – Present)

< Earlier Volumes

Browse Volumes from Archives

Select Volume No. and Issue No. for Further Exploration

Volume 87 January - Present  
Issue 6 June 2013 (partial)  
Issue 5 May 2013  
Issue 4 April 2013  
Issue 3 March 2013  
Issue 2 February 2013  
Issue 1 January 2013

Volume 86 July - December 2012  
Issue 6 December 2012  
Issue 5 November 2012  
Issue 4 October 2012  
Issue 3 September 2012  
More...

Volume 85 January - June 2012  
Volume 84 July - December 2011  
Volume 83 January - June 2011  
Volume 82 July - December 2010  
Volume 81 January - June 2010  
Volume 80 July - December 2009  
Volume 79 January - June 2009  
Volume 78 July - December 2008

AMERICAN PHYSICAL SOCIETY'S NEW JOURNAL  
PRX  
Physical Review X  
prx.aps.org  
Committed to Excellence

Physics  
APS's FREE online publication.

Read the latest from Physics:  
Viewpoint: Topology with Liquid Crystals  
Viewpoint: Polariton Fluids for Optical Logic  
Focus: A New Direction for Thermoelectric Cooling

Screenshot given below is table of content page in HTML format. Click on **PDF** to view full-text article in PDF format. It also provides option to navigate from one issue to another.

Physical Review A  
atomic, molecular, and optical physics

American Physical Society  
APS  
physics

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Home Browse Search Subscriptions Help

Citation Search: Phys. Rev. Lett. Vol. Page/Article Go

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APS » Journals » Phys. Rev. A » Volume 87 » Issue 5

Physical Review A – May 2013  
Volume 87, Issue 5

< Previous Issue | Next Issue >

AMERICAN PHYSICAL SOCIETY'S NEW JOURNAL

Navigation From One Issue to Another Issue

Email Alert and RSS Options

RAPID COMMUNICATIONS

- Fundamental concepts
- Quantum information
- Atomic and molecular collisions and interactions
- Atomic and molecular processes in external fields, including interactions with strong
- Matter waves and collective properties of cold atoms and molecules
- Quantum optics, physics of lasers, nonlinear optics, classical optics

ARTICLES

- Fundamental concepts
- Quantum information
- Atomic and molecular structure and dynamics
- Atomic and molecular collisions and interactions
- Clusters (including fullerenes)
- Atomic and molecular processes in external fields, including interactions with strong
- Matter waves and collective properties of cold atoms and molecules
- Quantum optics, physics of lasers, nonlinear optics, classical optics

BRIEF REPORTS

- Fundamental concepts
- Quantum information
- Atomic and molecular structure and dynamics
- Atomic and molecular collisions and interactions
- Atomic and molecular processes in external fields, including interactions with strong
- Quantum optics, physics of lasers, nonlinear optics, classical optics

RAPID COMMUNICATIONS

Fundamental concepts

- Tests against noncontextual models with measurement disturbances  
Jochen Scauplides, Matthias Kleinmann, and Oliver Gühne  
Published 6 May 2013 (5 pages)  
050101(R) [View PDF (233 kB)]
- Robust self testing of unknown quantum systems into any entangled two qubit states  
Tzhi-Haur Yang and Miguel Navascués  
Published 20 May 2013 (4 pages)  
050102(R) [View PDF (144 kB)]

Quantum information

- Blind quantum computation protocol in which Alice only makes measurements  
Tomoyuki Morimae and Kaisuke Fujii  
Published 13 May 2013 (5 pages)  
050301(R) [View PDF (60 kB)]
- Broadcasting quantum Fisher information  
Xiao-Ming Lu, Zhe Sun, Xiaoguang Wang, Shunlong Luo, and C. H. Oh  
Published 13 May 2013 (5 pages)  
050302(R) [View PDF (154 kB)]
- Homodyne detection as a near-optimum receiver for phase-shift-keyed binary communication in  
Stefano Olivares, Simone Cialdi, Fabrizio Castelli, and Matteo G. A. Paris  
Published 17 May 2013 (4 pages)  
050303(R) [View PDF (2,139 kB)]
- Entangling two defects via a surrounding crystal  
T. Fogarty, E. Kavali, B. G. Taketani, A. Wolf, Th. Busch, and Giovanna Morici  
Published 23 May 2013 (6 pages)

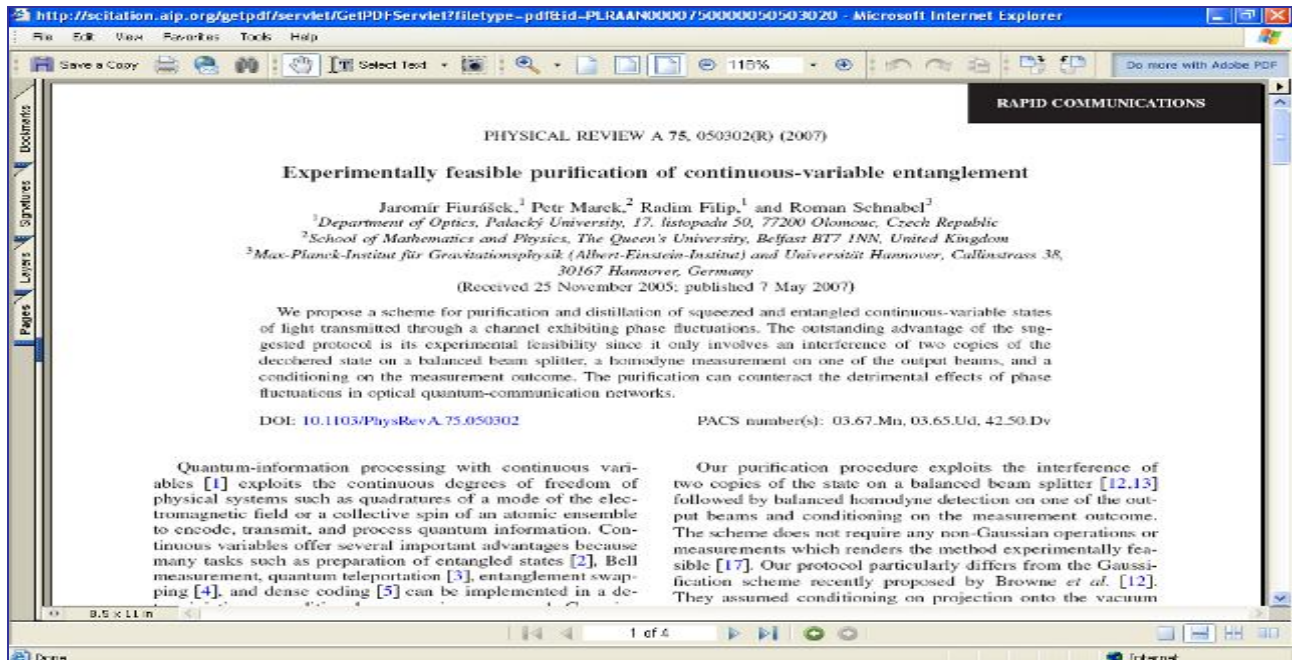
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Excellence

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iquid Crystals  
or Optical Logic  
thermoelectric

Screenshot given below, shows full-text article in PDF format.



## Search

### Article Lookup Search

Article lookup Box is used to browse a specific article. It is located at the top of every page in Physical Review A-E, Physical Review Letters, Reviews on Modern Physics, Physical Review ST-AB, Physical Review ST-PER.

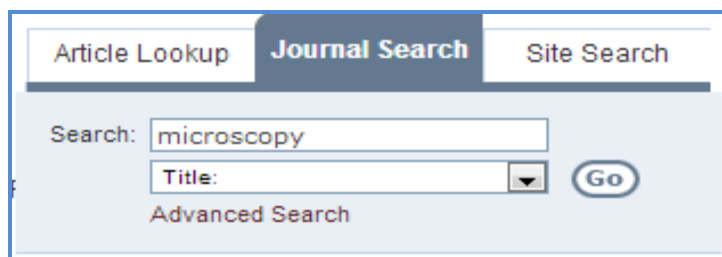
- In the first dropdown menu choose the journal;
- In the second box enter the volume number;
- In the next entry box enter the page/article number provided to all articles of APS; and
- Click on **Go** button to run a search query.

Article Lookup
Journal Search
Site Search

or by citation or DOI

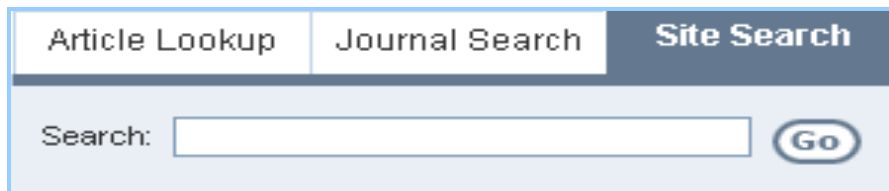
### Journal Search

Journal search is a kind of simple search located before article Lookup Box on every page. In journal search, select search area from the dropdown menu then enter search term in text entry box. Click on **search** button.



## Site Search

Site search is located before Journal Search on every page. It can be used to search within site.



## Advanced Search

Click “Search the Journals” at left navigation pan on APS homepage or click on “Search” option from specific journal’s home page to execute Advanced Search. Advanced search provides option to limit the search by journal, by date range and by category. Screenshot reproduced below is an example of search for an article on “Quantum Mechanics” by **Gideon Carmi**.

### Search APS Journals

**NEW** Log in or Create an account to create personalized email or RSS alerts based on your search criteria

Abstract/Title  Enter Search Term

AND  Author

AND  Full Text

Select Search Area Sort

Most Recent  Most Relevant  Oldest First  Most Cited

Per Page  Search

**Additional Restrictions (Optional)**

Date  to   
e.g. 1970 e.g. 2013 Limit the Search by Journal, by Date Range and by Category

**Journal** Clear All

<input type="checkbox"/> Phys. Rev. Lett.	<input type="checkbox"/> Phys. Rev. A	<input type="checkbox"/> Phys. Rev. B
<input type="checkbox"/> Phys. Rev. C	<input type="checkbox"/> Phys. Rev. D	<input type="checkbox"/> Phys. Rev. E
<input type="checkbox"/> Phys. Rev. X	<input type="checkbox"/> Phys. Rev. ST Accel. Beams	<input type="checkbox"/> Phys. Rev. ST Phys. Educ. Res.
<input type="checkbox"/> Rev. Mod. Phys.	<input type="checkbox"/> Phys. Rev. (Series I)	<input type="checkbox"/> Phys. Rev.
<input type="checkbox"/> Physics		

**Category** Clear All

<input type="checkbox"/> Editors' Suggestion	<input type="checkbox"/> Featured in <i>Physics</i>	<input type="checkbox"/> Rapid Communication	<input type="checkbox"/> Open Access
<input type="checkbox"/> PRL Milestone			

Screenshot given below is output of above search query. This page provides option to refine the search, edit the search or start a new search. Click on **Show All Abstracts** to view search results with abstract. To access full text article, click on **PDF**.

The screenshot shows the APS Journals search results interface. At the top, there's a navigation bar with 'Home', 'Browse', 'Search', 'Subscriptions', and 'Help'. Below that is a search bar with 'Citation Search' and a 'Go' button. The main content area shows search results for 'Abstract/Title: quantum mechanics AND Author:gideon carmi'. A list of filters on the left includes 'Journal', 'Category', and 'Date'. A list of search results is shown, with the first result highlighted: 'Point Transformations in Quantum Mechanics. I. The Relativistic Potential Problem' by Gideon Carmi. Blue callout boxes point to various features: 'Edit Your Search or Conduct New Search' points to the search bar and 'New Search' button; 'Sort Your Results' points to the sorting options; 'Refine Your Results' points to the filter categories; and 'Download Full-Text in PDF Format' points to the 'View PDF' link.

## Free E-mail Table of Contents Alerts

A free e-mail alerting service is available for each APS journal. By subscribing to this service, a user will receive table of contents alerts as new journal issues are complete — in either plain-text (ASCII) or HTML format. Alerts in HTML format are fully linked to abstracts and full text.

## RSS Feeds

APS provides content using RSS feeds. Journal feeds contain recently published articles in each journal and are updated as new articles are published. A list of all available feeds along with a set of frequently asked questions can be found at <http://publish.aps.org/feeds> or by following the RSS link on journal pages.

The screenshot shows the 'RSS Feeds' page on the APS Journals website. The page title is 'RSS Feeds' and it includes a sub-header 'APS provides content using RSS feeds as a convenience to our readers. RSS (Really Simple Syndication) is a format that makes it easy to browse content and receive automatic updates when new items are published. To follow an RSS feed, you need to "subscribe" to the feed either within your browser or a dedicated RSS reader. URLs are associated with each feed's icon.' Below this, there are sections for 'Editor Selected Feeds' and 'Topical Cross-journal Feeds'. The 'Editor Selected Feeds' section includes 'Physics', 'PRL Editors' Suggestions', 'PRB Editors' Suggestions', and 'PRC Editors' Suggestions'. The 'Topical Cross-journal Feeds' section lists various topics such as 'Atomic and molecular processes in strong laser fields', 'Graphene', 'Iron-based superconductors', 'Magnetic semiconductors', 'Metal-insulator transitions', 'Metamaterials', 'Photonic crystals', 'Plasmonics', 'Spintronics', 'Strong correlations in one dimension', 'Topological Insulators', and 'Ultrasound Bose and Fermi Gases'.