



IOPscience

User guide

iopscience.org

IOP Publishing

Discover more...

IOPscience is an online service for journal content published by IOP Publishing. *IOPscience* embraces innovative technologies to make it easier for researchers to access scientific, technical, and medical content.

articleevolution™

Article evolution is a new and ongoing project, which improves the online delivery of research articles on *IOPscience*, enabling you to interact with research in new ways.

The first step in this project has provided the functionality for you to view new articles on *IOPscience* as HTML pages.

Many new features are available, such as being able to zoom in and out of images and viewing video abstracts. MathJax technology has been incorporated, improving the rendering of mathematics and a mobile view of abstract and article pages is also available.

To find out more, visit iopscience.org/article-evolution

With IOPscience you can:

- Speed up your research: find relevant content quickly with enhanced search filtering
- Save time: re-run previous searches, tagging your favorite articles
- Keep up-to-date: receive RSS feeds and e-mail alerts when new content is published
- Interact and share: embrace social bookmarking to share articles
- Make it personal: customize your alerts, save articles of interest, and view newly published articles within your subject areas

Contents

Homepage (iopscience.org)	Page 3
Search (iopscience.org/search)	Page 4–6
Collections (iopscience.org/collections)	Page 7
Journals (iopscience.org/journals)	Page 8–9
My IOPscience (iopscience.org/myiopscience)	Page 10
IOPscience extra (iopscience.org/extra)	Page 11

Homepage – iopscience.org

This is the first page that you go to on *IOPscience*.

The screenshot shows the IOPscience homepage with several key features highlighted by red lines:

- Quick search:** Located at the top right and in the middle left, featuring a search bar and a 'Search' button.
- Welcome to IOPscience:** A central section with a 'Welcome to IOPscience' heading and a brief description of the platform.
- Article evolution:** A section titled 'Article evolution starts here' with a graphic of the text 'articleevolution' repeated vertically.
- Navigation tabs:** A row of tabs at the bottom left: 'Latest articles', 'Most read', 'Most cited', and 'Latest news'.
- Article list:** A list of articles under the 'Latest articles' tab, including titles like 'Composition fluctuations in InP/GaInAs/InP heterostructures' and 'Non-Surface Activity of Cationic Amphiphilic Diblock Copolymers'.

Quick search

This is a fielded search from the homepage or from the top right of every page. The default is set to search but you can change this to select authors, affiliations, or all fields, as well as a date range.

Latest articles

Read the latest articles on *IOPscience*.

Most read

The most read articles on *IOPscience* are displayed in this tab.

Latest news

Stay up-to-date with the latest scientific developments from other IOP Publishing websites.

Most cited

View the most cited articles across *IOPscience* from the last two years.

Search – iopscience.org/search

Click on the second tab next to search content on *IOPscience*.

Search field

You can filter your search by selecting title/abstract, author, affiliation, all fields, full text, and PACS/MS codes. Additionally, you can filter by date range, subject, and journal.

Search results

The results counter immediately tells you how many results you have returned.

Use the PACS or MSC code

Enter your PACS or MSC code into the search box, or enter your search term to find the relevant codes.

To find out more about PACS and MSC codes, visit www.aip.org/pacs and www.ams.org/msc.

Filter by subject or journal

Check boxes allow you to filter the information that you need quickly.

The screenshot shows the IOPscience search page. At the top, there are links for 'Login', 'Create account', and 'Athens/Institutional login'. The main header features the 'IOPscience' logo and a search bar with a dropdown menu set to 'Title/Abstract' and a date range dropdown set to 'All Dates'. A 'Search' button is located to the right of the search bar. Below the search bar, there are navigation tabs: 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', and 'My IOPscience'. On the right side, there are links for 'Authors', 'Referees', and 'Librarians'. A red box highlights the search results counter, which shows '0' and 'IOPscience result(s)'. Below the search bar, there is a section for 'PACS/MS search' with a text input field and a 'Search' button. The main search area contains a search box, a dropdown menu set to 'Title/Abstract', a date range dropdown set to 'All Dates', and a 'Search now' button. Below the search area, there are two columns of filters: 'Subjects' and 'Journals'. The 'Subjects' column lists various physics topics with checkboxes, and the 'Journals' column lists various journals with checkboxes. Red lines connect the text in the surrounding paragraphs to specific UI elements: the 'Search' tab, the search bar, the results counter, the PACS/MS search section, and the filter sections.

Search – iopscience.org/search

You can drill down further on your search results to find exactly what you need.

The screenshot shows the IOPscience search interface. At the top, there are navigation links for 'Login', 'Create account', and 'Athens/Institutional login'. The main search bar contains 'Title/Abstract' and 'All Dates'. Below the search bar, there are tabs for 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', 'My IOPscience', 'Authors', 'Referees', and 'Librarians'. The search results section shows 'Your search (109)' with filters for 'Full text (738)', 'e-prints (356)', 'News and analysis (3)', 'ProQuest (19)', and 'Physics World Archive (478)'. A red box highlights the '109 IOPscience Result(s)' count. Below this, there are filter categories: PACS (95.30.Cq (24), 95.35.+d (19), 11.30.Er (14)), Dates (2011 (9), 2010 (8), 2009 (10)), Subjects (Particle physics and field theory (50), Astrophysics and astroparticles (43), Gravitation and cosmology (34)), Journals (Journal of Physics: Conference Series (20), Physics Education (18), Journal of Cosmology and Astroparticle Physics (15)), and Authors (R. L. Golden (4), J. F. Ormes (4), R. E. Streitmatter (4)). A 'Filter Now' button is at the bottom right of the filter section. Below the filters, there is a 'Full text search within results:' field. The results are ordered by 'Publication Date'. The first result is 'Propagation of Gaussian wave packets in left-handed media exhibits negative transmission times and optical antimatter behavior' by P. Pereyra, published in 2011 EPL 95 17004. The second result is 'Baryon asymmetry resulting from a quantum phase transition in the early universe' by V. R. Shaginyan, G. S. Japaridze, M. Ya. Amusia, A. Z. Msezane and K. G. Popov, published in 2011 EPL 94 69001. The third result is 'Antimatter Production in Supernova Remnants' by M. Kachelrieß, S. Ostapchenko and R. Tomás, published in 2011 ApJ 733 119. Each result has options to 'Tag this article', 'Full text PDF', and 'View as HTML'.

Filter results

You can expand each filter category such as PACS code, date, subject, journal, and author.

You can also enter a further full-text search term within your initial set of results to refine your search.

Search results

You can save your search results and re-run at a later date. You can also set up an RSS feed or e-mail alert to notify you of new results that meet your search criteria.

Authors

You can click on an author's name to link to other papers by that author.

Export selected results

You can export all or selected results to your preferred format.

Tag this article

Tag any article with your own description for future reference.

Search – iopscience.org/search

While still on the Search tab, you can expand your research scope even further to find more content.

One search only

Just one search will give you four sets of results:

- **Your search**
- **Full text:** your search across all article fields.
- **e-prints:** provided from eprintweb.org (a free e-print service based on Cornell University's arXiv.org).
- **News and analysis:** available from other IOP Publishing websites.

If your institution has a subscription to *IOPscience extra*, you will also have access to extra content within the *ProQuest* tab and *Physics World* archive tab.

For more information, see page 11.

The screenshot shows the IOPscience search results page for the query "black hole". The page is divided into several sections:

- Header:** Includes "Login", "Create account", and "Athens/Institutional login". The IOPscience logo is prominently displayed.
- Search Bar:** Contains the search term "black hole" and a "Search" button. There are also dropdown menus for "Title/Abstract" and "All Dates".
- Navigation:** A menu bar with options: Home, Search, Collections, Journals, About, Contact us, My IOPscience, Authors, Referees, Librarians.
- Search Results:** Shows the search term "Your search (5388)" and a list of sources: Full text (14920), e-prints (14920), News and analysis (238), ProQuest (400), and Physics World Archive (471). A red box highlights the "Full text" and "e-prints" tabs.
- Filter results by:** A section with various filters: PACS (04.70, 97.60.Lf, 04.70.Dy), Dates (2011, 2010, 2009), Subjects (Gravitation and cosmology, Astrophysics and astroparticles, Particle physics and field theory), Journals (The Astrophysical Journal, Classical and Quantum Gravity, The Astrophysical Journal Letters), and Authors (Luis C. Ho, Ramesh Narayan, Jeffrey E. McClintock).
- Export Results:** A section with "Export Results" and "Ordered by: Publication Date". It shows a list of search results with options to "Tag this article", "Full text PDF", and "View as HTML".

Collections – iopscience.org/collections

Click on the third tab to get to Collections, where you can get instant access to a collection of recent articles chosen for their quality.

The screenshot shows the IOPscience website interface. At the top, there are navigation links for 'Login', 'Create account', and 'Athens/Institutional login'. Below this is the 'IOPscience' logo and a search bar with 'Quick search' and 'Find article' options. The main navigation menu includes 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', 'My IOPscience', 'Authors', 'Referees', and 'Librarians'. The 'Collections' section is active, displaying 'IOPcollections' and a list of special collections: 'IOPselect', 'this month's articles', 'featured articles', and 'review articles'. A red circle highlights this list, and a red line points from the 'IOPselect' link to the list of articles below. The 'IOPselect' section is titled 'IOPselect (474)' and describes articles chosen for their novelty and potential impact. Below this, there are filters for 'Select All Journals', 'Select All Subjects', and 'All Dates', along with a 'Go' button. The 'Export results' section shows '1 of 48' results. The list of articles includes titles, authors, and publication details, with options to 'View extract', 'Tag this article', and 'Full text PDF'.

- **IOPselect** – chosen by our editors for their novelty, significance, and potential impact on future research.
- **this month's articles** – published in the last month, which are free-to-read.
- **featured articles** – recent articles of high interest.
- **review articles** – all review articles published on *IOPscience*.

Journal homepages – iopscience.org/journals

Click on the fourth tab to get to the Journals tab, where you will find a list of over 60 journals from IOP Publishing. Click on the journal title that you wish to view.

Set up an **RSS feed** or **e-mail alert** to receive the latest content.

Use the **Volume listings** if you are looking for something specific or to browse the journal archive.

Link straight to the **latest complete issue**.

Find out what authors have to say:

- “**LabTalk**”/“**Insights**” showcases groundbreaking work from the authors themselves in the form of a short news item.
- **Video abstracts** enable researchers to go beyond the constraints of the written article with this free-to-view video-sharing technology.

These services are currently available on a limited number of journals.

The screenshot shows the homepage for the Journal of Physics: Condensed Matter on the IOPscience website. The page layout includes a header with navigation links (Home, Search, Collections, Journals, About, Contact us, My IOPscience) and a search bar. The main content area is divided into several sections: a 'Volume listings' section with dropdown menus for 'Current volume' (Number 43, 2 November 2011) and 'Journal archive' (Vol 23, 2011); an 'Editorial & news' section featuring 'JPCM celebrates Impact Factor success', 'Highlights of 2010', '100 Years of Superconductivity', and 'Graphene'; and a 'LabTalk' section with three featured articles, each accompanied by a small graph or image. A sidebar on the right contains a '2010 Impact Factor' badge (2.332), 'Journal links', and a 'View by subject' section. At the bottom, there are tabs for 'Most read', 'Most cited', 'Latest articles', 'Select articles', 'Featured articles', and 'Review articles', followed by a list of recent articles.

Abstract page

While still on the Journals tab, you can select a specific article from a journal and find out more about it.

The screenshot shows the IOPscience website interface. At the top, there are navigation links for 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', and 'My IOPscience'. The main title is 'Journal of Physics: Condensed Matter'. Below this, the article title 'Density functional study of the electronic structure and lattice dynamics of SrCl₂' is displayed, along with the authors' names: V Kanchana^{1,2,6}, G Vaitheeswaran^{1,3}, P Souvatzis⁴, O Eriksson⁴, and S Lebègue⁵. There are options to 'Tag this article' and 'Full text PDF (257 KB)'. The abstract is visible under the 'Abstract' tab. On the right side, there are sections for 'Users also read', 'Related review articles', 'Share', and 'View by subject'. The 'Users also read' section lists three related articles, and the 'Related review articles' section lists three review articles. The 'Share' section includes options for 'Post to CiteULike', 'Post to Connotea', 'Post to Bibsonomy', and 'BOOKMARK'. The 'View by subject' section is currently empty.

Users also read

This feature generates a list of articles “also read” by other users who have read the current article.

More content

These tabs allow you to access more information about the article that you are viewing:

- **References** – access and view cited articles.
- **Cited by** – link to articles that reference the one you are viewing.
- **Supplementary data** – access videos, images, and other extra files associated with the article.

Related review articles

View review articles related to this research to gain an insight into the key trends in this subject area. Related review articles are selected based on PACS/MS codes, and are no more than three years old.

Bookmark

A popular way to store, classify, share, and search links through social bookmarking.

My IOPscience – iopscience.org/myiopscience

Personalize your research by creating a My IOPscience account. Log in and you will find one of these options in the top left-hand corner of *iopscience.org*.

Tagged articles

Tag articles of interest to you and these are available in two places – the tag-cloud provides a clear visual aid.

My searches

Save your searches from previous results and set up alerts to notify you of new results.

My alerts

Set up e-mail alerts to notify you when new articles are published.

Downloads

View articles that you have downloaded in the last three months.

Order history

This shows a complete list of all articles that you have purchased.

Keep track

See the last 10 articles you have viewed, at the abstract level, and the last 10 searches that you have performed.

The screenshot shows the My IOPscience dashboard. At the top, there is a navigation bar with links for 'Login', 'Create account', and 'Athens/Institutional login'. The IOPscience logo is prominently displayed. A search bar is located in the top right corner. Below the navigation bar, there are tabs for 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', 'My IOPscience', 'Authors', 'Referees', and 'Librarians'. The 'My IOPscience' section is active, showing a welcome message and a 'My IOPscience article tags' section with a 'black hole' tag. Below this, there are tabs for 'Tagged Articles', 'My Searches', 'My Alerts', 'Downloads', and 'Order History'. The 'Tagged Articles' tab is selected, showing a list of articles with a 'black hole' tag. The 'Your last 10 viewed' and 'Your last 10 searches' sections are also visible. Red lines connect the text descriptions on the left to these specific UI elements.

Introducing the quick and easy way to personalise your IOPscience. Use the settings in this section to control what you see and the way you see it.

My IOPscience article tags manage

black hole

Tagged Articles | My Searches | My Alerts | Downloads | Order History

All your tagged articles are listed below.
Click on any tag to view all the articles you have labelled with that tag, or remove any articles you no longer want to keep tagged.

A tree-decomposed transfer matrix for computing exact Potts model partition functions for arbitrary graphs, with applications to planar graph colourings Tags: black hole Clear
Date last tagged: 13/07/2011 20:55:50

Your last 10 viewed | Your last 10 searches

1. Quasipormal modes of plane-symmetric black holes according to the AdS/CFT correspondence
Alex S. Miranda et al *JHEP*11(2008)030
2. Propagation of Gaussian wave packets in left-handed media exhibits negative transmission times and optical antimatter behavior
P. Pereyra 2011 *EPL* 95 17004
3. A tree-decomposed transfer matrix for computing exact Potts model partition functions for arbitrary graphs, with applications to planar graph colourings
Andrea Bedini and Jesper Lykke Jacobsen 2010 *J. Phys. A: Math. Theor.* 43 385001

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iopscience.org/extra

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For Academia

For Librarians

"I visited the site and have downloaded 26 articles that I consider both important and significant to my interests... This was from a single visit! I look forward to visiting the site again."

Michael Zuker, Professor of Mathematical Sciences, Rensselaer Polytechnic Institute, New York, USA

What does it cover?

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- More than 500,000 preprint articles
- 14 years of ProQuest Dissertations and Theses abstracts, back to 1997
- More than 11,000 Physics World archive articles

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View by subject

All Subjects All Dates Search

IOPscience extra is our premium, electronic-only subscription package that offers you the broadest coverage of IOP Publishing's exceptional content, including:

- More than 60 prestigious journals
- The complete archive dating back more than 130 years
- More than 2,200 full-text articles added every month

IOPscience extra also provides exclusive access to:

- 14 years of ProQuest dissertations and theses along with IOP Publishing peer-reviewed journal content
- *Physics World* archive which includes more than 11,000 articles covering news, features, commentary and reviews from every issue of *Physics World* since the magazine's launch in 1998

As an example, a quick search for 'optics' found:

- More than 4,200 ProQuest dissertations and theses – exclusive to IOPscience extra customers
- More than 2,200 *Physics World* archive articles – exclusive to IOPscience extra customers
- More than 6,800 peer-reviewed journal articles
- More than 3,000 e-prints hosted by arXiv.org
- More than 42 news and analysis articles

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Cover illustration: An instantaneous snapshot of self-propelled interacting agents modeled within a circular boundary system. The ensemble of agents exhibits collective behavior that leads to vortex formation **D Grossman, I S Aranson and E Ben Jacob** 2008 *New Journal of Physics* **10** 023036.
Artistic interpretation by Frédérique Swist.

