



IOPscience

User guide

iopscience.org

IOP Publishing

Search...

Perform a quick search

This is a **fielded search** from the homepage or from the top right of every page. The default is set to search all fields, but you can narrow it down to Title/Abstract, Author, Affiliation and/or Full Text, as well as Date Range.

Make it personal

Creating an account will allow you to benefit from **personalization** options, including article tagging and saved searches in My IOPscience.

Use the search channel

This is also a **fielded search** with the default set to all fields. You can pre-filter your search by selecting **subjects**, **journals** and **date ranges**. You can also enter the specific dates you wish to search.



Pinpoint content

Find a **specific article** quickly and easily using the content finder. You can narrow right down to a specific journal title, volume and issue number.

Popular articles


The most downloaded and most cited articles are highlighted.

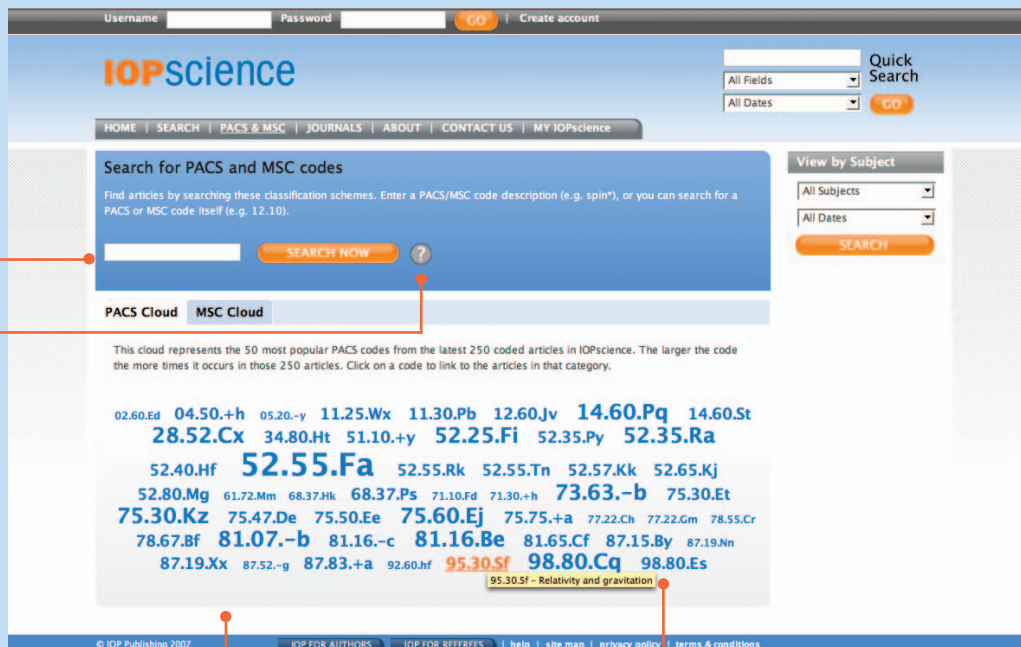
Classified information

IOPscience content has been classified by over **6,000 PACS** and **MSC codes** in physics, astronomy and math making each and every article highly discoverable. You can interact with these codes in a multitude of ways.

Use the PACS or MSC code

If you know the PACS or MSC code, you can enter it into the search box, or enter your search term to find the relevant codes.

Click on the  to find out more about PACS and MSC codes or visit www.aip.org/pacs and www.ams.org/msc



The screenshot shows the IOPscience website interface. At the top, there are fields for Username and Password, a GO button, and a Create account link. Below this is the IOPscience logo and a navigation bar with links: HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, CONTACT US, and MY IOPscience. On the right, there is a Quick Search section with dropdown menus for All Fields and All Dates, and a GO button. The main content area is titled 'Search for PACS and MSC codes' and includes a search box, a SEARCH NOW button, and a help icon. Below the search box are tabs for PACS Cloud and MSC Cloud. The PACS Cloud section displays a grid of PACS codes, with the size of the font indicating its popularity. The code 52.55.Fa is the largest. A tooltip is shown over the code 95.30.Sf, displaying its full description: '95.30.Sf - Relativity and gravitation'. At the bottom, there is a footer with copyright information and links for IOP FOR AUTHORS, IOP FOR REFEREES, help, site map, privacy policy, and terms & conditions.

Tag clouds

You can also use the PACS and MSC clouds to discover relevant content. These clouds visually represent the 50 most popular codes from the latest 250 articles in IOPscience. The larger the font, the more times that code appears in the last 250 articles.

Mouse over a code to see its full description.

Explore...

IOP journal titles also have their own homepages within IOPscience.

Journal search

Run a quick fielded search which is defaulted to search specifically within this journal.

Accessing journal content

- Set up an RSS feed or e-mail alert to receive the latest content.
- Link straight to the latest complete issue...
- Use the volume listings if you are looking for something specific...
- See the very latest articles to be published in the journal...
- Link straight to the most downloaded and most cited articles...

The screenshot shows the IOPscience website interface for the Nanotechnology journal. At the top, there is a navigation bar with links: HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, CONTACT US, and MY IOPscience. A search bar is located on the right with a 'Quick Search' button. Below the navigation bar, the journal title 'Nanotechnology' is prominently displayed. A large blue box contains the journal's description and highlights. To the right of this box, there is a '3.037 2006 Impact Factor' badge. Below the journal title, there are links for 'Latest issue (Complete)', 'Open Issue', and 'Open Issue'. The 'Editorial & News' section on the left contains 'Nanotechnology Journal Highlights' and 'Nanotechnology Special Issue: Design and function of molecular and bioelectronics devices'. The 'Volume Listings' section on the right shows the 'Current volume' and 'Journal archive'. The 'Latest Articles' section at the bottom lists recent publications. On the far right, there are sections for 'Journal Links', 'View by Subject', 'Popular Articles', and 'Journal History'. Red lines connect the text on the left to specific features on the page: 'Journal search' points to the search bar; 'Accessing journal content' points to the 'Set up an RSS feed or e-mail alert' link, the 'Latest issue (Complete)' link, the 'Volume Listings' section, the 'Nanotechnology Special Issue' section, and the 'Most downloaded and most cited articles' link.

Username Password Create account

IOPscience

HOME | SEARCH | PACS & MSC | JOURNALS | ABOUT | CONTACT US | MY IOPscience

Nanotechnology

Nanotechnology is essential reading for anyone who is interested in the latest advances in nanoscale science and technology. It encompasses the understanding of the fundamental physics, chemistry, biology and technology of nanometre-scale objects and how such objects can be used in the areas of computation, sensors, nanostructured materials and nano-biotechnology.

Nanotechnology journal highlights: find out what the authors have to say

ISSN 0957-4484 (Print)
ISSN 1361-6528 (Online)

▶ Latest issue (Complete) Number 8, 27 February 2008, (085201-085716)
▶ Open Issue Number 10, 12 March 2008, (105101-105602)
▶ Open Issue Number 9, 05 February 2008, (099801)

Editorial & News

Nanotechnology Journal Highlights

Read what authors have to say about their own research in Lab Talk. Click on the link on the right to go to the nanotechweb.org homepage and click on the journal cover.

Nanotechnology Special Issue: Design and function of molecular and bioelectronics devices

Issue 42 of *Nanotechnology* is devoted to a better understanding of the function and design of molecular-scale devices that are relevant to future electronics and sensor technology.
[Read more](#)

Volume Listings

Current volume
Number 10, 12 March 2008

Journal archive
Vol 19, 2008

▶ Forthcoming Articles
An advance list of articles that have been accepted for publication.

Latest Articles

- ☐ Preparations of bifunctional polymeric beads simultaneously incorporated with fluorescent quantum dots and magnetic nanocrystals
Chifeng Tu *et al* 2008 ▶ *Nanotechnology* 19 105601
- ☐ An approach to fabricating chemical sensors based on ZnO nanorod arrays
Jae Young Park *et al* 2008 ▶ *Nanotechnology* 19 105503
- ☐ Solvent-mediated repair and patterning of surfaces by AFM

Quick Search

All Fields
All Dates
☐ All journals ☒ This journal only

3.037
2006 Impact Factor

Journal Links

- ▶ Journal home
- ▶ Scope
- ▶ Editorial board
- ▶ Submission information
- ▶ Author benefits
- ▶ Abstracted in
- ▶ Cover Gallery
- ▶ Publishing team
- ▶ nanotechweb.org

View by Subject

All Subjects
All Dates

Popular Articles

- ☒ Most Downloaded
- ☒ Most Cited

Journal History


1990-present
Nanotechnology

Filter...

IOPscience's sophisticated filtering system will help you to drill further into your search results.

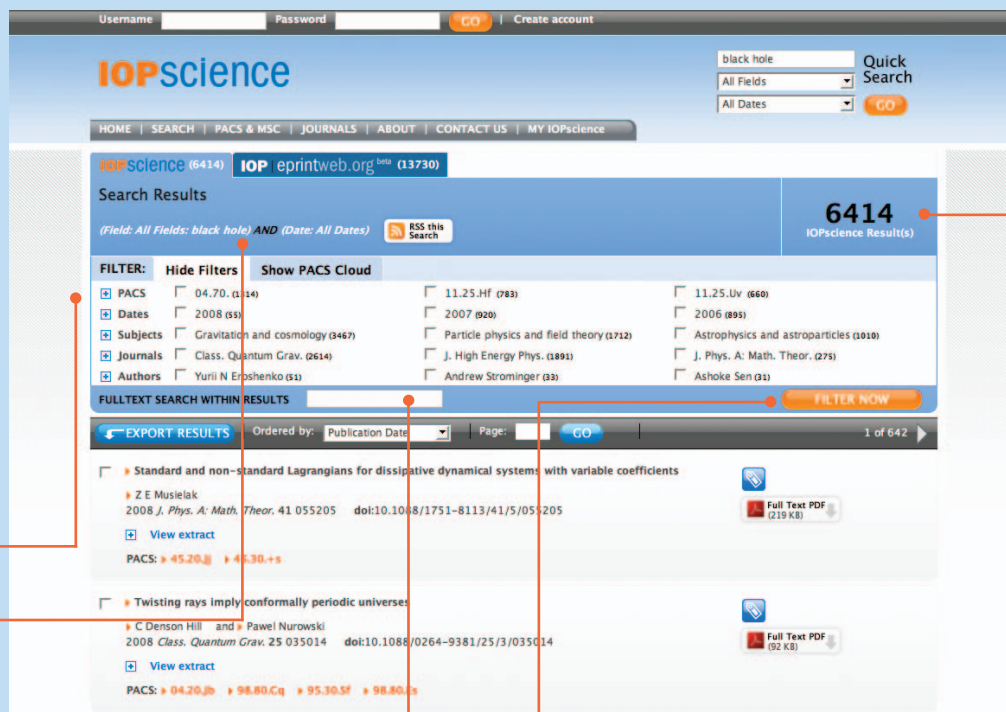
You can filter by the following categories:

- PACS
- Dates
- Subjects
- Journals
- Authors


Use the blue  buttons to expand each filter category, and then check the relevant filter options.

You can keep track of your search path in the top of the filter panel.

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




The screenshot shows the IOPscience search results interface. At the top, there are fields for Username and Password, a GO button, and a Create account link. The IOPscience logo is prominently displayed. Below the logo, there are navigation links: HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, CONTACT US, and MY IOPscience. A search bar on the right contains the text 'black hole' and has dropdown menus for 'All Fields' and 'All Dates', with a Quick Search GO button. The main search results section shows 'Search Results' for the query 'black hole' (13730). It indicates that 6414 results were found. A filter panel on the left allows users to expand and select filters for PACS, Dates, Subjects, Journals, and Authors. The filter panel also includes a 'FULLTEXT SEARCH WITHIN RESULTS' field and a 'FILTER NOW' button. The results list shows two entries: 'Standard and non-standard Lagrangians for dissipative dynamical systems with variable coefficients' and 'Twisting rays imply conformally periodic universes'. Each entry includes a 'View extract' button and a 'Full Text PDF' button. The page number '1 of 642' is shown at the bottom right.

When you hit , the results list will update to correspond with your chosen filters.

The useful **results counter** immediately tells you how many results you've returned. With each filter that you apply, your count will be adjusted, so you will always know how many articles will match your query.

Discover...

RSS feeds

Click on the  button to set up a feed for any search, so that new content matching your specific search criteria will be fed straight to your desktop.

Export your results

You can export your results into your preferred format.

Link to other papers by the same authors.

Article tagging

Tag any article in IOPscience with your own descriptions.

Enhanced PDFs

PDF coversheets are interactive. With one click you can link to articles which relate to the one previously downloaded.



The screenshot displays the IOPscience website interface. At the top, there is a navigation bar with links for HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, CONTACT US, and MY IOPscience. A search bar is located on the right, with a 'Quick Search' button. Below the navigation bar, the search results are displayed. The search criteria are 'black hole' and 'All Fields'. The results are filtered by 'PACS' and 'Dates'. The search results are listed in a table with columns for PACS, Dates, Subjects, Journals, and Authors. The first result is 'Standard and non-standard Lagrangians for dissipative dynamical systems with variable coefficients' by Z E Musielak, published in 2008. The second result is 'Twisting rays imply conformally periodic universes' by C Denson Hill and P Pawel Nirowski, published in 2008. The search results are sorted by 'Publication Date' and are on page 1 of 642. The 'EXPORT RESULTS' button is visible at the bottom of the search results section.

E-print results

See e-print results from **eprintweb.org** when you run a key word search. E-prints show non-peer-reviewed results from **eprintweb.org** (based on Cornell University's arXiv.org).

Social bookmarking

A popular way to store, classify, share and search links, these facilities are available from the abstract page of every article.

Find related articles

By clicking on [RELATED ARTICLES](#), you will find more articles similar to the one you are currently viewing. You can also click on the PACS, MSC and subject links to find other articles classified in the same way.

Linked references and citations

These allow you to explore backward and forward links between papers. References are also linked within the full text PDFs, allowing you to read cited articles while studying a paper.

Keep track

See the last 10 articles you viewed, at the abstract level, and the last 10 searches you made. You can also save your searches.

The screenshot shows the IOPscience website interface. At the top, there is a search bar with 'All Fields' and 'All Dates' dropdowns, and a 'Quick Search' button. Below the search bar is a navigation menu with links: HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, CONTACT US, and MY IOPscience. The main content area displays the article title 'Ponzano-Regge model revisited: III. Feynman diagrams and effective field theory' by Laurent Freidel^{1,2} and Etera R Livine³. The affiliations are listed: Perimeter Institute for Theoretical Physics, 35 King Street North, Waterloo, ON N2J 2W9, Canada; Laboratoire de Physique, Ecole Normale Supérieure de Lyon, 46 allée d'Italie, 69364 Lyon Cedex 07, France. The email addresses are freidel@perimeterinstitute.ca and elivine@perimeterinstitute.ca. The journal is 'Classical and Quantum Gravity', Volume 23, Number 6, 2006. The citation is '2006 Class. Quantum Grav. 23 0612' with a DOI of 10.1088/0264-9381/23/6/012. The article is available as a full text PDF. The page also features a 'RELATED ARTICLES' section with links to 'PACS', 'MSC', and 'Subjects'. The 'PACS' section lists '04.60.Pp Loop quantum gravity, quantum geometry, spin foams', '15.10.Pn Noncommutative field theory', '02.40.Gx Noncommutative geometry', and '04.62.+v Quantum fields in curved spacetime'. The 'MSC' section lists '83T75 Noncommutative geometry methods (See also 46L85, 46L87, 58B34)', '83C55 General relativity', '81T28 Feynman diagrams', and '81T45 Topological field theories (See also 57R56, 58Dxx)'. The 'Subjects' section lists 'Gravitation and cosmology'. The 'Dates' section shows 'Issue 6 (21 March 2006)' and 'Received 11 November 2005 Published 6 March 2006'. At the bottom, there are links for 'Last 10 viewed articles' and 'Last 10 searches'.

Personalize...

Create an account to benefit from personalization options, and make use of My IOPscience:

- See the latest articles in your field on the homepage.
- Tag articles with your own descriptions. Your tagged articles appear in a cloud on the IOPscience homepage, and on My IOPscience.
- Save your searches and retrieve new results on your next visit.
- Set up e-mail alerts and manage them in My IOPscience.



What's next?

IOPscience is available through an electronic-only license, making it accessible to every researcher at your institution.

Visit iopscience.org for more information.

Take a Tour of the highlights at iopscience.org.

Contact us at the address below or get in touch with your Regional Representative.

Go to iopscience.org and click on 'contact us' for details of your local representative.

Request a free institutional trial at trial@iopscience.org.

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