

**IOP**science

# User guide

[iopscience.org](http://iopscience.org)

**IOP** Publishing

# Search...

## Perform a quick search

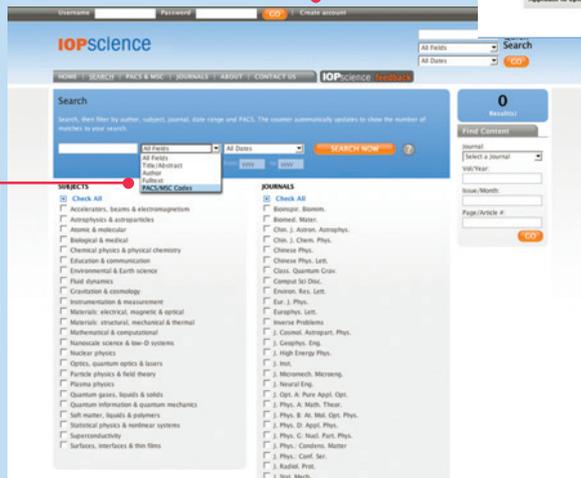
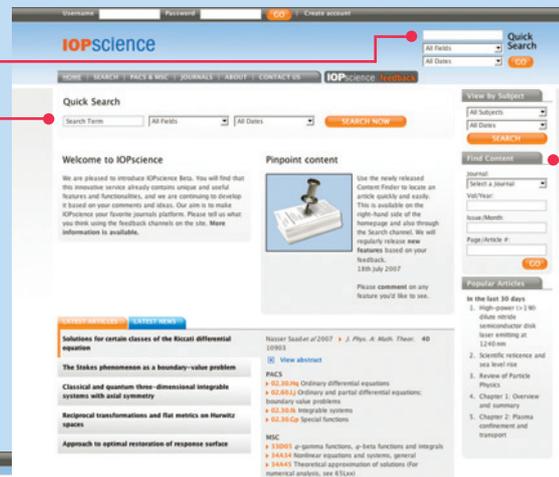
This is a **fielded search** from the homepage or from the top right of every page in IOPscience. The default is set to search all fields, but you can narrow it down to Title/Abstract, Author and/or Full Text, as well as Date Range.

## Make it personal

Creating an account will allow you to benefit from **personalization** options. By telling us your subject interests, we will be able to provide you with a tailored homepage, showing you the latest articles that have been published in your area.

## Use the search channel

This is also a **fielded search** with the default set to all fields. This feature allows you to narrow your search down further by selecting **subjects** and/or **journals**. 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.

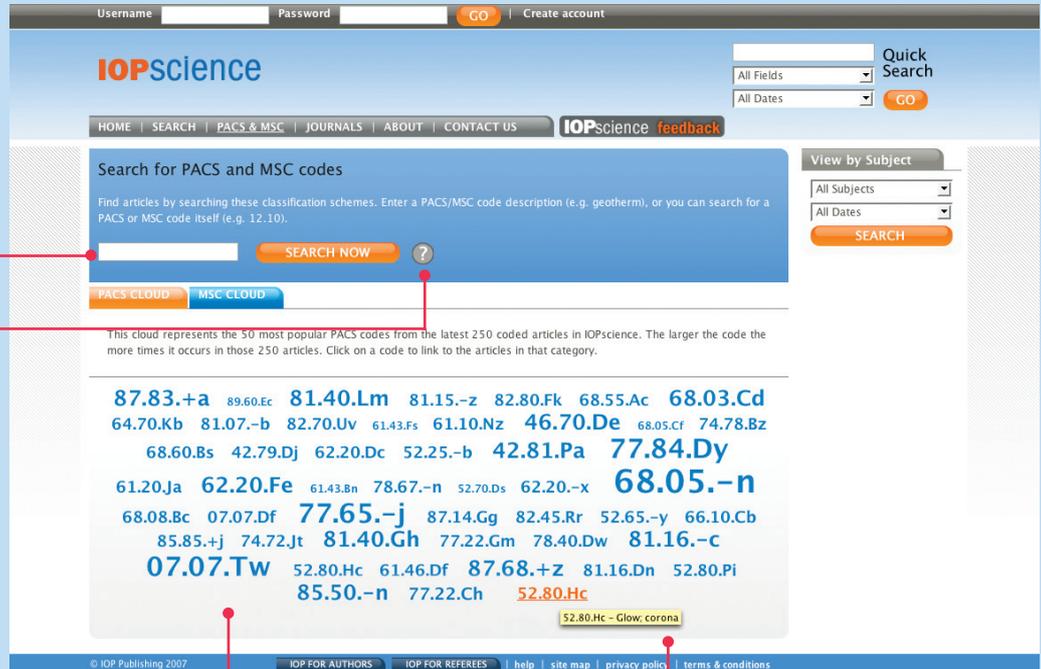
## Classified information

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](http://www.aip.org/pacs) and [www.ams.org/msc](http://www.ams.org/msc)



Username  Password   | [Create account](#)

**IOPscience**

HOME | SEARCH | PACS & MSC | JOURNALS | ABOUT | CONTACT US | IOPscience [feedback](#)

Search for PACS and MSC codes

Find articles by searching these classification schemes. Enter a PACS/MS code description (e.g. geotherm), or you can search for a PACS or MSC code itself (e.g. 12.10).



This cloud represents the 50 most popular PACS codes from the latest 250 coded articles in IOPscience. The larger the code the more times it occurs in those 250 articles. Click on a code to link to the articles in that category.

87.83.+a <sup>89.60.Ec</sup> 81.40.Lm 81.15.-z 82.80.Fk 68.55.Ac 68.03.Cd  
64.70.Kb 81.07.-b 82.70.Uv <sup>61.43.Fs</sup> 61.10.Nz 46.70.De <sup>68.05.Cf</sup> 74.78.Bz  
68.60.Bs 42.79.Dj 62.20.Dc 52.25.-b 42.81.Pa 77.84.Dy  
61.20.Ja 62.20.Fe <sup>61.43.Bn</sup> 78.67.-n <sup>52.70.Ds</sup> 62.20.-x 68.05.-n  
68.08.Bc 07.07.Df 77.65.-j 87.14.Gg 82.45.Rr 52.65.-y 66.10.Cb  
85.85.+j 74.72.Jt 81.40.Gh 77.22.Gm 78.40.Dw 81.16.-c  
07.07.Tw 52.80.Hc 61.46.Df 87.68.+z 81.16.Dn 52.80.Pi  
85.50.-n 77.22.Ch 52.80.Hc

52.80.Hc - Glow; corona

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## 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. From each homepage there are multiple options for getting into the journal's content.

## Journal search

You can run a quick fielded search which is defaulted to search specifically within this journal.

## Accessing journal content

Link straight to the latest complete issue...

use the volume listings if you are looking for something specific...

or see the very latest articles to be published in the journal.

The screenshot shows the IOPscience website interface for the journal 'Nanotechnology'. At the top, there are fields for 'Username' and 'Password' with a 'GO' button and a 'Create account' link. The IOPscience logo is prominently displayed. A navigation bar includes 'HOME', 'SEARCH', 'PACS & MSC', 'JOURNALS', 'ABOUT', and 'CONTACT US'. A search box on the right allows for 'Quick Search' with dropdowns for 'All Fields' and 'All Dates', and a 'GO' button. Below the navigation, the journal title 'Nanotechnology' is shown with a cover image. A '2006 Impact Factor' of 3.037 is highlighted. The 'Editorial & News' section contains 'Subject sections' and 'Latest Articles'. The 'Volume Listings' section shows 'Current volume' and 'Journal archive' with 'GO' buttons. The 'Popular Articles' section lists recent research findings. Red arrows from the text on the left point to these specific features on the page.

Username  Password  **GO** Create account

**IOPscience**

HOME | SEARCH | PACS & MSC | JOURNALS | ABOUT | CONTACT US **IOPscience** feedback  All journals  This journal only

**NANOTECHNOLOGY** **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.

ISSN 0957-4484 (Print) **Latest Issue (Complete)** Number 36, 12 September 2007, (365101-365709)  
ISSN 1361-6528 (Online)

**3.037**  
2006 Impact Factor

**Journal Links**

- Journal home
- Editorial information
- Scope
- Editorial board
- Author Benefits
- Submission addresses
- Abstracted in
- nano@iop.org
- Submit an article

**View by Subject**

All Subjects

All Dates

**SEARCH**

**Popular Articles**

**Journal: Nanotechnology in the last 30 days**

1. Focused ion beam milling of nanocavities in single colloidal particles and self-assembled opals
2. Low temperature growth of single-crystal ZnO nanorods
3. Tailored TiO<sub>2</sub> (110) surfaces and their reactivity
4. Preparation and antibacterial activity of Fe<sub>3</sub>O<sub>4</sub>@Ag nanoparticles
5. Electroluminescence

**Editorial & News**

**Subject sections**

Since 2007, the editorial board has been delighted to invite submissions in the following areas:

- Biology and medicine
- Electronics and photonics
- Patterning and nanofabrication
- Quantum phenomena
- Sensing and actuating
- Materials: synthesis or self-assembly
- Materials: properties, characterization, modelling or tools

Where structure, properties or observation on the nanometer scale are critical.

**Volume Listings**

**Current volume**

Number 36, 12 September 2007 **GO**

**Journal archive**

Vol 18, 2007 **GO**

**Forthcoming Articles**

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

**Latest Articles**

**Spray deposition of electrospun TiO<sub>2</sub> nanorods for dye-sensitized solar cell**

K Fujihara *et al* / 2007 **Nanotechnology** 18 365709

[View abstract](#)

**PACS**

- ▶ **81.16.-c** Methods of nanofabrication and processing
- ▶ **84.60.Jt** Photoelectric conversion: solar cells and arrays
- ▶ **81.05.Hd** Other semiconductors
- ▶ **81.07.-b** Nanoscale materials and structures: fabrication and characterization

**SUBJECTS**

**Controlled damaging and repair of self-organized nanostructures by atom manipulation at room temperature**

**Greater osteoblast functions on multiwalled carbon nanotubes grown from anodized nanotubular titanium for orthopedic applications**

# 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 is a navigation bar with links for HOME, SEARCH, PACS & MSC, JOURNALS, ABOUT, and CONTACT US, along with a feedback link. A search bar is located in the top right corner, with a 'Quick Search' button and dropdown menus for 'All Fields' and 'All Dates'. The main content area is titled 'Search Results' and shows a results counter of 5730. A filter panel on the left side contains expandable categories: PACS, Dates, Subjects, Journals, and Authors. Each category has a blue plus button to expand it. The filter panel also includes buttons for 'HIDE FILTERS' and 'SHOW PACS CLOUD'. The search results are displayed in a grid format, with each entry showing a title, authors, and a 'Download Full Text' button. A 'FULLTEXT SEARCH WITHIN RESULTS' field is located below the results grid. At the bottom of the page, there is an 'EXPORT RESULTS' section with a 'GO' button and a page indicator '1 of 573'.

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.



## 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.

## Search History

See the last 10 articles you viewed, at the abstract level.

The screenshot displays the IOPscience website interface. At the top, there is a search bar with fields for 'Username' and 'Password', a 'GO' button, and a 'Create account' link. The main navigation bar includes 'HOME', 'SEARCH', 'PACS & MSC', 'JOURNALS', 'ABOUT', 'CONTACT US', and 'IOPscience feedback'. A 'Quick Search' sidebar on the right offers dropdown menus for 'All Fields' and 'All Dates', a 'GO' button, and radio buttons for 'All Journals' and 'This journal only'. Below the navigation, the article title is 'Ponzano-Regge model revisited: I. Gauge fixing, observables and interacting spinning particles'. The author is 'Laurent Freidel<sup>1,2</sup>, David Louapre<sup>2</sup>'. Affiliations include 'Perimeter Institute for Theoretical Physics, 35 King street North, Waterloo N2J 2G9, Ontario, Canada' and 'Laboratoire de Physique, UMR 5672 du CNRS, Ecole Normale Supérieure de Lyon, 46 allée d'Italie, 69364 Lyon Cedex 07, France'. The article is from 'Classical and Quantum Gravity', Volume 21, Number 24, published in 2004. A 'Download Full Text' button (494 KB) is available. The abstract text reads: 'We show how to properly gauge fix all the symmetries of the Ponzano-Regge model for 3D quantum gravity. This amounts to doing explicit finite computations for transition amplitudes.' The PACS classification is '04.60.Pp Loop quantum gravity, quantum geometry, spin foams' and '11.15.-q Gauge field theories'. The MSC classification is '81T13 Yang-Mills and other gauge theories' and '17B37 Quantum groups'. The subjects are 'Gravitation & cosmology'. The dates section indicates the issue was published on 21 December 2004, received on 22 January 2004, and published in final form on 10 September 2004. A 'Back to search results' link is provided. At the bottom, a 'Last 10 Articles' section lists the current article and another article: 'Exact Bianchi identity in Regge gravity' by Herbert W Hamber and Geoff Kugel. The footer contains '© IOP Publishing 2007', 'IOP FOR AUTHORS', 'IOP FOR REFEREES', and links for 'help', 'site map', 'privacy policy', and 'terms & conditions'.

## What's next?

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Request a free institutional trial at [trial@iopscience.org](mailto:trial@iopscience.org).

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