



IOPscience

User guide

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IOPscience

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Quick Search All Fields All Dates Search now

My IOPscience article tags manage

wind plasma photon transition solar
 nano colloid rays high-energy diodes
 gamma quark-gluon metal
 carbon laser spinors catalyts black
 energy hole quantum laser plasma

Take a closer look

Our online tour is designed to show you the many benefits of using IOPscience.

Find out more about the latest developments.

IOPscience now offers a quick and easy way to search IOPscience content from your own website. For more details, visit our searchbox page.

View by Subject

All Subjects All Dates Search

Find Content

Select a Journal Vol/Year Issue/Month Page/Article # Go

Latest Articles Most read Most cited Latest news

Shell-model calculations in ^{132}Sn and ^{130}Pb regions with low-momentum interactions
 A Gargano et al 2009 *J. Phys.: Conf. Ser.* **168** 012013 Tag this article

Nuclear matter and nuclear dynamics
 M Colonna 2009 *J. Phys.: Conf. Ser.* **168** 012006 Tag this article

Effective nucleon-nucleon interaction and low-lying nuclear magnetic states
 C Maleron et al 2009 *J. Phys.: Conf. Ser.* **168** 012018 Tag this article

Light-front projections of the Bethe-Salpeter amplitude and the 4D electromagnetic current for an interacting two-fermion system
 T Frederico et al 2009 *J. Phys.: Conf. Ser.* **168** 012002 Tag this article

Spatial dependence of the pairing field calculated with bare and induced interactions
 A Pastore et al 2009 *J. Phys.: Conf. Ser.* **168** 012015 Tag this article

Your last 10 viewed Your last 10 searches

1. The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells
 Angeles Villanueva et al 2009 *Nanotechnology* **20** 115103

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.

Find content

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

Popular articles

This highlights the most cited articles in the last two years as well as the most read articles downloaded in the last 30 days.

Article tags

Navigate to your tagged research articles directly from the homepage.

Search field

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

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.

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

The screenshot displays the IOPscience search interface. At the top, there is a navigation bar with links for 'Welcome iopsciencetrial', 'Edit account', 'Logout', and 'Athens/Institutional login'. The IOPscience logo is prominently displayed. Below the logo, there are navigation tabs for 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', and 'My IOPscience'. On the right side of the navigation bar, there are dropdown menus for 'All Fields' and 'All Dates', and a 'Quick Search' button.

The main search area features a search box with a 'Search now' button. Below the search box, there are filters for 'All Fields' and 'All Dates', and a date range selector with 'From: yyyy' and 'To: yyyy' fields. A 'Quick help' link is also present.

On the left side, there is a 'Subjects' section with a 'Check All' button and a list of subjects, each with a checkbox. The subjects listed include: Accelerators, beams and electromagnetism; Astrophysics and astroparticles; Atomic and molecular physics; Biological physics; Chemical physics and physical chemistry; Computational physics; Condensed matter: electrical, magnetic and optical; Condensed matter: structural, mechanical & thermal; Education and communication; Electronics and devices; Environmental and Earth science; Fluid dynamics; Gravitation and cosmology; Instrumentation and measurement; Mathematical physics; Medical physics; Nanoscale science and low-D systems; Nuclear physics; Optics, quantum optics and lasers; Particle physics and field theory.

On the right side, there is a 'Journals' section with a 'Check All' button and a list of journals, each with a checkbox. The journals listed include: Biofabrication; Bioinspiration & Biomimetics; Biomedical Materials; Chinese Journal of Chemical Physics; Chinese Physics B; Chinese Physics C; Chinese Physics Letters; Classical and Quantum Gravity; Communications in Theoretical Physics; Computational Science & Discovery; EPL (Europhysics Letters); Environmental Research Letters; European Journal of Physics; Fluid Dynamics Research; IOP Conference Series: Earth and Environmental Science; IOP Conference Series: Materials Science and Engineering; Inverse Problems; Izvestiya. Mathematics; Journal of Breath Research; Journal of Cosmology and Astroparticle Physics.

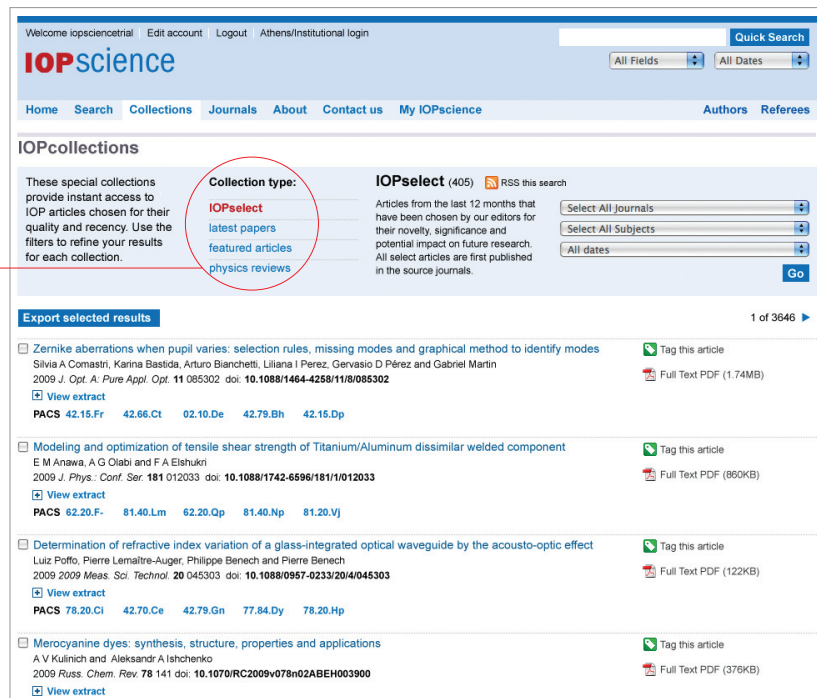
At the top right of the search area, there is a red box indicating '123456 IOPscience results'. Below this, there is a 'Find Content' section with a 'Select a Journal' dropdown menu, 'Vol/Year:' and 'Issue/Month:' input fields, and a 'Page/Article #' input field. A 'Go' button is located below these fields.

At the bottom right, there is a 'PACS/MSC Search' section with a 'Search now' button. The text below the button reads: 'Enter a PACS/MSC code description (e.g. spin*), or you can search for a PACS or MSC code itself (e.g. 12.10).'

IOPcollections

Instant access to a collection of recent articles chosen for their quality:

- **IOPselect**
chosen by our editors for their novelty, significance and potential impact on future research;
- **latest papers**
published in the last month;
- **featured articles**
recent articles of high interest;
- **physics reviews**
bringing together all review articles.



Welcome iopsciencetrial | Edit account | Logout | Athens/Institutional login

IOPscience | Quick Search | All Fields | All Dates

Home | Search | Collections | Journals | About | Contact us | My IOPscience | Authors | Referees

IOPcollections

These special collections provide instant access to IOP articles chosen for their quality and recency. Use the filters to refine your results for each collection.

Collection type:

- IOPselect**
- latest papers
- featured articles
- physics reviews

IOPselect (405) | RSS this search

Articles from the last 12 months that have been chosen by our editors for their novelty, significance and potential impact on future research. All select articles are first published in the source journals.

Select All Journals | Select All Subjects | All dates | Go

Export selected results | 1 of 3646

- Zernike aberrations when pupil varies: selection rules, missing modes and graphical method to identify modes**
Sivia A Comastri, Karina Bastida, Arturo Bianchetti, Liliana I Perez, Gervasio D Pérez and Gabriel Martin
2009 *J. Opt. A: Pure Appl. Opt.* **11** 085302 doi: [10.1088/1464-4258/11/8/085302](https://doi.org/10.1088/1464-4258/11/8/085302)
[View extract](#)
PACS [42.15.Fr](#) [42.66.Ct](#) [02.10.De](#) [42.79.Bh](#) [42.15.Dp](#)
[Tag this article](#)
[Full Text PDF \(1.74MB\)](#)
- Modeling and optimization of tensile shear strength of Titanium/Aluminum dissimilar welded component**
E M Anawa, A G Otabi and F A Elshukri
2009 *J. Phys.: Conf. Ser.* **181** 012033 doi: [10.1088/1742-6596/181/1/012033](https://doi.org/10.1088/1742-6596/181/1/012033)
[View extract](#)
PACS [62.20.F-](#) [81.40.Lm](#) [62.20.Qp](#) [81.40.Np](#) [81.20.Vj](#)
[Tag this article](#)
[Full Text PDF \(860KB\)](#)
- Determination of refractive index variation of a glass-integrated optical waveguide by the acousto-optic effect**
Luiz Roffo, Pierre Lamalire-Auger, Philippe Binech and Pierre Binech
2009 *2009 Meas. Sci. Technol.* **20** 045303 doi: [10.1088/0957-0233/20/4/045303](https://doi.org/10.1088/0957-0233/20/4/045303)
[View extract](#)
PACS [78.20.Ci](#) [42.70.Ce](#) [42.79.Gn](#) [77.84.Dy](#) [78.20.Hp](#)
[Tag this article](#)
[Full Text PDF \(122KB\)](#)
- Merocyanine dyes: synthesis, structure, properties and applications**
A V Kulichin and Aleksandr A Ishchenko
2009 *Russ. Chem. Rev.* **78** 141 doi: [10.1070/RC2009v078n02ABEH003900](https://doi.org/10.1070/RC2009v078n02ABEH003900)
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Search results

The useful results counter immediately tells you how many results you have returned. You can keep track of your search path in the top of the filter panel.

Filter results

You can drill down further by expanding 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.

Welcome iopsciencetrial | Edit account | Logout | Athens/Institutional login

IOPscience | All Fields | All Dates | Quick Search

Home | Search | Collections | Journals | About | Contact us | My IOPscience | Authors | Referees

Search results

IOPscience (36453) | **e-prints** (2768) | **News and analysis** (443)

(Field: All Fields: **quantum optics**) AND (Date: All Dates)

RSS this search | Save this search | Add to my alerts | **36453** IOPscience results

Filter results by:

- PACS
 - 42.60.Jf (4254) | 42.55.Lt (2693) | 42.79.Bh (2621)
- Dates
 - 2009 (4) | 2008 (17) | 2007 (9)
- Subjects
 - Optics, quantum optics and lasers (145) | Instrumentation and measurement (76) | Education and communication (29)
- Journals
 - Meas. Sci. Technol. (61) | Sov. J. Quantum Electron. (29) | Quantum Electron. (18)
- Authors
 - M F Bukhenskii (6) | D A Jackson (6) | J D C Jones (8)

Fulltext search within results: **Filter now**

Export selected results | Order by: Publication Date | Page: **Go** | 1 of 3646 ▶

- Zernike aberrations when pupil varies: selection rules, missing modes and graphical method to identify modes
Silvia A Comastri, Karina Bastida, Arturo Bianchetti, Liliana I Perez, Gervasio D Pérez and Gabriel Martin
2009 *J. Opt. A: Pure Appl. Opt.* **11** 085302 doi: [10.1088/1464-4258/11/8/085302](https://doi.org/10.1088/1464-4258/11/8/085302)
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PACS [42.15.Fr](#) [42.66.Ct](#) [02.10.De](#) [42.79.Bh](#) [42.15.Dp](#)
[Tag this article](#)
[Full Text PDF \(1.74MB\)](#)
- Modeling and optimization of tensile shear strength of Titanium/Aluminum dissimilar welded component
E M Anawa, A G Olabi and F A Elshukri
2009 *J. Phys.: Conf. Ser.* **181** 012033 doi: [10.1088/1742-6596/181/1/012033](https://doi.org/10.1088/1742-6596/181/1/012033)
[View extract](#)
PACS [62.20.F-](#) [81.40.Lm](#) [62.20.Qp](#) [81.40.Np](#) [81.20.Vj](#)
[Tag this article](#)
[Full Text PDF \(860KB\)](#)

Manage your search results

- **Save your search results**

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

- **Authors**

Click on an author's name to link to other papers by that author.

- **Export selected results**

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

- **Tag this article**

Tag any article with your own description for future reference.

- **Full-Text PDF**

All articles have an interactive cover sheet enabling you to link to other related articles.

The screenshot shows the IOPscience search results interface. At the top, there are navigation links for 'Welcome iopsciencetrial', 'Edit account', 'Logout', and 'Athens/Institutional login'. The IOPscience logo is prominently displayed. Below the logo, there are search filters for 'All Fields' and 'All Dates', and a 'Quick Search' button. The main navigation bar includes 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', 'My IOPscience', 'Authors', and 'Referees'. The search results section is titled 'Search results' and shows the current search criteria: 'IOPscience (36453) e-prints (2768) News and analysis (443)'. A search filter is applied: '(Field: All Fields: quantum optics) AND (Date: All Dates)'. The total number of results is 36453. There are three action buttons: 'RSS this search', 'Save this search', and 'Add to my alerts'. Below this, there is a 'Filter results by:' section with various filters: PACS (42.60.Jf, 42.55.Lt, 42.79.Bh), Dates (2009, 2008, 2007), Subjects (Optics, quantum optics and lasers, Instrumentation and measurement, Education and communication), Journals (Meas. Sci. Technol., Sov. J. Quantum Electron., Quantum Electron.), and Authors (M F Bukhenskii, D A Jackson, J D C Jones). A 'Fulltext search within results:' field is present. At the bottom, there is an 'Export selected results' button, an 'Order by:' dropdown menu set to 'Publication Date', a 'Page:' field, a 'Go' button, and a page indicator '1 of 3646'. Two article entries are visible, each with a 'Tag this article' button and a 'Full Text PDF' link.

One search – three sets of results

A simple search will return three sets of results, to expand your research scope even further:

- **IOPscience**

Regular peer-reviewed content from IOPscience.

- **e-prints**

Provided from **eprintweb.org** (a free e-print service based on Cornell University's **arXiv.org**).

- **News and analysis**

Available from our community websites.

The screenshot shows the IOPscience search results page for the query 'quantum optics'. The page is divided into three main sections: IOPscience (36453), e-prints (2768), and News and analysis (443). The search results are filtered by 'quantum optics' and 'All Dates'. The 'Filter results by:' section includes filters for PACS (42.60.Jf, 42.55.Lt, 42.79.Bh), Dates (2009, 2008, 2007), Subjects (Optics, quantum optics and lasers, Instrumentation and measurement, Education and communication), Journals (Meas. Sci. Technol., Sov. J. Quantum Electron., Quantum Electron.), and Authors (M F Bukhskil, D A Jackson, J D C Jones). The 'Fulltext search within results:' field is empty. The 'Export selected results' button is visible, along with the 'Order by:' dropdown set to 'Publication Date'. The page number is 1 of 3646. The first two search results are listed with their titles, authors, and publication details, along with options to tag the article and download the full text PDF.

Welcome iopsciencetrial Edit account Logout Athens/Institutional login **Quick Search**

IOPscience All Fields All Dates

Home Search Collections Journals About Contact us My IOPscience Authors Referees

Search results

IOPscience (36453) **e-prints** (2768) **News and analysis** (443)

(Field: All Fields: **quantum optics**) AND (Date: All Dates)

RSS this search **36453** IOPscience results
Save this search
Add to my alerts

Filter results by:

PACS 42.60.Jf (4256) 42.55.Lt (2693) 42.79.Bh (2621)

Dates 2009 (4) 2008 (17) 2007 (9)

Subjects Optics, quantum optics and lasers (145) Instrumentation and measurement (76) Education and communication (29)

Journals Meas. Sci. Technol. (61) Sov. J. Quantum Electron. (29) Quantum Electron. (18)

Authors M F Bukhskil (6) D A Jackson (6) J D C Jones (6)

Fulltext search within results: **Filter now**

Export selected results Order by: Publication Date Page: **Go** 1 of 3646 ▶

Zernike aberrations when pupil varies: selection rules, missing modes and graphical method to identify modes
Silvia A Comastri, Karina Bastida, Arturo Bianchetti, Liliana I Perez, Gervasio D Pérez and Gabriel Martin
2009 *J. Opt. A: Pure Appl. Opt.* **11** 085302 doi: [10.1088/1464-4258/11/8/085302](https://doi.org/10.1088/1464-4258/11/8/085302)
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PACS 42.15.Fr 42.66.Ct 02.10.De 42.79.Bh 42.15.Dp

Modeling and optimization of tensile shear strength of Titanium/Aluminum dissimilar welded component
E M Anawa, A G Olabi and F A Elshukri
2009 *J. Phys.: Conf. Ser.* **181** 012033 doi: [10.1088/1742-6596/181/1/012033](https://doi.org/10.1088/1742-6596/181/1/012033)
[View extract](#) Tag this article
[Full Text PDF](#) (850KB)

PACS 62.20.F- 81.40.Lm 62.20.Qp 81.40.Np 81.20.Vj

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.

View the Latest articles published in the journal.

Find out which articles have been most read.

Look at which articles have been most cited.

The screenshot shows the IOPscience website for the Journal of Physics D: Applied Physics. Red lines connect the text instructions on the left to specific features on the website:

- The instruction "Set up an RSS feed or e-mail alert to receive the latest content." points to the "Create an Alert" and "RSS this Journal" links in the top right.
- The instruction "Link straight to the latest complete issue." points to the "Latest Issue (Complete)" link in the "Volume Listings" section.
- The instruction "Use the Volume Listings if you are looking for something specific." points to the "Volume Listings" section, which includes "Current volume", "Journal archive", and "Forthcoming articles".
- The instruction "View the Latest articles published in the journal." points to the "Latest articles" tab in the "Editorial & News" section.
- The instruction "Find out which articles have been most read." points to the "Most read" tab in the "Editorial & News" section.
- The instruction "Look at which articles have been most cited." points to the "Most cited" tab in the "Editorial & News" section.

The website content includes:

- Navigation: Home, Search, Collections, Journals, About, Contact us, My IOPscience, Authors, Referees.
- Journal Description: "One of the world's most important journals in the field, Journal of Physics D: Applied Physics is concerned with all aspects of applied physics research, from magnetism, plasmas and semiconductors to the structure and properties of matter. The journal's coverage is deliberately broad and publishes theoretical, computational and experimental studies.."
- Volume Listings: "Current volume Number 20, 21 October 2009", "Journal archive Vol. 42, 2009", "Forthcoming articles An advance list of articles that have been accepted for publication."
- Editorial & News: "Highlights of 2007", "Most cited articles in J Phys D", "Progress In Application of Magnetic Nanoparticles In Biomedicine".
- Most read articles (In the last 30 days):
 - Revival of the magnetoelectric effect (Manfred Fiebig, 2005 J. Phys. D: Appl. Phys. 38 R123)
 - Electron transport coefficients in SiH_4 and Si_2H_6 in dc and rf fields (T Shimada et al, 2003 J. Phys. D: Appl. Phys. 36 1936)
 - Applications of magnetic nanoparticles in biomedicine (Q A Pankhurst et al, 2003 J. Phys. D: Appl. Phys. 36 R167)
 - Semiconductor nanowires (Wei Lu and Charles M Lieber, 2006 J. Phys. D: Appl. Phys. 39 R387)
- Journal Information: 2006 Impact Factor 5.1, Journal home, Editorial information, Scope, Editorial board, Author benefits, Abstracted in, Submission addresses, Submit an article, Cluster Review: Progress in Application of Magnetic Nanoparticles in Biomedicine.
- View by Subject: All Subjects, All Dates, All Journals, This journal only.
- Journal History: 1968- present Journal of Physics D: Applied Physics, 1950- 1967 British Journal of Applied Physics.

Users also read

Discover what other researchers are browsing and downloading.

More content

These tabs allow you to access more information about the article 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 articles – Find related content based on keyword matching and PACS/MSC codes.

Bookmark

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

Keep track

See the last 10 articles you viewed, at the abstract level, and the last 10 searches you performed. This function appears at the bottom of the webpage.

The screenshot displays the IOPscience website interface for the article "DNA origami as a nanoscale template for protein assembly". The page features a top navigation bar with the IOPscience logo, login options, and a search bar. Below the navigation bar, the article title is prominently displayed. The main content area includes a metadata section with author names (Anton Kuzky, Kimmo T. Laitinen, and Päivi Törmä), affiliations (Nanosience Center, Department of Physics, University of Jyväskylä and Department of Applied Physics, Helsinki University of Technology), email address, journal information (Nanotechnology, Volume 20, Number 23), and citation details. A central section contains tabs for "Article", "References", "Cited By", "Supplementary Data", and "Related Articles beta". The "Abstract" section provides a summary of the article's content, discussing DNA origami structures and their application in material assembly. Below the abstract, PACS codes and subjects are listed. On the right side, a "Users also read" sidebar suggests related articles, including "Carbon nanotube-based ethanol sensors" and "PHYSICAL PRINCIPLES OF THE THEORY OF BRITTLE FRACTURE CRACKS". At the bottom of the page, a "Your last 10 viewed" section lists the current article as the first item.

Users also read What's this?

1. Carbon nanotube-based ethanol sensors
2. A one-pot functionalization strategy for immobilizing proteins onto linear dsDNA scaffolds
3. PHYSICAL PRINCIPLES OF THE THEORY OF BRITTLE FRACTURE CRACKS

More

Article Links

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View by Subject

All Subjects
All Dates
 All journals This journal only

Export

BibTeX format (bib)
 Abstract References
 Citations

Your last 10 viewed

1. DNA origami as a nanoscale template for protein assembly
Anton Kuzky et al 2009 *Nanotechnology* **20** 235305

My IOPscience

Save research time by creating a My IOPscience account:

- **Tagged articles**

Tag articles of interest to you, represented as a tag cloud.

- **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.

The screenshot shows the 'My IOPscience' user interface. At the top, there is a navigation bar with links for 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', 'My IOPscience', 'Authors', and 'Referees'. Below this is a section titled 'My IOPscience' with a sub-header '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.' To the right of this section is a 'My IOPscience article tags' area with a 'manage' link and a tag cloud containing terms like 'wind', 'plasma', 'photon', 'transition', 'solar', 'nano', 'colloid', 'rays', 'high-energy', 'diodes', 'quark-gluon', 'gamma', 'metal', 'carbon', 'laser', 'spinors', 'catalysts', 'black energy', and 'hole'. Below the introduction is a tabbed interface with four tabs: 'Tagged articles', 'My searches', 'My alerts', and 'Downloads'. The 'Tagged articles' tab is active and displays a list of eight articles. Each article entry includes a numbered title, the date it was last tagged, the tags associated with it, and a 'Clear' button. Red lines and dots connect the text on the left to specific elements in the screenshot: 'Tagged articles' points to the tab, 'Tag articles of interest to you...' points to the 'My IOPscience' section, 'Save your searches...' points to the 'My searches' tab, 'Set up e-mail alerts...' points to the 'My alerts' tab, and 'View articles that you have downloaded...' points to the 'Downloads' tab.

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Quick Search

All Fields | All Dates

Home | Search | Collections | Journals | About | Contact us | My IOPscience | Authors | Referees

My IOPscience

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

wind plasma photon transition transition solar nano
colloid rays high-energy diodes quark-gluon gamma
metal carbon laser spinors catalysts black energy hole

Tagged articles | My searches | My alerts | Downloads

Your tagged articles.

1. A correction method of the spatial distortion in planar images from γ -Camera systems	Tags: transition, metal	Clear
Date last tagged: 11/06/2009 20:47:11		
2. High pressure superconductivity in iron-based layered compounds studied using designer diamonds	Tags: photon	Clear
Date last tagged: 04/06/2009 09:27:10		
3. ATLAS liquid argon calorimeter back end electronics	Tags: energy	Clear
Date last tagged: 22/02/2008 19:28:32		
4. Fermions tunnelling from the charged dilatonic black holes	Tags: black, hole	Clear
Date last tagged: 02/10/2008 12:05:17		
5. XIII International Conference on Calorimetry in High Energy Physics (CALOR 2008)	Tags: high-energy	Clear
Date last tagged: 04/06/2009 09:19:33		
6. Robust control of chaos in the Lorenz system with the variable structure control approach	Tags: quark-gluon	Clear
Date last tagged: 15/02/2008 07:42:16		
7. Magnetized vortex tubes in the solar wind plasma	Tags: solar, wind, plasma	Clear
Date last tagged: 07/01/2008 13:40:50		
8. Images of the energy future	Tags: energy	Clear
Date last tagged: 07/01/2008 13:40:50		

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IOPs LF 0110 user guide

Cover illustration: An instantaneous snapshot of self-propelled interacting agents modelled within a circular boundary system. The ensemble of agents exhibits collective behaviour 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.

