

# Using this guide

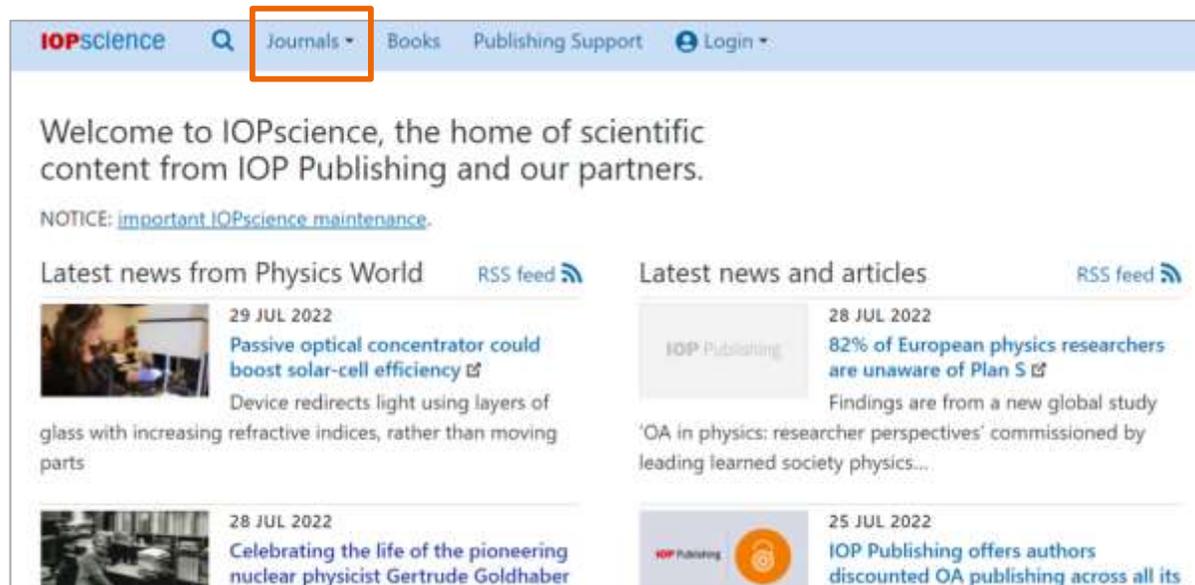
This guide is intended to show you how to make the most of the content and features available via the IOPscience platform.

This guide is primarily intended to help users navigate IOPscience and learn more about available features. If you have any urgent subscription or access queries, please contact our Customer Service department at **[customerservices@iopublishing.org](mailto:customerservices@iopublishing.org)**.



# IOPscience homepage

Use the bar at the top of the homepage to access the **Journals** menu, the **Books** homepage, **Publishing Support**, My IOPscience via the **Login** option or simply type in the **Search** Bar with a keyword of your choice to get started.



The screenshot shows the IOPscience homepage. At the top, there is a navigation bar with the IOPscience logo, a search icon, and links for Journals, Books, Publishing Support, and Login. The 'Journals' link is highlighted with an orange box. Below the navigation bar, there is a welcome message and a notice about maintenance. The main content area features two columns of news articles. The left column is titled 'Latest news from Physics World' and the right column is titled 'Latest news and articles'. Each article includes a date, a title, and a brief description.

Use the pop-out **Journals** menu to access more information.



The screenshot shows the 'Journals' pop-out menu. It is a light blue box with a white background. The menu is organized into four sections: 'Journals list', 'Subject collections', 'Publishing partners', and 'Open access'. Each section has a title and a brief description of the content available.

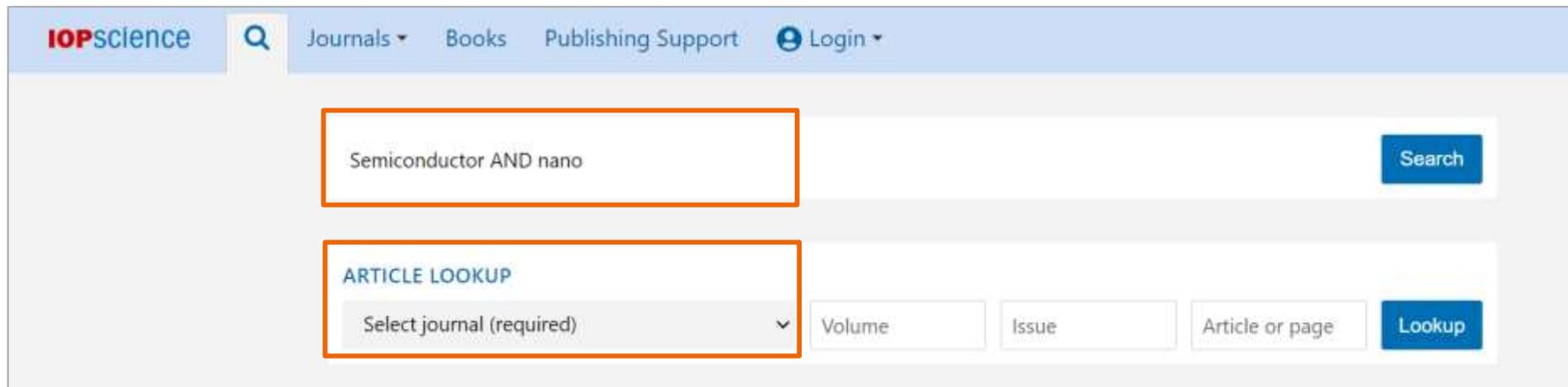
|                                                                     |                                                                                                 |                                                                      |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Journals list</b><br>Browse more than 100 science journal titles | <b>Subject collections</b><br>Read the very best research published in IOP journals             | <b>Publishing partners</b><br>Partner organisations and publications |
| <b>Open access</b><br>IOP Publishing open access policy guide       | <b>IOP Conference Series</b><br>Read open access proceedings from science conferences worldwide |                                                                      |



# Searching for content



Click on the search icon to access search facility.



You can also run a BOOLEAN search using 'AND', 'OR', 'NOT'.

You can use the article **Lookup** option to search for specific papers within a journal.



# Searching for content

**Refine your search**

- + Date published
- + Journals
- + Publication type
- + Open access

[Apply filters](#) [Clear filters](#)

The top 500 results for "Semiconductor AND nano" are:

Within: Anytime

Showing 1-10 of 500

Email alert RSS search Sort by **Relevance** [Update](#)

**JOURNAL ARTICLE**

[Erratum: Coupling between structural properties and charge transport in nano-crystalline and amorphous carbon films, deposited by electron-beam evaporation \(2020 \*Nanotechnology\* 31 505706\)](#)

V V Brus, M I Ilashchuk, I G Orletskyi, M M Solovan, G P Parkhomenko, I S Babichuk, N Schopp, G O Andrushchak, A I Maryanchuk

2021 *Nanotechnology* 32 109601 <https://doi.org/10.1088/1361-6528/abce55>

[View article](#) [PDF](#)

**JOURNAL ARTICLE**

[Corrigendum: The effect of an annealing process on atomic layer deposited TiO<sub>2</sub> thin films \(2022 \*Nanotechnology\* 33 045705\)](#)

Byunguk Kim, Taeseong Kang, Gucheol Lee and Hyeong tag Jeon

2022 *Nanotechnology* 33 119501 <https://doi.org/10.1088/1361-6528/ac412f>

[View article](#) [PDF](#)

**JOURNAL ARTICLE**

[\(Invited\) Nano-Crystalline Oxide Semiconductor Materials for Display and Semiconductor Device Applications](#)

You can apply multiple filters to narrow down your results:

- date published
- journal title
- author and type

You can also opt to display only open access content.

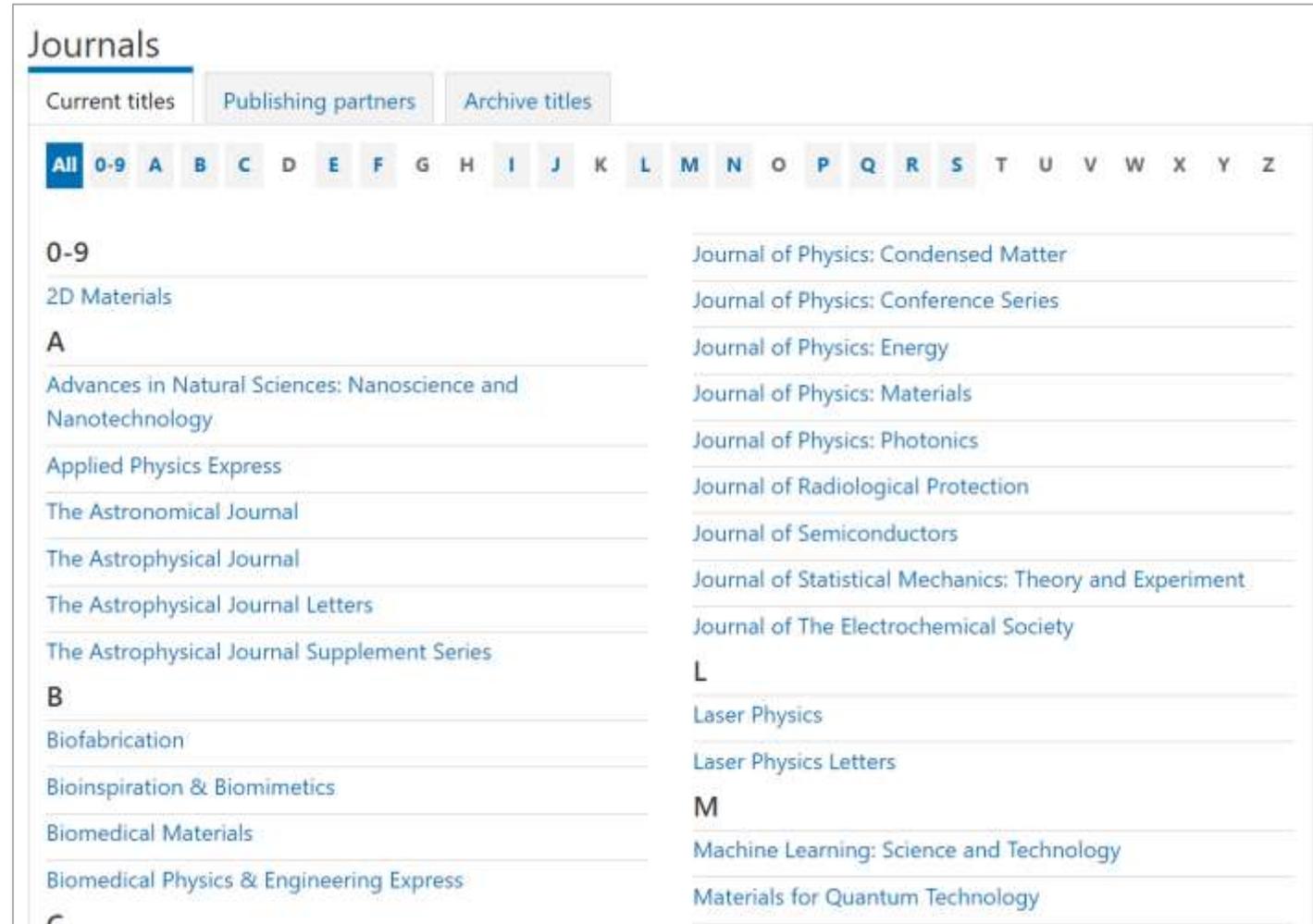
Results can be sorted by relevance, latest and oldest.



# Full journal list

## Discover the full range of IOP content

Every journal can be accessed via the Current titles list. You can also view the list by Publishing partners or Archive.



The screenshot shows the 'Journals' page on the IOP website. At the top, there are three tabs: 'Current titles' (selected), 'Publishing partners', and 'Archive titles'. Below the tabs is a navigation bar with buttons for 'All', '0-9', and letters 'A' through 'Z'. The 'All' button is highlighted in blue. The main content area displays a list of journals, grouped by category. The visible categories and their corresponding journals are:

- 0-9**
  - 2D Materials
- A**
  - Advances in Natural Sciences: Nanoscience and Nanotechnology
  - Applied Physics Express
  - The Astronomical Journal
  - The Astrophysical Journal
  - The Astrophysical Journal Letters
  - The Astrophysical Journal Supplement Series
- B**
  - Biofabrication
  - Bioinspiration & Biomimetics
  - Biomedical Materials
  - Biomedical Physics & Engineering Express
- L**
  - Laser Physics
  - Laser Physics Letters
- M**
  - Machine Learning: Science and Technology
  - Materials for Quantum Technology

Other journals visible in the list include: Journal of Physics: Condensed Matter, Journal of Physics: Conference Series, Journal of Physics: Energy, Journal of Physics: Materials, Journal of Physics: Photonics, Journal of Radiological Protection, Journal of Semiconductors, Journal of Statistical Mechanics: Theory and Experiment, and Journal of The Electrochemical Society.



# Journal pages

The journal homepage contains critical data and links relating to a particular title.

This includes the **Impact Factor**, **Scope**, **Editorial board**, **Special/Focus issues** and **Webinars**.

From here you can quickly select any volume, see what's new and learn more about pricing, guidelines and specific open access information.

You can also find the links you need to submit your own article, sign up for journal notifications and view all of the journals' accepted manuscripts.

The screenshot shows the homepage for the Journal of Physics D: Applied Physics. The page includes a journal cover image, a description of the journal's focus, and several key features highlighted with orange boxes:

- Submit and track your article from the homepage:** A box highlights the "Submit an article" and "Track my article" buttons.
- Current volume and Journal archive:** A box highlights the "Current volume" dropdown (set to "Number 37, 14 September 2023") and the "Journal archive" dropdown (set to "Vol 56, 2023").
- Journal Links:** A box highlights the "JOURNAL LINKS" section, which includes links for "Submit an article", "About the journal", "Editorial Board", "Author guidelines", "Review for this journal", "Publication charges", "Awards", "Journal collections", "Pricing and ordering", and "Contact us".

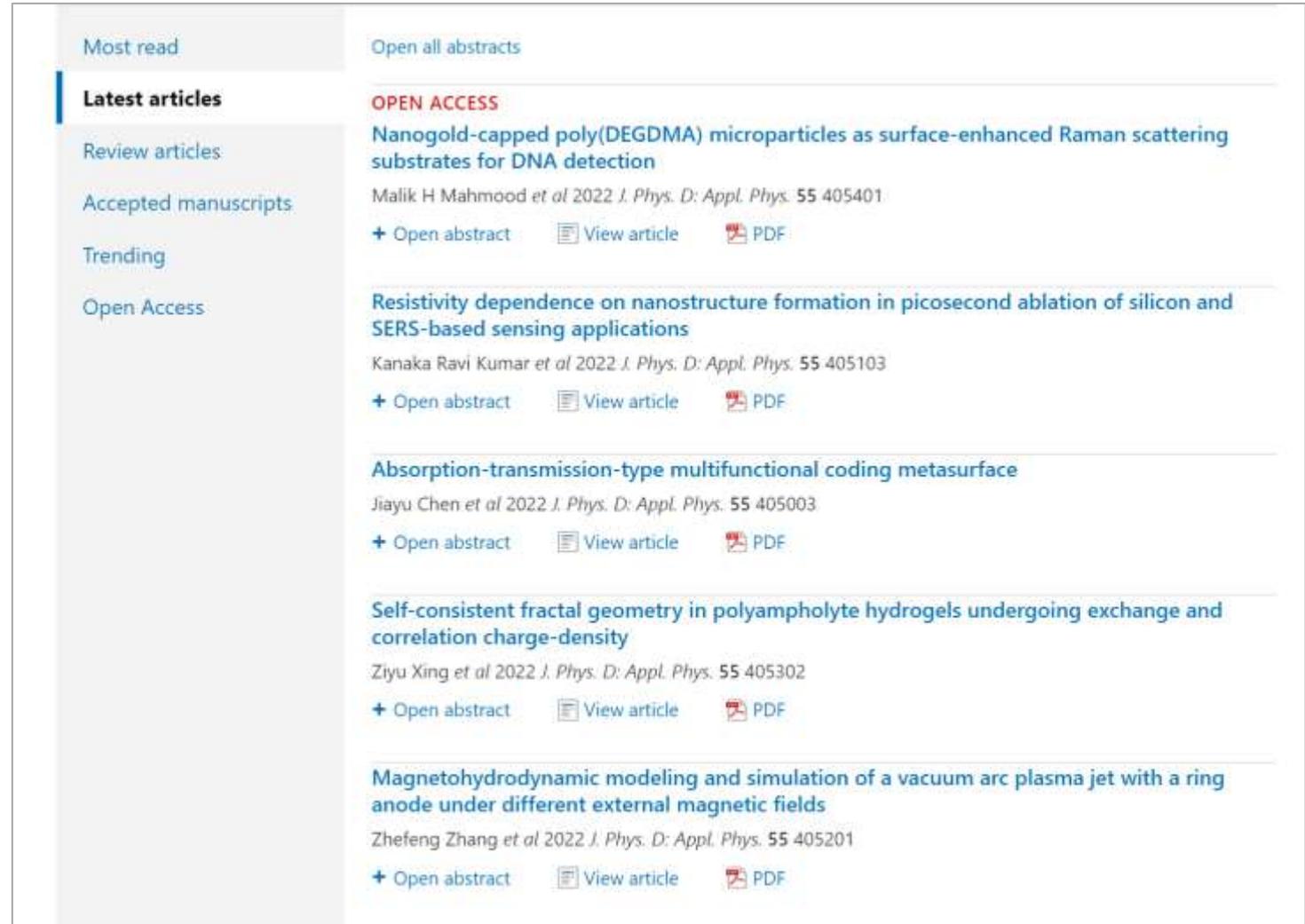
At the bottom of the page, there are statistics: "37 days" (Median submission to first decision after peer review), "3.409" (Impact factor), and "5.7" (Citescore).

On the right of every homepage there are quick links to **Special/Focus issues**, **Highlights**, **Scope**, **Editorial board** and other key information.



# Journal pages

At the bottom of each journal homepage you can quickly access the **Most read** and latest articles from that journal. You can also see **Review articles** if these are available.



The screenshot displays a journal homepage interface. On the left is a vertical navigation menu with the following items: 'Most read', 'Latest articles' (highlighted with a blue bar), 'Review articles', 'Accepted manuscripts', 'Trending', and 'Open Access'. The main content area on the right features a link for 'Open all abstracts' at the top. Below this, there are four article entries, each starting with an 'OPEN ACCESS' label. The first article is 'Nanogold-capped poly(DEGDMA) microparticles as surface-enhanced Raman scattering substrates for DNA detection' by Malik H Mahmood et al (2022), published in *J. Phys. D: Appl. Phys.* 55, 405401. The second is 'Resistivity dependence on nanostructure formation in picosecond ablation of silicon and SERS-based sensing applications' by Kanaka Ravi Kumar et al (2022), published in *J. Phys. D: Appl. Phys.* 55, 405103. The third is 'Absorption-transmission-type multifunctional coding metasurface' by Jiayu Chen et al (2022), published in *J. Phys. D: Appl. Phys.* 55, 405003. The fourth is 'Self-consistent fractal geometry in polyampholyte hydrogels undergoing exchange and correlation charge-density' by Ziyu Xing et al (2022), published in *J. Phys. D: Appl. Phys.* 55, 405302. The fifth is 'Magnetohydrodynamic modeling and simulation of a vacuum arc plasma jet with a ring anode under different external magnetic fields' by Zhefeng Zhang et al (2022), published in *J. Phys. D: Appl. Phys.* 55, 405201. Each article entry includes a plus icon for 'Open abstract', a document icon for 'View article', and a PDF icon for 'PDF'.



# Article pages

Each individual article page contains links and information including the full PDF, figures, references, download numbers, dimensions and Altmetrics data (see separate sections), permissions, export and social-media sharing options.

Click on the **Article information** tab to view:

- Author affiliations
- Publication dates
- Citation data
- Categories and keyword annotations
- Links to create citation alerts, issue notifications, submit feedback or purchase the article in print.

The screenshot shows the article page for "Mechanical properties of nanoparticles: basics and applications". It includes a top navigation bar with "TOPICAL REVIEW • OPEN ACCESS", the article title, authors (Dan Guo<sup>1</sup>, Guoxin Xie<sup>1</sup> and Jianbin Luo<sup>1</sup>), publication date (3 December 2013), journal information (Journal of Physics D: Applied Physics, Volume 47, Number 1), and citation (Dan Guo et al 2014 J. Phys. D: Appl. Phys. 47 013001). On the right, there is a download counter (133075 Total downloads), Altmetrics data (381 citations, 12 social media mentions), a MathJax toggle, and social sharing options. Below the article title, there are tabs for "Article PDF", "Figures", and "References". A callout box points to the "Figures" and "References" tabs, stating: "Click to drop-down and view author affiliations and more." Another callout box points to the "Figures" tab, stating: "See all the figures in the article at a glance with this tab." A third callout box points to the Altmetrics data, stating: "Get instant statistics on citations, downloads and social media impact." At the bottom, there is a section for "Author e-mails" (guodan26@mail.tsinghua.edu.cn), "Author affiliations" (State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University, Beijing 100084, People's Republic of China), and "Dates" (Received 28 August 2013).

TOPICAL REVIEW • OPEN ACCESS

## Mechanical properties of nanoparticles: basics and applications

Dan Guo<sup>1</sup>, Guoxin Xie<sup>1</sup> and Jianbin Luo<sup>1</sup>

Published 3 December 2013 • © 2014 IOP Publishing Ltd

[Journal of Physics D: Applied Physics, Volume 47, Number 1](#)

Citation Dan Guo et al 2014 *J. Phys. D: Appl. Phys.* 47 013001

133075 Total downloads

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Author e-mails  
[guodan26@mail.tsinghua.edu.cn](mailto:guodan26@mail.tsinghua.edu.cn)

Author affiliations  
<sup>1</sup> State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University, Beijing 100084, People's Republic of China

Dates  
1. Received 28 August 2013



# Article pages

When you view a specific article page you will have one of two options:

If you have access to the article (via your library subscription) or the article is published on an open access basis, you will be able to download the full PDF.

Journal of Physics A: Mathematical and Theoretical

PAPER

A systematic construction of integrable delay-difference and delay-differential analogues of soliton equations

Kenta Nakata<sup>3,1</sup> and Ken-ichi Maruno<sup>3,2</sup> 

Published 25 July 2022 • © 2022 IOP Publishing Ltd

[Journal of Physics A: Mathematical and Theoretical](#), Volume 55, Number 33

Citation Kenta Nakata and Ken-ichi Maruno 2022 *J. Phys. A: Math. Theor.* **55** 335201

 Article PDF

References ▾ Open science ▾

+ Article information

29 Total downloads

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Abstract

1. Introduction

If you have institutional access via your library or it is open access you will be able to view and download the full PDF.



# Article pages

If you do not have access, you will see the message below.

Choose the most appropriate response and follow the instructions.

**Access this article**

The computer you are using is not registered by an institution with a subscription. Please choose one of the options below.

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For corporate researchers we can also follow up directly with your R&D manager, or the information management contact at your company. Institutional subscribers have access to the current volume, plus a 10-year back file (where available).

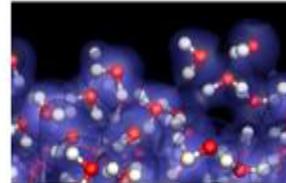


# Subject collections

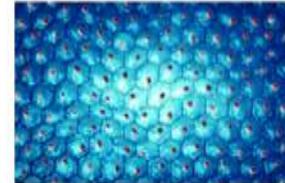
IOP Subject collections are your gateway to all of the content that IOP Publishing offers in a particular field across journals, books, conference proceedings and our flagship magazine, *Physics World*.



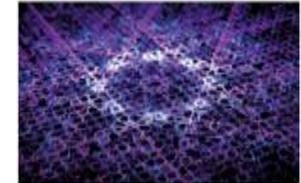
Astronomy and astrophysics



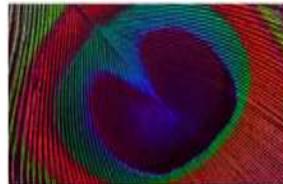
Atomic and molecular physics



Biomedical engineering



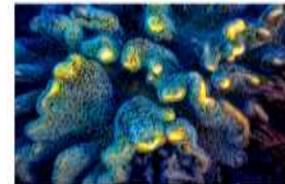
Condensed matter



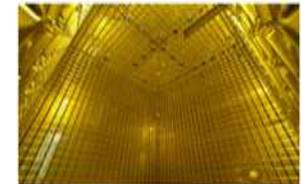
Education



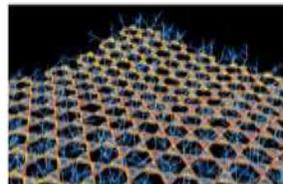
Engineering



Environment and energy



Instrumentation and measurement



Materials



Mathematics and computation



Medical physics and biophysics



Optics and photonics



Particle and nuclear physics



Plasmas



Quantum science



# Subject collections

Each subject collection page gives you a clear overview of recent developments in a particular field, such as:

- new journal launches
- special materials
- the latest highlights
- quick access to the most relevant journals, books and other media.

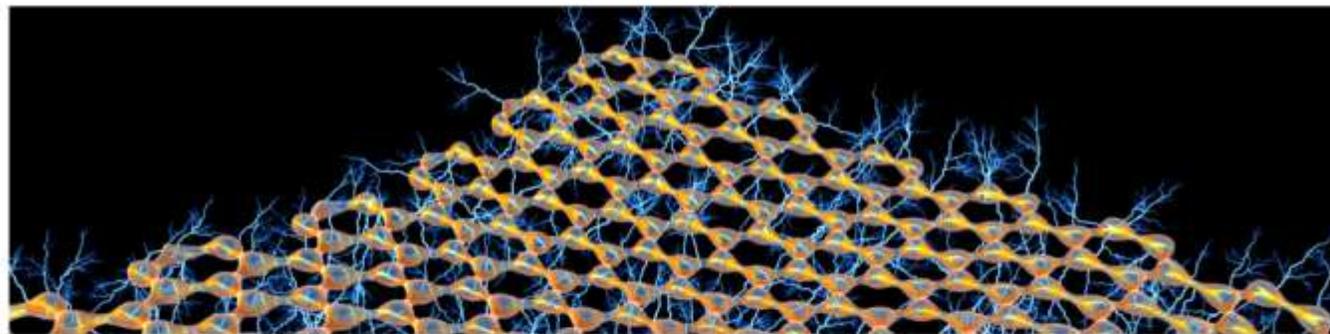


Image credit: Alfred Pasieka/Science Photo Library

## SUBJECT COLLECTIONS

### Materials

World-leading materials science journals and books, dedicated to supporting and improving research across the field, from research to technology and innovation.

[Sign up and opt in to receive the latest research, journal and ebook news](#) in materials.

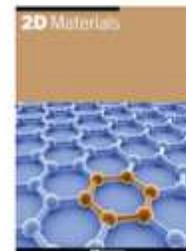
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# Enhanced articles and multimedia

Many articles include enhancements and multimedia options.

**Video abstracts**  
Video abstracts are a feature aimed at further increasing the visibility of our authors and their work, and enable authors to now go beyond the constraints of the written article to convey their research to readers.



The search for Bose-Einstein condensation of excitons in Cu<sub>2</sub>O: exciton-Auger recombination versus biexciton formation  
James P Wolfe and Joon I Jang 2014  
*New J. Phys.* **16** 123048

The effects of surface polarity and dangling bonds on the electronic properties of monolayer and bilayer MoS<sub>2</sub> on-quartz  
Ha-Jun Sung *et al* 2014 *New J. Phys.* **16** 113055

A weakly coupled semiconductor superlattice as a harmonic hypersonic-electrical transducer  
C L Poyser *et al* 2015 *New J. Phys.* **17** 083064

Video abstracts enable authors to go beyond the constraints of the written article to personally explain the value of their work and enhance a reader's understanding.

To see which journals publish video abstracts, visit the author guidelines in the Publishing Support area:  
<https://publishingsupport.iopscience.iop.org/video-abstracts>.



IOP ebooks meet the author Professor Brian Diffey

**IOP ebooks™**

**Meet the Author webinar series presents**

Professor Brian Diffey  
**Sun Protection**  
A risk management approach  
8<sup>th</sup> August 2018

Some IOP ebooks feature an author webinar aimed at providing the reader with a chance to get to know the researcher and their work a little better. Each one is around 45 minutes and offers a deeper understanding of the book.

Visit <http://iopscience.iop.org/bookListInfo/author-webinars> to view the full series.



# Journal collections: special issues, focus issues

Many IOP journals have special issues or focus issues bringing together papers on a particular topic.

Other special collections, which vary from journal to journal, include **Spotlights**, **Perspectives** and specific article types such as **Fast track communications** and letters.

|                           |
|---------------------------|
| Letters                   |
| Special issue collections |
| Topical reviews           |

|                           |
|---------------------------|
| Fast track communications |
| 'Focus on' series         |
| Spotlights                |
| Perspectives              |

Look for a variety of special collection types in the right-hand column on each journal homepage.

## Special issues/focus issues

Diverse collections of exclusive, invited articles in areas identified by the Editorial Board.

## Spotlights

Both special and regular papers that demonstrate progress and trends in a specific area of interest.

## Perspectives

Commissioned commentaries authored by some of the leading researchers in physics, aimed at highlighting the significance and impact of research appearing in that particular journal.

