

IOPscience

User guide

iopscience.org

Last updated: Jan. 2013

EBSCO

IOP Publishing

- **주제분야 : 천문 및 천문물리학, 생물과학, 화학, 전산과학, 교육, 공학, 재료학, 수학, 계측, 의과학, 나노기술, 물리학**
- **원문정보 제공년도 : 1874년 ~ Current (저널마다 다름)**
- **서비스제공주소 : <http://iopscience.iop.org/>**
- **400,000 이상의 저널 아티클 & 500,000 이상의 pre-print 아티클 제공**
 - ① IOPscience 에 수록되어 있는 peer-review 된 콘텐츠
 - ② 코넬 대학의 arXiv.org 를 기반으로 한 eprintweb.org 에 수록된 pre-print
 - ③ IOP 커뮤니티 웹사이트에 수록된 사설과 뉴스

The screenshot shows the IOPscience website home page. At the top left is the IOPscience logo. To its right are links for 'Journals' and 'Login'. A search bar is located at the top right, with a 'Search' button and a link to 'Advanced search'. Below the search bar is a 'View by subject' section with dropdown menus for 'All Subjects' and 'All Dates', and a 'Search' button. The main content area features a featured article from the 'Journal of Physics B: Atomic, Molecular and Optical Physics' with a colorful atomic model image. To the left of the featured article is a 'Welcome to IOPscience' section with a list of links: 'Find out more', 'Download a user guide', and 'Take an online tour'. Below this is a prompt to create an account. At the bottom left, there are four tabs: 'Latest articles', 'Most read', 'Most cited', and 'Latest news'. Two article snippets are visible below the tabs, each with a 'Tag this article' button. Annotations A, B, C, and D are placed on the page to highlight specific features.

A : Search
모든 페이지 상단에 고정되어 있어 빠르고 간편하게 검색 가능

B : 클릭하면 검색 창이 Article 별로 검색 가능한 창으로 변경

C : User Guide 를 다운로드 받거나 Online Tour 동영상 확인 가능
(한국어 Online Tour 동영상 지원)

D : Popular articles
* Latest articles : IOPscience 상의 최신 Article List 제공
* Most read : 지난 30일간 많이 다운로드된 Article List 제공
* Most cited : 지난 2년간 많이 인용된 Article 제공
* Latest news : IOP 출판사의 다른 웹페이지에서 제공되는 과학 관련된 최신 동향 뉴스제공

User Guide

Step 1

IOPscience Journals | Login

Welcome to IOPscience

IOPscience is a platform for IOP-hosted journal content. It incorporates some of the most innovative technologies to enhance your user experience.

- Find out more
- Download a user guide
- Take an online tour

Don't forget to create an account to customize IOPscience and to set up e-mail alerts.

Journal of Physics B: Atomic, Molecular and Optical Physics

A new method developed by a group of researchers from the USA and Canada, could potentially cool trapped antihydrogen atoms to temperatures 25 times colder than already achieved.

Read the [research article](#)

View by subject
All Subjects
All Dates
Search

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

Latest articles | Most read | Most cited | Latest news

Nuclear diffraction dissociation of ^{16}O , ^{22}Ne , ^{28}Si , ^{32}S , ^{56}Fe at 1–3.7 A GeV in nu...
A T Neagu et al 2013 *J. Phys. G: Nucl. Part. Phys.* **40** 035102 Tag this article

Simultaneous χ^2 -analysis of near-barrier fusion and elastic scattering for the prot...
using dynamical Woods–Saxon polarization potentials
A Gómez Camacho et al 2013 *J. Phys. G: Nucl. Part. Phys.* **40** 035103 Tag this article

IOPscience Extra 이용가이드 다운로드 가능

Step 2

IOPscience Journals | Login

Search | Advanc

Support materials

All of the support materials listed below are available to download at no cost. If you would like us to send you pre-printed copies, simply e-mail iopscience@iop.org with your name, complete mailing address, and the quantity that you require.

User guide

- User Guide (English)
- Guida de l'utilisateur (French)
- Leitfaden (German)
- Guida utente (Italian)
- Guía del Usuario (Spanish)

About IOP Links

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Online Tour

Step 1

Step 2

Find out more
Download a user guide
Take an online tour

Journal of Physics B: Atomic, Molecular and Optical Physics

A new method developed by a group of researchers from the USA and Canada, could potentially cool trapped antihydrogen atoms to temperatures 25 times colder than already achieved.

Read the research article

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

Latest articles | Most read | Most cited | Latest news

Nuclear diffraction dissociation of ^{16}O , ^{22}Ne , ^{28}Si , ^{32}S , ^{56}Fe at 1–3.7 A GeV in nuclear emulsion
A T Neagu et al 2013 *J. Phys. G: Nucl. Part. Phys.* 40 035102

Simultaneous χ^2 -analysis of near-barrier fusion and elastic scattering for the proton-halo system $^8\text{B} + ^{58}\text{Ni}$ using dynamical Woods–Saxon polarization potentials
A Gómez Camacho et al 2013 *J. Phys. G: Nucl. Part. Phys.* 40 035103

Online Tour 영상 한국어 지원

Step 3

Step 3

IOPscience online tour

English	Español	Français	Deutsch
Português	Italiano	Русский	中文
日本語	한국어	العربية	

Discover how to get the most out of IOPscience in our online tour.

Please ensure that your audio settings are switched on and Flash Player is Installed.

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Searching

Journals & Articles

Physical Scripta

Numerical solutions for unsteady rotating high-porosity medium channel Couette hydrodynamics

Author: Joaquín Zúñiga ^{1,*}, O Anwar Bilal ² and Tamer A Bilal ³

Affiliations: ¹ETS Ingenieros Industriales Campus Murillo del Mar, Departamento de Ingeniería Térmica y Fluidos, Universidad Pontificia de Compostela, 32002 Compostela (Spain); ²MagnetoHydrodynamics and Heat Transfer Research, Mechanical Engineering Program, Department of Engineering and Mathematics, Sheff Hallam, South 419, The University of Sheffield, Sheffield S1 1BB, UK; ³Engineering Technical Research, 16 Miller Court, Westborough MA 01581 USA

Abstract: We investigate theoretically and numerically the effects of thermal, compressible, hydrodynamic and magnetic Couette flow in a Darcy–Forchheimer porous medium. The porous medium is assumed to be isotropic and the flow past stationary. The two-dimensional reduced Navier–Stokes equations are solved using a finite difference method based on a Hermite cubic analysis. It is employed to solve the transformed three-dimensional partial differential equations under prescribed boundary conditions. We examine how generally the effect of Darcy number, Forchheimer number and Darcy number on the shape stresses of the porous media. Couette agreement is also obtained for the infinite permeability (i.e. purely fluid (non-porous medium)) case ($Da \rightarrow \infty$) with the analytical solutions of Zúñiga et al (2008) and J. Nonlinear Mechanics 41: 438–463. Results are obtained in various cases. Increasing Darcy number, Da (corresponding to increasing Couette force) is found to accelerate the primary shear stress component τ_{xy} considerably but to reduce magnitude of the secondary shear stress component τ_{yz} . The flow is also found to be accelerated generally with increasing Darcy number and decelerated with increasing Forchheimer number. The present model has applications in geophysical flows, chemical engineering systems and also fundamental studies in fluid dynamics.

Keywords: 47.15.Gb Laminar boundary layers; 47.85.-d MagnetoHydrodynamics and electroHydrodynamics; 47.86.-d Flows through porous media; 47.85.-d Flow phenomena in quasi-one-dimensional systems

Search

Quick help ?

Search, then filter by author, subject, journal, date range and PACS.
The counter automatically updates to show the number of matches to your search.



Title/Abstract All Dates Search now

From to

0 IOPscience result(s)

PACS/MSC search

Enter a PACS/MSC code description (e.g. spin*), or you can search for a PACS or MSC code itself (e.g. 12.10).



Search

Subjects

- 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

Journals

- Journal of Physics A: General Physics (1968-1972)
- Journal of Physics A: Mathematical and General (1975-2006)
- Journal of Physics A: Mathematical and Theoretical (2007 to date)
- Journal of Physics A: Mathematical, Nuclear and General (1973-1974)
- Journal of Physics B: Atomic and Molecular Physics (1968-1987)
- Journal of Physics B: Condensed Matter Physics (1988 to date)
- Journal of Physics C: Solid State Physics
- Journal of Physics: Condensed Matter
- Journal of Physics D: Applied Physics
- Journal of Physics E: Statistical Physics
- Journal of Physics F: Plasma Physics

A. Search field

: 저널명/초록, 저자명, 소속기관, 원문, PACS/MSC 코드로 필터링 하여 검색 가능
: 특정 날짜를 지정하여 검색결과를 좁혀나갈 수 있음

B. PACS/MSC search

: PACS 또는 MSC 코드를 사용하여 검색

* PACS : Physics and Astronomy Classification Scheme
(물리학 및 천문학 분류 코드)

* MSC : Mathematics Subject Classification
(수학 분류 코드)

Search Result_(1)

Search Results **A**

Your search (1838) Full text (1838) e-prints (0) News and analysis (0) ProQuest (130409) Physics World Archive (0)

(Journal: Reports on Progress in Physics)

Filter results by: **C**

- PACS 68.35.B (38) 87.15.B (36) 75.60.Ej (33)
- Dates 2013 (8) 2012 (67) 2011 (54)
- Subjects Condensed matter: electrical, magnetic and optical (363) Condensed matter: structural, mechanical & thermal (263) Particle physics and field theory (258)
- Journals Reports on Progress in Physics (1838)
- Authors E G Richardson (11) A Hunter

Full text search within results: **D**

Export results Ordered by: Online Date

- Optical trapping and binding
Richard W Bowman and Miles J Padgett
2013 Rep. Prog. Phys. 76 026401 doi:10.1088/0034-4885/76/2/026401
[View extract](#)
- The role of dynamic measurements in correlating structure with opto fullerene bulk-heterojunction solar cells
Andrew J Pearson, Tao Wang and David G Lidzey
2013 Rep. Prog. Phys. 76 022501 doi:10.1088/0034-4885/76/2/022501
[View extract](#)

E RSS this search **1838** IOPscience Result(s) **B**
Save this search
Add to my alerts

A. One search – three sets of results : 한번의 검색으로 세가지 결과물 제공
1) IOPscience 에 수록되어 있는 peer-review 된 콘텐츠
2) 코넬 대학의 arXiv.org 를 기반으로 한 eprintweb.org 에 수록된 pre-print
3) IOP 커뮤니티 웹사이트에 수록된 사실과 뉴스

B. Search results
: 필터링에 따라 검색건수가 계속 업데이트 되면서 보여짐

C. Filter results
: 검색결과를 PACS, 발행년도, 주제, 저널명, 저자명으로 필터링하여 좁힐 수 있음
: + 를 클릭하면 숨겨진 범주를 볼 수 있음

D. Search within results
: 결과 내 재 검색 가능

E. Save your search results
: 검색 결과를 저장하거나 RSS feed 또는 e-mail alert 을 설정할 수 있음

Search Result_(2)

The screenshot shows the IOPscience website interface. At the top, the navigation menu includes 'Home', 'Search', 'Collections', 'Journals', 'About', 'Contact us', and 'My IOPscience', all of which are highlighted with a red box. Below the navigation, the main content area displays search results for 'Optical trapping and binding'. A red box highlights a link: 'View the table of contents for this issue, or go to the journal home page'. A large yellow box on the right contains three annotations: 'A. Export results : 원하는 아티클을 다양한 포맷으로 추출 가능', 'B. Tag this article : 해당 아티클을 특정 키워드를 지정하여 태깅', and 'C. Full text PDF : 다운받은 PDF 내에서 IOPscience 첫페이지, 검색페이지, 저널리스트 화면으로 바로 이동 가능하며, 목차 또는 다른 관련 아티클로 이동할 수 있음'. A blue arrow points from the 'Full text PDF' annotation to the 'Full text PDF (2.06 MB)' link in the search results. The search results list includes the article 'Optical trapping and binding' by Richard W Bowman and Miles J Padgett, and 'The role of dynamic measurements in correlating structure with optoelectronic properties in polymer : fullerene bulk-heterojunction solar cells' by Andrew J Pearson, Tao Wang and David G Lidzey. The 'Export results' button is circled in green and labeled 'A', the 'Tag this article' button is circled in green and labeled 'B', and the 'Full text PDF' link is circled in green and labeled 'C'. The page also shows author filters for E G Richardson (11), A Hunter (9), and P E Hodgson (8), a search box for 'Full text search within results', and a 'Filter Now' button. The page number '1 of 184' is visible at the bottom right.

Search Result_(3)

IOPscience Journals Search [Advanced search](#)

Nanotechnology [Email alert](#) [RSS feed](#)

Nanotechnology > Volume 20 > Number 23
Anton Kuzyk et al 2009 *Nanotechnology* 20 235305 doi:10.1088/0957-4484/20/23/235305

DNA origami as a nanoscale template for protein assembly

Anton Kuzyk^{1,2}, Kimmo T Laitinen¹ and Päivi Törmä^{2,3}
[Show affiliations](#)

Tag this article Full text PDF (863 KB)

Abstract [References](#) [Cited By](#) [Supplementary Data](#) [Metrics](#)

We describe two general approaches to the utilization of DNA origami structures for the assembly of materials. In one approach, DNA origami is used as a prefabricated template for subsequent assembly of materials. In the other, materials are assembled simultaneously with the DNA origami, i.e. the DNA origami technique is used to drive the assembly of materials. Fabrication of complex protein structures is demonstrated by these two approaches. The latter approach has the potential to be extended to the assembly of multiple materials with single attachment chemistry.

Related Articles NEW

1. DNA origami-based nanoribbons: assembly, length distribution, and twist
2. Defined-size DNA triple crossover construct for molecular electronics: modification, positioning and conductance properties
3. Intrinsic DNA curvature of

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1. [DNA origami as a nanoscale template for protein assembly](#)
Anton Kuzyk et al 2009 *Nanotechnology* 20 235305
2. [The Landau theory of second-order phase transitions: \$\[\Gamma\]^3\$ and \$\{\$](#)
A P Cracknell and S J Joshua 1968 *J. Phys. A: Gen. Phys.* 1 40

A. Related Articles

: 다른 연구자들이 열람하거나 다운로드한 Article 을 알 수 있음

B. 참고문헌, 이미지 등 해당 Article 에 대한 다른 정보를 얻을 수 있음

C. 소셜북마킹 제공

D. 최근 열람했던 아티클, 최근 검색식을 보여줌
(특정 검색식으로 돌아가 재 검색, 재 필터링 가능)

Collections

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blackhole nanotechnology

Journals ▾

- Journals list
- IOPselect**
- Subject collections
- Review articles
- Open Access
- Publishing Partners
- Author services
- Referee services
- Librarian services

Collection type:

- IOPselect**
- this month's articles
- featured articles
- review articles

IOPselect (507) 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

1 of 51 ▶

Ion beam induced surface pattern formation and stable travelling wave solutions
Satoshi Numazawa and Roger Smith
2013 *J. Phys.: Condens. Matter* 25 095003 doi:10.1088/0953-8984/25/9/095003
[View extract](#)

Tag this article

Full text PDF (998 KB)

Enhanced article HTML

- **IOPselect**
IOP 편집자들이 최근의 연구동향에 새롭게 중요시 되고 있거나, 잠재적인 영향을 미치고 있다고 생각하며 선정한 Article
- **this month's articles** : 30일간 무료로 제공되는 Article
- **featured articles** – 가장 많이 관심을 가진 최신의 Article
- **review article** – 리뷰 Article 모음

Journals Home

IOPscience Journals Search

A Current Titles Publishing Partners Journal Archive

B **View by subject**
All Subjects
All Dates

Journals list

- IOPselect
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- Review articles
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- Author services
- Referee services
- Librarian services

상단 Journals 에서 원하는 저널 링크 클릭 또는 Quick Search 검색

A : 최신 타이틀, IOP 파트너 출판사, Archive 별로 검색 가능

B : 주제별, 저널 기한 별 검색 가능

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
Laser Physics
Laser Physics Letters
Measurement Science and Technology
Methods and Applications in Fluorescence
Metrologia
Modelling and Simulation in Materials Science and Engineering
Nanotechnology
New Journal of Physics
Physics Education
Physics in Medicine and Biology
Physics-Uspekhi
Physiological Measurement
Plasma Physics and Controlled Fusion
Plasma Science and Technology
Plasma Sources Science and Technology

IOPscience Journals | Search | Advanced search

Nanotechnology | Email alert | RSS feed

Volume listings

Current volume
Number 6, 15 February 2013 **Go**

Journal archive
Vol 24, 2013 **Go**

2011 Impact Factor 3.979

Journal links

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- Editorial board
- Abstracted in
- Author benefits
- Highlights of 2012
- Publisher's pick
- One year on
- Cover gallery
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- Contact us
- Submit an article

Editorial & news

Publisher's pick
Each month the *Nanotechnology* Editorial team highlights an article in the journal that we feel will be of particular interest to our readers.

Researchers at the Instituto de Ciencia de Materiales de Madrid achieve strong tunable color and bright visible light composed of red-green, blue and green emissions from Ho²⁺, Tm²⁺ and Er²⁺, respectively, by adjusting the Yb-Ln composition of silica-coated tetragonal zircon-type co-doped Yb, Ln-GdVO₄ (Ln=Tm, Ho, Er) upconverting nanocrystals.

Enhanced article HTML | LabTalk | Interview

Nanotechnology's Impact Factor rises to 3.979
Following the publication of the 2011 ISI Journal Citation Report, *Nanotechnology's* Impact Factor has increased from 3.652 to 3.979.

LabTalk

Most recent | **Most read**

- Reduced graphene oxide passes high-frequency transmission test
1월 22, 2013
- Nanosphere lithography pit pattern provides template for 3D densely ordered Ge QD crystals
1월 17, 2013
- Laser beam exfoliates graphite to form chemically tunable platform
1월 16, 2013

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<A> 오디오 체크 박스를 설정 후 검색 및 링크를 진행하면 특정 저널 내에서만 쿼리 가능

B: 해당 저널의 최근 IF 값

C : RSS feed 또는 e-mail alert 셋업

D: 해당 저널의 current 볼륨 및 Archive 별 검색가능

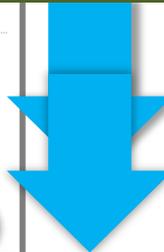
E : 화면 하단에 Cloud Tag

저널의 콘텐츠 범주를 시각적으로 제공

PACS 코드와 MSC 주제코드로 콘텐츠 범부를 분류

같은 코드에 해당하는 기사가 많으면 큰 폰트로

표시 됨



Scroll Down

View by subject

All Subjects

All Dates

All journals

This journal only

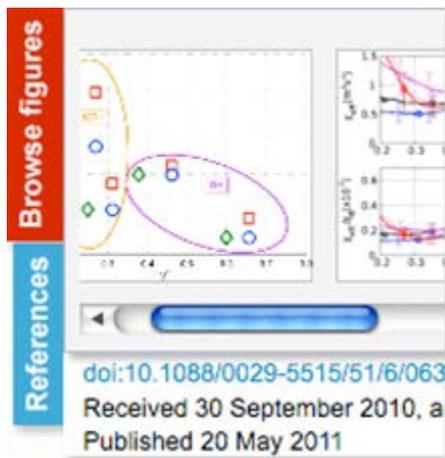
Search

PACS cloud

This cloud represents the 50 most popular PACS codes from the latest 250 coded articles for this journal. 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.

42.65.Ky 61.72.Hh **61.48.-c** 42.62.-b 61.72.J- 42.79.Ag 42.30.Va 42.82.Bq **61.46.Df** 07.05.Hd 47.63.mh
61.46.Hk 42.25.Gy 42.55.Lt 02.70.Ns 61.50.Ah **61.46.-w** 07.10.Cm 03.67.Lx 07.20.Dt **61.41.+e**
 52.77.Bn 07.20.Mc 61.43.Fs 61.66.Br 42.60.Fc 06.20.Dk 41.20.Jb **61.46.Fg** 61.43.Gt 07.20.Dh 61.46.Bc
 61.72.Cc 42.25.Ja 52.80.Yr **07.07.Df** 52.77.Dq 52.77.-j 07.20.Fw 06.20.Jr 42.82.Cr 42.60.Da 42.79.Wc 07.79.Sp
 07.55.Ge 06.20.fb 42.70.-a 42.25.Hz 07.57.-c 07.57.Ty

articleevolution™ 8



1. Figure Browser

Article 상의 모든 이미지들을 움직이면서 브라우징을 가능하게 함



2. Article Navigator

현재 보고 있는 저널과 관련된 다른 Article 및 논문에 관심 있는 다른 사용자들이 읽은 논문 확인 가능



3. Share Links

소셜네트워크에 Article 공유 및 웹 책갈피로 공유 가능



4. Figure Browser

Article 상에 있는 수학기호가 Screen 출력 시 읽기 편하도록 Browsing 제공

Article Evolution / of IOPscience Extra (2)

articleevolution™ 8



5. Mobile View

데스크 탑을 통해 보는 것과 동일하게 모바일을 통해서도 Article View 가능

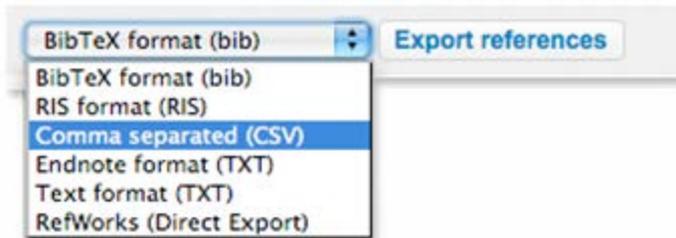
상단의 QR 코드를 스캔을 통해 자동으로 Article View 로 이동



6. References and Citations

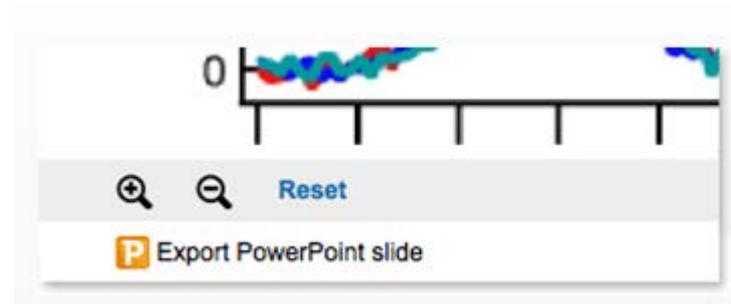
Article 상의 왼쪽에 보여지는 References 탭을 통하여 Reference 자료와 Citations 로 Access 가능

articleevolution™ 8



7. Improved export options

Content 추출이 쉽고 간단해 짐으로써
나중에 content 다시 찾는데 더욱 편리함



8. Image tools — zoom and export for PowerPoint

이미지 줌인 줌아웃 기능이 가능하며, 발표자들을 위한
Powerpoint 슬라이드로 추출도 가능함

The screenshot displays the 'My IOPscience' user interface. At the top, there is a navigation bar with the 'IOPscience' logo, a 'Journals' dropdown menu, a search input field, and buttons for 'Search' and 'Advanced search'. Below the navigation bar, the main heading 'My IOPscience' is followed by a brief introduction. A section titled 'My IOPscience article tags' (marked with a circled 'A') shows a tag 'blackhole nanotechnology' with a 'manage' link. Below this, a row of navigation buttons includes 'Tagged Articles' (marked with a circled 'B'), 'My Searches', 'My Alerts', 'Downloads', and 'Order History'. A light blue box contains instructions: '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.' Below this, three article entries are listed, each with a title and a 'Date last tagged' timestamp. The first article is 'A survey on locking of bipartite correlations' (tagged 20/10/2009 03:30:49). The second is 'Black-hole quasinormal modes and scalar glueballs in a finite-temperature' (tagged 18/12/2009 01:49:09). The third is 'Size effects in the structural phase transition of VO₂ nanoparticles studied by surface-enhanced Raman scattering' (tagged 19/10/2009 12:46:54). To the right of the third article, there are 'Tags: nanotechnology' and a 'Clear' button with a trash icon. At the bottom, there are two buttons: 'Your last 10 viewed' and 'Your last 10 searches'.

A. 태깅했던 Article List 제공

B. 저장했던 검색 식, e-mail alerts list, 다운로드했던 Article list 제공

App – IOPscience express



사용가능 기기 :
iPhone, iPod touch , iPad

관련 정보 : <http://iopscience.iop.org/page/express>

특징	세부사항
Browse	IOPscience 어플을 통해 최근에 출판된 IOP 출판사 article 을 특정 저널 또는 주제별로 선택하여 보기 가능
Search	최근 2년 내에 출판된 IOP 출판사 콘텐츠 검색 가능. 키워드로 검색 가능. 이전에 검색했던 항목들은 다음 검색 시 빠른 전환되도록 저장됨.
Explore	저자 또는 저널명으로 article 이 리스트되어 있음. 나열된 Article List 에서 해당 article 을 클릭 시 Full citation 과 초록 자료, full text 를 PDF 포맷으로 확인 가능
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E-mail	특정 관심 있는 article의 세부사항을 본인 또는 주변인에게 이메일로 보낸 후 데스크탑 컴퓨터에서 확인 가능 이메일을 통해 초록이 나온 화면 링크를 전달 할 수 있으며, IP 인증이 된 IOP 구독기관에서 링크를 열면 full-text Access 가능

IOPscience 어플은 최근 2년동안 출판된 IOP 의 40 여종의 저널들의 article 보기 또는 다운로드를 지원함으로 2010년 PROSE 어워드를 시상했습니다.

Thank you!

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