

# Queen Mary, University of London Library

## Web Search and Databases

BUPT/QMUL International Joint Degree Programmes - BSc (Eng)



## Learning Targets

- Understanding when and how to use different web based search tools
- Get familiarity with databases as ACM Digital Library, IEEE Xplore and Web of Science.
- Troubleshooting your results to capture the most high-quality material



# Search tools: Web Search and databases

In year 2000 roughly 550 billion individual documents existed online.

From: Bergman JK. **White paper: the deep web : surfacing hidden value.** J Electron Publ. [internet]. 2001 [cited in 8 July 2015]; 7(1). Available at: DOI: <http://dx.doi.org/10.3998/3336451.0007.104>

How many of these were discoverable through search engines like Altavista or Google?

# Web Search

While doing a web search it is possible to discover a huge amount of information, but there is no quality control, so take extra care to evaluate Web search results

Much online information is not indexed by search engines (the Hidden or Deep Web). E.g. the contents on library catalogues and online databases such as Web of Science.

# Web Search

Google is synonymous with Web search in the English speaking world - 86% market share as of August 2012.\*

Even though Google dominates the market, there are many search engines such as Baidu, and they don't all index the same content

- Source: <http://marketshare.hitslink.com/search-engine-market-share.aspx?qprid=4> [accessed 11.09.2012]



## Google or Baidu?

As a Chinese national you might be more familiar with Baidu which offers more or less the same capabilities as Google. What Baidu does not offer in an equal way is **Google Scholar**.

The coverage of material will also be different.

# Google or Baidu

<http://www.google.com/> or <http://www.baidu.com/>

## Questions you may want to consider:



- What is / isn't indexed?
- How up to date is the indexing?
- Will the results differ depending on where you are, if you are logged in, etc?
- Are there any privacy issues?



# Google Scholar

<http://scholar.google.com/>

Only indexes **peer reviewed, academic literature** such as patents, conference proceedings, journal articles and theses.

However, still only a **small proportion** of literature indexed (depending on subject), and the issues highlighted previously also apply, in addition to limited sorting / refining of results

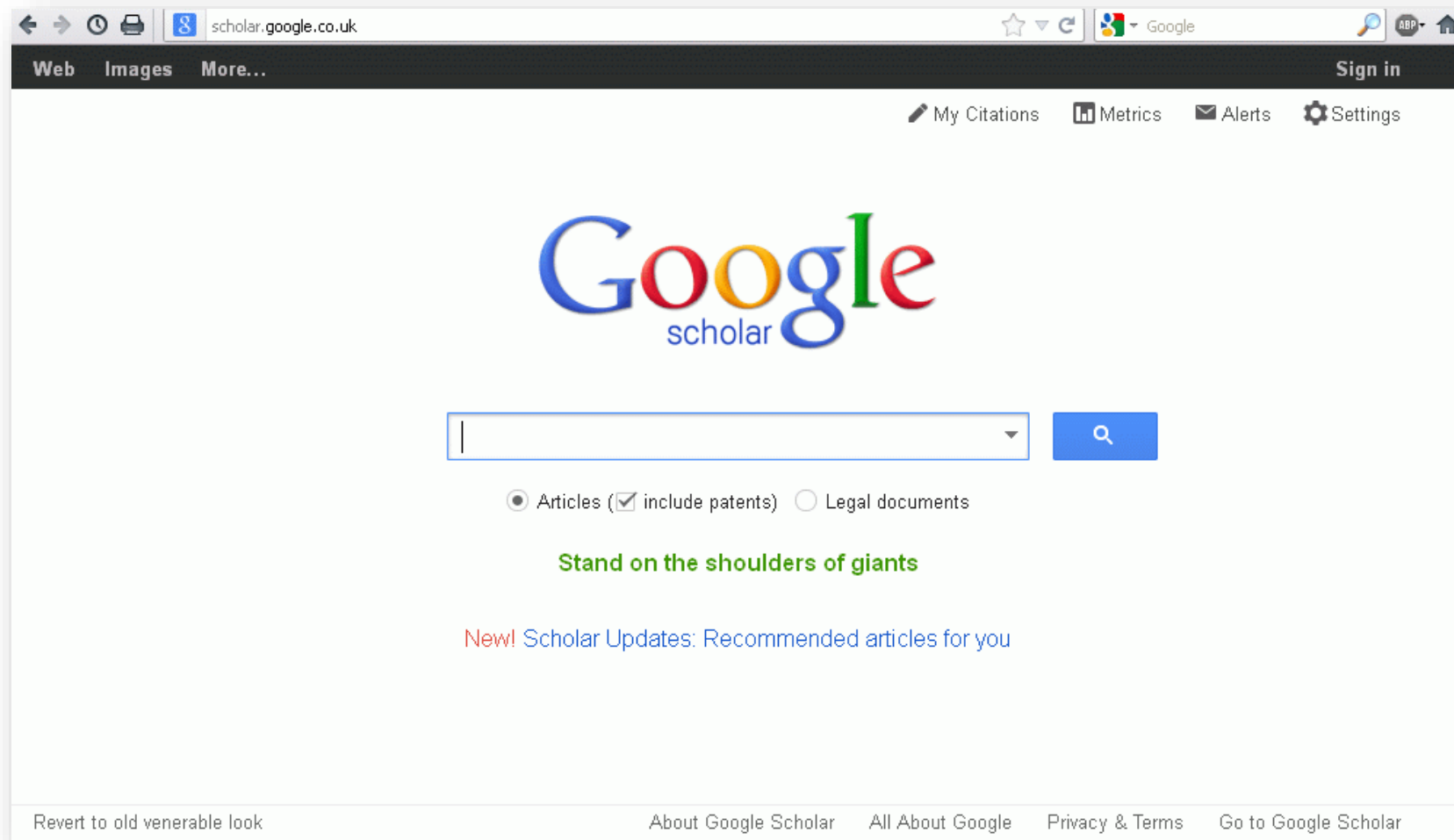
# Using Google Scholar

There are some things we can do to make our use of Scholar *more effective*:

- ***Settings*** (Library SFX links, Endnote citation export, etc)
- ***Advanced search***
- ***Search techniques***
- ***Exporting citations***

<http://scholar.google.com/intl/en/scholar/about.html>

# Google Scholar



# Settings: Library Links

The screenshot shows the Google Scholar 'Scholar Settings' page. At the top, there are navigation links for 'Web', 'Images', and 'More...', along with a 'Sign in' button. The Google logo is prominently displayed. Below the logo, the 'Scholar Settings' section is active, with 'Save' and 'Cancel' buttons. A sidebar on the left lists 'Search results', 'Languages', and 'Library links', with 'Library links' being the selected option. The main content area is titled 'Show library access links for (choose up to five libraries):'. It features a search input field containing 'queen mary' and a search button. Below the input, there is a note: 'e.g., Harvard'. Two library options are listed with checked checkboxes: 'Queen Mary, University of Londo - SFX@QMUL-FULLTEXT' and 'Open WorldCat - Library Search'. A paragraph of text explains that online access to library subscriptions is usually restricted to patrons of that library and provides instructions on how to access them. At the bottom of the settings area, there are 'Save' and 'Cancel' buttons. A note at the bottom right states: 'To retain settings, you must turn on cookies'. The footer contains links for 'About Google Scholar', 'All About Google', 'Privacy & Terms', and 'Give us feedback'.

Web Images More... Sign in

Google

Scholar Settings Save Cancel

Search results

Languages

Library links

Show library access links for (choose up to five libraries):

queen mary

e.g., Harvard

Queen Mary, University of Londo - SFX@QMUL-FULLTEXT

Open WorldCat - Library Search

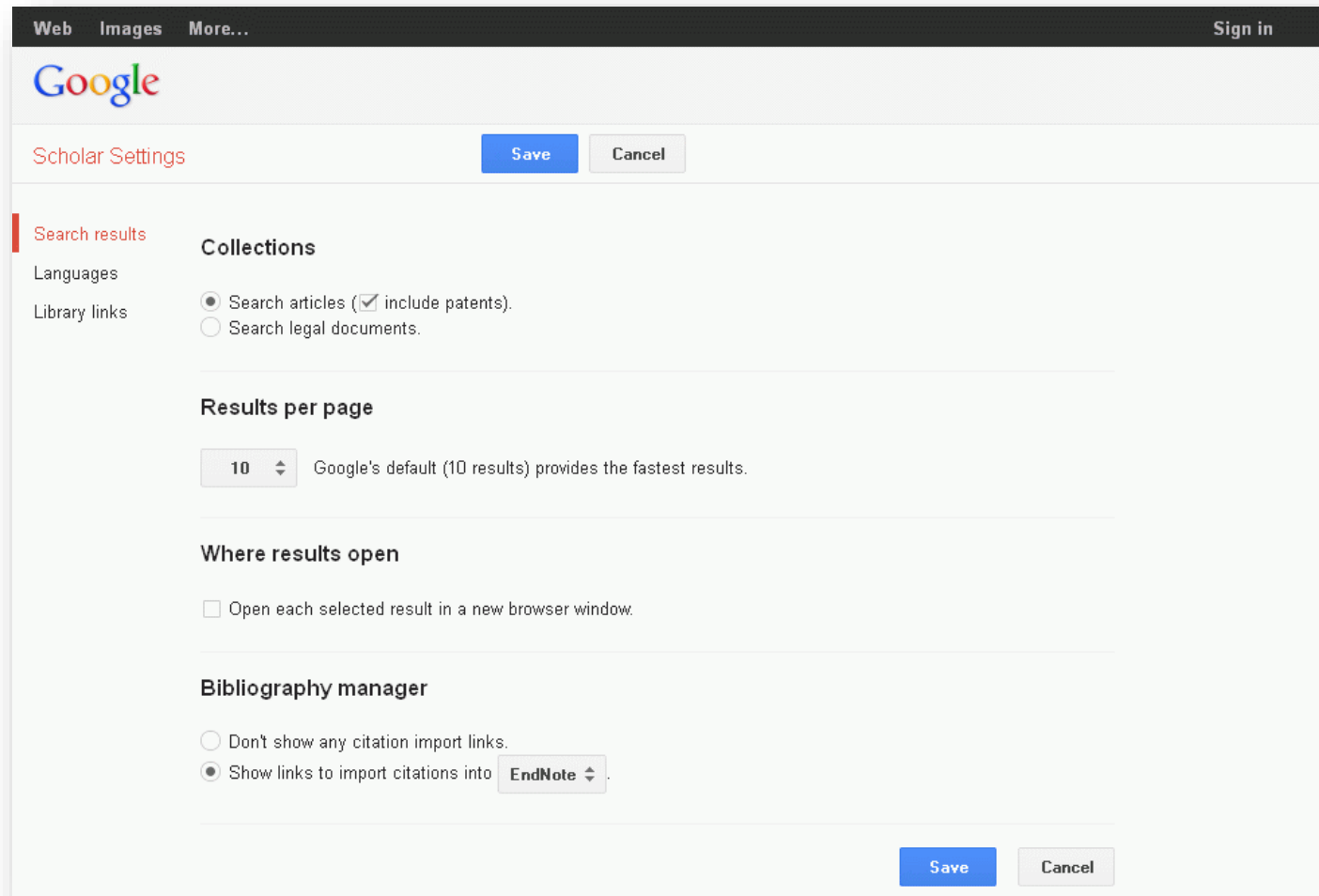
Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

Save Cancel

To retain settings, you must turn on cookies

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# Settings: Bibliography Manager



The image shows a screenshot of the Google Scholar settings page, specifically the 'Bibliography manager' section. The page has a dark header with 'Web Images More...' on the left and 'Sign in' on the right. Below the header is the Google logo. The main content area is titled 'Scholar Settings' and includes a 'Save' button and a 'Cancel' button. On the left side, there is a sidebar with 'Search results' selected, and other options like 'Languages' and 'Library links'. The 'Bibliography manager' section is currently active and contains the following settings:

- Collections:**
  - Search articles ( include patents).
  - Search legal documents.
- Results per page:**
  - 10 (dropdown menu) Google's default (10 results) provides the fastest results.
- Where results open:**
  - Open each selected result in a new browser window.
- Bibliography manager:**
  - Don't show any citation import links.
  - Show links to import citations into **EndNote** (dropdown menu).

At the bottom right of the settings area, there are 'Save' and 'Cancel' buttons.

# Advanced Search

Web Images More... Sign in

My Citations Metrics Alerts Settings

## Google

**Find articles** ✕

with **all** of the words

with the **exact phrase**

with **at least one** of the words

**without** the words

where my words occur

Return articles **authored by**   
e.g., "PJ Hayes" or McCarthy

Return articles **published in**   
e.g., J Biol Chem or Nature

Return articles **dated** between  —   
e.g., 1996

Revert to old venerable look About Google Scholar All About Google Privacy & Terms Go to Google Scholar

# Results

The screenshot shows a Google Scholar search interface. At the top, there are navigation links for 'Web', 'Images', and 'More...'. The search bar contains the text 'UWB ultra?wideband' and a search button. Below the search bar, it indicates 'About 52,500 results (0.07 sec)' and a 'My Citations' button. The results are listed under the 'Articles' section. Three articles are visible, each with a title, authors, publication details, abstract, and citation information. The first article is 'Ultra-wideband (UWB) bandpass filters using multiple-mode resonator' by L Zhu, S Sun, and W Menzel, published in 'Microwave and Wireless ...' in 2005. The second is 'An ultra-wideband CMOS low noise amplifier for 3-5-GHz UWB system' by CW Kim, MS Kang, PT Anh, and HT Kim, published in 'Solid-State Circuits, ...' in 2005. The third is 'A new ultra-wideband, ultra-short monocycle pulse generator with reduced ringing' by J Han and C Nguyen, published in 'Microwave and Wireless Components ...' in 2002. On the left side, there are filters for 'Any time' (Since 2012, Since 2011, Since 2008, Custom range...), 'Sort by relevance' and 'Sort by date', and checkboxes for 'include patents' and 'include citations'. At the bottom left, there is a 'Create alert' button.

Web Images More... Sign in

Google UWB ultra?wideband

Scholar About 52,500 results (0.07 sec) My Citations

Articles

Legal documents

Any time  
Since 2012  
Since 2011  
Since 2008  
Custom range...

Sort by relevance  
Sort by date

include patents  
 include citations

Create alert

[Ultra-wideband \(UWB\) bandpass filters using multiple-mode resonator](#)  
L Zhu, S Sun, W Menzel - *Microwave and Wireless ...*, 2005 - [ieeexplore.ieee.org](#) uni-ulm.de [PDF] SFX@QMUL-FULLTEXT

Abstract A novel microstrip-line **ultra-wideband (UWB)** bandpass filter is proposed and implemented using a multiple-mode resonator (MMR), aiming at transmitting the signals in the whole **UWB** passband of 3.1-10.6 GHz. In the design, the first three resonant ...  
Cited by 437 Related articles Library Search BL Direct All 8 versions Import into EndNote

[An ultra-wideband CMOS low noise amplifier for 3-5-GHz UWB system](#)  
CW Kim, MS Kang, PT Anh, HT Kim... - *Solid-State Circuits, ...*, 2005 - [ieeexplore.ieee.org](#) ncue.edu.tw [PDF] SFX@QMUL-FULLTEXT

Abstract An **ultra-wideband (UWB)** CMOS low noise amplifier (LNA) topology that combines a narrowband LNA with a resistive shunt-feedback is proposed. The resistive shunt-feedback provides **wideband** input matching with small noise figure (NF) degradation by ...  
Cited by 331 Related articles All 12 versions Import into EndNote

[A new ultra-wideband, ultra-short monocycle pulse generator with reduced ringing](#)  
J Han, C Nguyen - *Microwave and Wireless Components ...*, 2002 - [ieeexplore.ieee.org](#) usf.edu [PDF] SFX@QMUL-FULLTEXT

... I. INTRODUCTION **ULTRA-WIDEBAND (UWB)**, **ultra**-short pulse generation—usually in the range of subnanoseconds—is a main issue in **UWB** radar and communications systems. In these systems, **UWB** pulses are needed not only for transmitters, but also for receivers. ...  
Cited by 196 Related articles BL Direct All 9 versions Import into EndNote



Can this be considered a database?





# Databases

**Definition:** bibliographic indexes of high quality, evaluated literature such as peer reviewed journal articles and conference proceedings

**Use:** to carry out systematic literature searches

Different types of databases:

- **Bibliographic Indexing & Abstracting** (e.g. Web of Science) / **Full text** (e.g. IEEE Xplore)
- **Domain-specific** (e.g. IEEE Xplore) / **interdisciplinary** (e.g. Web of Science)



QMUL subscribes to many databases and searchable full text collections of relevance to BUPT/QM JP students, see:

<http://www.library.qmul.ac.uk/subject/eecs/databases>

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## DATABASES

Databases are excellent sources of good quality information. Below are a range of databases relevant to Electronic Engineering and Computer Science.

- [ACM Digital Library](#): the full-text of every article published by the [Association for Computing Machinery](#). A [Video tutorial](#) is available.
- [AES E-Library](#): the full-text of [Audio Engineering Society](#) publications (1950-).
- [IEEE Xplore Digital Library](#): full-text collection of all journals and conference proceedings published by the [IEEE](#) and [IET](#) since 1988 (some earlier material), as well as current IEEE standards and Wiley-IEEE e-books. [IEEE Xplore Mobile](#) is now available. See online [tutorials](#).
- [Scopus](#): Multi-disciplinary database containing the citations and abstracts of peer-reviewed literature. This database lists the number of times a work has been cited in other works and provides direct links to the abstracts of citing works. Access to full-text subscription content where available at QMUL Library via the "library- check full text" button.
- [Web of Science](#): Multi-disciplinary database containing the citations and abstracts of peer-reviewed literature. This database lists the number of times a work has been cited in other works and provides direct links to the abstracts of citing works. Access to full-text subscription content where available at QMUL Library via the "library- check full text" button.

Other useful databases:

# IEEE Xplore Digital Library

- IEEE/IET Electronic Library (**IEL**)
- Huge full text collection of **journals, conferences** and **standards** published since 1988 (as well as some older publications)
- Published by the *Institute of Electrical and Electronics Engineers (IEEE)* and the *Institution of Engineering and Technology (IET)*
- Also, **Wiley-IEEE e-books** (about 600 titles)

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**For Shibboleth or Corporate users, find your institution's listing below.**

**Browse Institutions**

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**OR... SEARCH BY INSTITUTION NAME**  
Enter the name of your institution.

Can't find your institution? Your institution may not be enabled for this type of authentication. Please contact your administrator for assistance or [register your institution with IEEE](#).

Already registered but not listed? Please [contact Online Support](#).

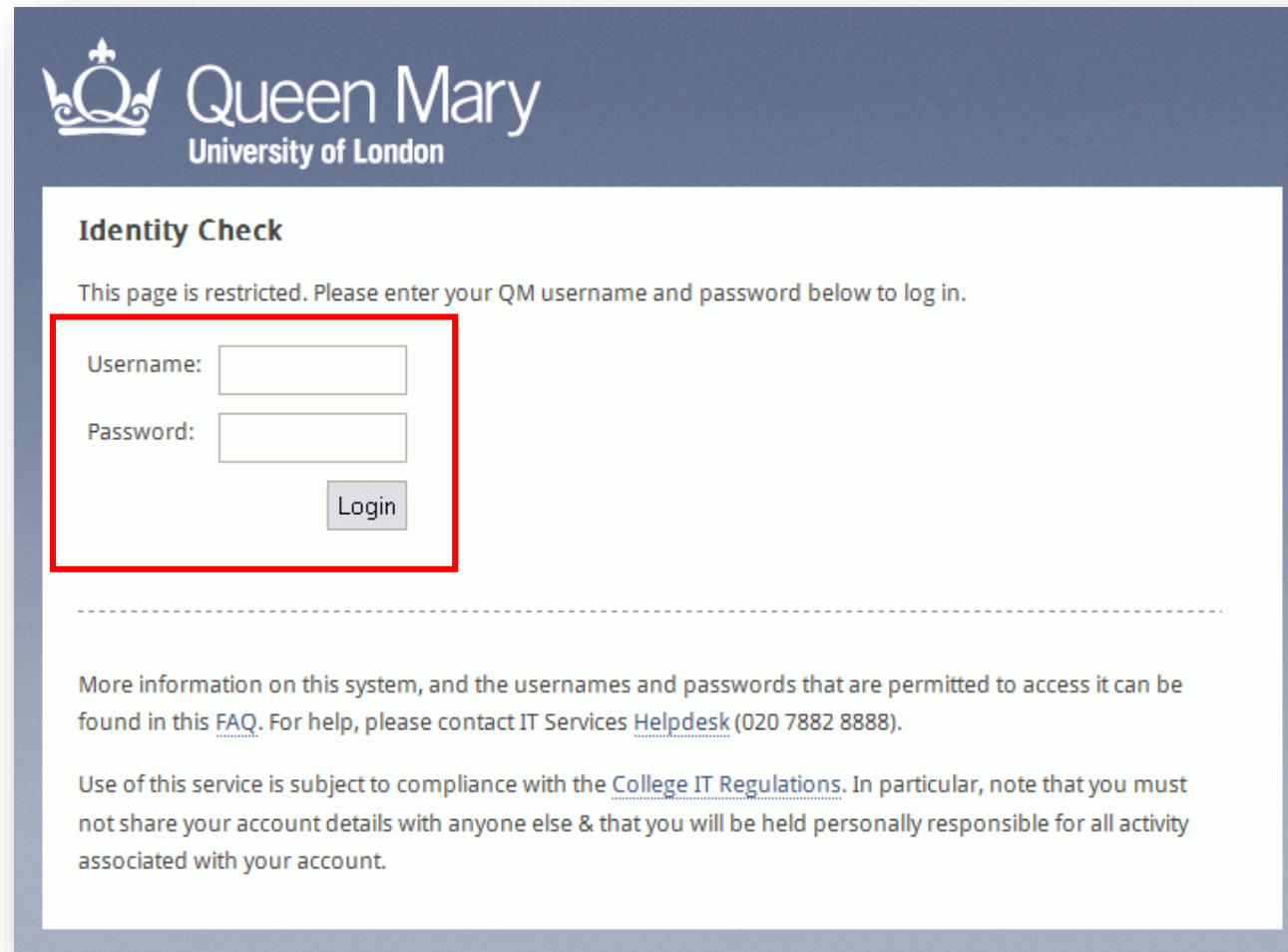
Please note: If you want to save searches or use IEEE Xplore alerting services, you still need to register for an IEEE Account.


[Learn more about Athens and Shibboleth.](#)

**1 Results Returned in queen mary**

**Queen Mary, University of London (Shibboleth)**

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 Queen Mary  
University of London

### Identity Check

This page is restricted. Please enter your QM username and password below to log in.

Username:

Password:

Login

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More information on this system, and the usernames and passwords that are permitted to access it can be found in this [FAQ](#). For help, please contact IT Services [Helpdesk](#) (020 7882 8888).

Use of this service is subject to compliance with the [College IT Regulations](#). In particular, note that you must not share your account details with anyone else & that you will be held personally responsible for all activity associated with your account.

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The screenshot shows the IEEE Xplore search interface. At the top left is the IEEE Xplore Digital Library logo. In the center, there is a box for Queen Mary University of London Library Services, with the text 'Access provided by: Queen Mary University of London' and a 'Sign Out' link. The IEEE logo is on the top right. Below these is a navigation bar with 'BROWSE', 'MY SETTINGS', 'GET HELP', and 'WHAT CAN I ACCESS?'. A search bar contains the text 'distributed applications' and a 'Search' button. Below the search bar are tabs for 'Basic Search', 'Author Search', 'Publication Search', 'Advanced Search', and 'Other Search Options'. The 'Browse Journals & Magazines' section is visible, with tabs for 'By Title', 'By Topic', and 'Virtual Journals'. A 'Search by keywords' field and a 'Sign Up for Alerts' button are also present. At the bottom, there is a 'Browse Titles' section with a list of letters from A to Z, 0-9, and 'All'.



# IEEE Xplore – Advanced Search

## Advanced Search Options

Advanced Keyword/Phrases | Command Search | Citation Search | Preferences

**ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS**  
Note: Refresh page to reflect updated preferences.

Search :  Metadata Only  Full Text & Metadata

"distributed applications" in **Metadata Only**

**AND** in Metadata Only

**AND** in Metadata Only

+ Add New Line | Reset All | **SEARCH**

**CONTENT FILTER**

- All Results
- My Subscribed Content
- Open Access

**PUBLISHER**

Return Results from

<input type="checkbox"/> IEEE(3,538,437)	<input type="checkbox"/> IBM(6,308)
<input type="checkbox"/> IET(220,149)	<input type="checkbox"/> BIAI(2,823)

# IEEE Xplore - Results

Displaying results 1-25 of 72,728 for **distributed applications** ×

Show  | Per Page  | Sort By

Select All on Page | [Download Citations](#) | [Export to IEEE Collabratec](#) | [Set Search Alerts](#) | [Search History](#)

**Refine results by** ?

**Content Type** ^

- Conference Publications (61,091)
- Journals & Magazines (10,954)
- Early Access Articles (339)
- Books & eBooks (267)
- Standards (72)
- Courses (4)

**Year** ^

**Critical perspectives on large-scale distributed applications and production Grids** 🔒

Jha, S.; Katz, D.S.; Parashar, M.; Rana, O.; Weissman, J.  
Grid Computing, 2009 10th IEEE/ACM International Conference on  
Year: 2009  
Pages: 1 - 8, DOI: 10.1109/GRID.2009.5353064  
Cited by: Papers (1)  
**IEEE Conference Publications**

**A Facility Framework for Distributed Application** 🔒

Qingti Guo; Smidts, C.  
Advanced Information Networking and Applications (WAINA), 2011 IEEE  
Workshops of International Conference on  
Year: 2011  
Pages: 459 - 466, DOI: 10.1109/WAINA.2011.146  
Cited by: Papers (1)  
**IEEE Conference Publications**

**Standards Dictionary Terms** ?

- pdu
- protocol
- iso
- node
- utc
- octet
- lsb
- msb
- sa
- simulation application
- entity
- network management
- protocol data unit (pdu)
- si

# IEEE Xplore - Reference

Browse Conference Publications > Grid Computing, 2009 10th IEEE ...

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## Critical perspectives on large-scale distributed applications and production Grids

 Full Text as PDF

 Full Text in HTML

5 Author(s)  
Jha, S. ; Katz, D.S. ; Parashar, M. ; Rana, O.  
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It is generally accepted that the ability to develop large-scale **distributed applications** that are extensible and independent of infrastructure details has lagged seriously behind other developments in cyberinfrastructure. As the sophistication and scale of **distributed** infrastructure increases, the complexity of successfully developing and deploying **distributed applications** increases both quantitatively and in qualitatively newer ways. In this paper we trace the evolution of a representative set of **state-of-the-art** **distributed applications** and production infrastructure; in doing so we aim to provide insight into the evolving sophistication of **distributed applications** - from simple generalizations of legacy static high-performance to **applications** composed of multiple loosely-coupled and dynamic components. The ultimate aim of this work is to highlight that even accounting for the fact that developing **applications** for **distributed** infrastructure is a difficult undertaking, there are suspiciously few novel and interesting **distributed applications** that utilize production Grid infrastructure. Along the way, we aim to provide an appreciation for the fact that developing **distributed applications** and the theory and practice of production Grid infrastructure have often not progressed in phase. Progress in the next

# ACM Digital Library

- **ACM DL** - Published by the *Association for Computing Machinery* (USA) - software and hardware related literature
- Includes every periodical paper and conference published by the ACM since 1954
- **ACM Guide to Computing Literature** - index of 1.5 million+ citations of material published by major publishers of computing literature

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Where   of the following words or phrases:


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Searched for (+*"distributed applications"*) [new search] [edit/save query]

[advanced search]

Searched within  ACM Publications: 378,467 records [Expand your search to the ACM Guide to Computing Literature: 2,447,848 records] ?

955 results found

Export Results: bibtex | endnote | acmref | csv

## Refine by People

Names ▶  
Institutions ▶  
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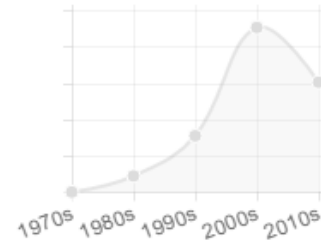
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Published Since 1979



Result 1 – 20 of 955

Result page: 1 2 3 4 5 6 7 8 9 10 >>

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### 1 [Data-intensive CyberShake computations on an opportunistic cyberinfrastructure](#)

[Allan Espinosa](#), [Daniel S. Katz](#), [Michael Wilde](#), [Ketan Maheshwari](#), [Ian Foster](#), [Scott Callaghan](#), [Phillip Maechling](#)

July 2011 TG '11: Proceedings of the 2011 TeraGrid Conference: Extreme Digital Discovery

**Publisher:** ACM

**Bibliometrics:** Citation Count: 1  
Downloads (6 Weeks): 2, Downloads (12 Months): 5, Downloads (Overall): 48

Full text available:  PDF

This abstract describes the aggregation of TeraGrid and Open Science Grid to run the SCEC CyberShake application faster than on TeraGrid alone. Because the resources are distributed and data movement is required to use more than one resource, a careful analysis of the cost of data movement vs. the benefits ...

**Keywords:** cyberinfrastructures, distributed applications

[\[result highlights\]](#)


### 2 [Introduction to CORBA \(tutorial session\)](#)

[Steve Vinoski](#)

May 2000 ICSE '00: Proceedings of the 22nd international conference on Software engineering

**Publisher:** ACM

**Bibliometrics:** Citation Count: 1  
Downloads (6 Weeks): 5, Downloads (12 Months): 20, Downloads (Overall): 767

Full text available:  PDF

This tutorial provides the basics that developers need to begin understanding the Common Object Request Broker Architecture (CORBA) and using it to write industrial-strength distributed systems. You will learn about the basics of the Object Management Group's (OMG) Object Management Architecture (OMA), with a focus on its CORBA component. By ...

# ACM DL - Reference

## Data-intensive CyberShake computations on an opportunistic cyberinfrastructure

**Full Text:**  PDF

Authors: [Allan Espinosa](#) [University of Chicago, Chicago, IL](#)  
[Daniel S. Katz](#) [University of Chicago & Argonne National Laboratory, Chicago, IL](#)  
[Michael Wilde](#) [University of Chicago & Argonne National Laboratory, Chicago, IL](#)  
[Ketan Maheshwari](#) [University of Chicago & Argonne National Laboratory, Chicago, IL](#)  
[Ian Foster](#) [University of Chicago, Chicago, IL and University of Chicago & Argonne National Laboratory, Chicago, IL](#)  
[Scott Callaghan](#) [University of Southern California, Los Angeles, CA](#)  
[Phillip Maechling](#) [University of Southern California, Los Angeles, CA](#)

Published in:  
· Proceeding  
[TG '11 Proceedings of the 2011 TeraGrid Conference: Extreme Digital Discovery](#)  
Article No. 14  
ACM New York, NY, USA ©2011  
[table of contents](#) ISBN: 978-1-4503-0888-5 doi> [10.1145/2016741.2016757](#)

 2011 Article

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· Downloads (cumulative): 49  
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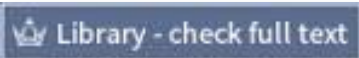
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**Abstract** **Authors** **References** **Cited By** **Index Terms** **Publication** **Reviews** **Comments** **Table of Contents**

This abstract describes the aggregation of TeraGrid and Open Science Grid to run the SCEC CyberShake application faster than on TeraGrid alone. Because the resources are distributed and data movement is required to use more than one resource, a careful analysis of the cost of data movement vs. the benefits of distributed computation has been done in order to best distribute the work across the resources.



# Web of Knowledge


- **Indexing & Abstracting (I&A)** databases of peer-reviewed academic literature such as *journal articles* and *conference proceedings*
- **Web of Science** – a major multidisciplinary search tool comprising five indexes, inc.:
  - *Science Citation Index* (1970-)
  - *Conference Proceedings Citation Index – Science* (1990-)
- No full text – use  icons to check access

# Web of Knowledge

- **Citation Searching** – track citations backwards and forwards in time, to see not only which papers have been cited, but also which papers have subsequently cited the paper
- **Journal Citation Reports** – impact factors
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# Login Procedure [1]

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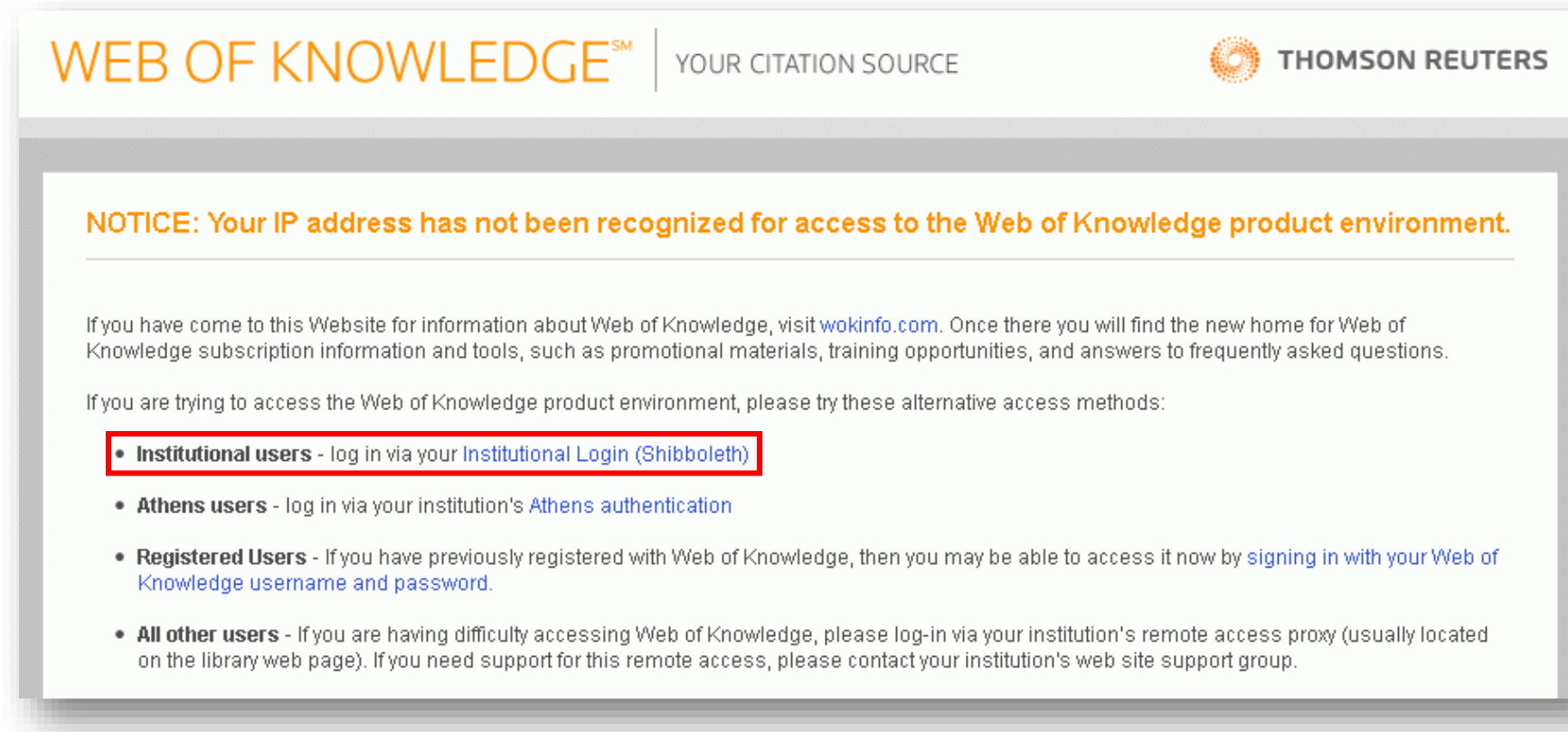
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- **Registered Users** - If you have previously registered with Web of Knowledge, then you may be able to access it now by [signing in with your Web of Knowledge username and password](#).
- **All other users** - If you are having difficulty accessing Web of Knowledge, please log-in via your institution's remote access proxy (usually located on the library web page). If you need support for this remote access, please contact your institution's web site support group.

# Login Procedure [3]

WEB OF KNOWLEDGE<sup>SM</sup> | YOUR CITATION SOURCE  THOMSON REUTERS

**Institutional Access (Shibboleth)**

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# Login Procedure [4]

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**WEB OF KNOWLEDGE<sup>SM</sup>**

Explore literature in the sciences, social sciences, arts and humanities and publish bibliographies.

Which organisation would you like to sign in with?

Start typing the name of your organisation (e.g. Anywhere College) in the search box, and options will appear below:

queen mary

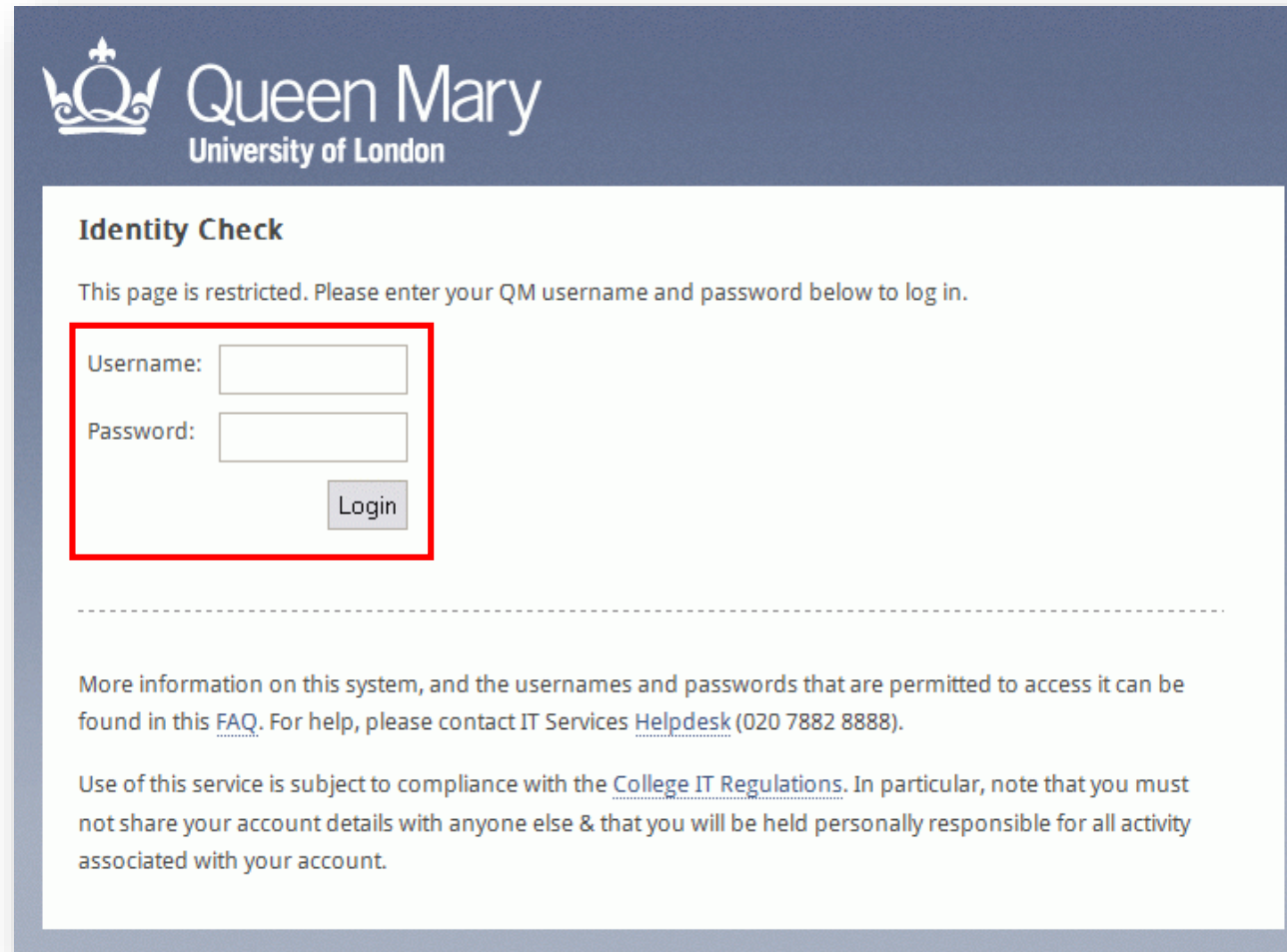
**Queen Mary's** College, Basingstoke


**Queen Mary**, University of London [Sign In](#)

[Sign in to Queen Mary, University of London](#)

The UK Access Management Federation  
[Accessibility statement](#)

# Login Procedure [5]



 Queen Mary  
University of London

### Identity Check

This page is restricted. Please enter your QM username and password below to log in.

Username:

Password:


Login



---

More information on this system, and the usernames and passwords that are permitted to access it can be found in this [FAQ](#). For help, please contact IT Services [Helpdesk](#) (020 7882 8888).


Use of this service is subject to compliance with the [College IT Regulations](#). In particular, note that you must not share your account details with anyone else & that you will be held personally responsible for all activity associated with your account.



# Web of Science - Search




WEB OF SCIENCE™  THOMSON REUTERS™

Search All Databases  My Tools  Search History Marked List

Welcome to the new Web of Science! [View a brief tutorial.](#)


Basic Search 



stellar dynamics  Topic 


AND  Example: oil spill\* mediterranean  Topic  [Click here for tips to improve your search.](#)

[+ Add Another Field](#) | [Reset Form](#) [Search](#)

**TIMESPAN**

All years 

From 1950  to 2015 

 MORE SETTINGS



# Web of Science - Results

**WEB OF SCIENCE™** THOMSON REUTERS™

**Search** My Tools Search History Marked List

**Results: 10,387**  
(from All Databases)  
(Number of results is approximate)

You searched for: TOPIC: (stellar dynamics) ...More

Sort by: **Publication Date -- newest to oldest** Page 1 of 1,039

Select Page Save to EndNote online Add to Marked List Citation Report feature not available. [?]

**Refine Results**

Search within results for...

**Databases**

**Research Domains**

- SCIENCE TECHNOLOGY
- SOCIAL SCIENCES
- ARTS HUMANITIES

**Refine**

**Research Areas**

- ASTRONOMY ASTROPHYSICS
- PHYSICS
- MATHEMATICS
- SCIENCE TECHNOLOGY OTHER TOPICS
- OPTICS

1. **A wide binary trigger for white dwarf pollution**  
By: Bonsor, Amy; Veras, Dimitri  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 454 Issue: 1 Pages: 53-63  
Published: NOV 21 2015  
Library - check full text View Abstract

2. **Self-consistent triaxial models**  
By: Sanders, Jason L.; Evans, N. Wyn  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 454 Issue: 1 Pages: 299-314  
Published: NOV 21 2015  
Library - check full text View Abstract

3. **The Tully-Fisher and mass-size relations from halo abundance matching**  
By: Desmond, Harry; Wechsler, Risa H.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 454 Issue: 1 Pages: 322-343  
Published: NOV 21 2015  
Library - check full text View Abstract

4. **Knot structures in jets formed by a two-mode ejection velocity time-variability**  
By: Raga, A. C.; Rodriguez-Ramirez, J. C.; Canto, J.; et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 454 Issue: 1 Pages: 412-418  
Published: NOV 21 2015  
Library - check full text View Abstract

5. **The Milky Way system in Lambda cold dark matter cosmological simulations**  
Times Cited: 0

Times Cited: 0 (from All Databases)  
Usage Count

Times Cited: 0 (from All Databases)  
Usage Count

Times Cited: 0 (from All Databases)  
Usage Count

Times Cited: 0 (from All Databases)  
Usage Count

# Web of Science - Reference

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Search [Return to Search Results](#) [My Tools](#) [Search History](#) [Marked List](#)

[Library - check full text](#) [Save to EndNote online](#) [Add to Marked List](#) 1 of approximately 10,387

## A wide binary trigger for white dwarf pollution

By: [Bonsor, A \(Bonsor, Amy\)](#)<sup>[1,2]</sup>; [Veras, D \(Veras, Dimitri\)](#)<sup>[3]</sup>

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY  
Volume: 454 Issue: 1 Pages: 53-63  
DOI: 10.1093/mnras/stv1913  
Published: NOV 21 2015  
[View Journal Information](#)

### Abstract

Metal pollution in white dwarf atmospheres is commonly assumed to be a signature of remnant planetary systems. Most explanations for this pollution predict a sharp decrease in the number of polluted systems with white dwarf cooling age. Observations do not confirm this trend, and metal pollution in old (1-5 Gyr) white dwarfs is difficult to explain. We propose an alternative, time-independent mechanism to produce the white dwarf pollution. The orbit of a wide binary companion can be perturbed by Galactic tides, approaching close to the primary star for the first time after billions of years of evolution on the white dwarf branch. We show that such a close approach perturbs a planetary system orbiting the white dwarf, scattering planetesimals on to star-grazing orbits, in a manner that could pollute the white dwarfs atmosphere. Our estimates find that this mechanism is likely to contribute to metal pollution, alongside other mechanisms, in up to a few per cent of an observed sample of white dwarfs with wide binary companions, independent of white dwarf age. This age independence is the key difference between this wide binary mechanism and others mechanisms suggested in the literature to explain white dwarf pollution. Current observational samples are not large enough to assess whether this mechanism makes a significant contribution to the population of polluted white dwarfs, for which better constraints on the wide binary population are required, such as those that will be obtained in the near future with Gaia.

### Keywords

**Author Keywords:** Oort Cloud; planets and satellites: dynamical evolution and stability; planet-star interactions; stars: AGB and post-AGB; stars: evolution; stars: kinematics and **dynamics**

**KeyWords Plus:** POST-MAIN-SEQUENCE; OORT CLOUD COMETS; **STELLAR** MASS-LOSS; PLANET-PLANET SCATTERING; COMPACT DEBRIS DISKS; GALACTIC TIDAL FIELD; GREAT ESCAPE; STAR SYSTEMS; ORBITAL EVOLUTION; GIANT BRANCH

### Citation Network

0 Times Cited  
113 Cited References  
[View Related Records](#)  
[View Citation Map](#)  
[Create Citation Alert](#)  
*(data from Web of Science™ Core Collection)*

### All Times Cited Counts

0 in All Databases  
0 in Web of Science Core Collection  
0 in BIOSIS Citation Index  
0 in Chinese Science Citation Database  
0 in Data Citation Index  
0 in Russian Science Citation Index  
0 in SciELO Citation Index

### Usage Count

Last 180 Days: 0  
Since 2013: 0  
[Learn more](#)

# Citation Searching

- Check citations, discover who is cited in a paper, and who subsequently cited the paper
- Select **Web of Science** tab, then **Cited Reference Search** option
- Enter Cited Author name and search
- Select View Record links where available

# Citation Searching

Perin, R. (1991). THE SUPERCONDUCTING MAGNET SYSTEM FOR THE LHC. *IEEE Transactions on Magnetics*, 27(2), 1735-1742.

# Citation Searching

The screenshot shows the Web of Science interface for Cited Reference Search. At the top, the 'WEB OF SCIENCE™' logo is on the left and the 'THOMSON REUTERS™' logo is on the right. Below the logos is a navigation bar with 'Search' highlighted in orange, followed by 'All Databases' with a dropdown arrow, 'My Tools' with a dropdown arrow, 'Search History', and 'Marked List'. A welcome message reads: 'Welcome to the new Web of Science! View a brief tutorial.' Below this is a dropdown menu for 'Cited Reference Search' which is highlighted with a red box. The instructions state: 'Find the articles that cite a person's work. Step 1: Enter information about the cited work. Fields are combined with the Boolean AND operator. \* Note: Entering the title, volume, issue, or page in combination with other fields may reduce the number of cited reference variants found.' The search form, also highlighted with a red box, contains three input fields: 'Perin R' in the 'Cited Author' field, 'IEEE Transactions on Magnetics' in the 'Cited Work' field, and '1991' in the 'Cited Year(s)' field. Each input field has a clear button (x) and a dropdown arrow. Below the input fields are links for '+ Add Another Field' and 'Reset Form'. A blue 'Search' button is located to the right of the form. A link for 'View our Cited Reference Search tutorial.' is also present on the right side of the form area.

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Search All Databases

My Tools Search History Marked List

Welcome to the new Web of Science! View a brief tutorial.

**Cited Reference Search**

Find the articles that cite a person's work.

**Step 1:** Enter information about the cited work. Fields are combined with the Boolean AND operator.

\* Note: Entering the title, volume, issue, or page in combination with other fields may reduce the number of cited reference variants found.

Perin R Cited Author

IEEE Transactions on Magnetics Cited Work

View abbreviation list

1991 Cited Year(s)

+ Add Another Field | Reset Form

Search

View our Cited Reference Search tutorial.

# Citation Searching

**Cited Reference Search**

Find the articles that cite a person's work.

**Step 2:** Select cited references and click "Finish Search."

Hint: Look for [cited reference variants](#) (sometimes different pages of the same article are cited or papers are cited incorrectly).

[View our Cited Reference Search tutorial.](#)

CITED REFERENCE INDEX  
References: 1 - 3 of 3

Page 1 of 1

Select Page Select All\* Clear All **Finish Search**

Select	Cited Author	Cited Work [SHOW EXPANDED TITLES]	Year	Volume	Issue	Page	Identifier	Citing Articles**	View Record
<input type="checkbox"/>	HIRABAYASHI, H...PERIN, R + [Show all authors]	IEEE T MAGN	1991	27	2	2004	10.1109/20.133599	6	<a href="#">View Record in Web of Science Core Collection</a>
<input checked="" type="checkbox"/>	PERIN, R	IEEE T MAGN	1991	27	2	1735	10.1109/20.133526	14	<a href="#">View Record in Web of Science Core Collection</a>
<input type="checkbox"/>	TENKATE, HHJ...PERIN, R + [Show all authors]	IEEE T MAGN	1991	27	2	1996	10.1109/20.133597	6	<a href="#">View Record in Web of Science Core Collection</a>
Select	Cited Author	Cited Work	Year	Volume	Issue	Page	Identifier	Citing Articles**	View Record

Select Page Select All\* Clear All **Finish Search**

\* "Select All" adds the first 500 matches to your cited reference search, not all matches.  
\*\* Citing Article counts are for all databases and all years, not just for your current databases and year limits.

CITED REFERENCE INDEX  
References: 1 - 3 of 3

Page 1 of 1

# Citation Searching

The screenshot displays the Web of Science interface. At the top, the 'WEB OF SCIENCE™' logo and 'THOMSON REUTERS™' are visible. Below the header, there are navigation tabs: 'Search', 'Return to Search Results', 'My Tools', 'Search History', and 'Marked List'. A search bar contains the text 'Library - check full text'. To the right of the search bar are icons for a document and an envelope, and buttons for 'Save to EndNote online' and 'Add to Marked List'. The main content area features the title 'ELECTROMAGNETIC AND MECHANICAL DESIGN OF A 56 MM APERTURE MODEL DIPOLE FOR THE LHC' by AHLBACK, J. et al. Below the title, it lists the journal 'IEEE TRANSACTIONS ON MAGNETICS', volume 30, issue 4, pages 1746-1749, published in July 1994. A 'Citation Network' sidebar on the right shows '6 Times Cited' and '6 Cited References', with options to 'View Related Records', 'View Citation Map', and 'Create Citation Alert'. Below this, 'All Times Cited Counts' are listed for various databases, and a 'Usage Count' section shows 'Last 180 Days: 0'.

**WEB OF SCIENCE™** THOMSON REUTERS™

Search Return to Search Results My Tools Search History Marked List

Library - check full text Save to EndNote online Add to Marked List

**ELECTROMAGNETIC AND MECHANICAL DESIGN OF A 56 MM APERTURE MODEL DIPOLE FOR THE LHC**

By: AHLBACK, J (AHLBACK, J); IKAHEIMO, J (IKAHEIMO, J); JARVI, J (JARVI, J); LEROY, D (LEROY, D); OBERLI, L (OBERLI, L); PERIN, R (PERIN, R); PERINI, D (PERINI, D); RUSSENSCHUCK, S (RUSSENSCHUCK, S); SALMINEN, J (SALMINEN, J); SAVELAINEN, M (SAVELAINEN, M)...More

IEEE TRANSACTIONS ON MAGNETICS  
Volume: 30 Issue: 4 Pages: 1746-1749 Part: 2  
DOI: 10.1109/20.305594  
Published: JUL 1994  
[View Journal Information](#)

**Conference**  
Conference: 13th International Congress on Magnet Technology  
Location: VICTORIA CONF CTR, VICTORIA, CANADA  
Date: SEP 20-24, 1993  
Sponsor(s): UNIV VICTORIA; TRIUMF LAB

**Abstract**  
The Large Hadron Collider (LHC) project is proposed as the future extension of the CERN accelerator complex. The LHC requires twin aperture superconducting dipoles of highest possible field to guide the proton beams in the existing LEP tunnel of 26.7 km circumference. This paper describes the electromagnetic and mechanical design of a 56 mm aperture model dipole for the LHC.

**Citation Network**

6 Times Cited  
6 Cited References  
[View Related Records](#)  
[View Citation Map](#)  
[Create Citation Alert](#)  
*(data from Web of Science™ Core Collection)*

**All Times Cited Counts**

6 in All Databases  
6 in Web of Science Core Collection  
0 in BIOSIS Citation Index  
0 in Chinese Science Citation Database  
0 in Data Citation Index  
0 in Russian Science Citation Index  
0 in SciELO Citation Index

**Usage Count**  
Last 180 Days: 0



**TROUBLESHOOTING YOUR RESULTS**



# What to do if you get too many results?

Use more search terms linked with AND between each term



If you wanted to find references about animal cognition especially concerned with environment, type *animal AND cognition AND environment*

# What to do if you get too many results?

Exclude irrelevant subjects by typing NOT before the term you wish to exclude



If you wished to find references about cognition, but not those about environment, you might use *cognition NOT environment*

# What to do if you get too many results?

Use the search fields to limit your results by date range. E.g. if you were looking for the very latest research on a particular subject you could type 2010-2014 in the date field of the search options

Limit your search to particular fields, e.g. enter your search terms in the title field of the search options

# What to do if you get too many results?

If you are using a US database you may need to use either US **spelling** or wildcards such as **?** to replace the letter that is different in each spelling. E.g. to search a US database for *organisations* you could use the US spelling *organizations* or type *organi?ations* into the search box

Include all possible synonyms. Use a thesaurus to find alternative terms that describe the subject you are researching

Use broader search terms

# What to do if you only get a few results?

## *Snowballing*

- If you find even one relevant reference you can use it to help you find others
- Check the references and bibliography at the end of the article for related works
- Many database provide direct links to related articles displayed in these fields

# What to do if you get too few results?

Truncate your terms – add an asterisk \* after the root of the word you are using as a search term. The database will find references that contain all endings of the term you have used



*microscop\** will find references containing the terms *microscope*, *microscopic* and *microscopy*



## How to contact your S&E team?

Email: [library-sande@qmul.ac.uk](mailto:library-sande@qmul.ac.uk)

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S&E Library Daily: <https://paper.li/f-1439469261>