Queen Mary
University of London

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

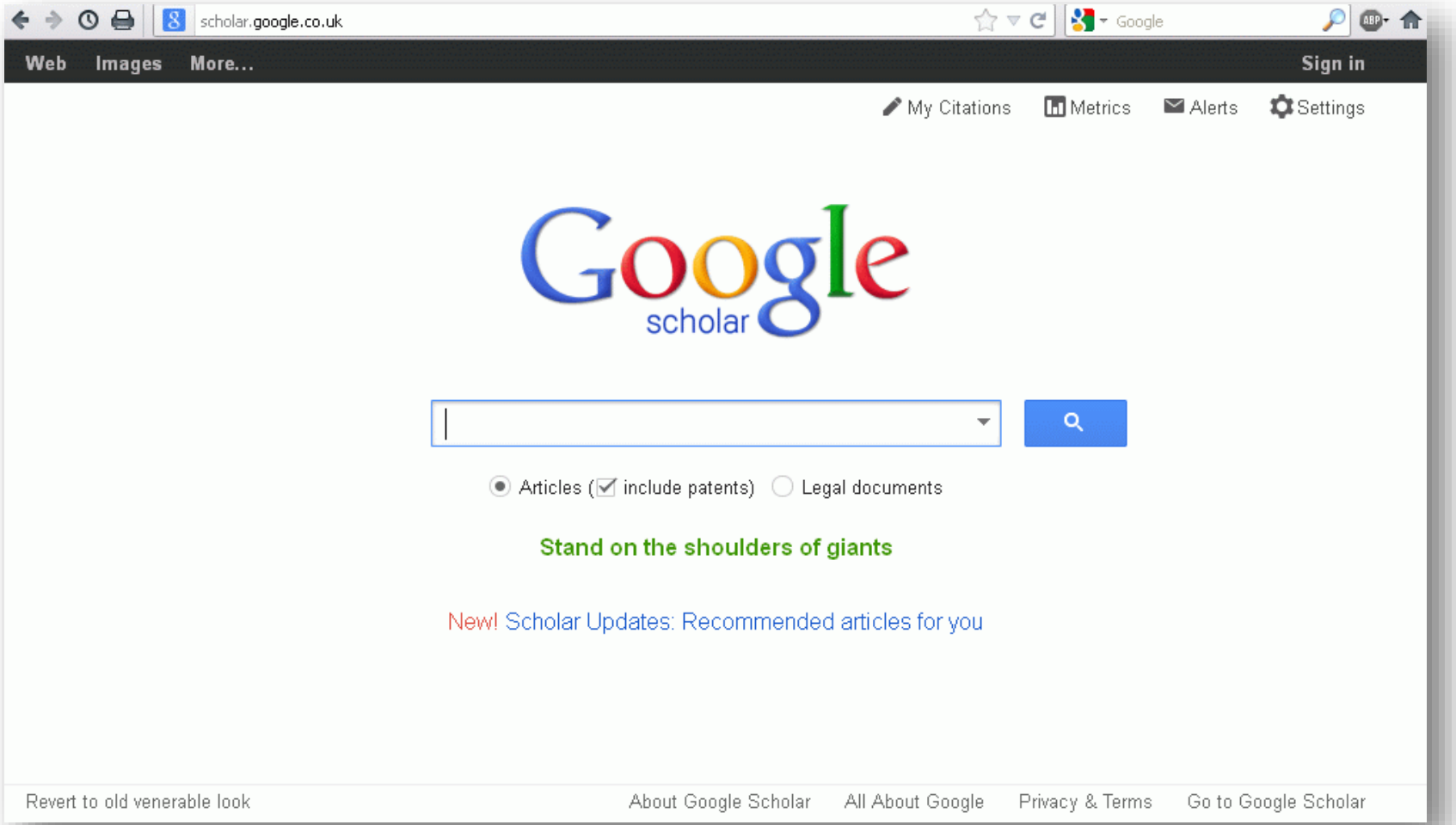
Using Google Scholar

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

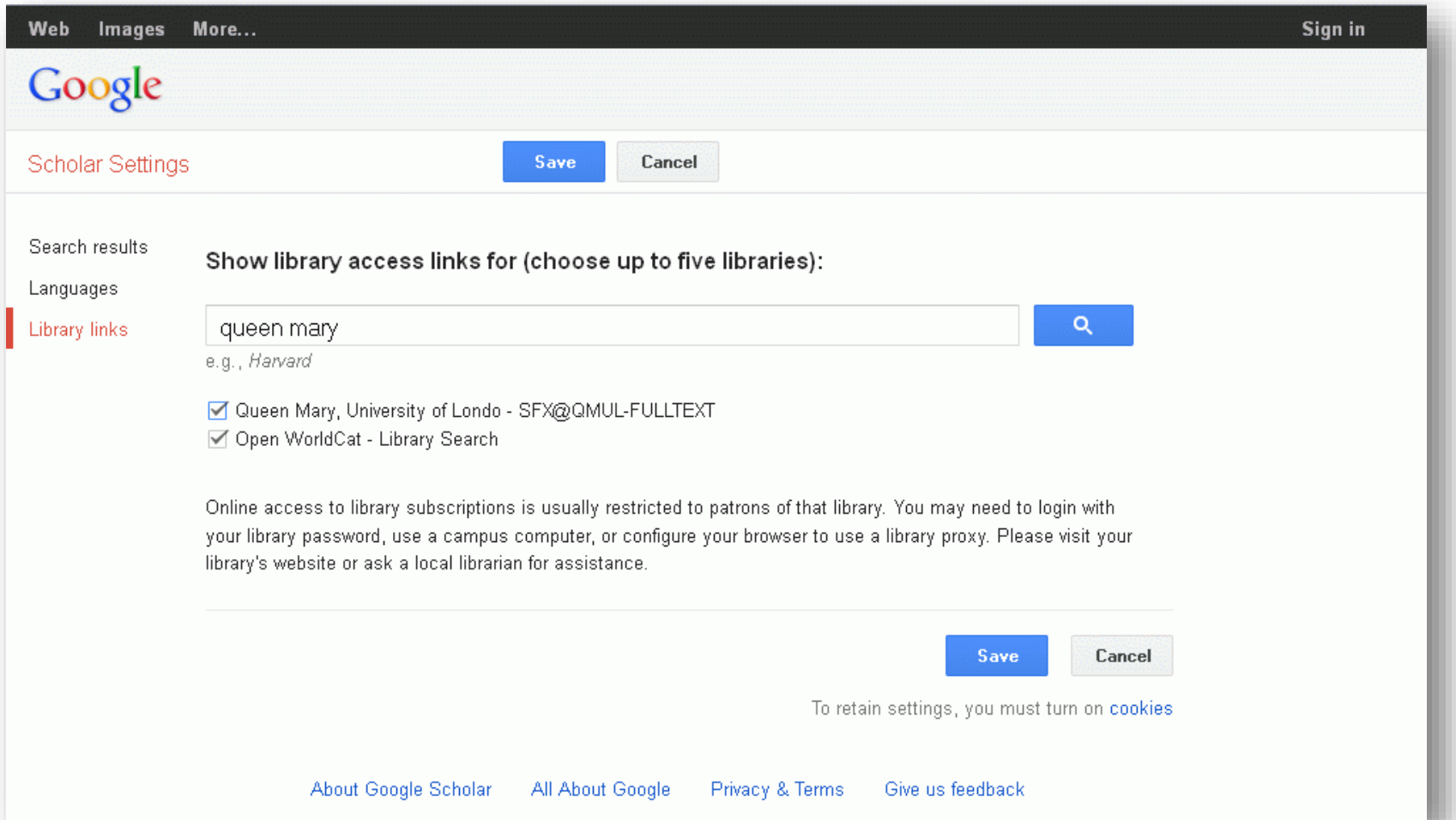
- ***Settings*** (Library SFX links, Endnote citation export, etc)
- ***Advanced search***
- ***Search techniques***
- ***Exporting citations***

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

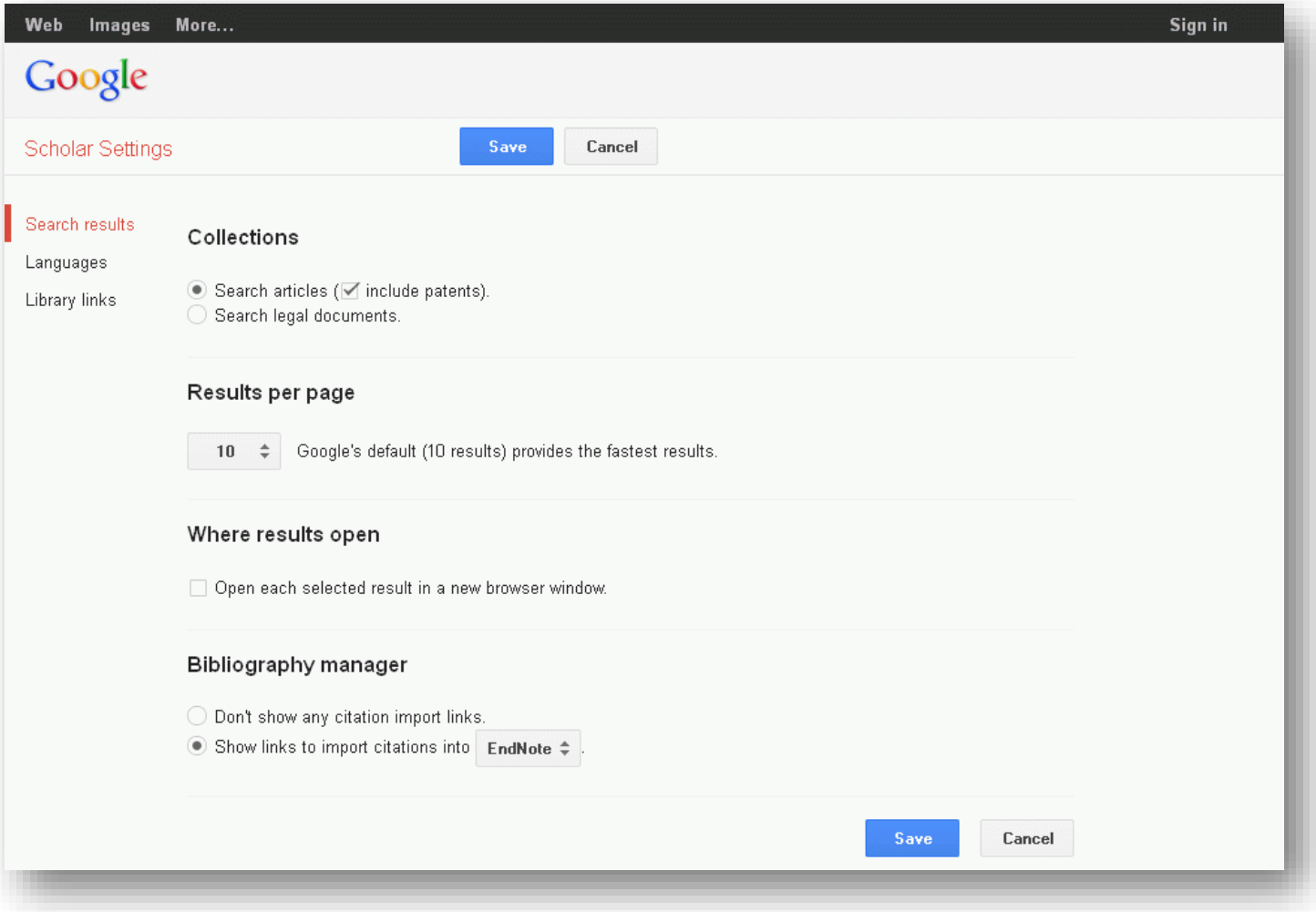
Google Scholar



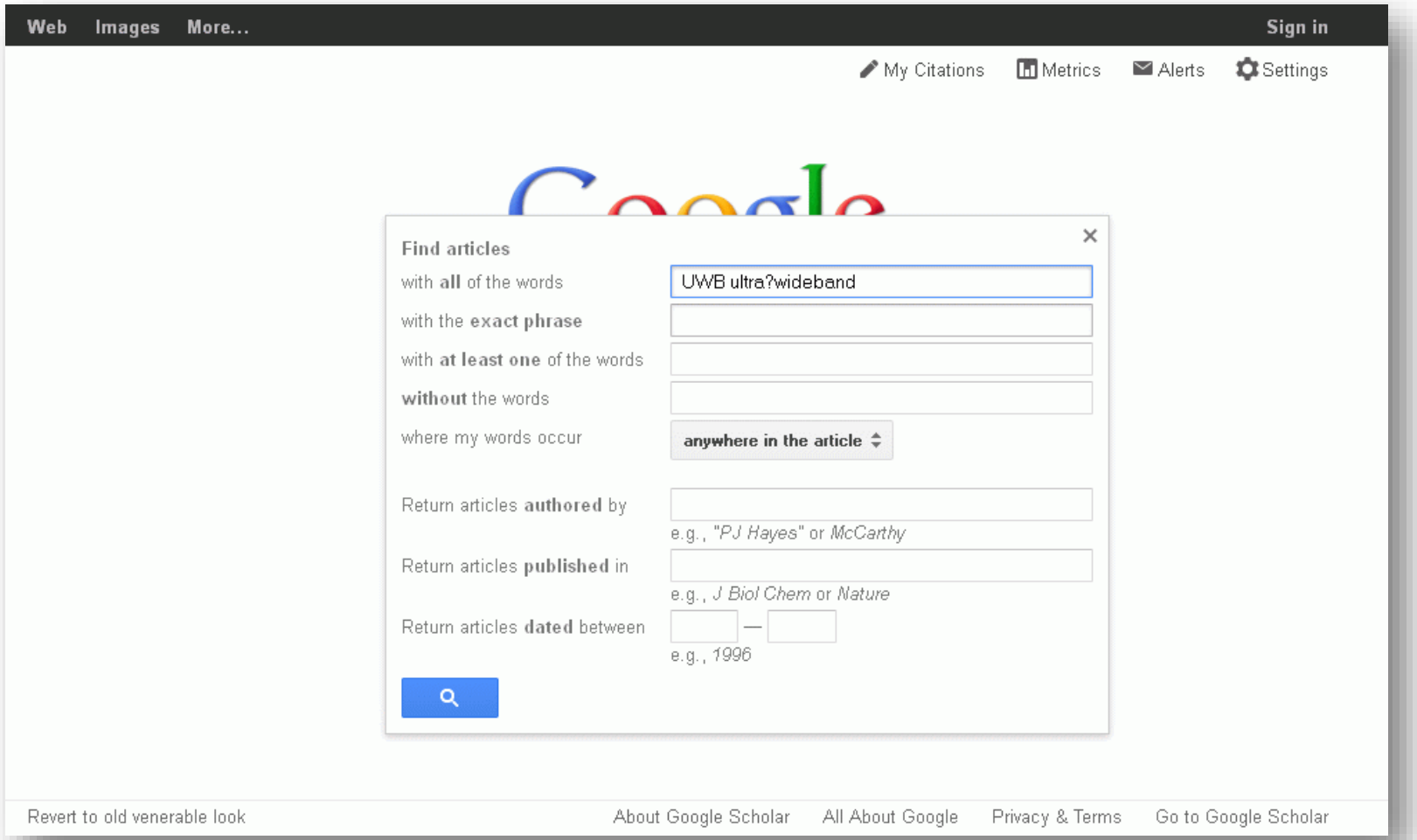
Settings: Library Links



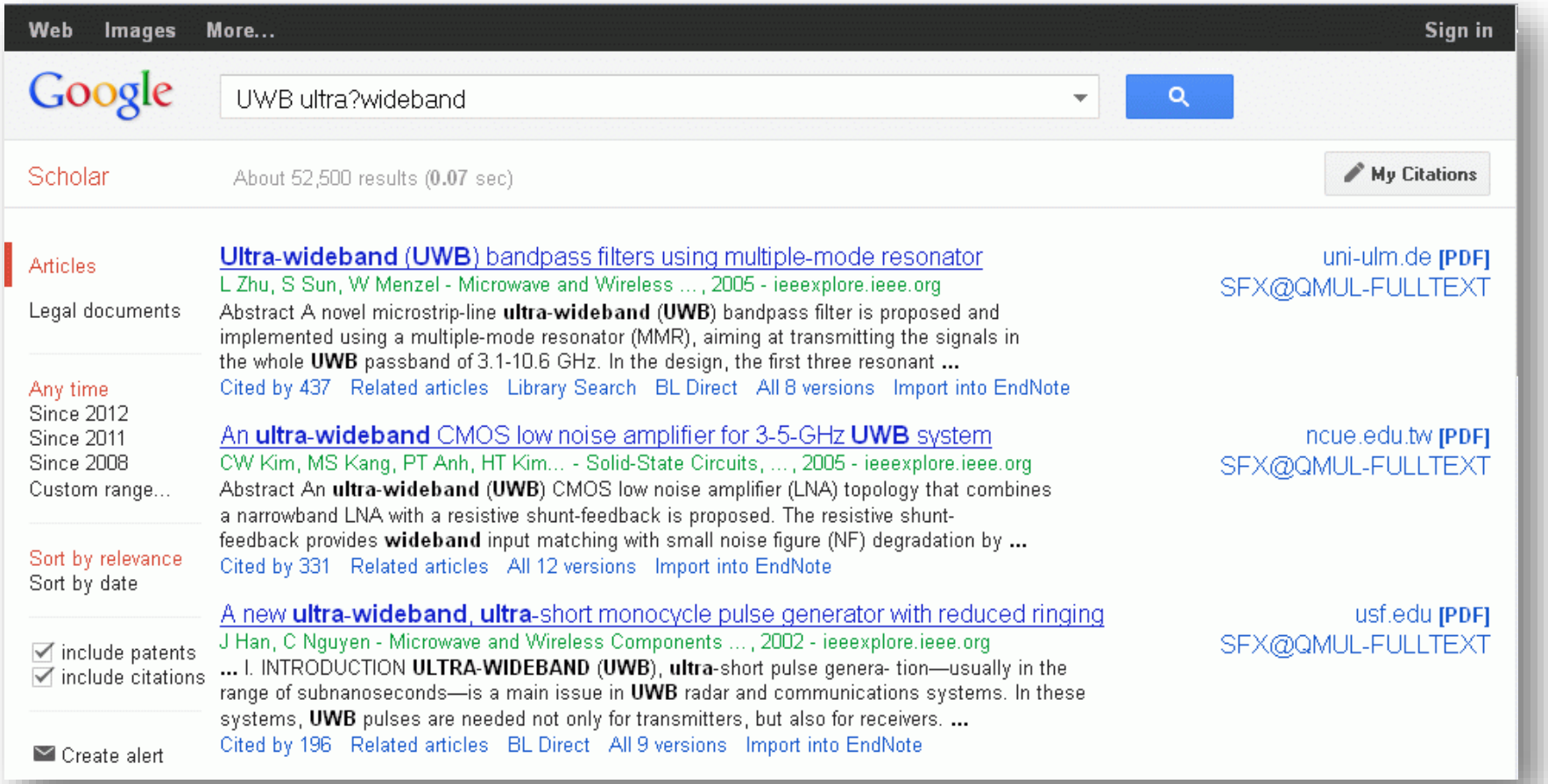
Settings: Bibliography Manager



Advanced Search



Results


Web Images More... Sign in
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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
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
uni-ulm.de [PDF]
SFX@QMUL-FULLTEXT
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
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
ncue.edu.tw [PDF]
SFX@QMUL-FULLTEXT
A new ultra-wideband, ultra-short monocycle pulse generator with reduced ringing
J Han, C Nguyen - Microwave and Wireless Components ... , 2002 - ieeexplore.ieee.org
... I. INTRODUCTION ULTRA-WIDEBAND (UWB), ultra-short pulse genera- tion—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. ...
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usf.edu [PDF]
SFX@QMUL-FULLTEXT

Can this be considered a database?

Databases

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

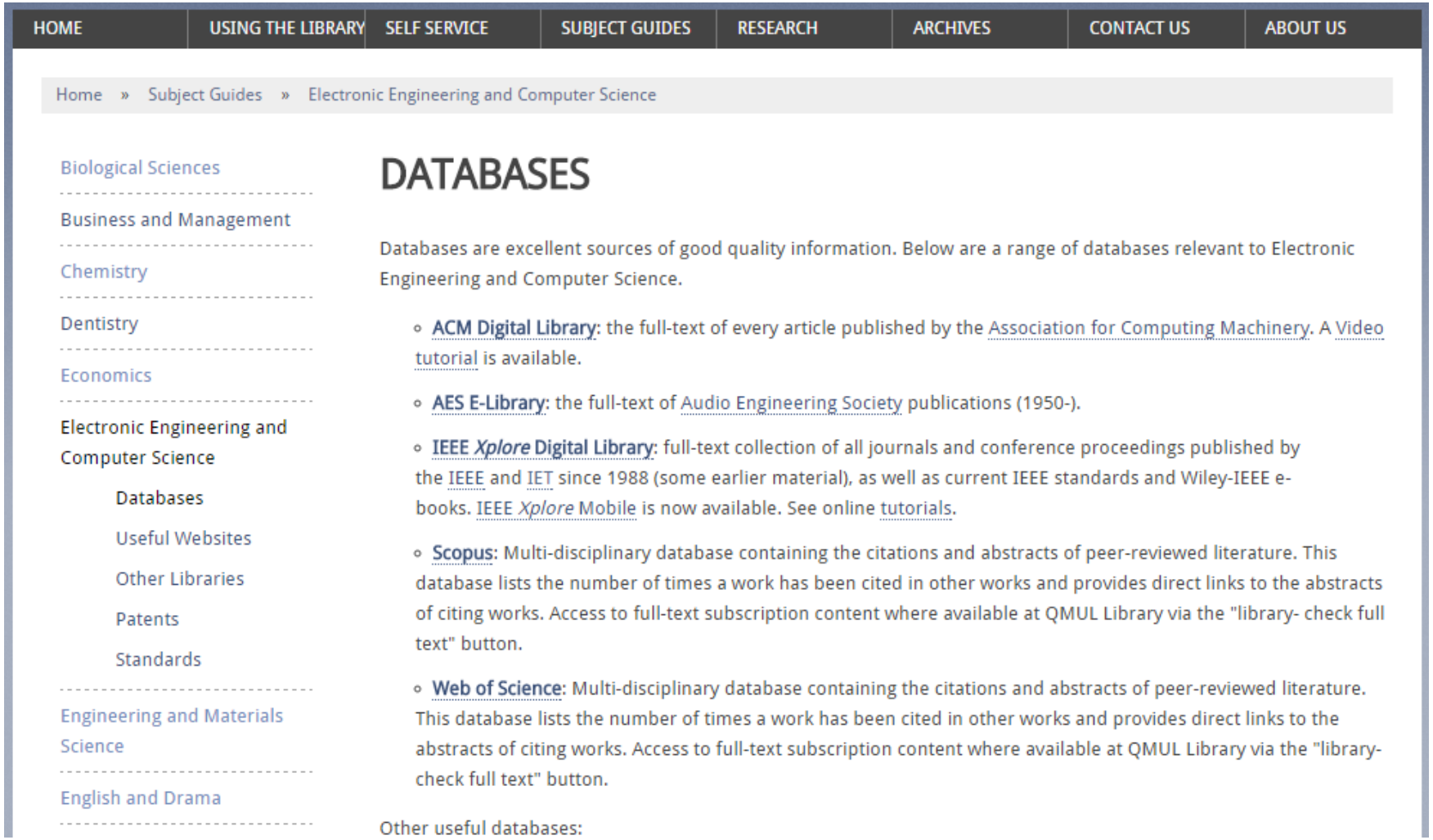
Use: to carry out systematic literature searches

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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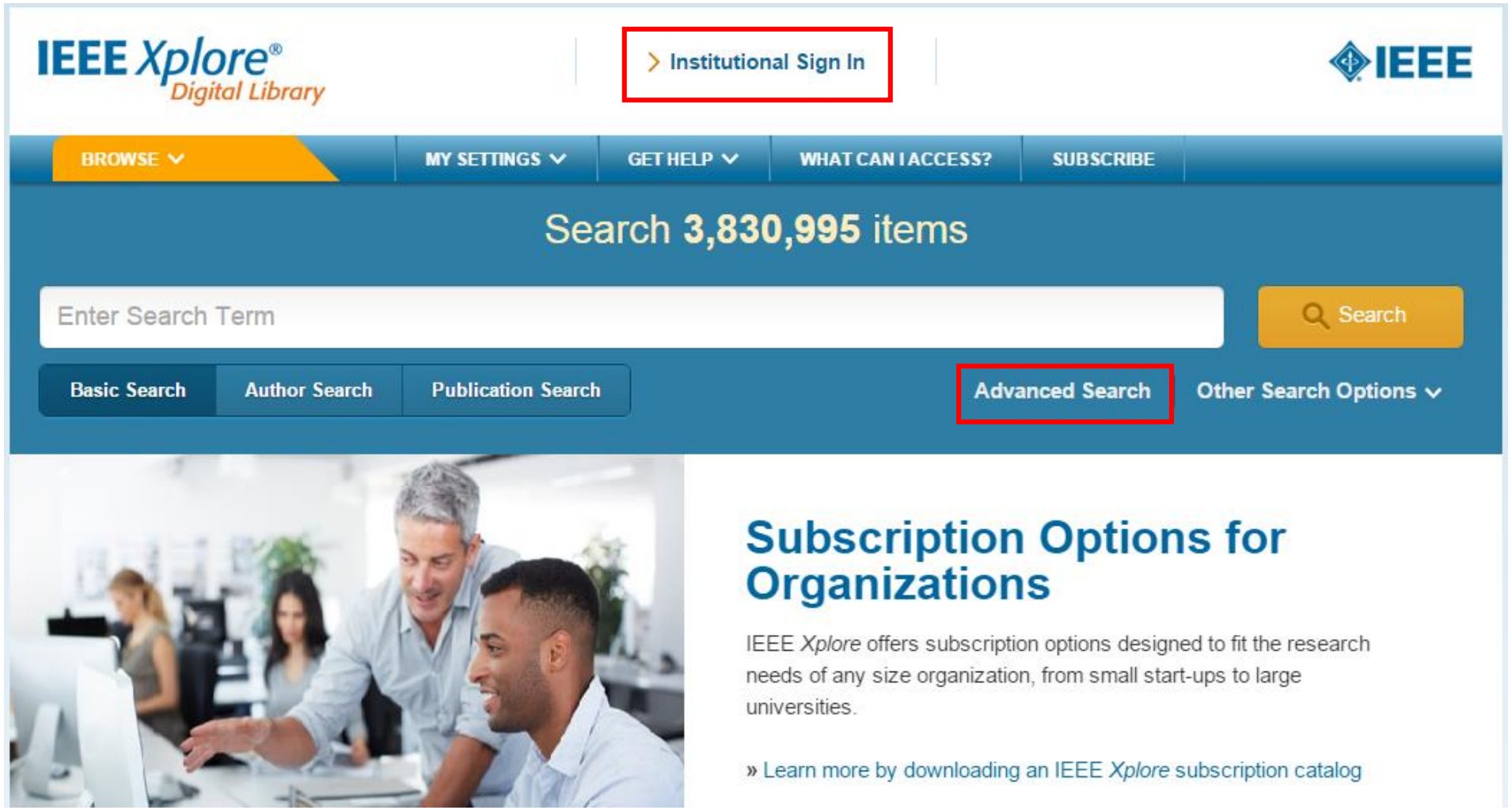
Engineering and Materials Science
English and Drama
DATABASES
Databases are excellent sources of good quality information. Below are a range of databases relevant to Electronic Engineering and Computer Science.
ACM Digital Library: the full-text of every article published by the Association for Computing 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:

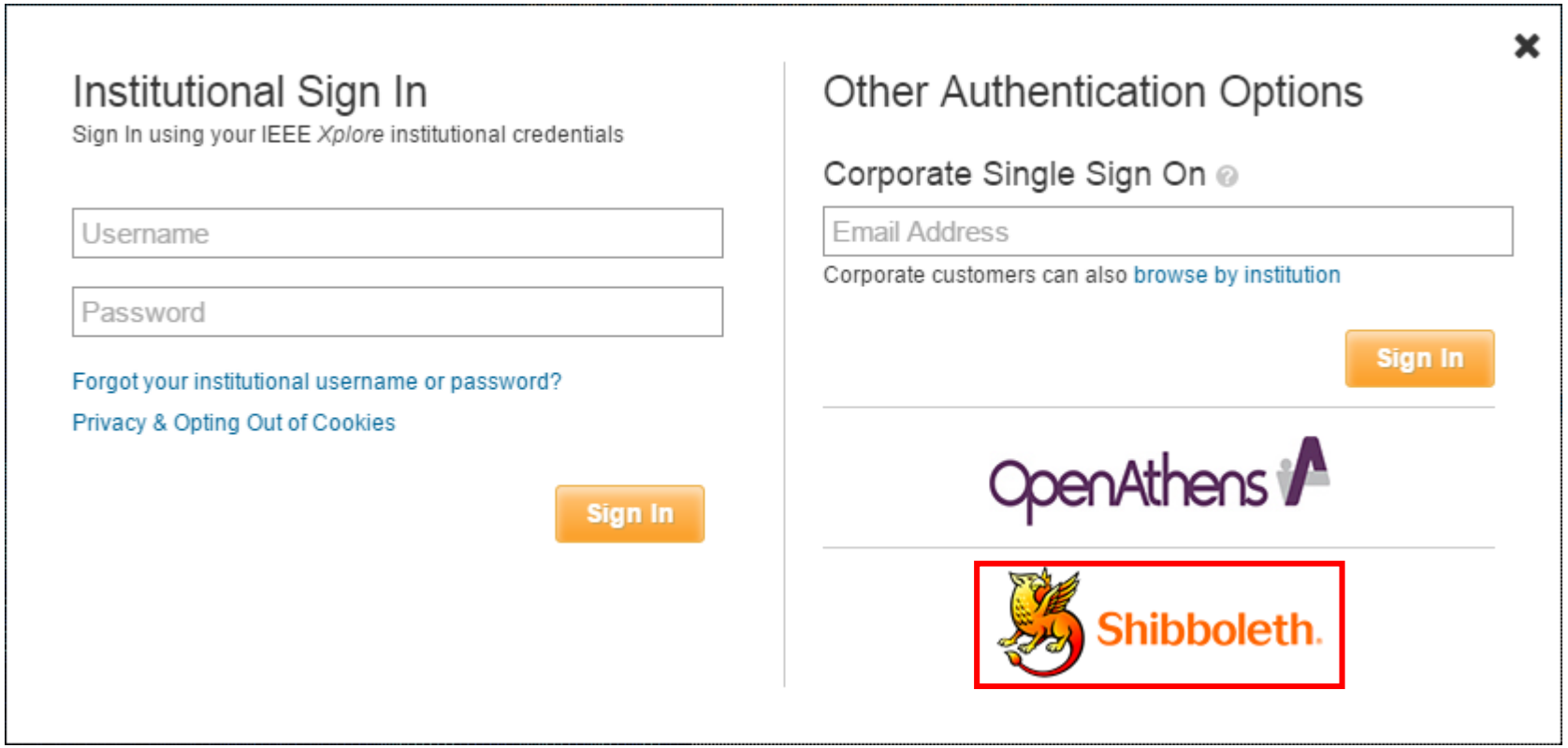
IEEE *Xplore* Digital Library

- 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 tiles)

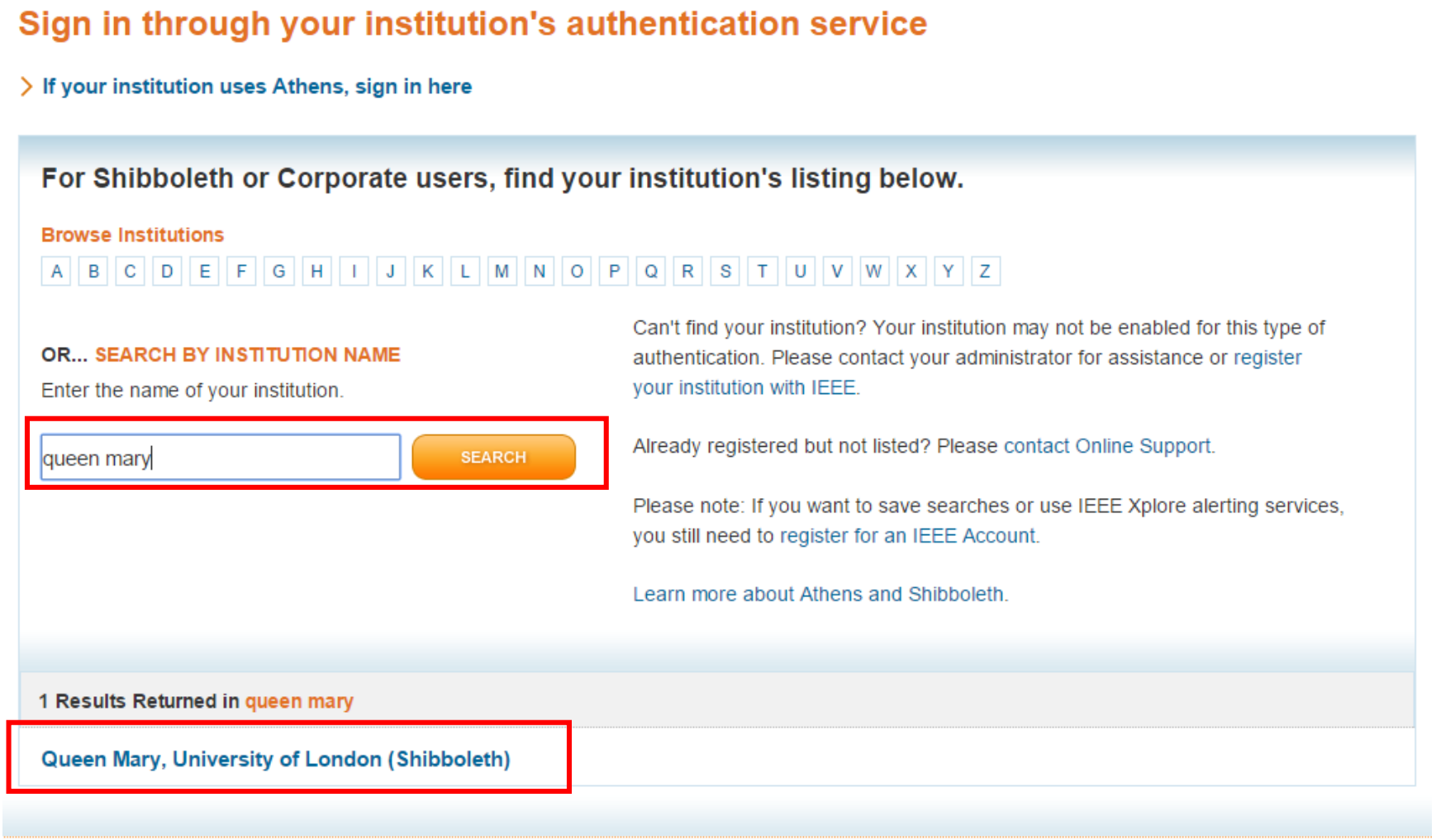
IEEE *Xplore* - Home



IEEE *Xplore* – Log in



IEEE *Xplore* - Login



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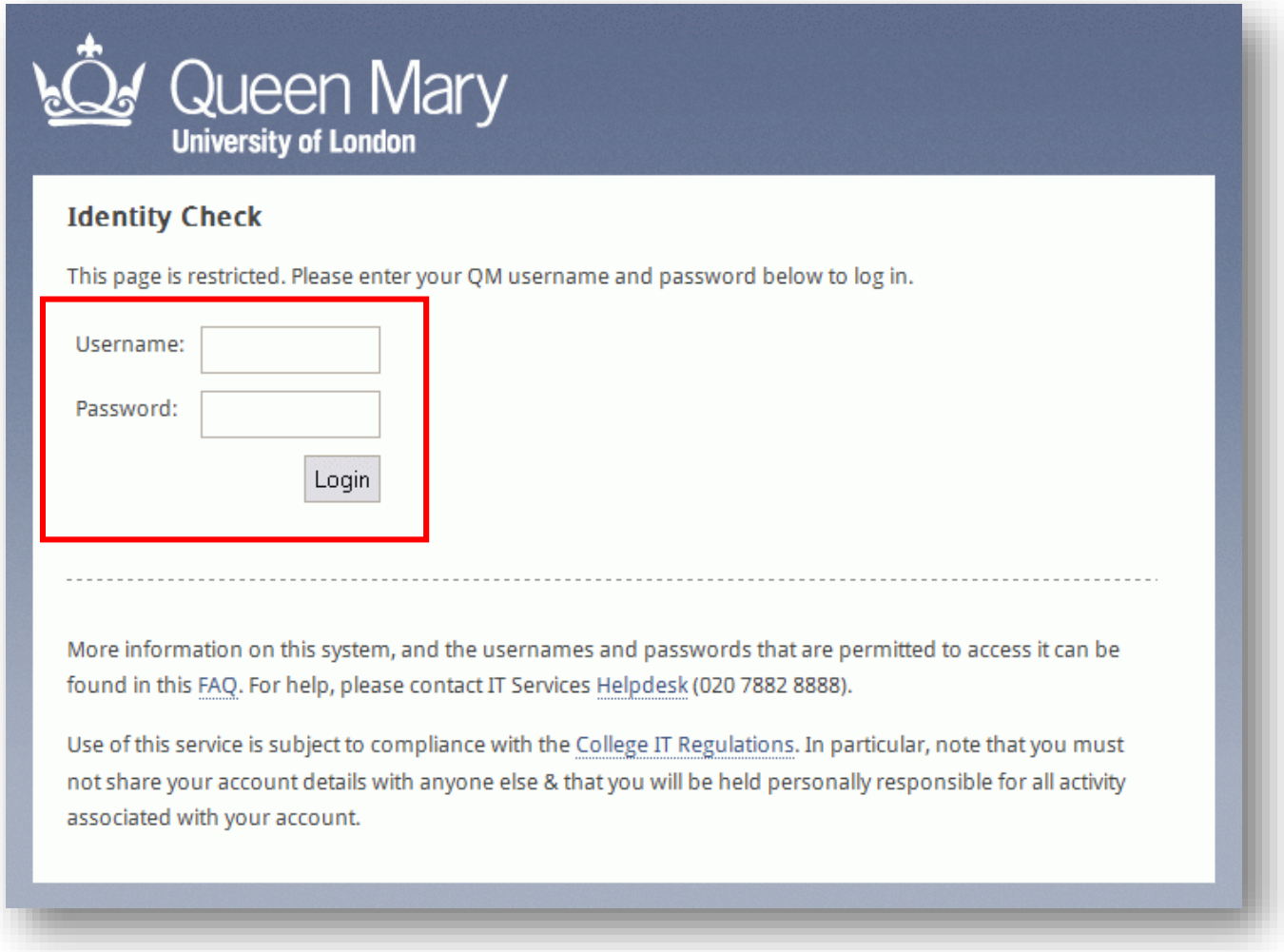
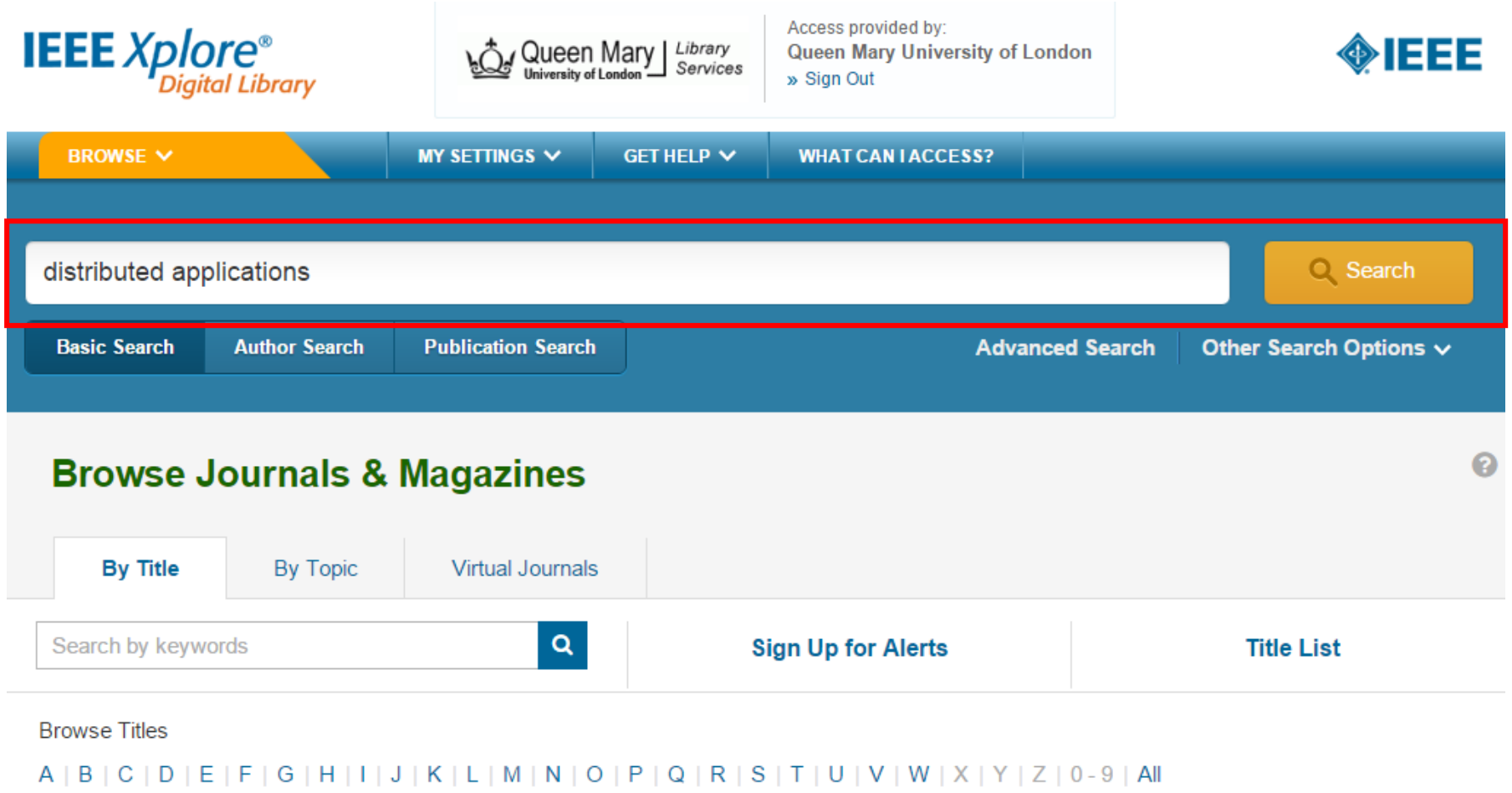
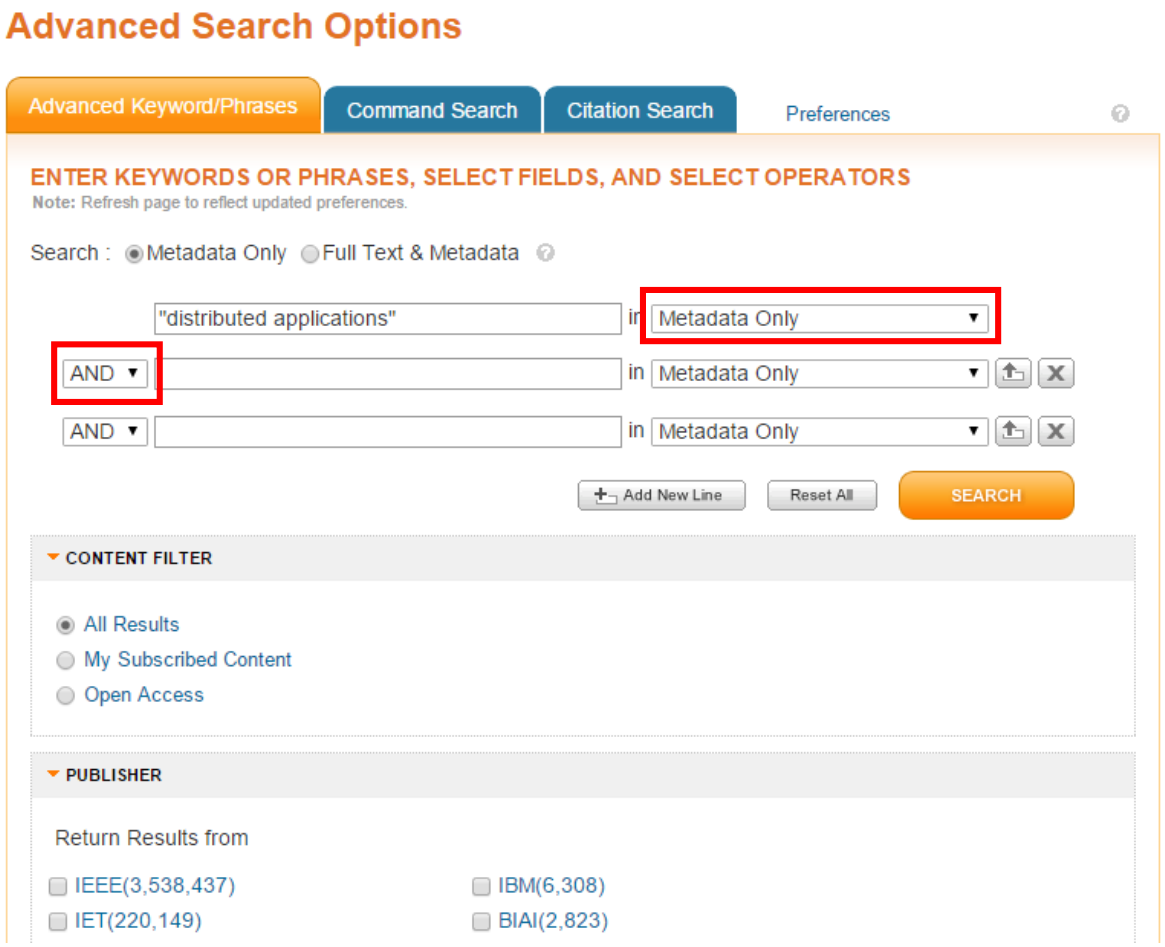


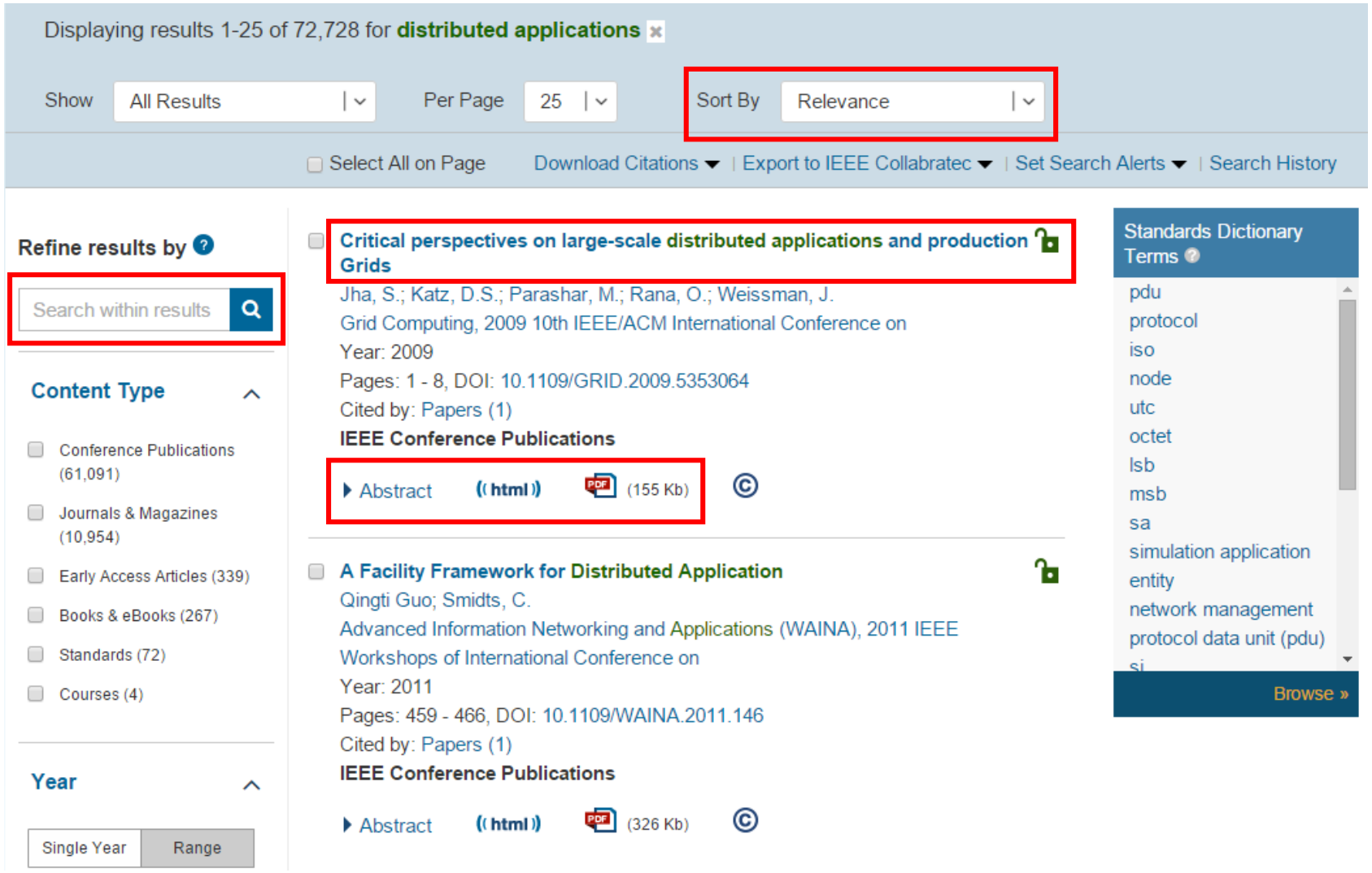
IEEE *Xplore* - Search



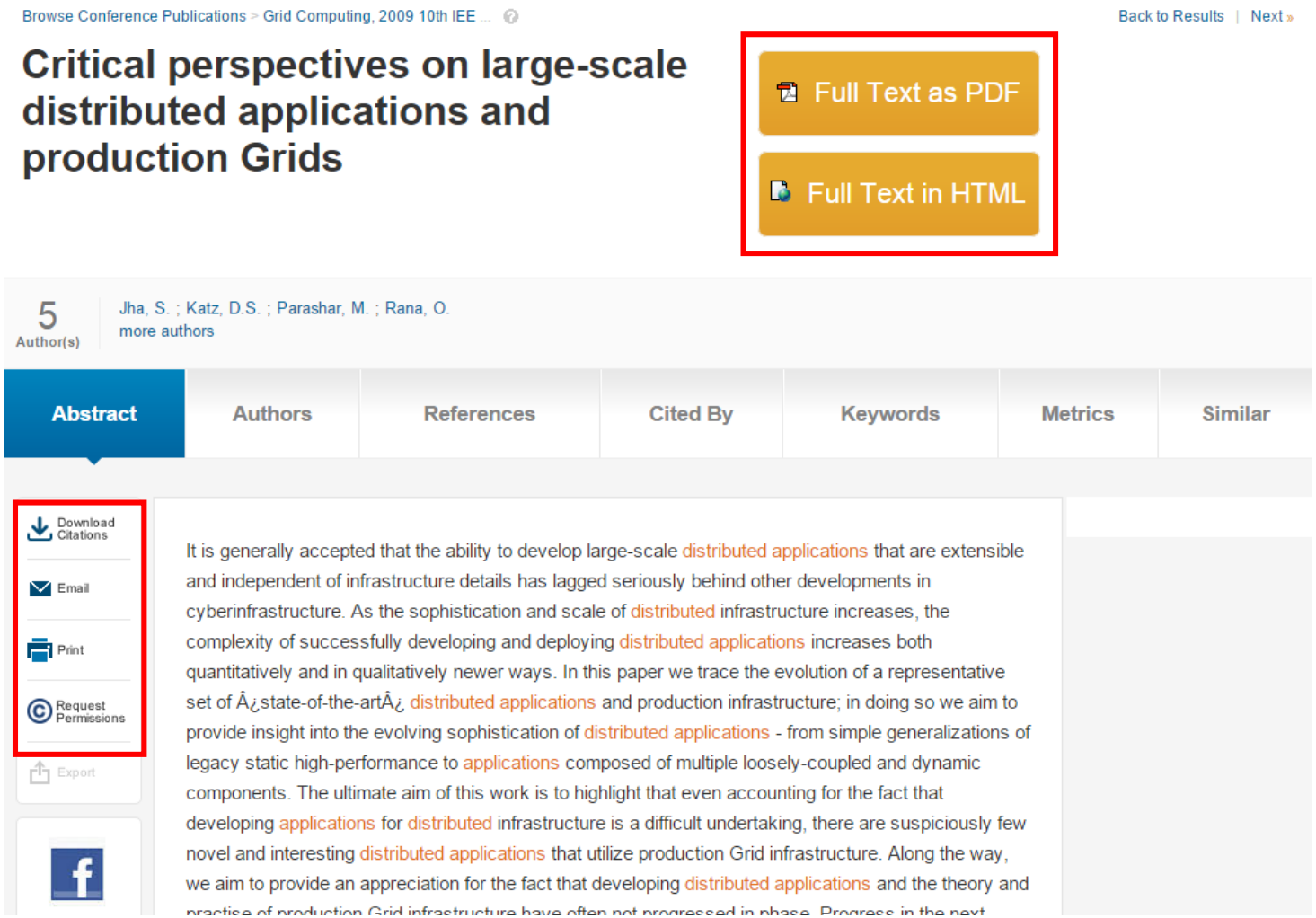
IEEE *Xplore* – Advanced Search



IEEE *Xplore* - Results



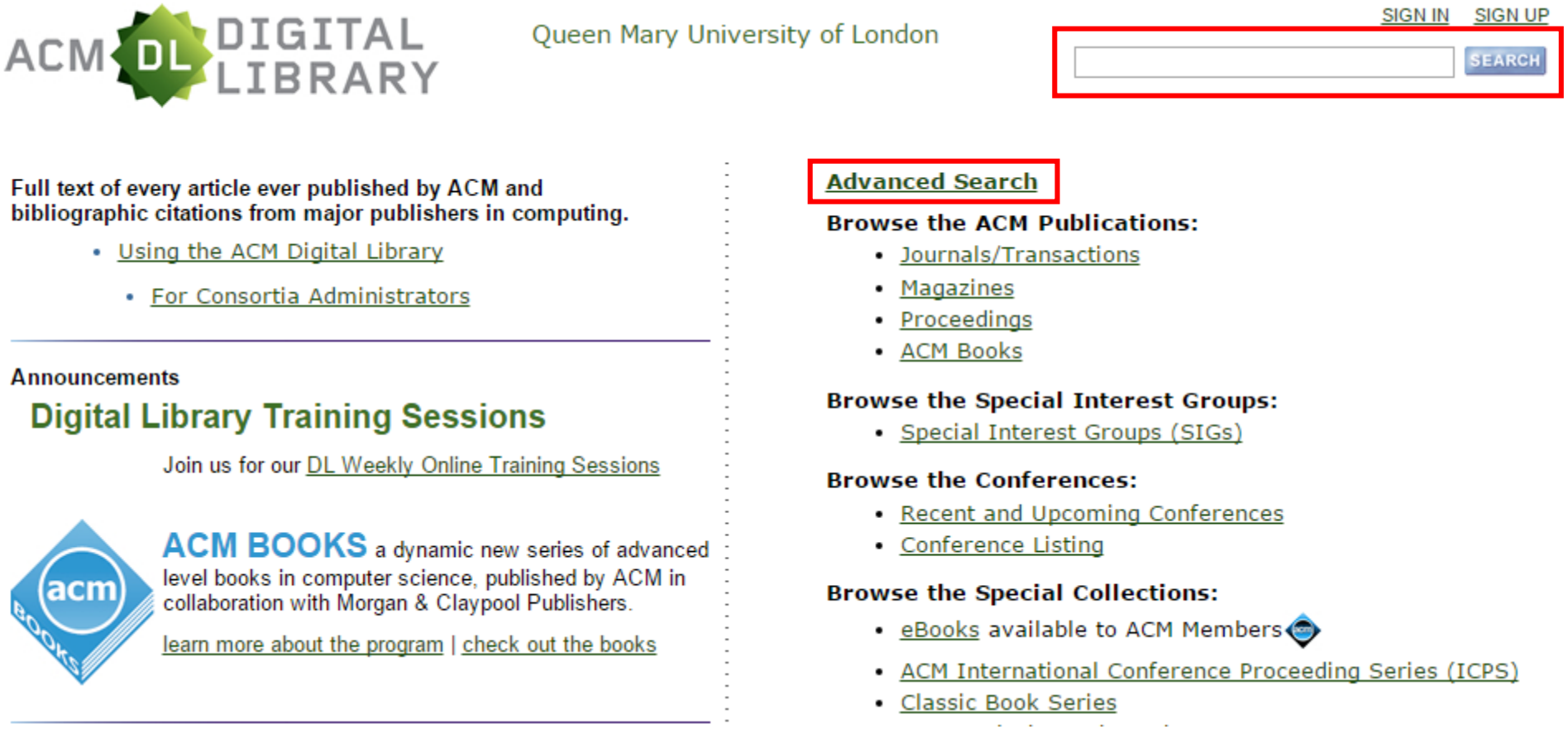
IEEE *Xplore* - Reference



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

ACM DL - Home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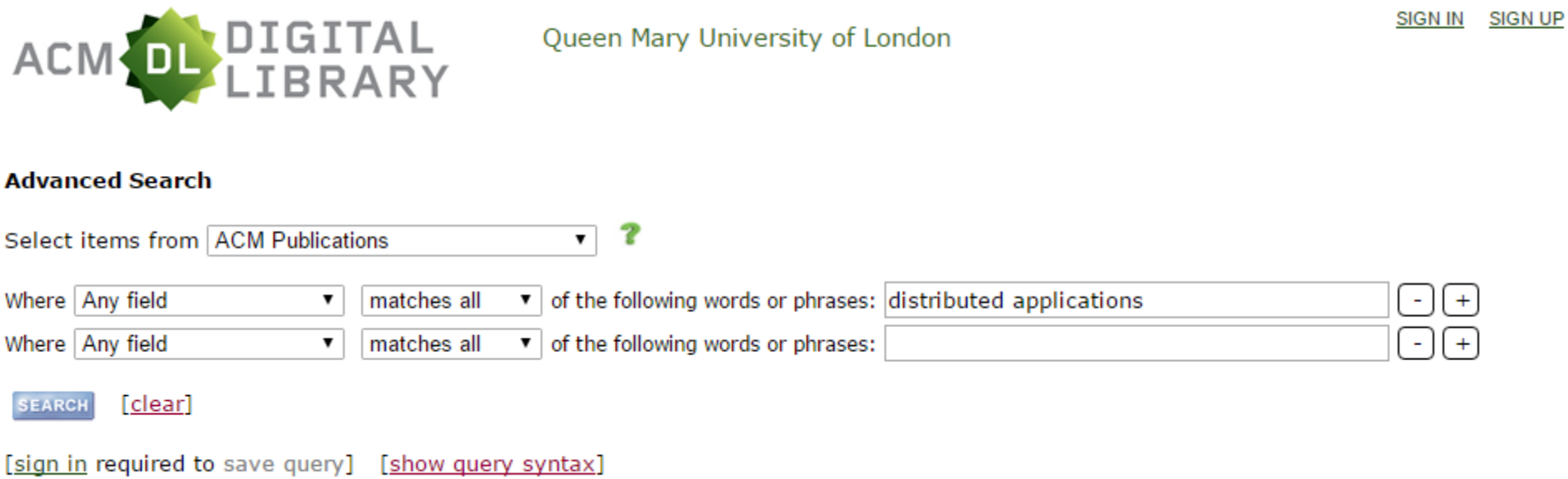
Classic Book Series

ACM DL – Advanced Search



ACM DL - Results

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]

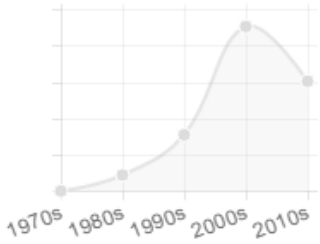
955 results found Export Results: bibtex | endnote | acmref | csv

Refine by People
Names
Institutions
Authors
Editors
Reviewers

Refine by Publications
Publication Names
ACM Publications
All Publications
Content Formats
Publishers

Refine by Conferences
Sponsors
Events
Proceeding Series

Refine by Publication Year



Published Since 1979

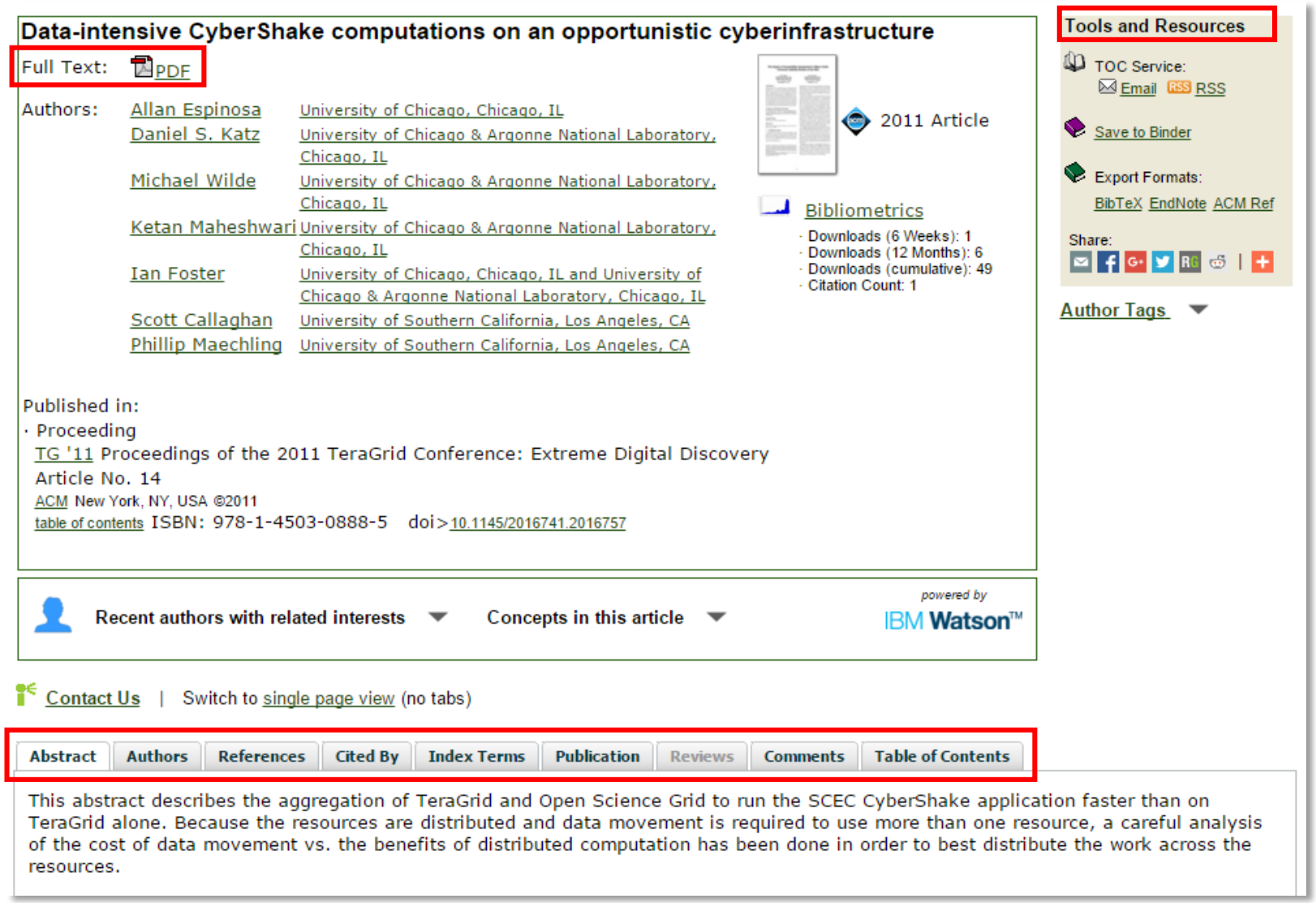
Result 1 – 20 of 955 Result page: **1** 2 3 4 5 6 7 8 9 10 >>

Sort by: relevance

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



Web of Knowledge

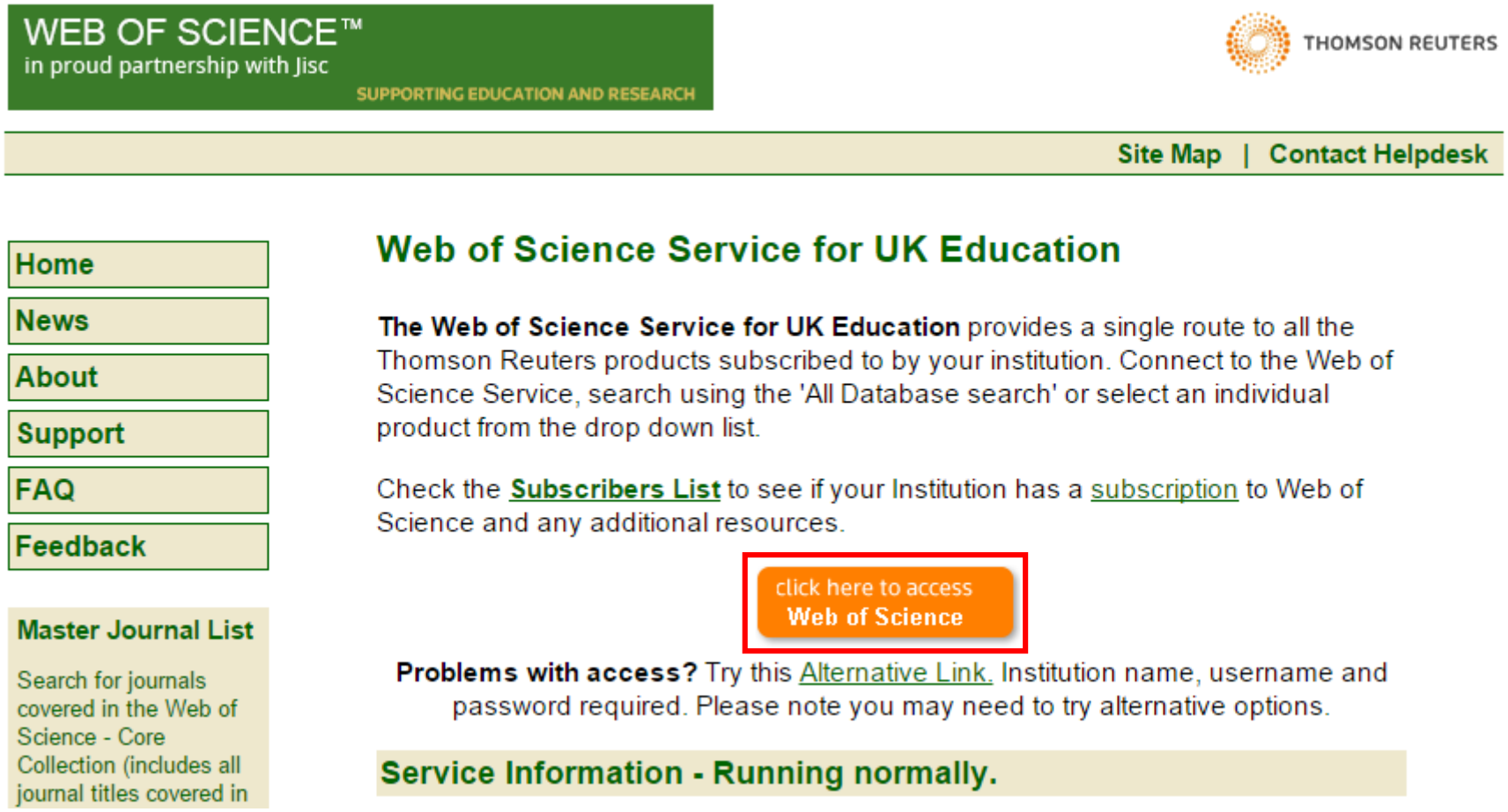
- **Indexing & Abstracting (I&A)** databases of peer-reviewed academic literature such as *journal articles* and *conference proceedings*
- **Web of Science** – a major multidisciplinary search tool comprising five indexes, inc.:
  - *Science Citation Index* (1970-)
  - *Conference Proceedings Citation 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
- **Register** for extra functionality (e.g. saved searches, EndNote Web)
- Off-campus access via Shibboleth

Login Procedure [1]



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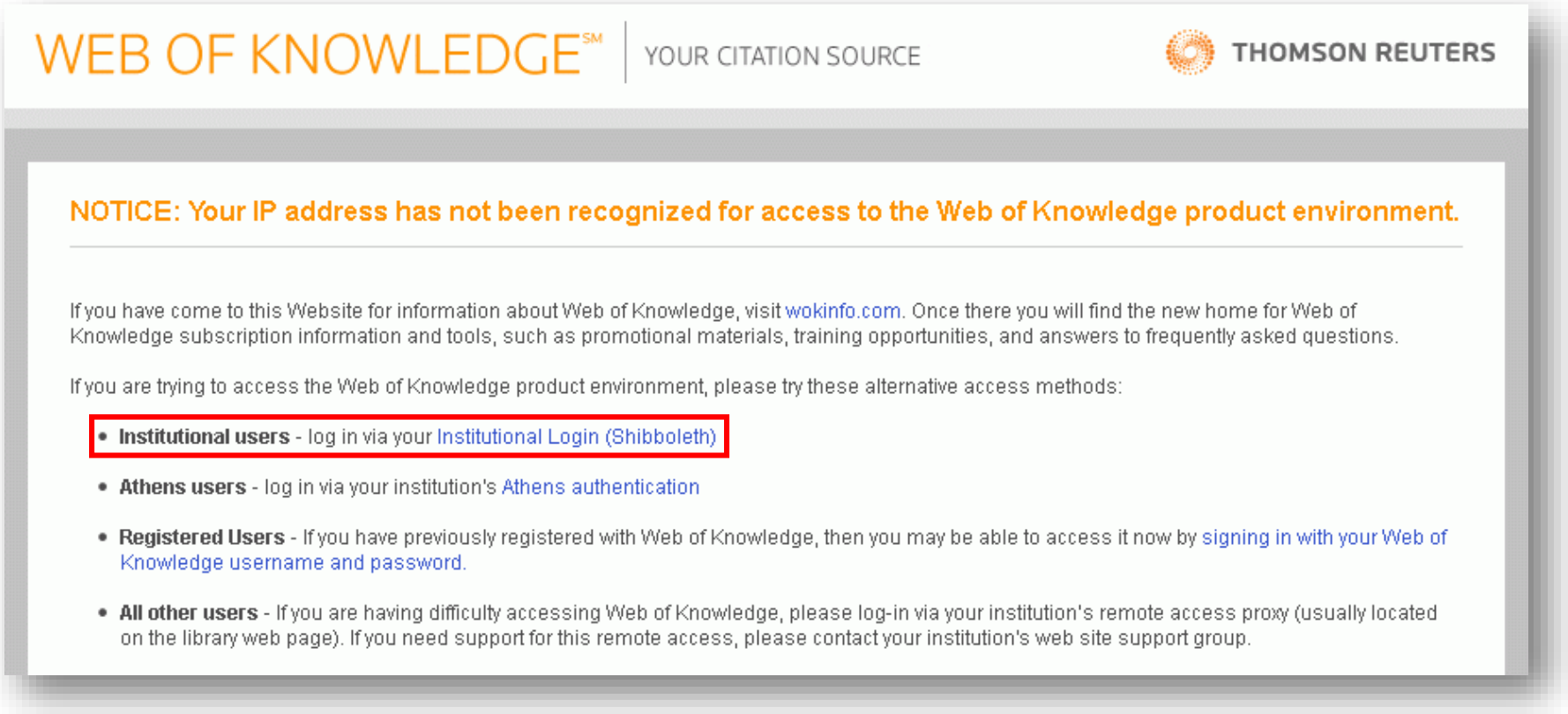
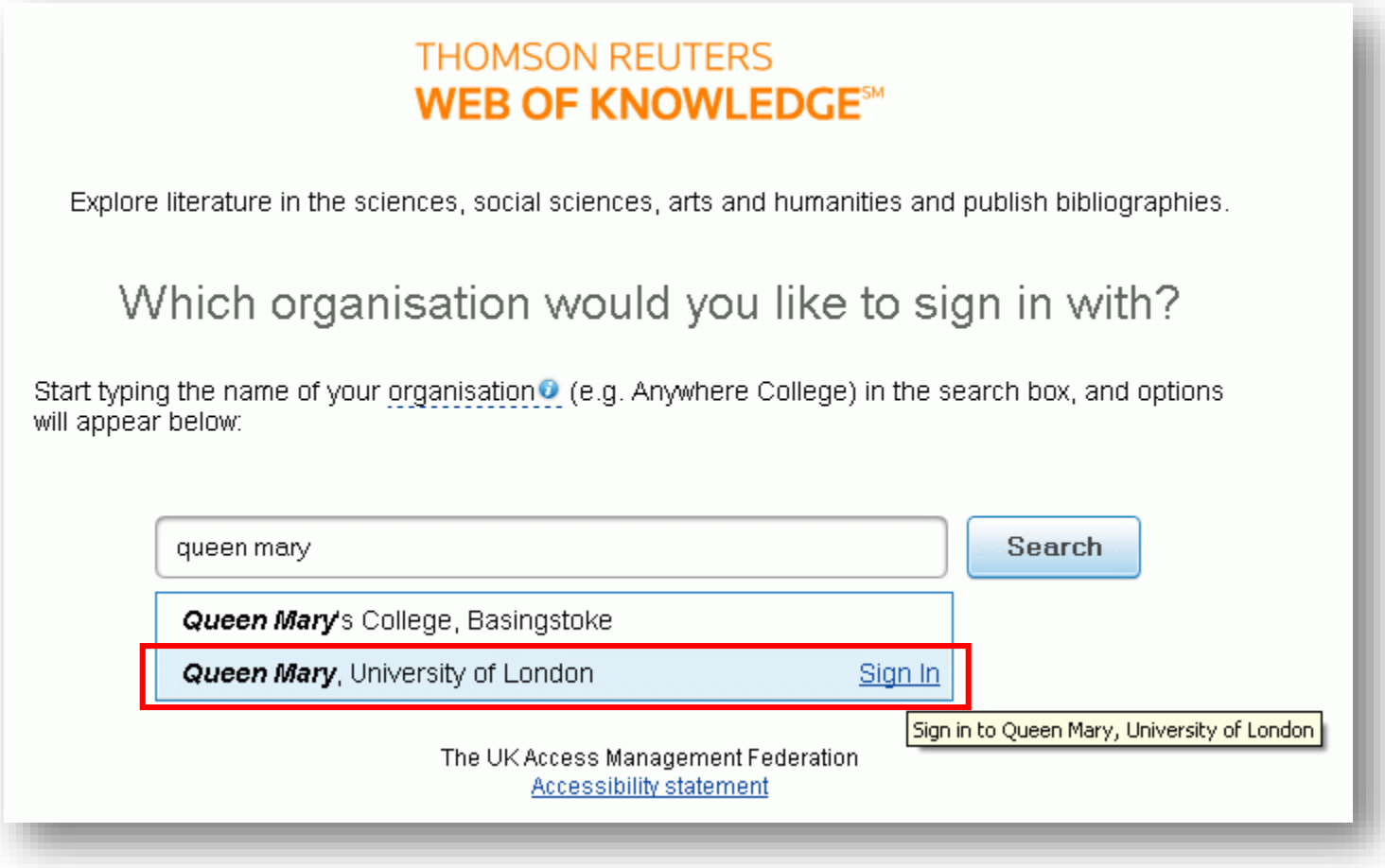


Login Procedure [3]

Login Procedure [4]



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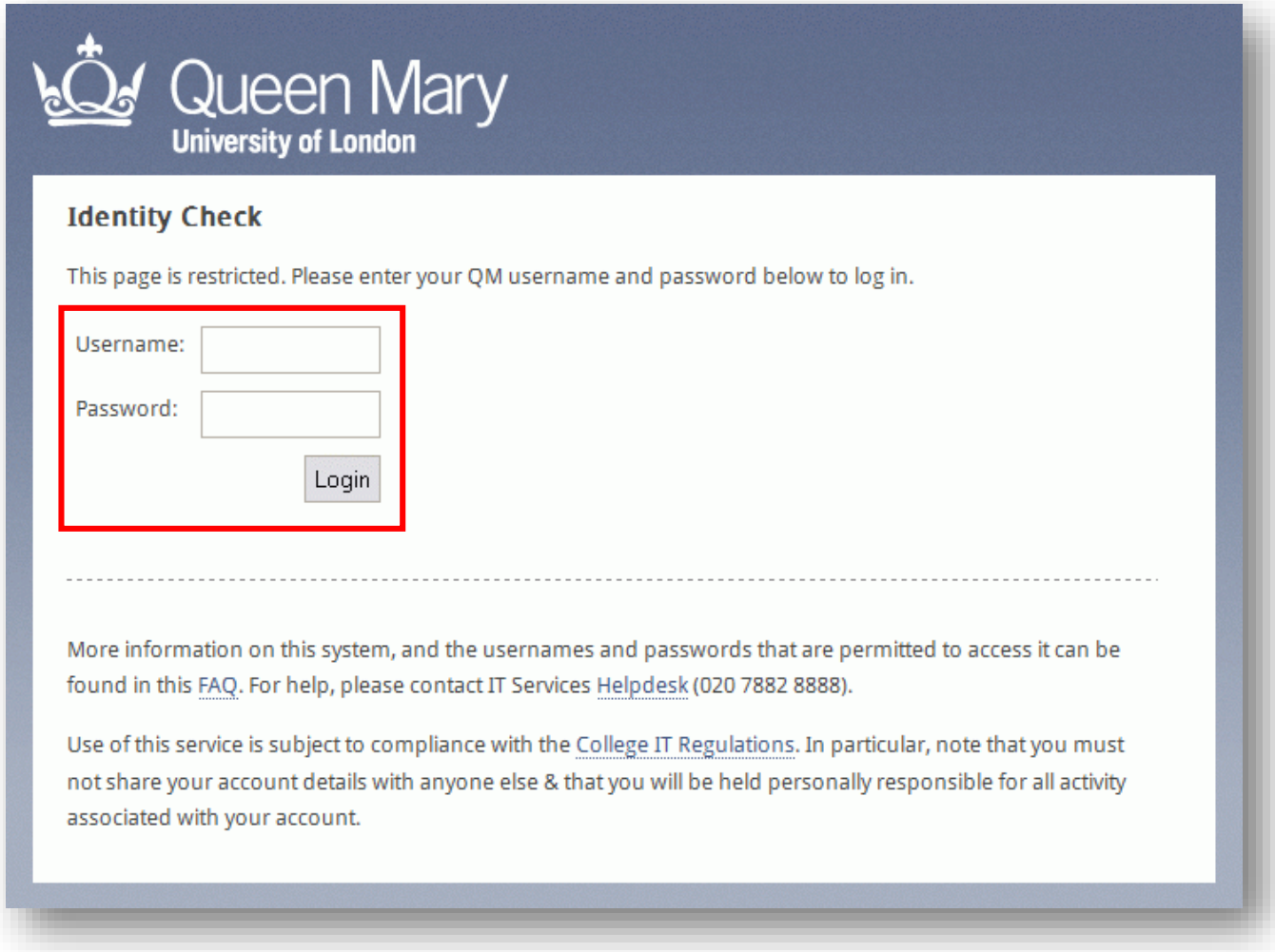
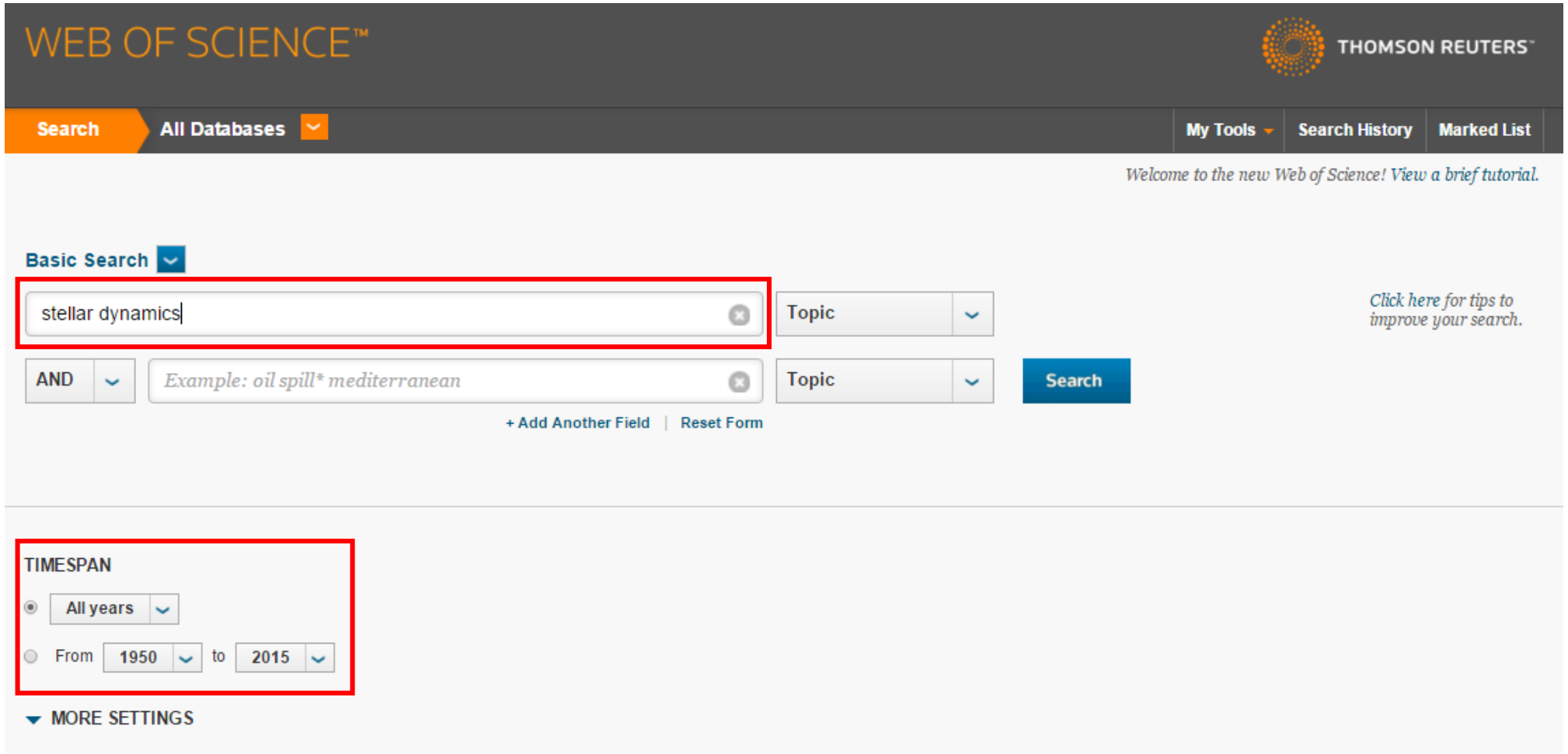
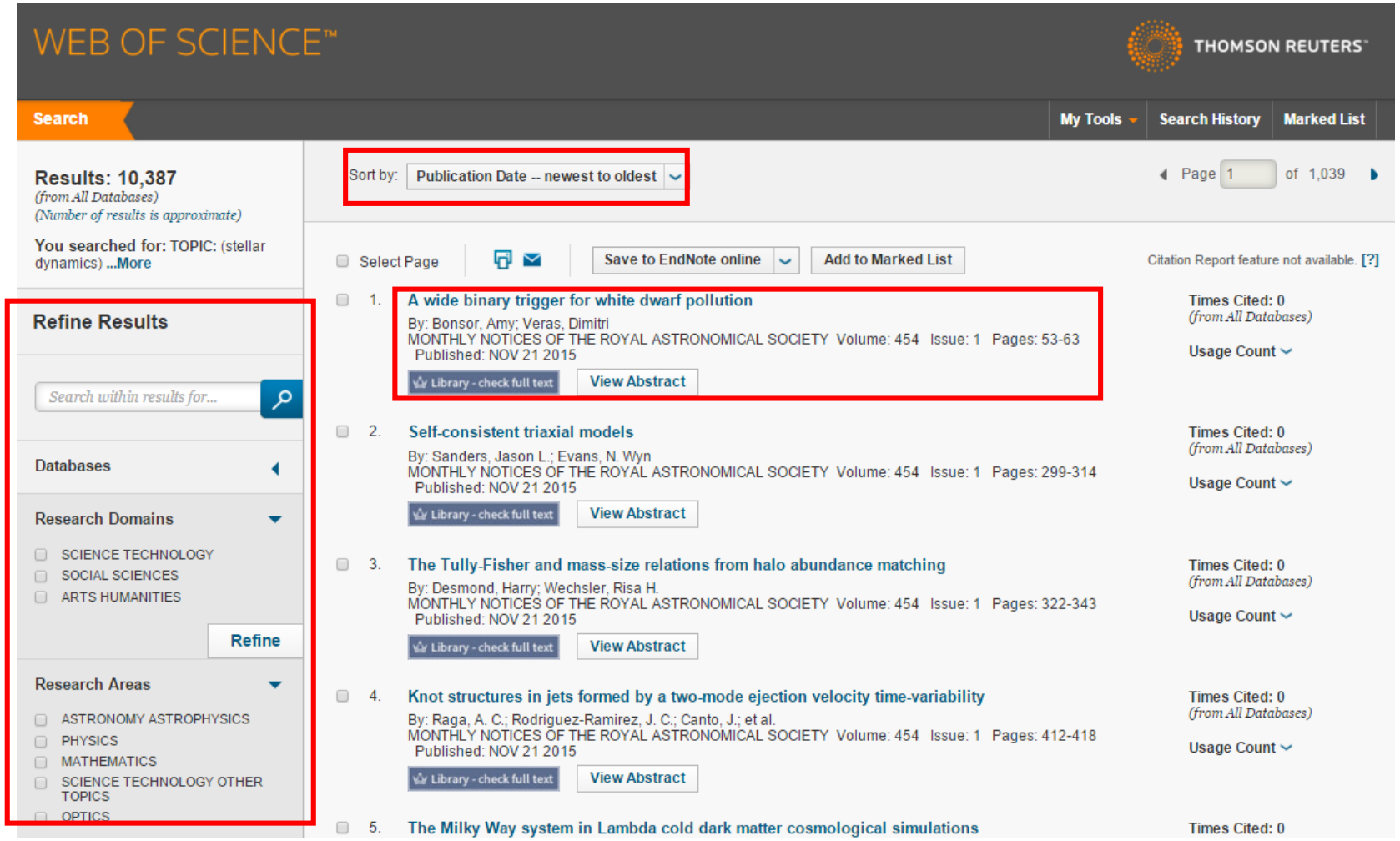


Web of Science - Search



Web of Science - Results



Web of Science - Reference

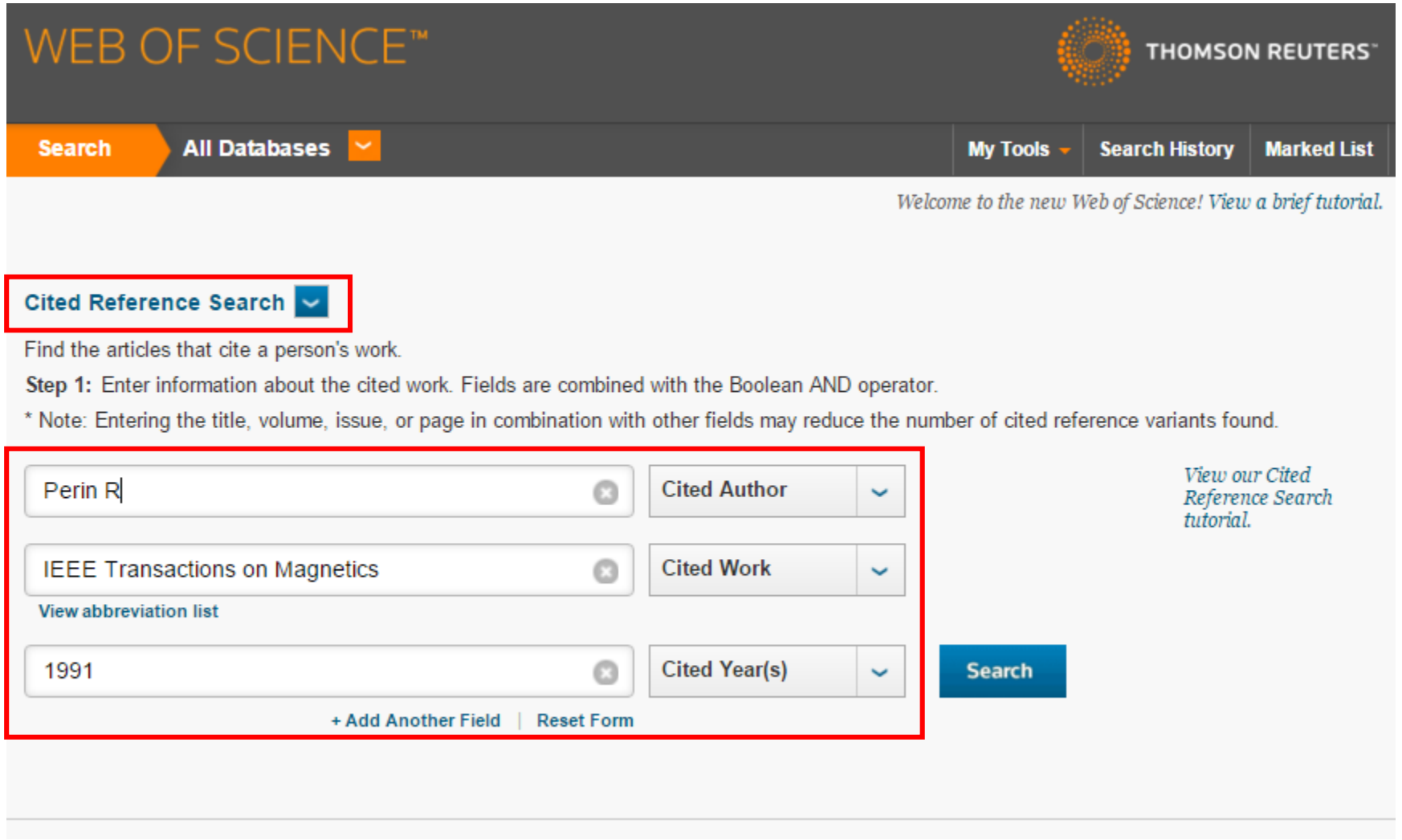
Citation Searching

- 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

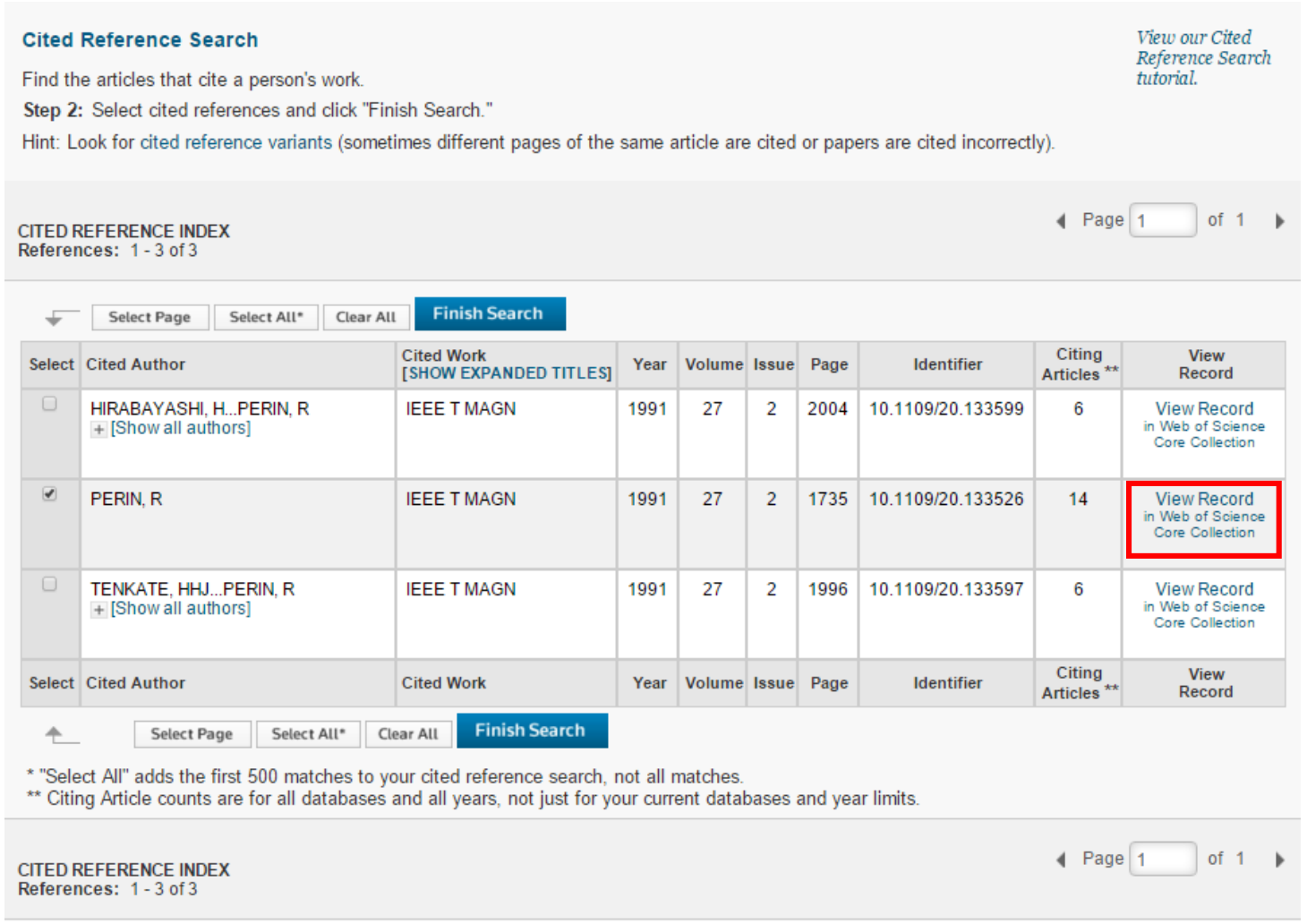
Citation Searching

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

Citation Searching



Citation Searching



Cited Reference Search

View our Cited Reference Search tutorial.

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).

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
☐	HIRABAYASHI, H...PERIN, R [Show all authors]	IEEE T MAGN	1991	27	2	2004	10.1109/20.133599	6	View Record in Web of Science Core Collection
☑	PERIN, R	IEEE T MAGN	1991	27	2	1735	10.1109/20.133526	14	View Record in Web of Science Core Collection
☐	TENKATE, HHJ...PERIN, R [Show all authors]	IEEE T MAGN	1991	27	2	1996	10.1109/20.133597	6	View Record in Web of Science Core Collection
Select	Cited Author	Cited Work	Year	Volume	Issue	Page	Identifier	Citing Articles **	View Record

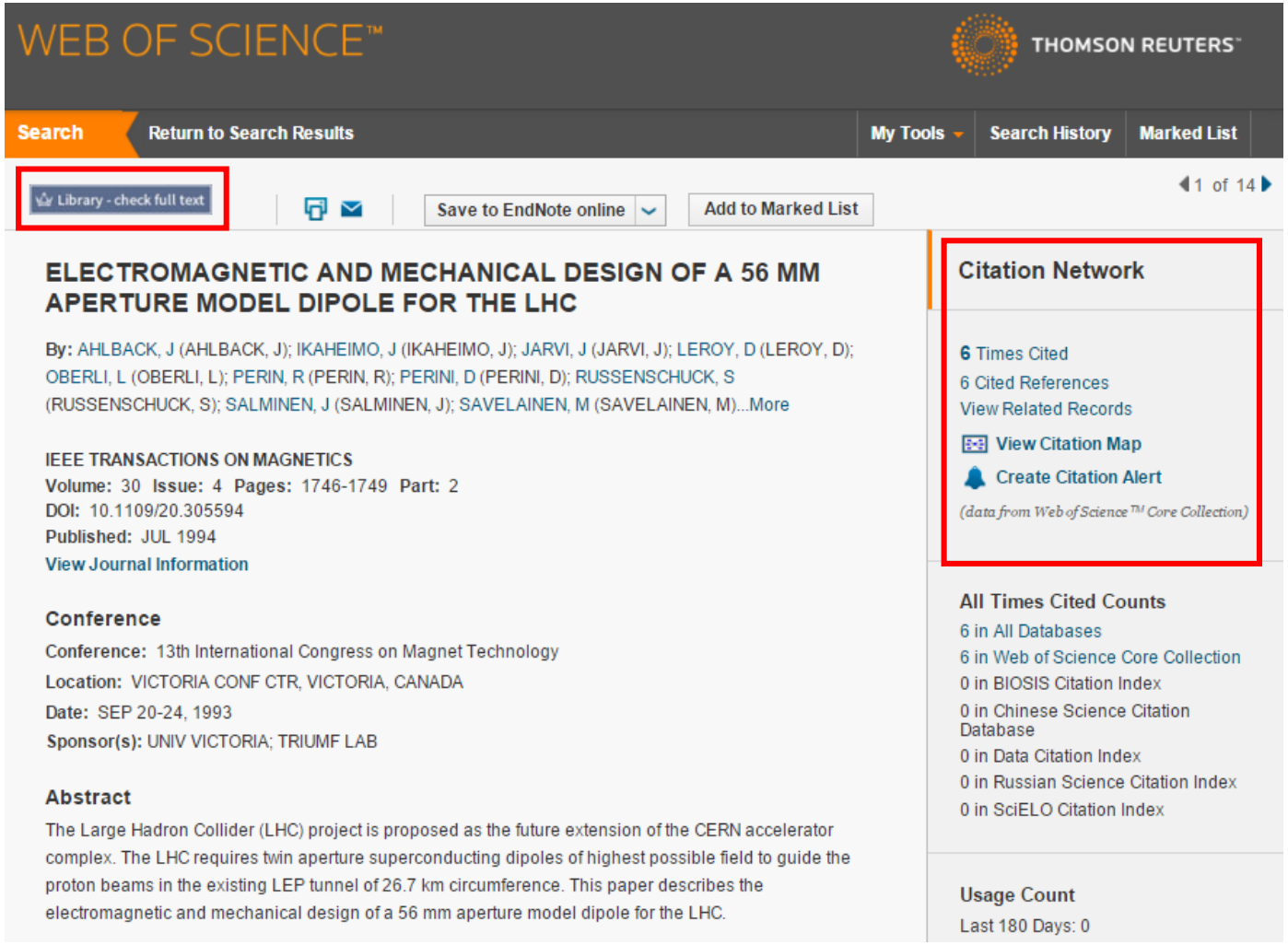
Select Page | Select All* | Clear All | Finish Search

* "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



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

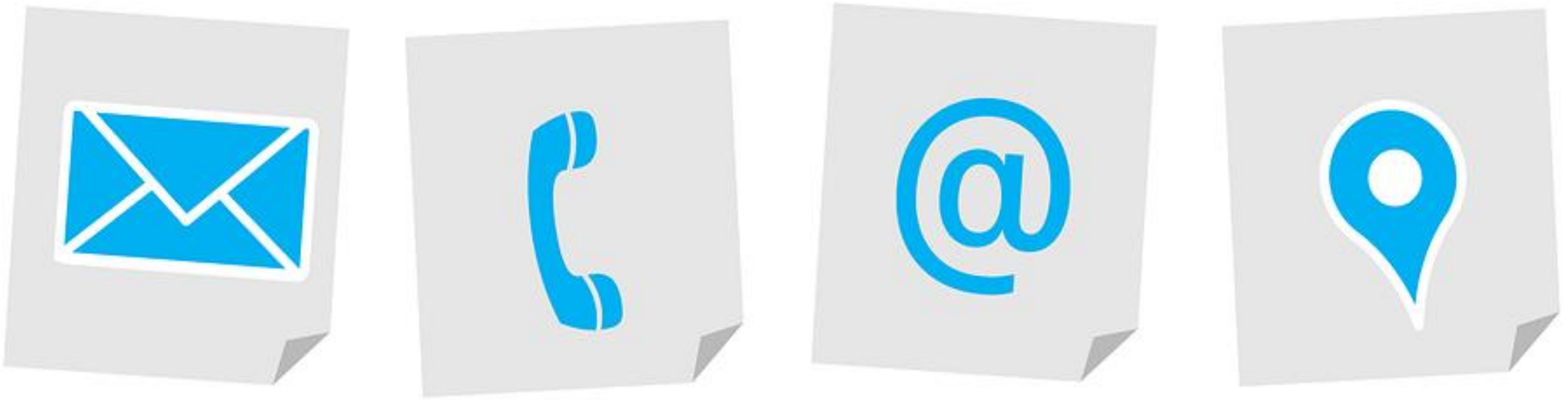
Check the references and bibliography at the end of the article for related works

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

For news and recent developments:

Twitter : @QMLibrarySciEng

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