

Mathematical Sciences

Literature Searching for Projects



Subject Librarian : Emma Stuart Edwards

Session plan

- * **Library catalogue**
- * **Topic searching – tips & tricks**
- * **Where to start on the web**
- * **Databases – what, where and why?**
 - * **Key databases:** MathSciNet; Web of Science
- * **Citations and Referencing**



Library homepage



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The Library

Catalogue Search

Find books, journal articles & other resources:

► Advanced search



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Help

Our librarians are here to help. Ask us a question



Young spectators at the 2015 Modern Pentathlon European Championships inspired by archives ►

Subject resources

Your subject librarians look after a page full of useful resources, tailored to your courses

Topic searching tips & tricks

Thinking about your topic

1. Write down your **topic**
2. What are the **key concepts**?
3. Brainstorm **related terms & keywords**
4. Identify **plurals and variant spellings**
5. Build **search sentence**



Defining your topic

- * What are the key concepts?

Options pricing and financial
mathematics equations

Defining your topic

- * What are the key concepts?

Options pricing and financial
mathematics equations

Composing your search sentence

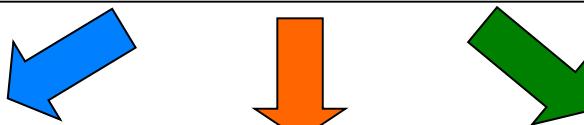
Options pricing & equations

Options pricing

Optional mathematics

Investments

Pricing of options



“Financial
Mathematics”

Equations

Formula, e.g.:

Black-Scholes theory

Garman-Kohlhagen

Stochastic calculus

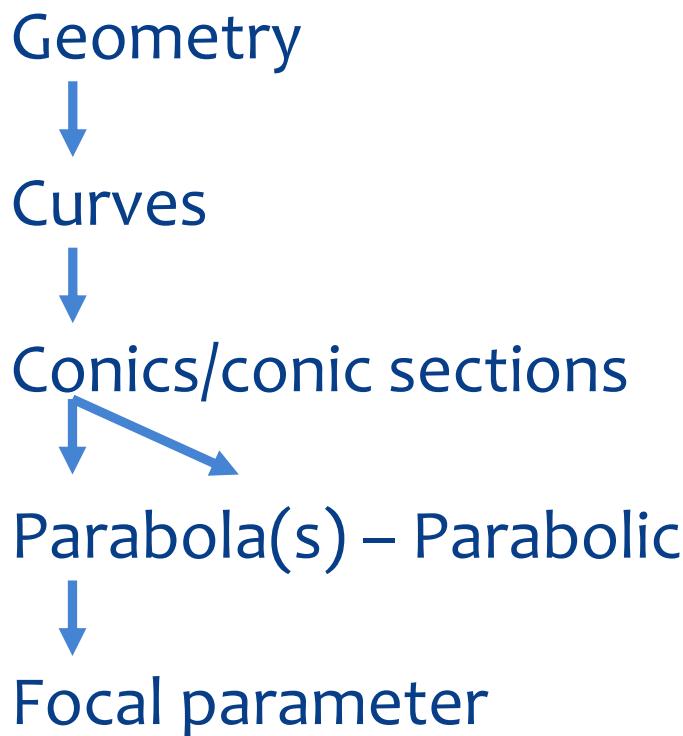
Build your search statement:

“options pricing” **and** (equations **or** formula)

(option*) **and** (price **or** pricing **or** mathematics)

financial **and** (equations **or** theory **or** formula **or** mathematics)

Broad or narrow terms?



Truncation

Truncation symbols can help to include different word endings such as plurals, eg:

sustain* finds:

sustain, sustains, sustained,
sustainable, sustainability

sustainab* finds:

sustainable, sustainability

theor* finds:

theory; theories; theorum

Warning! Different databases use different symbols e.g. ? ! \$

Wildcards & phrase searches

Wildcards

Can help to include different spellings, e.g.

visuali?ation will find:

visualization

OR

visualisation

Phrase search

Helps to find an exact phrase (words in a specific order)

- * Use quotation marks e.g. **“multivariate analysis”**

Or with truncation e.g.

“multivariate analys*”

Exercise 1 - your topic

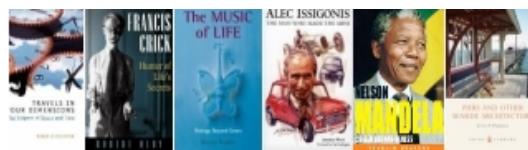
- * Have a go at breaking down your own research topic into its key concepts
- * If you have no topic, perhaps you base one on the following:
 - * *Effectiveness of mathematical models for options pricing*
 - * *Mathematical and computational approaches to music*
 - * *Mathematical control theory and optimization*
 - * *Mathematical models for forest health*
 - * *Developing trading strategies using financial mathematics*
 - * *What are the advantages of applying computational intelligence on cryptology?*



Exercise 1

1. **Break down your topic into concept keywords**
2. **Brainstorm** some **synonyms** and other ways to express the topic
3. **Identify** where you can use **phrases, truncation, wildcards** if needed
4. **Combine different concept keyword alternatives using OR** and add them to your other keywords with **AND** to produce a search sentence
e.g. (human or user) and “interface design”
5. **Discuss your search strategy** with your neighbour!

Where to start on the web

[text view](#)[A](#) [A](#) [A](#)[Home](#)[Subjects](#)[Catalogues](#)[Information Skills](#)[Services](#)[Using the Library](#)[Other libraries](#)[About Us](#)[Help](#)[The Library](#)

Resources for your Subject ▾

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Websites with scholarly resources

[Psychology](#)[Social & Policy Sciences](#)[Sport & Exercise](#)[Teaching & Learning Resources](#)

Mathematical Sciences

For more information, please email your Subject Librarian, [Emma Stuart Edwards](#), tel: +44 (0)1225 385809. You can also visit Emma in the Library: Room 4.02. The department's Library Rep is Dr. Frank Hilker. To find a recommended book or journal, search the [Library Catalogue](#). You might like to refer to the [recommended book list](#) – note [Excel version](#).

Databases – find journal articles and more

Essential for finding articles, conference papers & more beyond your reading list

- [EMIS – The European Mathematical Information Service](#)
- [MathSciNet](#) –  guide
- [SCOPUS](#) – peer-reviewed articles and patents in all subjects – [guide](#) / [training videos](#)
- [Web of Science](#) –  guide & tutorial – [viewing results](#)

More databases for Mathematical sciences



Recommended resources

- [Useful websites](#): subject gateways and search engines: search for reports, grey literature, organisations...
- [Finding & submitting theses & dissertations](#)
- [Images, film & other media](#)
- Keep up-to-date with the [Library News blog](#)

Exam papers online

- Search for [exam papers](#) to read online

Help with finding & referencing information

- [Library catalogue](#): find print/online books & journals

Moodle

- Access your [Moodle](#) VLE modules



Useful websites for Mathematical Sciences

Subject search tools

- **arXiv**- E-prints in physics, mathematics, non-linear science, computer science, quantitative biology, quantitative finance & statistics
- **Intute: Mathematics & Computer Science** - Freely available Internet services which aim to provide trusted sources of selected, high quality Internet information. This is the section on Mathematics & Computer Science
- **Intute: Virtual Training Suite - Mathematics**: tour web resources for mathematics
- **PINAKES** - A subject launchpad, linking to the major subject gateways
- **TechXtra** - Find articles, key websites, books, the latest industry news, job announcements, ejournals, eprints, technical reports, the latest research and more!

Professional societies

- **Edinburgh Mathematical Society** - The principal mathematical society for the university community in Scotland
- **IMA (Institute of Mathematics and its Applications)** - The UK's learned and professional society for mathematicians and its applications
- **London Mathematical Society** - The major British learned society for mathematics
- **SIAM (The Society for Industrial and Applied Mathematics)** - Aims for strong interactions between mathematics and other scientific and technological communities through membership activities, publications and conferences

Free e-book collections

- [AMS books online](#) - free from the American Mathematical Society
- [Electronic Library of Mathematics \(ELibM\)](#) free from the European Mathematical Society
- [National Academies Press e-books](#)
- [Online mathematics textbooks](#) - free from Georgia Institute of Technology

Free reference works online

- [Encyclopaedia of mathematics](#) from Springer Verlag
- [MacTutor - history of mathematics and famous mathematicians](#)
- [Mathworld](#) - A comprehensive and interactive mathematics encyclopedia intended for students, educators, math enthusiasts, and researchers

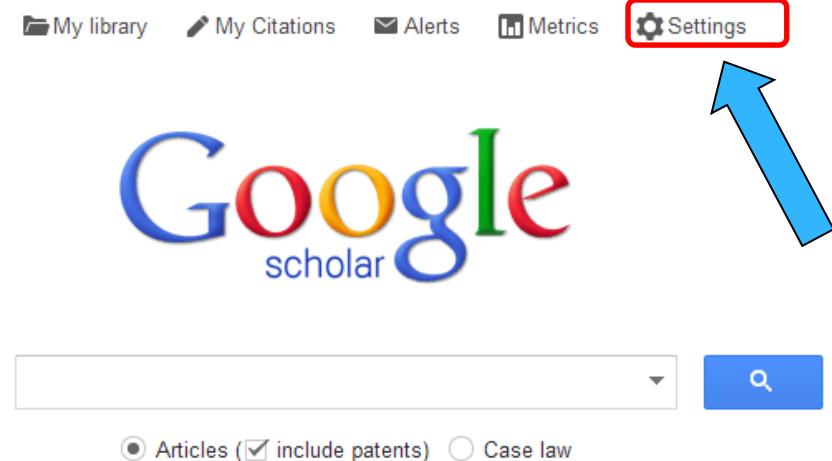
Google Scholar?

Search for: peer-reviewed articles/papers, theses, book citations, abstracts and technical reports from many subjects

Full text? Not all scholarly info is free, but you can check against UoB resources for full text

Comprehensive? Do not rely on just one search tool! – Use our scholarly databases like Web of Knowledge for a broader search.

Google Scholar gives you a 'quick look', but is not comprehensive and misses very recent articles and e-books.



On/Off-Campus? If on-campus access you will be recognised and can access full-text for our subscriptions.

If off-campus, use Scholar Preferences to select UoB Library and you will be prompted for BUCs login when accessing full-text

Example: not signed in

Google Scholar search for "finite dimensional vector space".

Scholar About 3,030,000 results (0.08 sec)

Articles [book] Undergraduate Texts in Mathematics
PR Halmos, FDV Spaces - 1974 - Springer
... Halmos: Finite-Dimensional Vector Spaces. ... Kemeny/Snell: Finite Markov Chains. ... There is some background on metric and vector spaces, but the bulk of this part deals with applications of the implicit-function theorem to the study of surfaces and manifolds, tangent and normal ...
Cited by 2073 Related articles All 15 versions Cite Save More

Any time [CITATION] Problems of linear algebra and classification of quadruples of subspaces in a finite-dimensional vector space
IM Gelfand, VA Ponomarev - Coll. Math. Spec. Bolyai, 1970
Cited by 190 Related articles Cite Save

Van Nostrand PR Halmos, FDV Spaces - New York, 1958 - JSTOR
DESIGNED as a text for first year graduate students, this book can be used in courses on measure theory as the principal text, and as essential collateral reading in courses on functions of real variables, probability and topological groups. PREREQUISITES are a ...
Cited by 49 Related articles Cite Save

include patents [CITATION] Stability and asymptotic
WA Coppel - 1985 - Heath
Cited by 1513 Related articles Cite Save

include citations [PDF] Moduli of representations of
AD King - The Quarterly Journal of Mathematics, 1995 - oxfordjournals.org
... algebra of the corresponding module is just a vector space, for which ... Theorem 6.1), namely, if the dimension a is ... REPRESENTATION
Cited by 583 Related articles All 6 versions Cite Save More

[CITATION] Finite dimensional multilinear algebra
M Marcus - 1975 - M. Dekker
Cited by 467 Related articles Cite Save More

[book] Detecting strange attractors in turbulence
F Takens - 1981 - Springer

In Google Scholar if I'm not signed in with my Bath username and password I might not access content

[PDF] from uni-bielefeld.de

[PDF] from ucv.vc

Not signed in: Paywall

The screenshot shows the Springer Link homepage. At the top right, there are links for "» Sign up / Log in" and "English". Below the header is a search bar with a magnifying glass icon and a gear icon for settings. Under the search bar, there are links for "Home" and "Contact Us". A blue navigation bar at the top has icons for "Look Inside" (with an eye icon) and "Get Access" (with a key icon). The main content area displays a book cover for "Dynamical Systems and Turbulence" (Volume 898 of Lecture Notes in Mathematics). The cover features the editors' names, David Rand and Lai-Sang Young, and the publication details: "Coventry, England 1979/80". A large orange "Look Inside" button is on the right. In the bottom left, there is a red-outlined box containing a "Buy chapter" button and the price "\$29.95 / €24.95 / £19.95 *". A large blue arrow points from this red-outlined box to the text "A message like this will appear" located in the bottom right corner of the image.

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Contributed Papers
Dynamical Systems and Turbulence, Warwick 1980
Volume 898 of the series Lecture Notes in Mathematics pp 366-381

Date: 07 October 2006

Detecting strange attractors in turbulence

Floris Takens

Buy chapter

\$29.95 / €24.95 / £19.95 *

A message like this will appear

Not signed in look for log-in



» Sign up / Log in English Academic edition

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Athens and Shibboleth login

Athens and Shibboleth allow you to log on to multiple web resources using the same credentials and be recognized as belonging to your parent organization. Please contact your librarian or administrator to find out if you can access this site using these systems.

Log in via Athens

Look for an institutional log-in
and find University of Bath

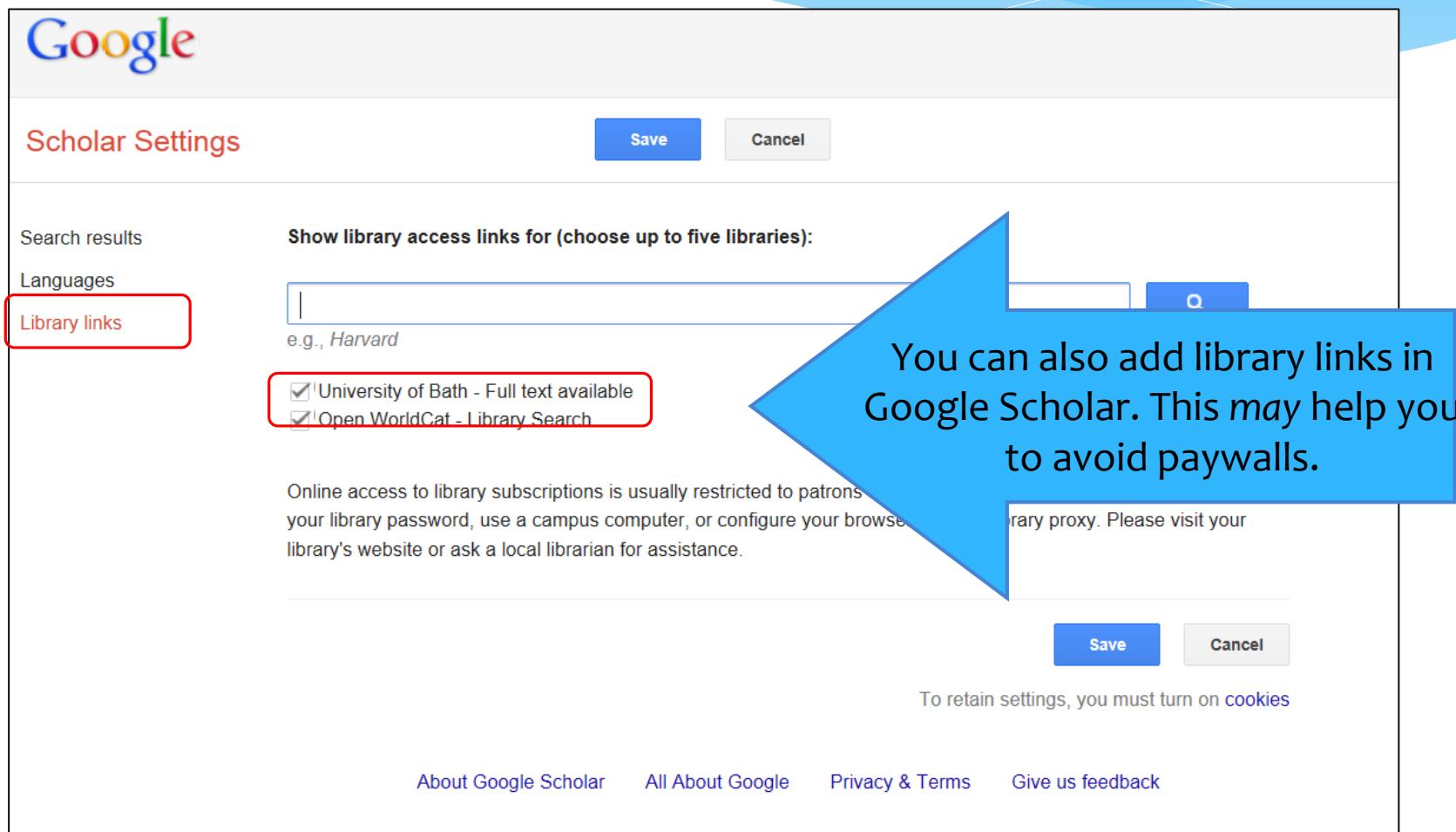
[Proceed to Athens](#)

Or, find your institution (via Shibboleth)

Select your institution

[Log in via Shibboleth](#)

Google Scholar: link to library



The screenshot shows the 'Scholar Settings' page in Google Scholar. The 'Library links' section is highlighted with a red box. It contains a text input field with 'e.g., Harvard' placeholder text, a checkbox for 'University of Bath - Full text available' (which is checked), and another checkbox for 'Open WorldCat - Library Search' (which is also checked). A large blue arrow points from the right towards this section with the text: 'You can also add library links in Google Scholar. This may help you to avoid paywalls.' Below the input field, a note states: 'Online access to library subscriptions is usually restricted to patrons. To access these resources, enter your library password, use a campus computer, or configure your browser to use your library's proxy. Please visit your library's website or ask a local librarian for assistance.' At the bottom of the page, there are 'Save' and 'Cancel' buttons, and a note: 'To retain settings, you must turn on cookies'.

Google

Scholar Settings

Save Cancel

Search results Languages Library links

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

e.g., Harvard

University of Bath - Full text available

Open WorldCat - Library Search

Online access to library subscriptions is usually restricted to patrons. To access these resources, enter your library password, use a campus computer, or configure your browser to use your library's 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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You will still need to sign in when off-campus

Google Scholar search results for "Finite-dimensional vector spaces".

Search bar: Finite-dimensional vector spaces

Results: About 281,000 results (0.15 sec)

Left sidebar:

- Scholar
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- Since 2014
- Since 2013
- Since 2010
- Custom range...
- Sort by relevance
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- include patents
- include citations
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Search results:

- Finite-Dimensional Vector Spaces**
MT Vaughn - Introduction to Mathematical Physics, 2007 - Wiley Online Library
Many physical systems are described by linear equations. The simple harmonic oscillator is the first example encountered by most students of physics. Electrical circuits with resistance, capacitance, and inductance are linear systems with many independent variables. ...
[Cite](#) [Save](#) [More](#)
- Finite-Dimensional Vector Spaces**
S Axler - Linear Algebra Done Right, 1997 - Springer
In the last chapter we learned about **vector spaces**. Linear algebra focuses not on arbitrary **vector spaces**, but on **finite-dimensional vector spaces**, which we introduce in this chapter. Here we will deal with the key concepts associated with these **spaces**: span, linear ...
[Cite](#) [Save](#) [More](#)
- Finite-Dimensional Vector Spaces**
L Marchildon - Quantum Mechanics, 2002 - Springer
Abstract The theory of **vector spaces** and of operators defined in them is the fundamental mathematical tool of quantum mechanics. This chapter summarizes, usually without proofs, the properties of **finite-dimensional vector spaces**. 1 Readers familiar with these results ...
[Cite](#) [Save](#)
- Finite-Dimensional Vector Spaces**
S Hassani - Mathematical Methods, 2009 - Springer
Human visual perception of dimension is limited to two and three, the plane and **space**. However, his mental perception, and his ability to abstract, recognizes no bounds. If this abstraction were a mere useless mental exercise, we would not bother to add this chapter ...
[All 2 versions](#) [Cite](#) [Save](#) [More](#)
- [CITATION] Linear equations and inequalities on finite dimensional, real or complex, vector spaces: A unified theory**
A Ben-Israel - Journal of Mathematical Analysis and Applications, 1969 - Academic Press
Cited by 149 Related articles Web of Science: 81 [Cite](#) [Save](#)
- Linear independence of Gabor systems in finite dimensional vector spaces**
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When you click on “full-text” available you will usually need to enter your Bath username and password or look for an institutional log-in.



Full text available

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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



Databases

what, where & why?

Starting out:

- 1. Which database do I use?**

Depends on:

- The general subject area of your search
- The type of publication you're looking for

- 2. Write down what you're searching for - split it up into parts**

- 3. Choose keywords to describe your search**

- 4. Think about how to enter your search on that database**



The Library Databases

The Library subscribes to a range of databases:

1. Some cover many subject areas
e.g. **Web of Science**
2. Others focus on Maths specifically
e.g. **MathSciNet; EMIS**
3. Some cover particular types of publication
e.g. **Index to Theses**



Library homepage



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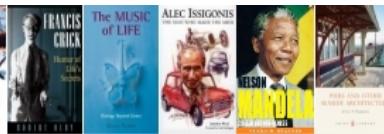
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Subject resources

Your subject librarians look after a page full of useful resources, tailored to your courses



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Mathematical Sciences

For more information, please email your Subject Librarian, [Emma Stuart Edwards](#), tel: +44 (0)1225 385809. You can also visit Emma in the Library: Room 4.02. The department's Library Rep is Dr. Euan Spence.

Reading lists: [year 1](#), [year 2](#), [year 3/4](#). To find a recommended book or journal, search the [Library Catalogue](#).

Databases – find journal articles and more

Essential for finding articles, conference papers & more beyond your reading list

[EMIS – The European Mathematical Information Service](#)

- [MathSciNet](#) –  guide
- [SCOPUS](#) – peer-reviewed articles and patents in all subjects – guide / training videos
- [Web of Science](#) –  guide & tutorial – [viewing results](#)

More databases for Mathematical sciences

Recommended resources

• [Useful websites](#): subject gateways and search engines: search for reports, grey literature, organisations...

• [Finding & submitting theses & dissertations](#)

• [Images, film & other media](#)

• Keep up-to-date with the [Library News blog](#)

• [Oxford Reference](#) – Maths dictionaries



Database links are listed on the Resources for your Subject library web-page.

Exam papers online

• Search for [exam papers](#) to read online

Help with finding & referencing information

• [Library catalogue](#): find print/online books & journals

• How to [find & evaluate](#) relevant information

• How to [reference](#) information

• Help with using [LaTeX](#)

• Help with using [BibTeX Reference Management Software](#)

Moodle

• Access your [Moodle](#) VLE modules

• [Academic Writing Skills](#): tutorial

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Theses and dissertations

Masters dissertations

A sample of dissertations submitted for taught Masters degree courses are held for five years. Dissertations received since September 2011 are available online to members of the University of Bath only. Print copies received before September 2011 are available from the Issue Desk for use in the Library only. Not all departments require students to submit their dissertation to the Library: check with your department if copies are available elsewhere.

- [View dissertations listed by degree programme](#)
- [How to submit your dissertation to the Library](#)

Undergraduate dissertations

Undergraduate dissertations are not held in the Library.

Research theses

The Library holds copies of all theses submitted to the University of Bath for the award of PhD, MPhil, etc.

- [How to submit your thesis to the Library](#)

Print copies of theses submitted in the last ten years are available immediately from the Issue Desk in the Library. Requests for theses submitted more than ten years ago are satisfied by an overnight service: please order from the [Issue Desk](#). Print copies are for use in the Library only.

Many theses are also available online in [Opus](#), the University of Bath Research repository, or from [ETHOS](#), the British Library's Electronic Theses Online Service. Check the catalogue for online availability.

View theses by department in the catalogue:

- [Architecture and Civil Engineering](#)
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- [Pharmacy and Pharmacology](#)
- [Physics](#)
- [Politics, Languages and International Studies](#)
- [Psychology](#)
- [Social and Policy Sciences](#)
- [Sport and Exercise Science](#)

View print and online theses in the library catalogue

- [Electronic and Electrical Engineering](#)
- [European Studies and Modern Languages](#)

Theses from other universities

Many of the theses found on these sites can be downloaded im

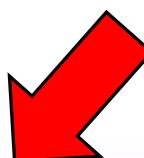
- [ETHOS: the UK's national thesis service](#)
- [ProQuest Dissertations & Theses: UK & Ireland](#)
- [NDLTD: Networked Digital Library of Theses and Dissertations](#)
- [DART-Europe](#)
- [PQDT Open: provides the full text of open access dissertations and theses free of charge.](#)
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re not available online.

View UK & Ireland theses and dissertations



ProQuest Dissertations & Theses: UK & Ireland

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ProQuest Dissertations & Theses: UK & Ireland

This database is the most comprehensive available record of doctoral theses from the United Kingdom and Ireland. The collection offers the most comprehensive available listing of theses, with abstracts accepted for higher degrees by universities in the United Kingdom and Ireland, since 1716.

You have access to:

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- [ProQuest Dissertations & Theses: UK & Ireland: Science & Technology](#)
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Search tip

By default, we will look for documents with all the terms entered.

Use "quotation marks" to search for exact phrases.

Separate terms with OR to find any of the words entered.

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Key databases 1: references/links

Follow proxy  to automatically check for full text via our subscriptions.

* **MathSciNet (1940-):**

Indexes American Mathematical Society (AMS) publications:

- Mathematical Reviews and Current Mathematical Publications
- Articles, books, conference proceedings and audio-visual material
- Critical reviews are given for most items, with some links to full text

* **SCOPUS (c.1996-):**

Peer-reviewed articles, websites and patents in all subjects. 46 million records. Not as strong as Web of Science for Conference Proceedings.

* **Web of Science (c.1945-):**

Articles & proceedings in all sciences. Millions of records.

MathSciNet

AMERICAN MATHEMATICAL SOCIETY
MathSciNet[®] *Mathematical Reviews on the Web*
ISSN 2167-5163

* [LIVE DEMO](#)

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Yes No

Headlines per page

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Display Reference Lists

Yes No

Headlines

Full Simple

Display DML Items

Yes No

Font Face

Sans Serif Serif

Headline Numbering

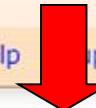
Yes No

Language

English ▾

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MR: Publications results for "Title=(multivariate and a...")

AMERICAN MATHEMATICAL SOCIETY
MathSciNet Mathematical Reviews on the Web

Matches: 726 Show first 100 results Select Page: Previous 1 2 3 4 5 6 Next

Batch Download: **Reviews (HTML)** Retrieve Marked | Retrieve First 50 | Unmark All

Publications results for "Title=(multivariate and analysis)"

MR2471624 Chen, Bingshu E.; Cook, Richard J. The analysis of multivariate recurrent events with partially missing event types. *Lifetime Data Anal.* 15 (2009), no. 1, 11–59. 62H12 (62G15 62H15 62P10)
PDF | Doc Del | Clipboard | **Journal** | Article

Full text

MR2482594 Mukhopadhyay, Parimal Multivariate statistical analysis. *World Scientific Publishing Co. Pte. Ltd.* Hackensack, NJ, 2009. xviii+549 pp. ISBN: 978-981-270-175-7 981-270-175-2 60-02 (60Hx)
PDF | Doc Del | Clipboard | **Journal** | Article

No full text

MR2492719 Roberts, Stephen G.; Bolt, Sarah A note on the convergence analysis of a sparse grid multivariate probability density estimator. *ANZIAM J.* 50 (2008), (C), C858--C870. 65C60
PDF | Doc Del | Clipboard | **Journal** | Article

To see if the library has the journal click on Bath Links

MR2418506 Ishak, K. Jack; Platt, Robert W.; Joseph, Lawrence; Hanley, James A. Impact of approximating or ignoring within-study covariances in multivariate meta-analyses. *Stat. Med.* 27 (2008), no. 5, 670--686. Database Expansion Item
PDF | Doc Del | Clipboard | **Article**

Click author link to filter results by that author

MR247 (French) (2008) **MR247** rétrospective des données et sciences humaines: comment cartographier le monde social? [The social sciences: how can society be mapped?] *J. Électron. Hist. Probab. Stat.* 4
rehistoire de l'analyse des données par J.-P. Benzécri: un cas de généalogie [The history and prehistory of multivariate data analysis: a case of retrospective genealogy] *J. Électron. Hist. Probab. Stat.* 4 (2008), no. 2, 24 pp. 01A70
PDF | Doc Del | Clipboard | **Journal** | Article

links

links

links

links

Format references

Save results to your Clipboard:

- Click on the **Clipboard** link under each record you want to save
- Click the **Clipboard** link at the top of the page to view selected records
- Select format using the drop-down list e.g. **BibTeX** or **EndNote** citations
- Click **SaveClip** to view citations in chosen format

Save records:

- Save the citations e.g. File, Save as .txt file for EndNote Import

Collections, clipboards & citations

- * A saved profile can enable you to save records of papers you are interested in to a clipboard, marked folder or 'collection'
- * You can often print or email these records, or...
- * Export records (with or without abstracts) to reference management software e.g. BibTeX, or as a compatible file e.g. RIS



Carrying out your search

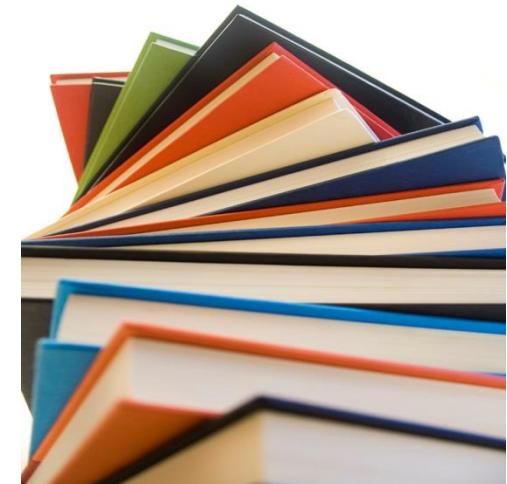
1. Run your search
2. **Review your results** → **refine your search**
 - Consider number of results
 - Look at good and bad matches
 - Look at the subject headings and keywords you retrieved
3. Save/store your results
4. Retrieve the full text materials
5. Read, analyse, review!



Finding the full text

Try:

1. **Links from the database** 
2. **The Library catalogue**
 - Link to full text from our [catalogue record](#)
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Exercise 2

- * Try searching MathSciNet following exercise 2 on the handout

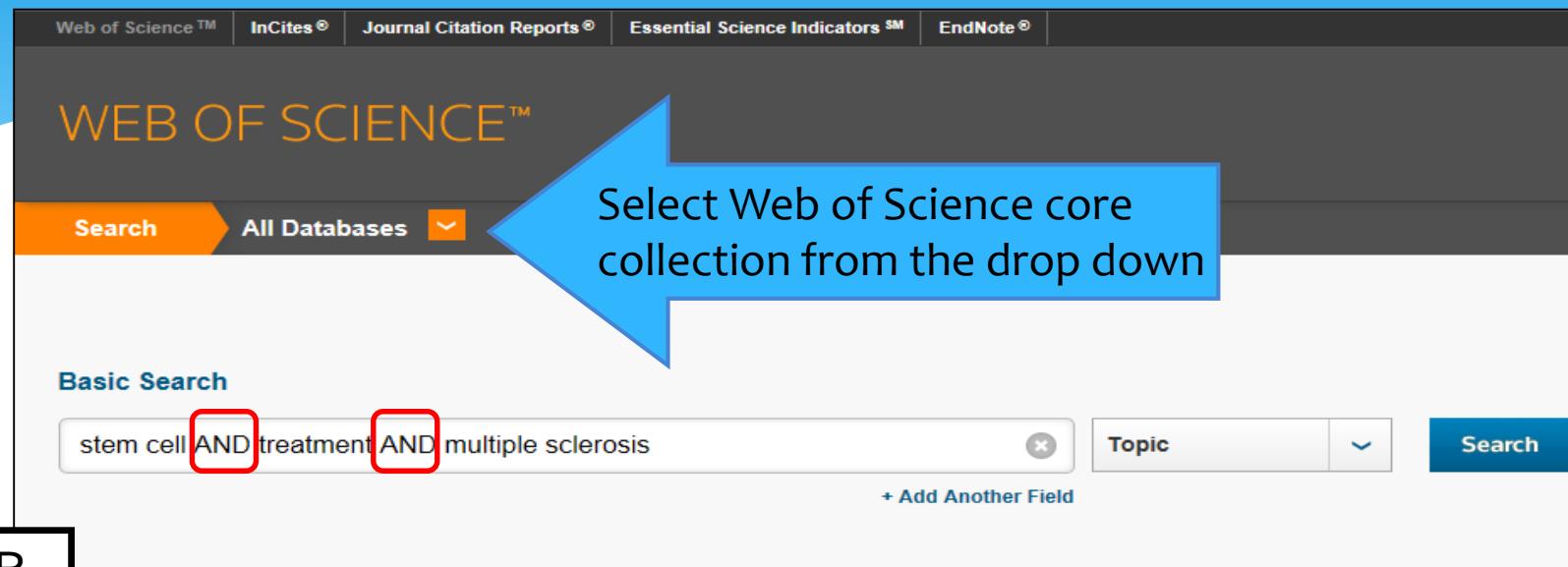
Example topic search

* Web of Science

WEB OF KNOWLEDGESM | DISCOVERY STARTS HERE

Web of Science®

Search terms



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WEB OF SCIENCE™

Search All Databases

Basic Search

stem cell **AND** treatment **AND** multiple sclerosis

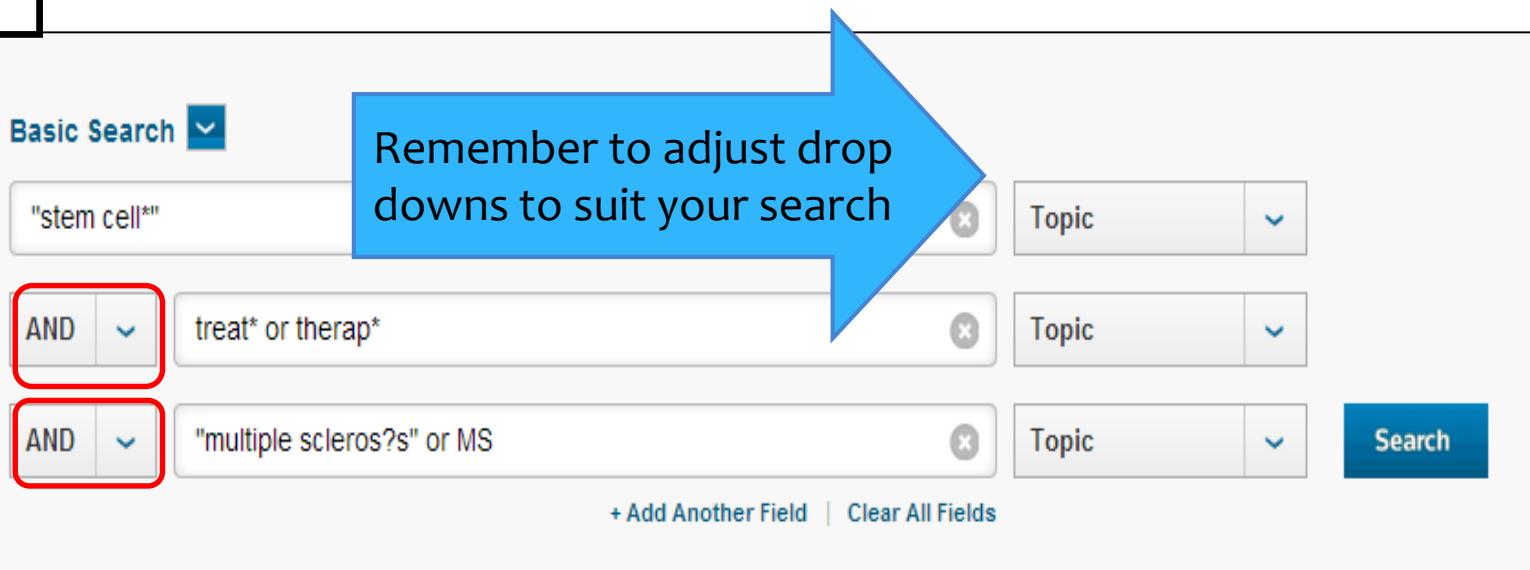
Select Web of Science core collection from the drop down

Topic Search

+ Add Another Field

OR

This screenshot shows the Web of Science search interface. A large blue arrow points from the text "Select Web of Science core collection from the drop down" to the "All Databases" dropdown menu. The search bar contains the query "stem cell AND treatment AND multiple sclerosis". Below the search bar, a "Topic" dropdown is shown. A black box labeled "OR" is positioned to the left of the search interface.



Basic Search

"stem cell"

Remember to adjust drop downs to suit your search

Topic

AND **Topic**

treat* or therap*

AND **Topic**

"multiple scleros?s*" or MS

Topic Search

+ Add Another Field | Clear All Fields

This screenshot shows the Web of Science search interface with a different search query: "stem cell*" AND ("treat*" or "therap*") AND ("multiple scleros?s*" or "MS"). A large blue arrow points from the text "Remember to adjust drop downs to suit your search" to the "Topic" dropdowns for the first and second AND operators. The dropdowns for these AND operators are highlighted with red boxes.

Search results

Back to Search

Results: 707

You searched for:
TOPIC: (stem cell) AND TOPIC: (tre...More)

[Create Alert](#)

Refine Results

Search within results for... 

Web of Science Categories

- NEUROSCIENCES (183)
- CLINICAL NEUROLOGY (168)
- IMMUNOLOGY (114)
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- ARTICLE (445)
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Research Areas

Authors

Sort by: Publication Date -- newest to oldest 

Page 1 of 71 

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Times Cited: 0 (from Web of Science Core Collection)

1. **The coupling of bone and cartilage turnover in osteoarthritis: opportunities for bone antiresorptives and anabolics as potential treatments?**
By: Karsdal, M. A.; Bay-Jensen, A. C.; Lories, R. J.; et al.
ANNALS OF THE RHEUMATIC DISEASES Volume: 73 Issue: 2 Pages: 336-348 Published: FEB 2014
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2. **T cells from autoimmune patients display reduced sensitivity to immunoregulation by mesenchymal stem cells: Role of IL-2**
By: Ben-Ami, Eyal; Miller, Ariel; Berrih-Aknin, Sonia
AUTOIMMUNITY REVIEWS Volume: 13 Issue: 2 Pages: 187-196 Published: FEB 2014
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Times Cited: 0 (from Web of Science Core Collection)

3. **Hypertension and kidneys: unraveling complex molecular mechanisms underlying hypertensive renal damage**
By: Mennuni, S.; Rubattu, S.; Pierelli, G.; et al.
JOURNAL OF HUMAN HYPERTENSION Volume: 28 Issue: 2 Pages: 74-79 Published: FEB 2014
[Full Text](#) [View Abstract](#)

Times Cited: 0 (from Web of Science Core Collection)

4. **Boning up on autophagy The role of autophagy in skeletal biology**
By: Shapiro, Irving M.; Layfield, Robert; Lotz, Martin; et al.
AUTOPHAGY Volume: 10 Issue: 1 Pages: 7-19 Published: JAN 1 2014
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Times Cited: 0 (from Web of Science Core Collection)

5. **COMPRESSION INJURY IN THE MOUSE SPINAL CORD ELICITS A SPECIFIC PROLIFERATIVE RESPONSE AND DISTINCT CELL FATE ACQUISITION ALONG ROSTRO-CAUDAL AND DORSO-VENTRAL AXES**
By: McDonough, A.; Hoang, A. -N.; Monterrubio, A. M.; et al.
NEUROSCIENCE Volume: 254 Pages: 1-17 Published: DEC 19 2013
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Times Cited: 0 (from Web of Science Core Collection)

6. **Sonic hedgehog promotes generation and maintenance of human forebrain Olig2 progenitors**
By: Ortega, J. Alberto; Radonjic, Nevena V.; Zecevic, Nada
FRONTIERS IN CELLULAR NEUROSCIENCE Volume: 7 Article Number: UNSP 254 Published: DEC 13 2013
[Full Text](#) [View Abstract](#)

Times Cited: 0 (from Web of Science Core Collection)

7. **Stem Cell Transplantation in Traumatic Spinal Cord Injury: A Systematic Review and Meta-**
Times Cited: 0

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- IMMUNOLOGY (192)
- HEMATOLOGY (190)
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Refine

Document Types ▾

- ARTICLE (946)
- REVIEW (317)
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- PROCEEDINGS PAPER (75)
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Page 1 of 141 

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1. T cells from autoimmune patients display reduced sensitivity to immunoregulation by mesenchymal stem cells: Role of IL-2

By: Ben-Ami, Eyal; Miller, Ariel; Berrih-Aknin, Sonia
AUTOIMMUNITY REVIEWS Volume: 13 Issue: 2 Pages: 187-196 Published: FEB 2014

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(from Web of Science Core Collection)

2. Youth and Environmental Enrichment Generate Serum Exosomes Containing miR-219 that Promote CNS Myelination

By: Pusic, Aya D.; Kraig, Richard P.
GLIA Volume: 62 Issue: 2 Pages: 284-299 Published: FEB 2014

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Times Cited: 0
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3. On-line solid phase extraction-liquid chromatography, with emphasis on modern bioanalysis and miniaturized systems

By: Rogeberg, Magnus; Maledod, Helle; Roberg-Larsen, Hanne; et al.
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4. Quantification of Human Plasma-Busulfan Concentration by Liquid Chromatography-Tandem Mass Spectrometry

By: Moon, Woo Young; Lim, Min Kyoo; Hong, Susie; et al.
ANALYTICAL LABORATORY MEDICINE Volume: 34 Issue: 1 Pages: 7-14 Published: JAN 2014

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5. Endogenous Myelin Repair by Oligodendroglial Cells in Experimental Autoimmune

By: Iann, Saeed; Sataliani, Leila; Asgarian, Alireza; et al.
NEUROLOGIC DISEASES Volume: 13 Issue: 1 Pages: 45-52 Published: 2014

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6. Stromal Cell-Derived Factor 1 alpha-Stimulated Mesenchymal Stem Cells Confer Enhanced Protection Against Light-Induced Retinal Degeneration in Rats

By: Xu, Wei; Wang, Xiao-Ting; Xu, Guo-Xing; et al.
CURRENT EYE RESEARCH Volume: 39 Issue: 1 Pages: 69-78 Published: JAN 2014

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- REVIEW (317)
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1. **On-line solid phase extraction-liquid chromatography, with emphasis on modern bioanalytical miniaturized systems**

By: Rogeberg, Magnus; Malerod, Helle; Røberg-Larsen, Hanne; et al.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS Volume: 87 Special Issue: SI Pages: 120-126 Published: JAN 18 2014

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2. **Mechanisms of oligodendrocyte regeneration from ventricular-subventricular zone-derived progenitor cells in white matter diseases**

By: Maki, Takumi; Liang, Anna C.; Miyamoto, Nobukazu; et al.
FRONTIERS IN CELLULAR NEUROSCIENCE Volume: 7 Article Number: 275 Published: DEC 26 2013

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3. **The secretome of mesenchymal stem cells: Potential implications for neuroregeneration**

By: Paul, Gesine; Anisimov, Sergey V.
BIOCHIMIE Volume: 95 Issue: 12 Pages: 2246-2256 Published: DEC 2013

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4. **Stem cell therapy in amyotrophic lateral sclerosis**

By: Meamar, Rokhsareh; Nasr-Esfahani, Mohammad Hossein; Mousavi, Seyed Ali; et al.
JOURNAL OF CLINICAL NEUROSCIENCE Volume: 20 Issue: 12 Pages: 1659-1663 Published: DEC 2013

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5. **Oligodendrogenesis from neural stem cells: Perspectives for remyelinating strategies**

By: Grade, Sofia; Bernardino, Liliana; Malva, Joao O.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE Volume: 31 Issue: 7 Special Issue: SI Pages: 692-700 Published: NOV 2013

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6. **Towards a 'systems'-level understanding of the nervous system and its disorders**

By: Qureshi, Irfan A.; Mehler, Mark F.
TRENDS IN NEUROSCIENCES Volume: 36 Issue: 11 Pages: 674-684 Published: NOV 2013

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7. **The application of proteomic approaches to the study of mammalian spermatogenesis and sperm function**

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Full Text  Back to List  1 of 317 

On-line solid phase extraction-liquid chromatography, with emphasis on modern bioanalytical systems and miniaturized systems

By: Rogeberg, M (Rogeberg, Magnus)^[1]; Malerod, H (Malerod, Helle)^[1,2]; Roberg-Larsen, Cecile^[1]; Wilson, SR (Wilson, Steven Ray)^[1]

JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS
Volume: 87 Pages: 120-129 Special Issue: SI
DOI: 10.1016/j.jpba.2013.05.006
Published: JAN 18 2014
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Abstract
On-line solid phase extraction (SPE)-liquid chromatography (LC) allows for automated, sensitive, precise and selective bioanalysis. It is a common feature in miniaturized- or nano LC systems, which are well suited for applications requiring high sensitivity and/or treatment of limited samples (laser micro-dissection samples, rare cancer stem cells, etc.). Traditionally, particles with reversed phase (RP) functional groups are used for the columns in SPE-LC systems. There is however an expanding diversity in SPE-LC combinations applied to meet today's bioanalytical challenges. Current online SPE-LC combinations employ, e.g. porous graphitic carbon (PGC) and hydrophilic interaction liquid chromatography (HILIC) materials for metabolomics and glycomics, restricted access media (RAM) columns coupled with nano LC for peptidomics, immunoaffinity trap columns for targeted proteomics and metal oxide affinity phases for phosphopeptide analysis. However, issues can arise when combining different phases in on-line SPE-LC, e.g. due to solvent incompatibilities between enrichment/separation principles and sample solvent requirements. Consequences can be low recovery and poor resolution, or need for additional instrumentation. On-line SPE-LC with very narrow columns (10-20 μ m inner diameters) can be appropriate to obtain maximum sensitivity and information. In such highly miniaturized systems, non-particulate columns are arguably more suited (e.g. monolithic or porous layer open tubular (PLOT) columns) as e.g. hardware contributions resulting in extra column volumes are reduced. Basic SPE-LC systems can be configured/modified to perform quite complex analytical operations, and certain columns, configurations and hardware can improve robustness. (C) 2013 Elsevier B.V. All rights reserved.

Keywords
Author Keywords: On-line SPE-LC; Nano LC; Selectivity; Enrichment; Bioanalysis
KeyWords Plus: TANDEM MASS-SPECTROMETRY; HYDROPHILIC INTERACTION CHROMATOGRAPHY; POROUS POLYMER MONOLITHS; COLUMN-SWITCHING TECHNIQUES; SILICA CAPILLARY COLUMNS; LC-ESI-MS; TRAP COLUMN; PROTEOME ANALYSIS; STATIONARY-PHASE; GRAPHITIC CARBON

Author Information
Reprint Address: Wilson, SR (reprint author)
+ Univ Oslo, Dept Chem, Post Box 1033, N-0315 Oslo, Norway.
Address: 

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Document Types

Research Areas

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Editors

Source Titles

Sort by:

- Selected
- Publication Date -- newest to oldest
- Publication Date -- newest to oldest
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- Recently Added
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- Times Cited -- lowest to highest
- Relevance
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- First Author -- Z to A
- Source Title -- A to Z

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Page 1 of 32 

 Re-order results
e.g. times cited

1. **Mechanisms of oligodendrocyte regeneration from ventricular-subventricular zone-derived progenitor cells in white matter diseases**
By: Maki, Takakuni; Liang, Anna C; Miyamoto, Nobukazu; et al.
FRONTIERS IN CELLULAR NEUROSCIENCE Volume: 7 Article Number: 275 Published: DEC 26 2013
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2. **The secretome of mesenchymal stem cells: Potential implications for neuroregeneration**
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BIOCHIMIE Volume: 95 Issue: 12 Pages: 2246-2256 Published: DEC 2013
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By: Meamar, Rokhsareh; Nasr-Esfahani, Mohammad Hossein; Mousavi, Seyed Ali; et al.
JOURNAL OF CLINICAL NEUROSCIENCE Volume: 20 Issue: 12 Pages: 1659-1663 Published: DEC 2013
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By: Grade, Sofia; Bernardino, Liliana; Malva, Joao O.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE Volume: 31 Issue: 7 Special Issue: SI Pages: 692-700 Published: NOV 2013
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By: Qureshi, Irfan A.; Mehler, Mark F.
TRENDS IN NEUROSCIENCES Volume: 36 Issue: 11 Pages: 674-684 Published: NOV 2013
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By: Roberg-Larsen, Hanne; et al.
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Research Areas

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Page 1 of 32 

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1. **Multiple sclerosis**
By: Compston, Alastair; Coles, Alasdair
LANCET Volume: 372 Issue: 9648
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2. **The therapeutic potential of ne...**
By: Martino, G; Pluchino, S
NATURE REVIEWS NEUROSCIENCE Volume: 7 Issue: 5 Pages: 395-406 Published: MAY
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3. **Stem and progenitor cell-based therapy of the human central nervous system**
By: Goldman, S
NATURE BIOTECHNOLOGY Volume: 23 Issue: 7 Pages: 862-871 Published: JUL 2005
[Full Text](#) [View Abstract](#)

4. **Stem cell repair of central nervous system injury**
By: Cao, QL; Benton, RL; Whittemore, SR
JOURNAL OF NEUROSCIENCE RESEARCH Volume: 68 Issue: 5 Pages: 501-510 Published: JUN 1 2002
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5. **Clinical applications of blood-derived and marrow-derived stem cells for nonmalignant diseases**
By: Burt, Richard K.; Loh, Yvonne; Pearce, William; et al.
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 299 Issue: 8 Pages: 925-936 Published: FEB 27 2008
[Full Text](#) [View Abstract](#)

6. **Rituximab: Expanding role in therapy for lymphomas and autoimmune diseases**
By: Rastetter, W; Molina, A; White, CA
ANNUAL REVIEW OF MEDICINE Volume: 55 Pages: 477-503 Published: 2004
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7. **Stem Cell-Based Cell Therapy in Neurological Diseases: A Review**
By: Kim, Seung U; de Vellis, Jean
JOURNAL OF NEUROSCIENCE RESEARCH Volume: 87 Issue: 10 Pages: 2183-2200 Published: AUG 1 2009
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Times Cited: 158
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Citing articles

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For: Multiple sclerosis ...[More](#)

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Refine Results



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1. **Higher levels of reported sun exposure, and not vitamin D status, are associated with less depressive symptoms and fatigue in multiple sclerosis**

Times Cited: 0
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By: Knippenberg, S.; Damoiseaux, J.; Bol, Y.; et al.
ACTA NEUROLOGICA SCANDINAVICA Volume: 129 Issue: 2 Pages: 123-131 Published: FEB 2014

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2. **Human T follicular helper (Tfh) cells and disease**

Times Cited: 1
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By: Ma, Cindy S.; Deenick, Elissa K.
IMMUNOLOGY AND CELL BIOLOGY Volume: 92 Issue: 1 Pages: 64-71 Published: JAN 2014

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3. **Neuroimaging of Multiple Sclerosis, Acute Disseminated Encephalomyelitis, and Other Demyelinating Diseases**

Times Cited: 0
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By: Bester, Maxim; Petracca, Maria; Inglesi, Matilde
SEMINARS IN ROENTGENOLOGY Volume: 49 Issue: 1 Pages: 76-85 Published: JAN 2014

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4. **The perceptions of people with multiple sclerosis about the NHS provision of physiotherapy services**

Times Cited: 0
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By: Markwick, Rachel; Singleton, Christine; Conduit, Jacky
DISABILITY AND REHABILITATION Volume: 36 Issue: 2 Pages: 131-135 Published: 2014

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5. **Natalizumab for multiple sclerosis: appraising risk versus benefit, a seemingly demanding tango**

Times Cited: 0
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By: Gupta, Sahil; Weinstock-Guttman, Bianca
EXPERT OPINION ON BIOLOGICAL THERAPY Volume: 14 Issue: 1 Pages: 115-126 Published: JAN 2014

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Output results

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Results: 317

You searched for:
TOPIC: ("stem cell") AND TOPIC: (...More)

Create Alert

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Search within results for... 

Web of Science Categories

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1. **Multiple sclerosis**
By: Compston, Alastair; Coles, Alasdair
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2. **The therapeutic potential of neural stem cells**
By: Martino, G; Pluchino, S
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3. **Stem and progenitor cells in the adult brain**
By: Goto, T; Takemoto, T
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JOURNAL OF NEUROSCIENCE RESEARCH Volume: 68 Issue: 5 Pages: 501-510 Published: JUN 1 2002
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JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 299 Issue: 8 Pages: 925-936 Published: FEB 27 2008
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ANNUAL REVIEW OF MEDICINE Volume: 55 Pages: 477-503 Published: 2004
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By: Kim, Seung U; de Vellis, Jean
JOURNAL OF NEUROSCIENCE RESEARCH Volume: 87 Issue: 10 Pages: 2183-2200 Published: AUG 1 2009
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Your Marked List contains records from 1 database(s). For bibliographic data, you can output summary data for all records using the "total records" view, or output more product-specific data from each listed database. For chemistry data, you must output data from each list separately.

3 total records on the Marked List
Output author, title, source, abstract, and times cited for all records in the Marked List.

3 records from Web of Science™ Core Collection
Output complete data from this product for these records.

Output Records

Step 1: Select records.

All records in this list (up to 500)
 All records on page
 Records to

Select All Reset
 Author(s) / Editor(s) Title
 Abstract* Cited References*
 Addresses Times Cited
 ISSN / ISBN Cited Reference Count
 IDS Number Language
 Funding Information Accession Number
*Selecting these items will increase the processing time.

Step 2: Select content.

Select from the fields below:

Source Conference Information
 Document Type Conference Sponsors
 Keywords Publisher Information
 Source Abbrev. Page Count / Chapter Count
 Web of Science Categories Research Areas
 Author Identifiers

Step 3: Select destination. [\[Learn about saving to bibliographic software\]](#)

Send to:

Sort by:

Page 1 of 1

1. Multiple sclerosis
By: Compston, Alastair; Coles, Alasdair
LANCET Volume: 372 Issue: 9648 Pages: 1502-1517 Published: OCT 25 2008

2. The therapeutic potential of neural stem cells
By: Martino, G; Pluchino, S
NATURE REVIEWS NEUROSCIENCE Volume: 7 Issue: 5 Pages: 395-406 Published: MAY 2006

Times Cited: 658
(from Web of Science Core Collection)

Times Cited: 270
(from Web of Science Core Collection)

Click on marked list and you will be given export options



Personal profiles

- * Creating a **free personal account** with a database will often enable you to:
 1. Save your **Search History** & repeat searches later
 2. Set up email alerts/RSS feeds for:
 - **Table of Contents** of future journal issues
 - New papers added to the database matching your search terms i.e. **search alerts**
 - New papers by you/your favourite author(s) i.e. **citation alerts**
- * Look for an option to register, create profile, log in, etc.



Exercise 3

- * Try searching Web of Science following exercise 3 on the handout

Summary

1. **Select and search databases carefully**
 - Develop your search sentences using keywords and syntax e.g. AND/OR
2. **Get to know database coverage and unique features**
 - Chase links and citations to find related articles
 - Refining your results helps – e.g. review articles!
3. **Set up personal profiles on databases for added value**
 - Table of Contents, Author/Keyword or Citation alerting
 - Save time but vary in speed and timeliness – be selective!
4. **Go beyond Google to make the most of subject gateways**
5. **Ask for help when you need it!**

Contact details and questions



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