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"It’s best to know what you are looking for before you start looking for it"

From Winnie the Pooh’s Little Book of Wisdom
Problem formulation and search words

“What is fuzzy thought will be fuzzy searched”

• What is the problem formulation for your subject?
• In what way could the problem be summarized into a question?
• Break down your question – pick the key words/key concepts and combine them strategically
• Try to find different ways to describe your question
Problem formulation and search words

What **environmental impact** has **wind power**?

- environmental impact
- ecological impact
- environmental effects
- nature conservation
- wind power
- wind energy
- wind turbines
- wind farm

Find synonyms, alternative concepts, broader and narrower terms and also opposite concepts

Use word books, handbooks, dictionaries, course books and the databases "thesaurus" to find good search words. Tips: Wikipedia!
Subject guides

Biology

Business studies

Cultural Anthropology
A guide to finding resources within the field of Anthropology

Earth sciences

Economic history

Environmental protection & toxicology

History and History of Science and Ideas
This guide gives tips and advice on searching for information about the subjects.

Information Systems and Human-Computer Interaction

Law

Media and Communication Studies

Medicine, Pharmacology and Health

Peace and Conflict Studies
Ämnesguider

Antikens kultur och samhällsliv
En guide för dig som söker material inom ämnet antikens kultur och samhällsliv

Arabiska
Ämnesguide

Arkeologi
En guide för dig som söker material inom ämnet arkeologi

Arkiv- biblioteks- och museivetenskap
En guide för dig som söker material inom ABM

Astronomi och astrophysik
I den här ämnesguiden får du tips om informationsresurser inom astronomi och astrophysik.

Biologi
Guiden är ett urval av ämnesresurser inom biologi och är sammanställd av bibliotekarierna på Biologibiblioteket vid Uppsala Universitet.

Datavetenskap och IT
I den här ämnesguiden får du tips om informationsresurser inom datavetenskap / IT.

Egyptologi
En guide för dig som söker material inom ämnet egyptologi

Ekonomisk historia
Datavetenskap och IT

I den här ämneguiden får du tips om informationsresurser inom datavetenskap / IT.

Välkommen till ämneguiden i Datavetenskap och IT!

Här får du tips på informationsresurser inom datavetenskap och informationsteknologi. Utvalet har gjorts av biblioteket.

Relaterade ämneguider

- Informationssystem
- Matematik
- Teknik

Några tips till dig som skriver uppsats/examensarbete eller annat arbete.

Universitetsbibliotekets guide: Att söka och referera.
Boka en bibliotekarie - för individuellt hjälp med informationssökning och/eller referenshantering.
Språkverkstaden - kan hjälpa dig med din text. Boka en tid för kostnadsfri vägladning.
UPPSLAGSVERK, ORDBÖCKER OCH HANDBÖCKER INOM DATAVETENSKAP / IT

- Computer Encyclopedia
- ComputerUser High-Tech Dictionary
  Sök definitioner av mer än 7000 "high-tech" termer.
- Dictionary of algorithms, data structures and problems
  Förklaringar och definitioner av algoritmer, standard funktioner, data strukturer och annat. Alfabetisk lista samt ämnesindelad lista.
- Dictionary of Computing
- Dictionary of Information Security
- Dictionary of Information Technology
- Dictionary of the Internet
- Encyclopedia of Machine Learning
- Encyclopedia of Algorithms
- Encyclopedia of Cryptography and Security
- Encyclopedia of Database Systems
- Encyclopedia of Human-Computer Interaction, 2nd ed.
- Encyclopedia of Multimedia
- Encyclopedia of Parallel Computing
- English for Electronics and Computer Science : Study Guide
- English-Japanese, Japanese-English Dictionary of Computer and Data-Processing Terms
- FOLDOC
  En sökbar ordbok av termer (ca 15.000) inom alla områden av datavetenskap och programmering.
- Handbook of Cloud Computing
ALLMÄNNA UPPSLAGSVERK

- Answers.com
  Här kan man samsöka i flera fria engelskspråkiga ordböcker och uppslagsverk på webben. Söktjänsten innehåller också en wikibaserad fråge- och svarstjänst och "Videoanswers".

- Encyclopaedia Britannica Academic Edition
  Ett av varldens största engelskspråkiga uppslagsverk. Innehåller även Merriam-Webster’s Collegiate Dictionary.

- Nationalencyklopedin - NE
  Omfattande allmänt uppslagsverk på svenska. Innehåller även svensk och engelsk ordbok samt atlas.

ALLMÄNNA ORDBÖCKER

- EuroVoc
  EU:s flerspråkiga tesaurus.

- Folkets lexikon
  Engelsk-Svenskt, Svensk-Engelskt lexikon

- IATE Interactive Terminology for Europe

- Merriam Webster

- Merriam-Webster Visual Dictionary Online

- Norstedts ordböcker online (Wordfinder)
  Ordbokspaket med 12 lexikon på 7 språk, i huvudsak från Norstedts förlag.
  mer...

- Oxford English Dictionary

- Svenska akademiens ordlista

- Svenska akademiens ordbok
  historisk ordbok som beskriver all slags skriven svenska från 1521 till våra dagar

- Synonymer.se
  Synonymordbok

- Tyda.se
  Här kan du översätta ord och uttryck mellan engelska och svenska (och tvärtom)
Problem formulation and search words

What environmental impact has wind power?

- environmental impact
- ecological impact
- environmental effects
- nature conservation
- wind power
- wind energy
- wind turbines
- wind farm

Find synonyms, alternative concepts, broader and narrower terms and also opposite concepts

Use word books, handbooks, dictionaries, course books and the databases ”thesaurus” to find good search words. Tips: Wikipedia!
Search techniques

• Truncation (stemming)
  – right hand: comput*
  – left hand: *electric

• masking
  – wom?n, organi?ation

• exact phrase searching
  – “user patterns”
Boolean operators

AND

OR

NOT

(SAME, NEAR, NEAR4)
Boolean operators with brackets

A AND (B OR C)

(A AND B) OR C

or use different search boxes

Search for: "genetically modified organism**
E.g., "heart attack" AND stress
AND plants OR algae
Combine synonyms/alternative concepts with OR

"wind power" OR "wind energy"

Combine different aspects with AND

("wind power" OR wind energy") AND
("environmental impact " OR "ecological impact" OR...)
"electric car" OR "electric cars" OR "electric vehicle" OR "electric vehicles'

AND

"battery system" OR "battery systems"
The search process:

1. Identify your information need
2. Choose search tool/source
3. Choose search words & formulate search queries
4. Search result
5. Critically evaluate
6. Use
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**Summary**

Deliver an optimal user experience to all devices—including tablets, smartphones, feature phones, laptops, and large screens—by learning the basics of responsive web design. In this hands-on guide, UX designer Clarissa Peterson explains how responsive web design works, and takes you through a responsive workflow from project kickoff to site launch.

Ideal for anyone involved in the process of creating websites—not just developers—this book teaches you fundamental strategies and techniques for using HTML and CSS to design websites that not only adapt to any screen size, but also...
1. Learning Responsive Web Design
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... Bootstrap, Skeleton, and Zurb Foundation In Detail Responsive web design is an explosive area of growth in modern web development due to the huge volume of different device sizes and resolutions...
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... Web pages built to be responsive provide the best possible version of their content to match the viewing devices of not just today's devices but tomorrows...
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Chemical Society Reviews, 01/2012, Volume 41, Issue 2
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...One possible route to harnessing these properties for applications would be to incorporate graphene sheets in a composite material.

Graphene-based photocatalytic composites
by An, Xiaogiang; Yu, Jimmy C
RSC Advances, 11/2011, Volume 1, Issue 8
...This is because of the unique optical and electrical properties of the two-dimensional (2-D) material. This review is focused on the recent significant advances in the fabrication and applications of graphene-based hybrid photocatalysis.
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Graphene-based composites
by Huang, Xiao; Qi, Xiaoying; Boey, Freddy; Zhang, Hua

Graphene has attracted tremendous research interest in recent years, owing to its exceptional properties. The scaled-up and reliable production of graphene derivatives, such as graphene oxide (GO) and reduced graphene oxide (rGO), offers a wide range of possibilities to synthesize graphene-based functional materials for various applications. This critical review presents and discusses the current development of graphene-based composites. After introduction of the synthesis methods for graphene and its derivatives as well as their properties, we focus on the description of various methods to synthesize graphene-based composites, especially those with functional polymers and inorganic nanostructures. Particular emphasis is placed on strategies for the optimization of composite properties. Lastly, the advantages of graphene-based composites in applications such as Li-ion batteries, supercapacitors, fuel cells, photovoltaic devices, photocatalysis, as well as Raman enhancement are described (279 references).

Environmental Sciences and Pollution Management

Cited by: 483 Web of Science® 369 Scopus®
Source: PubMed TOXLINE Web of Science Scopus MEDLINE (Ovid)
Publication Title: Chemical Society Reviews
Publisher: ROYAL SOC CHEMISTRY
Volume: 41 Issue: 2
Graphene-based Composite Thin Films for Electronics

Goki Eda and Manish Chhowalla*
Rutgers University, Materials Science and Engineering, Piscataway, New Jersey 08854
DOI: 10.1021/nl8035387
Publication Date (Web): January 27, 2009
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Abstract

Graphene
Polyethylene matrix

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"genetically modified organisms" AND plants AND algae

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<td>Graphene (Online)</td>
<td>6 libraries</td>
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<td>Graphene : a new paradigm in condensed matter and device physics / E.L. Wolf.</td>
<td>3 libraries</td>
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<td>2.</td>
<td>Graphene : fundamentals and emergent applications / Jamie H. Warner, Franziska Schaeffel, Mark Hermann Rimmeli, Alicia Bachmatiuk.</td>
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<td>Choi, Wonbong. (author)</td>
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<td>4.</td>
<td>Katšnelson, M. I. (Mikhail Iosifovich) (author)</td>
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<td>5.</td>
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1. [Graphene (Online)]
   2012
   - E-journal
   6 libraries

2. Wolf, E. L. (author.)
   2014
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   2013
   - Book
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4. Choi, Wonbong. (author)
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   2013
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5. Katšnelson, M. I. (Mikhail Iosifovich) (author)
   Graphene: carbon in two dimensions / Mikhail I. Katšnelson
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Graphene: carbon in two dimensions / Mikhail I. Katsnelson

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ISBN 9780521195409
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English xiv, 351 pages

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Author: Kumar, Suresh
Journal: Biosafety (Los Angeles, Calif.)
ISSN: 2167-0331
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knowledge based systems

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knowledge based systems

Thesaurus Term: knowledge based systems

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- intelligent control
- intelligent tutoring systems
- software agents

Prior Term(s):
- expert systems

Related Term(s):
- deductive databases
- knowledge representation
- planning (artificial intelligence)

Used For:
- intelligent knowledge based systems
- production systems (rules)
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knowledge based systems

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Select Organization  ➤  Finish Search
Author Search

Current selection(s): pears a* (44), in COMPUTER SCIENCE OR Multidisciplinary Sciences (17)

Select the organizations associated with the author (optional)

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1. **Learning to develop learning and teaching of CS**
   By: Berglund, Anders; Pears, Arnold; Alagia, Ali; et al.
   Book Group Author(s): IEEE
   Conference: International Conference on Teaching and Learning in Computing and Engineering (LaTICE) Location: Kuching, MALAYSIA Date: APR 11-13, 2014

2. **Four Feed-forward Principles Enhance Students' Perception of Feedback as Meaningful**
   By: Pears, Arnold; Harland, James; Hamilton, Margaret; et al.
   Book Group Author(s): IEEE
   Conference: International Conference on Teaching and Learning in Computing and Engineering (LaTICE) Location: Kuching, MALAYSIA Date: APR 11-13, 2014
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.

**Example:** J Comp* Appl* Math*

View abbreviation list

**Example:** 1943 or 1943-1945
## 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).

### CITED REFERENCE INDEX

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   - Sponsor(s): Univ Teknologi Malaysia; Uppsala Univ; IEEE Comp Soc; IEEE Comp Soc Special Tech Community Educ; IEEE
   - 2014 INTERNATIONAL CONFERENCE ON TEACHING AND LEARNING IN COMPUTING AND ENGINEERING (LATICE)
   - Book Series: International Conference on Teaching and Learning in Computing and Engineering
   - Pages: 147-148
   - Published: 2014
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   - By: Pears, Arnold; Harland, James; Hamilton, Margaret; et al.
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   - Sponsor(s): Univ Teknologi Malaysia; Uppsala Univ; IEEE Comp Soc; IEEE Comp Soc Special Tech Community Educ; IEEE
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   - Book Series: International Conference on Teaching and Learning in Computing and Engineering
   - Pages: 272-277
   - Published: 2014
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- organic synthesis
- organometallic chemistry
- oxidative stress
- pattern recognition
- photocatalysis
- photonic
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- polymer
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- surface science
- sustainability systems
- biology
- taxonomy
- thin films
- tissue engineering
- adsorption
- aging
- alzheimer's disease
- analytical chemistry
- artificial intelligence
- biochemistry
- biodiversity
- biogeochemistry
- biogeography
- computational biology
- computational chemistry
- computer vision
- condensed matter physics
- conservation
- conservation biology
- data mining
- diabetes
- drug delivery
- education
- electrochemistry
- energy
- evolution
- fluid mechanics
- genetics
- genomics
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- inflammation
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- optimization
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*Publication type:*

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**Document Types**

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- [ ] PROCEEDINGS PAPER (1,479)
- [ ] EDITORIAL MATERIAL (290)
- [x] REVIEW (229)
- [ ] NEWS ITEM (169)

**Search with words e.g.:**

- review, survey, overview, summary, progress
- recent, modern, current, development (often find broader overviews)

in the title- or title/abstract field. Combine the words above with OR

Be critical – does the article really give an overview of what you are looking for?
Review articles

- Critical evaluations of other published studies about a topic
- No original observation
- A meta-analysis
- Shows development within the subject area
- The author decides what is included
- Be aware that it is the author’s opinion
- Good idea to find different review articles
- Good way to get quick introduction and overview
Try more than one database!

Ur: JISC Academic Database Assessment Tool: Number of journal titles: Both active and inactive titles
Exercise 2:

- Inspec
- Web of Science Core Collection
- Scopus
More reference databases:

Medicine and biomedicine:
*PubMed

Forestry:
*Agricola + SLU Library’s databases

Geology:
*GeoRef, GEOBASE

Mathematics and computational science:
*MathSciNet (mathematics)
*Zentralblatt MATH

Check relevant subject guides (some only in Swedish) and Databases A-Z (you can search by subject)
Article databases:

Publishers databases:

**Advantages:** Fulltext databases: everything/most in fulltext. Fulltext search, Updated in real-time

**Disadvantages:** Limited to one publisher, often fewer search functions

**Exemples:**
- **Science Direct (Elsevier):** all subjects
- **ACM Digital Library:** Computer Science/Information Technology
- **IEEE Xplore:** Engineering: Electrical Engineering and Computer Science

Note! The reference databases cover all/a great number of a publishers articles.
Stand on the shoulders of giants
Scholar Settings

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

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- Uppsala universitetsbibliotek - try it @ Uppsala UB
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Verification and validation in computational science and engineering
P. J. Roache - 1998 - Gatcited.org
... Verification and validation in computational science and engineering. Past a Comment.

NetSolve: A network enabled server for solving computational science problems
H. Casanova, J. Dongarra - International Journal of High... 1997 - hpc.sagepub.com
Abstract This paper presents a new system, called NetSolve, that allows users to access computational resources, such as hardware and software, distributed across the network.
The development of NetSolve was motivated by the need for an easy-to-use, efficient ...
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F. Gallopoulos, Y. Saad - Computational Science & Engineering... 1994 - iseep.org
DURING THE EARLY 60s, SOON AFTER HIGH-LEVEL programming languages were introduced, scientists began to envision problem-solving computing environments not only powerful enough to solve complex problems but also able to interact with users on human ...
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Handbook of mathematics and computational science
J.W. Hershey, H. Sticker - 1998 - Springer
Cited by 423 Related articles All 5 versions Cite Save

Computational science and engineering
G. Strang - 2007 - exp.rpi.edu
This section introduces differential equations—d/dt (c (d/dt)): on a line. The difference matrix A in ATCA is changed to a first derivative d/dt. The problem is continuous instead of discrete, with boundary conditions at: t = 0 and at t = 1. We are going beyond the model ...
Cited by 175 Related articles All 5 versions Cite Save

Python scripting for computational science
HP. Langtangen - 2006 - Springer
In this introductory chapter we first look at some arguments why scripting is a promising programming style for computational scientists and engineers and how scripting differs from more traditional programming in Fortran, C, C++, C#, and Java. The chapter continues to ...
Cited by 235 Related articles All 143 versions Cite Save

Computational science demands a new paradigm
JF. Post - US Army - Physics Today, 2001 - climateknowledge.org
The few existing studies of error levels in scientific computer codes indicate that the defect...
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Ångstrombiblioteket print journals, Endast löpande årgång

Scientific American
Alternate title: Scientific American, Special edition (1551-2991)
2002/08/02 - 2009/03/31 / Business Source Premier

Scientific American
Alternate title: Scientific American, Special issue (1048-0943)
1997/06/02 - 1997/12/02 / Business Source Premier

Scientific American earth 3.0 (1947-2129)
2008/09/01 - 2009/06/30 / Business Source Premier
Archive: Issues

Scientific American archive: online access to award-winning collections

The Scientific American archive was recently acknowledged as one of CHOICE’s "Outstanding Academic Titles" for 2012. Ranked amongst 11 resources within the science & technology discipline, the Scientific American archive has also been recognized as one of the top 10 websites reviewed by Choice in 2012.

Available as five collections, this archive is a great addition to an online portfolio. Take a moment to explore the archive and learn about each collection!

Issues:

Supplement Issues  Builders Edition Issues

Current volume

2014 | Volume 310

April  Issue 4

March  Issue 3

February  Issue 2

January  Issue 1

pp 6-92  pp 4-88  pp 4-82  pp 4-84
Datavetenskap och IT

I den här nätguiden får du tips om informationsresurser inom datavetenskap / IT.

Artikeldatabaser

För att söka efter artiklar - klicka på avsnittet Artiklar för att få en lista med länkar till relevanta databaser och andra sökverktyg!

Hur vet man om en artikel eller tidskrift är vetenskapligt granskad (refereed/peer-reviewed)?

I en del artikeldatabaser kan man när man söker, boksa för att man bara vill få fram peer-review artiklar.

I t.ex. Ulrichs International Periodicals kan man snabbt kolla upp om en tidskrift är vetenskapligt granskad (refereed/peer-reviewed).

Hur kan man jämföra och värdera tidskrifter?

ISI Journal Citation Reports (JCR)

Här kan man värdera och jämföra tidskrifter utifrån citeringsstatistik, bland annat med hjälp av så kallad impact factor, ett märk på hur ofta en tidskrift i genomsnitt citatses under en given period. Här förtecknas de ca 11 000 tidskrifter som indexeras i databasen ISI Web of Science. ISI har mycket höga kvalitetskriterier för de tidskrifter de väljer att indexera,(). Du kan söka fram en specifik tidskrift eller ta fram en lista på tidskrifter inom ett ämne.

Scopus Journal Analyzer

Här kan man söka fram de tidskrifter som indexeras i databasen Scopus och få dem analyserade i fråga om totala antalet citningar, publikerade artiklar och en "trend line", detta i diagramform. OBS! Läs här om åtkomsten till Scopus Journal Analyzer off campus.

Google Scholar Metrics

Google Scholar Metrics provide an easy way for authors to quickly gauge the visibility and influence of recent articles in scholarly publications. Scholar Metrics summarizes recent citations to many publications, to help authors as they consider where to publish their new research.

Information om tidskrifter

- Genamics Journal Seek
  Här förtecknas närmare 100 000 tidskrifter. Information om t.ex hur en tidskrifts titel förkortas, eller hur en titelförkortning ska utläsas, ISSN, innehållsbeskrivning, annonskategorier och länkar till tidskriftens webbplats för mer info.

- Ulrichsweb (Ulrich’s Periodicals Directory)
  Här förtecknas närmare 300 000 tidskrifter and andra seriella publictioner. Du kan t.ex. snabbt se om en tidskrift är vetenskapligt granskad och få information om innehåll, språk, startår, hur ofta den kommer ut, vilka databaser du kan använda för att hitta artiklar i den, med mer.

Hitta tidskrifter
**Subject Category Selection**

1) **Select one or more categories from the list.**
   *(How to select more than one)*

   - CLINICAL NEUROLOGY
   - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
   - COMPUTER SCIENCE, CYBERNETICS
   - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE
   - COMPUTER SCIENCE, INFORMATION SYSTEMS
   - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
   - COMPUTER SCIENCE, SOFTWARE ENGINEERING
   - COMPUTER SCIENCE, THEORY & METHODS
   - CONSTRUCTION & BUILDING TECHNOLOGY

2) **Select to view Journal data or aggregate Category data.**
   - View Journal Data - sort by: Impact Factor
   - View Category Data - sort by: Category Title

[Submit]
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## Patent


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- **Google Patent Search**
  Amerikanska patent i fulltext från 1790 och framåt.

- **PatentScope**

- **Nordiska patent**

## Patentverk

- **Patent- och registreringsverket (PRV)**
  Det svenska Patent- och registreringsverketets webbplats där du kan läsa om patent, ladda ner blanketter, beställa patentdokument och mycket mer.

- **European Patent Office (EPO)**

- **World Intellectual Property Organization (WIPO)**
### 1. Noiseless Electromechanical Motor

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### 2. ELECTROMECHANICAL MOTOR

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### 4. PROVISION OF A NORMAL FORCE TO ELECTROMECHANICAL MOTOR

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### 5. Rotating Load Bearer

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An electromechanical motor (1) comprises an object (2) to be moved, a vibrator beam (10), at least two protruding portions (12) attached to the vibrator beam, a normal force providing arrangement (40) applying a normal force (F) between the object and actuating ends (11) of the protruding portions for interaction with the object. The vibrator beam has vibrator beam electrodes (18A, 18B) for exciting at least one vibrator beam active volume (14) of electromechanically active material, enabling bending the vibrator beam perpendicular to a main extension direction of the vibrator beam and along the protruding portions (12). Control electronics (50), connected to the vibrator beam electrodes, is configured for providing resonance electrical signals causing the vibrator beam active volume to induce a resonant bending vibration and is further configured for providing quasi-static electrical signals causing a quasi-static motion of the actuating ends, superimposed on
Noiseless Electromechanical Motor

Description of US2014210311 (A1)

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TECHNICAL FIELD

[0001] The present invention relates in general to fine positioning motors, and in particular to motors driven by excitation of electromechanically active elements.

BACKGROUND

[0002] Motors driven by the action of shape changes of electromechanical elements have been used for a while, in particular for small motors and/or where fine positioning is of importance. Non-exclusive examples of electromechanically active materials are piezoelectric materials and electrostrictive materials. Electromechanical motors can be divided in two main groups: ultrasonic and positioning motors.

[0003] The ultrasonic motors (UM), which operate in the ultrasonic frequency range, are typically relatively fast while the positioning motors (PM) that operate at some few kHz are slow in comparison. The great advantages with the PMs are the possibility to reach resolutions better than nanometres while an UM typically has a resolution in the order of pm. Less known and therefore less utilized is the higher ratio of force-to-volume of the PM in comparison with an UM. This property is partially explained by the possibility to optimise the PM from a force point of view. An important advantage of a UM is the operation in the inaudible frequency range. The motors are completely silent to the human ear as long as the motor is running with constant operating speed. The positioning motors are on the other hand typically operating in the audible frequency range and the noise can be a major problem in applications where motors are in operation close to humans. A few experimental PM designs in which the actuators are intended to be driven with ultrasonic frequencies have been tested. However, such designs often account heating problems.

[0004] Problems with prior art electromechanical motors are thus that fine positioning motors typically cause disturbing noise and that silent electromechanical motors have an in many applications insufficient positioning accuracy.

SUMMARY
Noiseless Electromechanical Motor
STANDARDE

En standard fastställer normer (regler) och rekommendationer i tekniska m.fl. sammanhang. Det kan gälla mått, dimensioner, storlekar och olika typer av utföranden.

Sök standard

- SSR - Sveriges standardiseringsråd ansvarar för det officiella registret över svensk standard. Genom deras sökfunktion kan man få uppgifter om gällande svensk standard fastställe av de tre svenska standardiseringsorganen:
  - ITS - Informationstechniska standardiseringen
  - SEK - Svensk elstandard
  - SIS - Swedish Standard Institute
- ISO - International Organization for Standardization
- CEN - European Commitee for Standardization
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- **Language**
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  - Article, review/survey
  - Article in journal
  - Book
  - Chapter in book
  - Collection (editor)
  - Report
  - Report series
  - Other
  - Doctoral thesis, comprehensive summary
  - Doctoral thesis, monograph
  - Licentiate thesis, comprehensive summary
  - Licentiate thesis, monograph
  - Manuscript (preprint)
  - Other
Ion Insertion into Electrode Materials Studied with X-Ray and Electron Spectroscopic Methods

Henningsson, Anders
Uppsala University, Teknisk-naturvetenskapliga vetenskapsområdet, Physics, Department of Physics.

2002 (English)
Doctoral thesis, comprehensive summary (Other academic)

Abstract [en]
Ion insertion into electrode materials can be used to store energy in battery applications. In this thesis, photoelectron spectroscopic and x-ray absorption spectroscopic methods have been used to study the change of the electronic structure of host materials during electrochemical ion insertion.

Specifically, the properties of ion insertion into nanoporous TiO₂ were studied. It is demonstrated that the insertion of Li ions results in a reduction of the Ti⁴⁺ sites in TiO₂ to Ti³⁺ sites close to the inserted Li ion. The intensity of the Ti³⁺ is directly correlated to the number of inserted electrons. It is also shown that the two phases resulting from moderate insertion can be detected by studying the electronic structure of inserted Li ions and the behavior observed can be correlated with electrochemical measurements.

Insertion of ions into tungsten oxides is a potential candidate for smart window and display applications. Ion insertion into these materials was also studied with electron spectroscopic methods. The insertion of H⁺ reduces W⁴⁺ to W²⁺ and further insertion results in a reduction to W⁺⁺. Cyclic voltammetry shows two reduction peaks where the first peak implies reduction of W⁴⁺ to W²⁺ and the second peak can be associated with further reduction to W⁺⁺.

During the first charge/discharge cycles of a battery based on graphite anodes a solid electrolyte interface layer is formed on the electrode surface. This layer consumes some of the charge carrying Li ions, hence decreases the capacity of the battery. A careful characterization of this layer has been performed to aid in the further development of this type of battery.

Place, publisher, year, edition, pages

Series
Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science and Technology, ISSN 1104-232X ; 698

Keyword [en]
Physics

Keyword [sv]
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* Patent or Standard database

* DiVA or Swepub

* Journal Citation Reports

* or something else. Use your subject guide if you like!
Search tips & Reference Management
References


Anderson, J.S.J. and Parker, R. 1998. The 3'→5' exosome is a general mechanism for mRNA turnover through its association with the nuclear export box protein and 3' to 5' exonucleases of the exosome. RNA 4: 786–795.

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Searching and writing

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Here are some leading questions to help you:

- What do you need the information for (level, depth)?
- How are problems formulated in your subject?
- How can your problem be summarised in a search query?

Try to find different ways of describing your subject or formulating your question. Narrow this down by using individual words or terms. Use an encyclopaedia or handbook (subject overview) to find suitable search terms. Regard your search as a process in which you'll find better and more adequate search terms as your work progresses.

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The Library gives access to a large number of quality assured databases where you can find all kinds of information. For example, articles, e-books, TV-programmes...
Examples:

*financ* will generate
- financial
- finances
- financial indicators etc.

*economics* will generate
- macroeconomics
- microeconomics, etc.

*wom*n will generate
- woman
- women

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Another way to narrow your search is to use subject words. Subject words are always used when books, articles and reports are registered in library catalogues and databases, and these are organised according to certain principles.

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*Example: European Union AND Enlargement*
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Format: HTML

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- APA 6th - American Psychological Association, 6th Edition
- BibTeX
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- Chicago 16th Edition (Author-Date System)
- Harvard
- Harvard - British Standard
- MLA 7th Edition
- NLM - National Library of Medicine
- Turabian 7th Edition (Reference List)
- Uniform - Uniform Requirements for Manuscripts Submitted to Biomedical Journals
Byggnaden som system / Enno Abel, Arne Elmroth

Abel, Enno, 1935- (författare)
Elmroth, Arne, 1937- (författare)
Formas (utgivare)
ISBN 91-540-5974-7
Stockholm : Formas, 2006
Svenska [4], 274 s.
Serie: [T / Formas], 1650-9846 ; [2006:5]

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Responsive web design (RWD) is a way of coding websites with differing screen sizes, making it more practical to make separate web page sizes for each screen size. Responsive web design is one of the most recent trends that can help libraries meet their patrons' high expectations in the mobile-first culture of information consumption.
Inställningar i Zotero → Källhänvisa → Ordbehandlare och klicka på Reinstall Word Add-in/Reinstall Extension och starta om Word/LibreOffice.

Samla in referenser – några olika alternativ

1. När du söker i en bokkatalog, databas eller sökmotor så finns det en dokument- eller mappikon längst till höger i adressfältet i Firefox/Google Chrome:

    ![Firefox/Google Chrome](image1)

I Safari finns ikonen som en knapp till vänster om adressfältet:

    ![Safari](image2)
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- keep track of your references
- make in-text citations, footnotes and bibliographies
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EndNote Basic: A free online version of EndNote. Save and organise your references, insert citations into a Word document and create a bibliography.

Mendeley: A free software that works both online and as desktop software. You can save references and PDF:s both online and on your computer, insert citations into a Word document and create a bibliography.

Zotero: A free software that works with the browser Firefox, Google Chrome or Safari. Save references to books, articles and websites and more, tag your records, add notes and save snapshots of websites. Use Zotero with MS Word, OpenOffice, LibreOffice or NeoOffice to insert citations using various styles (e.g. Harvard, APA, MLA) directly in your document.
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Already started using the software but forgot how to save PDF’s, collect references from different databases, insert references to your document, change reference style from Harvard to APA…? If you need any help using reference management software, you are welcome to contact us or book a librarian for individual help.

Contact

EndNote

Maria Berg Andersson, Ekonomikums bibliotek
Nadja Duffner, Ångströmbiblioteket
Kazuko Gustafsson, Medicinska biblioteket
Christer Lagvik, BMC-biblioteket
Ninna Wiberg, Biåsenhusbiblioteket

EndNote basic

Maria Berg Andersson, Ekonomikums bibliotek
Referenshantering och sökteknik

Det finns flera sätt att få hjälp vid informationssökning och referenshantering:

- **Boka en bibliotekarie för individuell handledning** (studerer/forskarer)
- **Boka en kurs för mina studenter** (endast lärare/handledda)
- **Boka en kurs för forskare och doktorander** (endast lärare/handledda)

För att se bibliotekets aktuella utbud av öppna kurser och seminarier, titta i kalendariet nedan.

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Här får du tips inför uppsatskrivandet

ATT REFERERA
Ta hjälp av vår guide

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Chatta med oss, skicka e-post och boka bibliotekarie. Kontakta DIVA Helpdesk och support för e-ressurser

REFERENSPROGRAM
Program som hjälper dig att hålla reda på referenserna
Referensstilar


APA Style beskrivs i *Publication manual of the American Psychological Association*, 6 uppl. och används vanligtvis inom beteendevetenskaper och sammansvetskapliga ämnen.

Chicago beskrivs i *Chicago manual of style*, 16 uppl. och publiceras av University of Chicago Press. Chicago kan användas antingen med fotnoter eller med källhänvisningar inom parentes i texten.

Harvard finns i många varianter men har alltid källhänvisningar inom parentes i texten och en referenslista i slutet av dokumentet. Harvard används ofta inom samhällsvetenskapliga ämnen.

MLA beskrivs i *the MLA style manual*, 3 uppl. och publiceras av Modern Language Association of America. Denna stil används ofta inom språk och humaniora. MLA har källhänvisningarna inom parentes i texten.

Oxford används med fotnoter och är vanligt inom exempelvis humaniora, teologi och juridik.

Vancouverstystemet (siftsystemet) är vanligt inom medicin, naturvetenskap, fysik och teknik. Källhänvisningarna anges med en siffra inom hakparentes och i referenslistan presenteras referenser i nummerordning.

Referenshanteringsprogram

Du kan också ta hjälp av ett referenshanteringsprogram för att hålla reda på referenser. Du hittar information om några av programmen och bibliotekets kurser i dessa på bibliotekets webbsida för Referenshanteringsprogram

Undvik plagiering

- Refero - antiplagieringsguide
  Läs om hur du refererar och citerar och använder andras text utan att riskera plagiering.
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- systematic searching
- referencing
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- where to publish
- submitting articles
- co-authorship
- copyright
- Open Access

**EVALUATION AND RANKING**

- citation impact
- bibliometric funding - Denmark
- weighted funding - Norway
Referring to Literature

One of the distinguishing features of academic writing is that it is informed by what is already known, what work or research has been done before, and/or what ideas and models have already been developed. Thus, academic writers frequently make reference to external sources. In some cases, where the individual author is important, the author's name will be the main subject of the sentence. In other cases, the source may only be mentioned in brackets (...) or via a number notation system (e.g. footnotes and endnotes). The author as subject style is less common in the empirical sciences and more commonly used in the humanities. The verbs and verb phrases typically used for referring to sources are listed below. Note that different referencing systems are used in different disciplines. In the examples given here, the Harvard in-text referencing system has been used.

The Literature Review: it is the purpose of the literature review section of a paper or dissertation to show the reader, in a systematic way, what is already known about the research topic as a whole, and to outline the key ideas and theories that help us to understand this. As well as being systematic, the review should be evaluative and critical of the studies or ideas which are relevant to the current work. For example, you might think a particular study did not investigate an important aspect of the area you are researching, that the authors failed to notice a weakness in their methods, or that their conclusion is not well-supported.

A note on verb tenses: For general reference to the literature, the present perfect tense (have/has + verb + ed) tends to be used. For reference to specific studies carried out in the past, the simple past tense is most commonly used. This is always the case where a specific date or time in the past forms a part of the sentence. When referring to the words or ideas of writers, the present tense is often used if the ideas are still relevant, even if the author is no longer alive. The examples given below reflect these general patterns.

General descriptions of the relevant literature

A considerable amount of literature has been published on X. These studies ....

There is a large volume of published studies describing the role of ....
The first serious discussions and analyses of X emerged during the 1970s with ....
The generalisability of much published research on this issue is problematic.

What we know about X is largely based upon empirical studies that investigate how ....

During the past 30 years much more information has become available on ....

In recent years, there has been an increasing amount of literature on ....

A large and growing body of literature has investigated ....

Over the past decade most research in X has emphasized the use of ....

General reference to previous research/scholarly activity (usually more than one author)

Many historians have argued that .... (e.g. Jones, 1987; Johnson, 1990; Smith, 1994).

There is a consensus among social scientists that .... (e.g. Jones, 1987, Johnson, 1990, Smith, 1994).

Numerous studies have attempted to explain .... (for example, Smith, 1996, Kelly, 1998, Johnson, 2002)

Traditionally, it has been argued that .... (Smith, 1992, O'Brien, 1994)

Recent evidence suggests that .... (Smith, 1996, Jones 1999, Johnson, 2001)

Recently, in vitro studies have shown that X can .... (Patel et al., 1997, Jones et al., 1998).

Surveys such as that conducted by Smith (1988) have shown that ....

Several attempts have been made to .... (Smith, 1996, Jones 1999, Johnson, 2001)

Several studies have revealed that it is not just X that acts on .... (Smith, 1996, Jones ....)

Several biographies of Harris have been published. Smith (2013) presents ....

Several studies investigating X have been carried out on ....

Data from several sources have identified the increased X and Y associated with obesity.

Previous studies have reported .... (Smith, 1955, Jones, 1967, Johnson, 1992).

Previous research has indicated that various X indicators have a positive impact on .... (Al-Masry, 2005)

Previous research findings into X have been inconsistent and contradictory (Smith, 1996, Jones 1999, ....)

A number of studies have found that .... (Smith, 2003, Jones, 2004).

A number of studies have examined X (e.g. Smith, 2003, Jones, 2005), but has investigated ....

Twenty cohort study analyses have examined the relationship between ....

At least 152 case-control studies worldwide have examined the relationship between ....

Other studies have considered the relationship ....

The relationship between X and Y has been widely investigated (Smith, 1985, Jones, 1987, ....)

The causes of X have been widely investigated (Jones, 1967, Johnson, 1990, Smith, 1994).

The geography of X has been addressed in several small-scale investigations and ....

Factors thought to be influencing X have been explored in several studies.

Xs have been identified as major contributing factors for the decline of many species (1).

X has also been shown to reverse the anti-inflammatory effects of Y in murine-induced arthritis (11).

It has been suggested that Xs are independent of the size of the Y (Smith et al., 1995)
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Courses and events  Reference management software

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- courses and support

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The poster production, graphic design and education in different types of presentation software, we can help those who want to present your research. Contact the Graphics Service for design and production advice.
Information search

Support and guidance for information searches within various subject areas via, for example, databases, books, periodicals and websites. We know how to apply filters in order to get to the relevant research work. You cannot find what you are looking for? For rapid help, chat with Ask The Library or phone us. You can also book a librarian for individual assistance.

Mobile academics

We can help you to get started on e-book reading and using smartphones and tablets in your work – become a mobile academic. Planned open seminars are advertised in the schedule of events.

Present your research

As a researcher, you can increase your visibility by example put your publications on your profile page on the university's website and register them in DiVA.

We can help you create a ORCID ID and show how you can see a journal's impact factor. You can also get tips on how you can get notified when you are quoted.

The poster production, graphic design and education in different types of presentation software, we can help those who want to present your research. Contact the Graphics Service for design and production advice.
NEWS

Good news for researchers and students of Assyriology 2016-03-08

Test period of United Nations iLibrary 2016-03-04

Traditional posting at Carolina Rediviva 2016-02-12

Welcome back to the Dag Hammarskjöld and Law Library – now on Slottsgränd 3 2016-01-11

More news →

COURSES AND EVENTS

21 APR
03:30 PM Introduction to the reference software Mendeley

28 APR
03:15 PM Zotero Advanced

03 MAY
10:00 AM Introduction to the reference software Mendeley

11 MAY
03:15 PM Public lecture by Thérèse Björkholm: Are Women Human?

More events →
Announced at Info Angström E-mail ListServ and at LäsIT

Angström Library Newsletter January 2015

New head of the Angström Library
We welcome Cecilia Petersson as new head of the Angström Library from January 26th.
Welcome to contact Cecilia on phone: 070-4250750, e-mail: cecilia.petersson@ub.uu.se or by visiting her in the Library.
Eva Nordgren is moving on to her new position as Head of the Library at Hägskolan Dalarna and is working her last day at Angström on January 23rd.

Courses and events
The Library will arrange the following seminars at Angström in the coming weeks:
* January 27th Smart academic? - Lunch seminar on tablets and smartphones for academic uses. More info and registration form.
* February 24th, 1 pm - 2.30 pm. Seminar and workshop on the chemistry database Reaxys. More info and a registration form will come later.

For more events arranged by Uppsala University Library - stay updated at
Welcome to the Ångström Library!
Ångström Laboratory, house 1, between houses 6 and 8, level 1, to:

• Borrow your course books and other books
• Read a journal
• Use a reference work
• Study in a peaceful environment
• Have a break with e.g. a newspaper, popular science magazine or a quiz game
• Pick from or bring a book to the book exchange shelves
• Attend a lecture/workshop
• Get help from the library staff!!