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# Library Resources in Independent Research

The Library



# Learning outcomes

By the end of this session, you should be able to know:

- Understand how to conduct literature searching
- Apply complex search strategies to a variety of resources
- Access databases: Web of Science, Engineering Village, ProQuest, and Scopus
- Identify relevant services beyond the University.



## Before We Start

- Web Browser: Chrome, FireFox or Edge





# University Resources

What you can find with the Library?



# Resource types



Books and Book Chapters



Journal Articles



Dissertations



Conference Proceedings



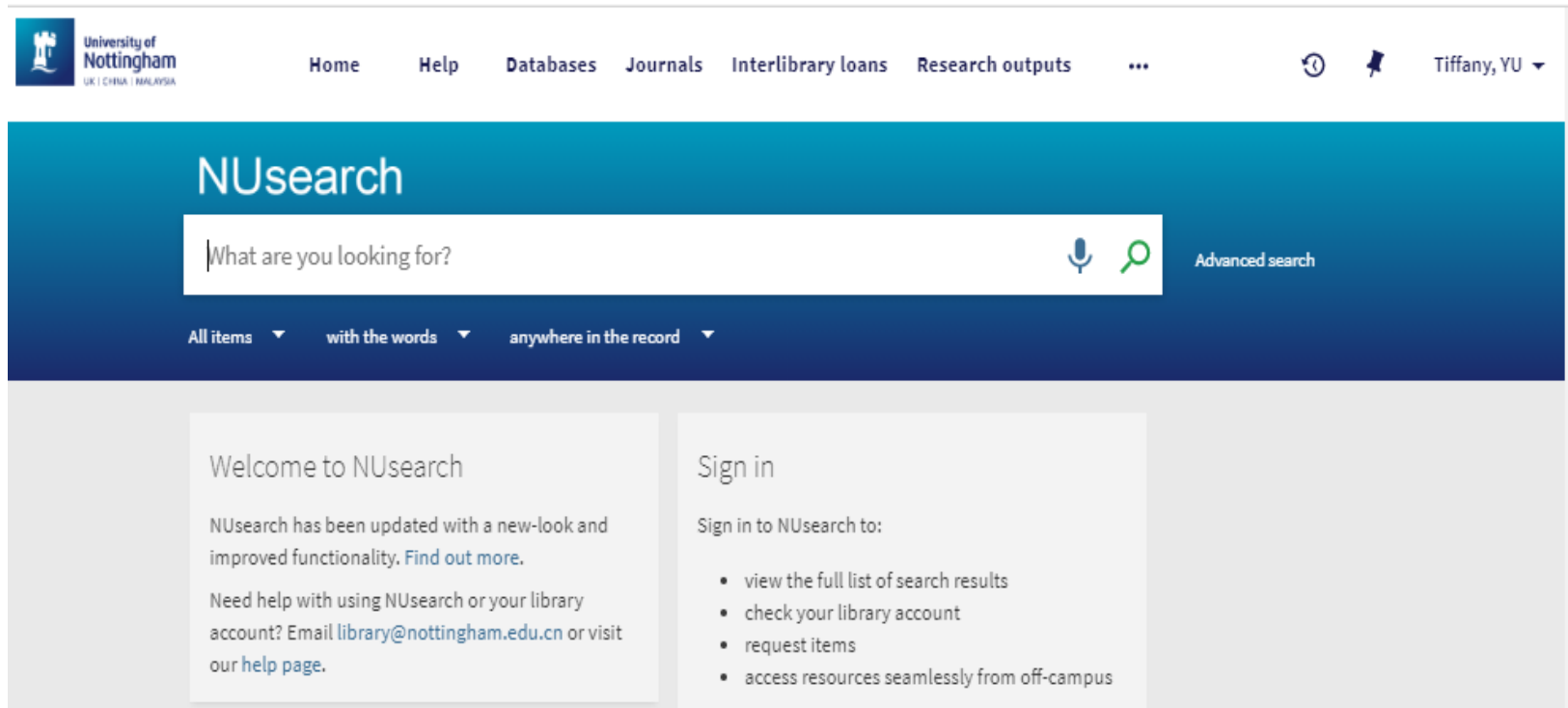
Databases



Statistics



Sign-in to **NUsearch**: [nusearch.nottingham.edu.cn](https://nusearch.nottingham.edu.cn)



The screenshot shows the NUsearch website interface. At the top, there is a navigation bar with the University of Nottingham logo and links for Home, Help, Databases, Journals, Interlibrary loans, and Research outputs. A user profile for Tiffany, YU is visible on the right. Below the navigation bar is a large blue header with the NUsearch logo and a search bar containing the text "What are you looking for?". To the right of the search bar are icons for voice search and a magnifying glass, along with a link to "Advanced search". Below the search bar are three dropdown menus: "All items", "with the words", and "anywhere in the record". The main content area is divided into two columns. The left column contains a "Welcome to NUsearch" message, stating that the site has been updated with a new look and improved functionality, and provides contact information for help. The right column contains a "Sign in" section with a list of benefits: view the full list of search results, check your library account, request items, and access resources seamlessly from off-campus.

Welcome to NUsearch

NUsearch has been updated with a new-look and improved functionality. [Find out more.](#)

Need help with using NUsearch or your library account? Email [library@nottingham.edu.cn](mailto:library@nottingham.edu.cn) or visit our [help page](#).

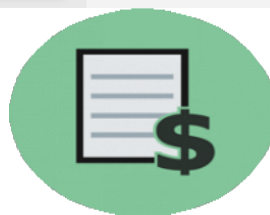
Sign in

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- check your library account
- request items
- access resources seamlessly from off-campus



UNNC Collections



Subscription-  
Based Resources



Powerful Filters





# NUsearch functions

## NUsearch

power balance Search by titles or keywords



Advanced search

All items with the words anywhere in the record

0 selected PAGE 1 1,741,592 Results Personalise



1



ARTICLE

### Comprehensive DC Power Balance Management in High-Power Three-Level DC-DC Converter for Electric Vehicle Fast Charging

Longcheng Tan ; Bin Wu ; Rivera, Sebastian ; Yaramasu, Venkata  
New York: IEEE

IEEE transactions on power electronics, 2016, Vol.31 (1), p.89-100

“ ... To solve this issue, comprehensive dc power balance management (PBM) in conjunction with high-power three-level dc-dc converter based fast charger is proposed in this paper...”

Read Online >

Available online >



Status and quick link

2



BOOK

### Unanswered threats : political constraints on the balance of power / Randall L. Schweller.

Schweller, Randall L., author.  
Princeton, N.J. ; Woodstock : Princeton University Press 2008

Available at Main Library Floor 3 (JZ1313 .S3) >

Citations and pins

3



ARTICLE

### The Pivot before the Pivot: U.S. Strategy to Preserve the Power Balance in Asia

Silove, Nina  
One Rogers Street, Cambridge, MA 02142-1209, USA: MIT Press  
International security, 2016, Vol.40 (4), p.45-88

PEER REVIEWED OPEN ACCESS

Download PDF > Read Online >

## Active filters

-Reviews X

Remember all filters

## Filtering functions

## Filter my results

Expand beyond library collections  
What does this mean?

Sort by Relevance

## Key filters

Available online (1,741,382)

Physical resources (225)

Peer-reviewed journals (1,102,595)

Currently available in the library (219)

Open Access

## Library

Main Library (223)

## Resource type

Articles (1,540,650)





# Searching Skills & Strategy

How to search effectively and efficiently?





# Read a Reading List



## Book

Authors	Book Title	Publisher	Year
M. DeSilva,	<i>Technical Writing</i> .	Open Oregon Educational Resources Publ. ,	2021.

## Journal Article

Authors	Journal Article
O. Khan and W. Xiao,	"An efficient modeling technique to simulate and control submodule-integrated PV system for single-phase grid connection," <i>IEEE Trans. Sustain. Energy</i> , vol. 7, no.1, pp. 96-107, Jan. 2016.



## Journal

Mechanical Systems and Signal Processing



# Searching Tips

## Truncation Operator: XXX\*

- Use an **asterisk** in or at the end of a word stem to find all spelling variations  
e.g. transport\* will find transport, transportation...

## Phrase searching: "XXX"

- Use **quotation marks** around phrases to refine searches  
e.g. "rail transportation"

## Wildcards: X?X

- Use **question mark** to replace one character only  
e.g. organi?ation = organisation or organization

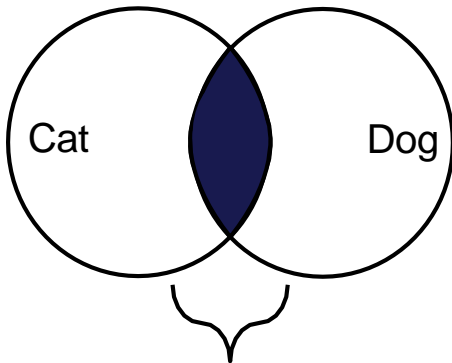
## Brackets: (XXX)

- Use **brackets** to group synonyms  
e.g. (undergraduate\* OR student\*)



# Boolean Operators

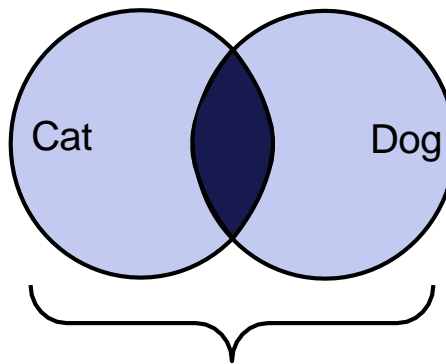
## AND



Both keywords

Finds items that uses **both** keywords (narrows the search)

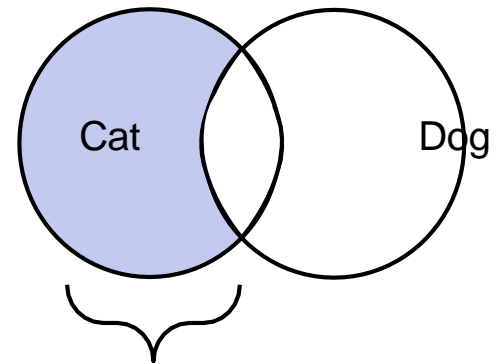
## OR



Either keywords

Finds items that uses **either** of the keywords (broadens the search)

## NOT



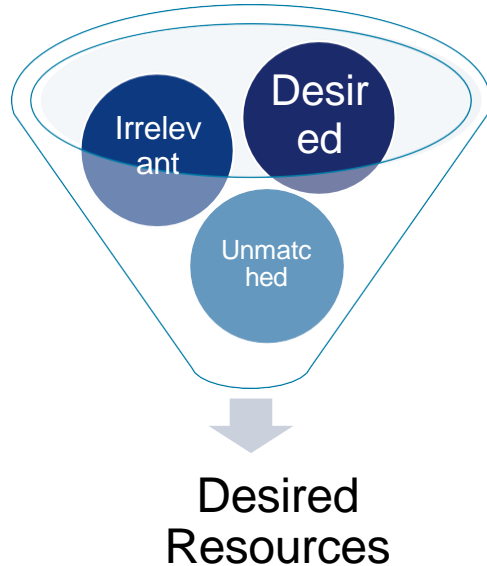
Just one keyword

**Excludes** articles that use the keyword



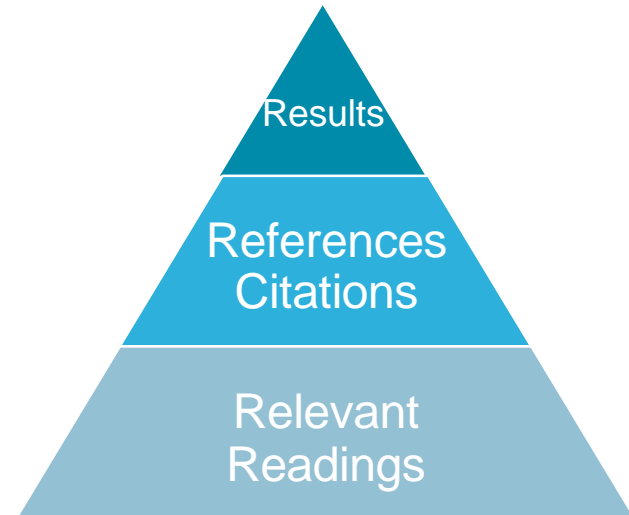
# Searching strategies

## ■ Narrow Down



Review your research questions  
More specific terms  
AND NOT “ ”  
Focus on sections of dissertation  
Filter functions

## ■ Expand



Review your research questions  
Check spelling or try broader terms  
OR \* ?  
Citations; references; relevant readings  
(in databases like Web of Science)



# Databases

What is more relevant to your subject?



# Generic Databases


- Indexing database  
Web of Science  
Engineering Village
- Student papers  
ProQuest Dissertations & Theses
- Organizational databases  
Knovel
- Chinese papers  
CNKI 中国知网



*Your module conveners may recommend more for your subject.*





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NUsearch

Find databasesknovel

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Others

Sign in for request options and access to online resources [Sign in](#) [DISMISS](#)

1 Results

Databases by category

- Aerospace Engineering
- Agriculture
- American and Canadian Studies
- Architecture and Built Environment
- Art History
- Biochemistry
- Biology
- Business
- Chemical Engineering
- Chemistry
- Civil Engineering
- Classics
- Computer Science

1

**Knovel [electronic resource].**  
Norwich, N.Y. : Knovel Corporation 199-].  
Summary: Contains scientific and engineering handbooks and databases that can be searched simultaneously through the web interface. Includes comprehensive treatment of technologies plus chemistry, the environment and health & safety  
[Available online](#)



Results Per Page: 10 25 50

!


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# Off-campus login

## Situation 1: A pop-up window



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**Welcome to The University of Nottingham's  
China Campus' Shibboleth IDP Service**

**Username**

**Password**

**Login**

- If you experience difficulty logging in please contact our IT Service Desk on **+86 (0)574 88180009 (ext:8009)** or [click here to email](#).
- Alternatively, **students** follow [this link](#) to visit our **student** self help password reset page.
- while **staff** should follow [this link](#) to visit our **staff** self help password reset page.

## Situation 2: Find “Sign in” area > Shibboleth/Institutional login

### Institutional Login

You may be able to login to OvidSP by logging in at your institution.

Please Select Your Region...

Please Select Your Region...

Japanese Research and Education (Gakunin-Fed)

Wolters Kluwer Access Management Federation

**UK Access Management Federation**

Servicio de Identidad de RedIRIS (Spain)

Czech academic identity federation

Belnet R&E

French federation for higher education

Please Choose Your Institution:

University of Leeds

University of Liechtenstein

University of Manchester

University of Northampton (IDP)

**University of Nottingham**

University of Nottingham Malaysia Campus

**University of Nottingham Ningbo, China**

University of Oxford

University of Parma

University of Portsmouth

**Login**



# Web of Science (WoS)

Clarivate

English ▾

Products

Web of Science™

Search

Sign In ▾

Register

>|  
MENU



DOCUMENTS

RESEARCHERS

Search in: Web of Science Core Collection ▾ Editions: All ▾

DOCUMENTS

CITED REFERENCES

STRUCTURE

All Fields ▾

Example: liver disease india singh  
electrical and electronic engineering



+ Add row

+ Add date range

Advanced Search

× Clear

Search



Jump back into your research - try out our new personalized homepage dashboard.

Don't have an account? [Register for a new account](#)

[Sign in to access](#)

48



Search WoS for papers on your topic



# Web of Science (WoS)

Web of Science™

Search

Sign In ▾

Register

Search > Results for electrical and electronic engineering (All Fields)

**2,368,652 results** from Web of Science Core Collection for:

Q electrical and electronic engineering (All Fields)

Analyze Results

Citation Report

Create Alert

Copy query link

Publications

You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- ☐ Review Article 28,138
- ☐ Early Access 13,390
- ☐ Open Access 483,676
- ☐ Associated Data 5,228
- ☐ Enriched Cited References 145,885

Authors

Show Researcher Profiles

- ☐ Poor, H. Vincent 1,700
- ☐ Bocci, A. 1,688
- ☐ Lenz, T. 1,658
- ☐ Artamonov, A. 1,388
- ☐ Pedrycz, Witold 1,365

0/2,368,652

Add To Marked List

Export ▾

Sort by: Relevance ▾

< 1 of 2,000 >

## 1 Introducing Memristor to Electrical and Electronic Engineering Undergraduates

Wang, SB; Yang, YS and Wang, J

International Conference on Education, Sports, Arts and Management Engineering (ICESAME)

2016 | PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE ON EDUCATION, SPORTS, ARTS AND MANAGEMENT ENGINEERING 54, pp.107-112

Memristor is considered as the fourth fundamental circuit element along with resistor, capacitor, and inductor. Due to its features of non-volatility, nonlinearity, low power consumption, it has enormously potential applications in electrical & electronic science and engineering fields, and has become a popular research directions. So, it is time to introduce and teach memristor to the undergra ... Show more



14

References

Related records ?

## 2 Exploration and Reform of Electronic Technology Experiments in Electrical Engineering Education

Lian, YX; Wu, JQ; (...); Hou, BY

22nd International Conference on Electrical Machines and Systems (ICEMS)

2019 | 2019 22ND INTERNATIONAL CONFERENCE ON ELECTRICAL MACHINES AND SYSTEMS (ICEMS 2019), pp.3385-3390

According to the futures and curriculum requirements of the electrical engineering, the national electrotechnics and electronics experiment teaching center of Harbin Institute Technology has reformed the teaching platform, content and mode of Analog Electronic Technology Experiment and Digital Electronic Technology Experiment. Specially, the center changed the traditional analog and digital ele ... Show more



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References

Related records

## 3 Engineering is Fun: Embedded CDIO Elements in Electrical and Electronic Engineering Final Year Project

5

48





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>I  
MENU



## Analyze Results

2,368,652 publications selected from Web of Science Core Collection

1,156,786  
Engineering Electrical Electronic

316,037  
Physics Applied

174,289  
Computer Science  
Information Systems

173,065  
Computer Science Artificial  
Intelligence

214,726  
Materials Science Multidisciplinary

170,104  
Automation Control Systems

131,897  
Energy Fuels

324,297  
Telecommunications

201,818  
Optics

148,403  
Computer Science Theory Methods



Search > Results for electrical and el... > Analyze Results: electrical a... > Introducing Memristor to Electrical and Electronic Engineering Undergradu...

**2,368,652 results from Web of Science Core Collection for:**

Analyze ResultsCitation ReportCreate Alert

All Fields

Example: liver disease india singh  
electrical and electronic engineering

And

Author

Example: O'Brian C\* OR OBrian C\*

AZ

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Search

- ☐ Review Article 28,138
- ☐ Early Access 13,390
- ☐ Open Access 483,676
- ☐ Associated Data 5,228
- ☐ Enriched Cited References 145,885

Authors

Show Researcher Profiles

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- ☐ Lenz, T. 1,658
- ☐ Artamonov, A. 1,388
- ☐ Pedrycz, Witold 1,365

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nonlinearity, low power consumption, it has enormously potential applications in electrical & electronic science and engineering fields, and has become a popular research directions. So, it is time to introduce and teach memristor to the undergra ... [Show more](#)



Related records ?

## 2 Exploration and Reform of Electronic Technology Experiments in Electrical Engineering Education

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2019 | 2019 22ND INTERNATIONAL CONFERENCE ON ELECTRICAL MACHINES AND SYSTEMS (ICEMS 2019) , pp.3385-3390

13  
References

According to the futures and curriculum requirements of the electrical engineering, the national electrotechnics and electronics experiment teaching center of Harbin Institute Technology has reformed the teaching platform, content and mode of Analog Electronic Technology Experiment and Digital Electronic Technology Experiment. Specially, the center changed the traditional analog and digital ele ... [Show more](#)









Related records

## 3 Engineering is Fun: Embedded CDIO Elements in Electrical and Electronic Engineering Final Year Project

5



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Icon	Filter Option	Description
	<a href="#">Highly Cited Papers</a>	Highly cited papers that received enough citations as of the latest update date to place them in the top 1% of their academic fields based on a highly cited threshold for the field and publication year.
	<a href="#">Hot Paper in Field</a>	Hot Papers were published in the past two years and received enough citations in November/December 2019 to place them in the top 0.1% of papers in its academic fields.
	<b>Associated Data</b>	Articles with associated data mention a data set, data study, or data repository in the Data Citation Index that may be accessed for potential re-use.
	<b>Review Articles</b>	Articles with the document type Review Article.
	<b>Early Access</b>	Records that do not have a final publication date but have been peer-reviewed and accepted for publication. This matches the document type Early Access.
	<a href="#">Open Access</a>	Refine results to view only results identified as open access of any kind.

[Document Types \(clarivate.com\)](https://clarivate.com)



# WoS review papers

## Engineering is Fun: Embedded CDIO Elements in Electrical and Electronic Engineering Final Year Project

By: [Mustapa, RF](#) (Mustapa, Rijalul Fahmi) <sup>[1]</sup>; [Abidin, AFZ](#) (Abidin, Amar Faiz Zainal) <sup>[2]</sup>; [Amin, AANM](#) (Amin, Atiqa Aisya Niesya Mohd) <sup>[3]</sup>; [Nordin, AHM](#) (Nordin, Atiqah Hamizah Mohd) <sup>[1]</sup>; [Hidayat, MN](#) (Hidayat, Muhammad Nabil) <sup>[3]</sup>

Book Group Author: [IEEE](#)

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

PROCEEDINGS OF THE 2017 IEEE 9TH INTERNATIONAL CONFERENCE ON ENGINEERING EDUCATION (IEEE ICEED 2017)

Page: 1-6

Published: 2017

Indexed: 2018-03-09

Document Type: Proceedings Paper

### Conference

Meeting: [9th IEEE International Conference on Engineering Education \(ICEED\)](#)

Location: Kanazawa, JAPAN

Date: NOV 09-10, 2017

Sponsors: IEEE; IEEE Educ Soc Malaysia Chapter; Engn & Tech Educ Res Grp; Univ Teknologi MARA, Fac Elect Engn; Kanazawa Tech Coll

### Abstract

Many electrical and electronic engineering program has been developed to educate, train and groom future electrical and electronic engineers. Students that are not able to understand, visualize and relate real application with theoretical concept will find it difficult to cope with the program. Thus the intention of this paper is to demonstrate the approach of Engineering is fun with Concept-Design-Implement-Operate (CDIO) concept embedded in Final Year Project (FYP) Electrical Engineering Diploma Program at the Faculty of Electrical Engineering Universiti Teknologi MARA (UiTM) Pasir Gudang Campus. FYP are being conducted for two semesters. The first semester is where students will search and choose their own topic. Furthermore, students have to present and propose the topics they have chosen in the same semester and lecturers will assess their communication skills. The prototype will be built during the second semester and it will test the student's psychomotor skills. This paper will show an example of one student FYP product prototype called The Evolution of Mastermind Boardgame pertaining to the embedded CDIO concepts. It is hoped from this work, student's understanding can be strengthened in order to develop students that fully equipped with strong background of electrical and electronic engineering concept.

### Keywords

Author Keywords: [Electrical and electronic engineering](#); [CDIO concept](#); [Final Year Project](#); [Mastermind Boardgame](#)

Keywords Plus: [COMPETENCES](#); [EDUCATION](#)

### Citation Network

In Web of Science Core Collection

5

Citations

[Create citation alert](#)

5

Times Cited in All  
Databases

13

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### Citing items by classification New

Breakdown of how this article has been mentioned, based on available citation context data and snippets from 1 citing item(s).

Background	1
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Search within results for...

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<input type="checkbox"/> Hot Papers	2
<input type="checkbox"/> Review Articles <span>New</span>	184
<input type="checkbox"/> Early Access	315
<input type="checkbox"/> Open Access	1,570
<input type="checkbox"/> Associated Data	3

☐ 2

### [Does corporate environmental responsibility engagement affect firm value? The mediating role of corporate innovation](#)

[Li, ZH; Liao, GK and Albitar, K](#)  
Mar 2020 | Nov 2019 (Early Access) | [BUSINESS STRATEGY AND THE ENVIRONMENT](#) 29 (3) , pp.1045-1055

This paper aims to construct a comprehensive corporate environmental responsibility (CER) engagement measurement to examine the relationship between CER engagement and firm value as well as explore the mediating effect of corporate innovation on this relationship based on a sample of 496 China's A-share listed companies from 2008 ... [Show more](#)

[Full Text at Publisher](#) \*\*\* [View PDF with EndNote Click](#)

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Citations

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References

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Y Z Others

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- Agriculture
- American and Canadian Studies
- Architecture and Built Environment
- Art History

- Engineering village.**  
Hoboken, N.J. : Elsevier Engineering Information, Inc. 2000  
Engineering Village offers access to 12 engineering literature and patent databases providing coverage from a wide range of trusted engineering sources. The databases have been carefully selected to provide both breadth as well as depth of content.

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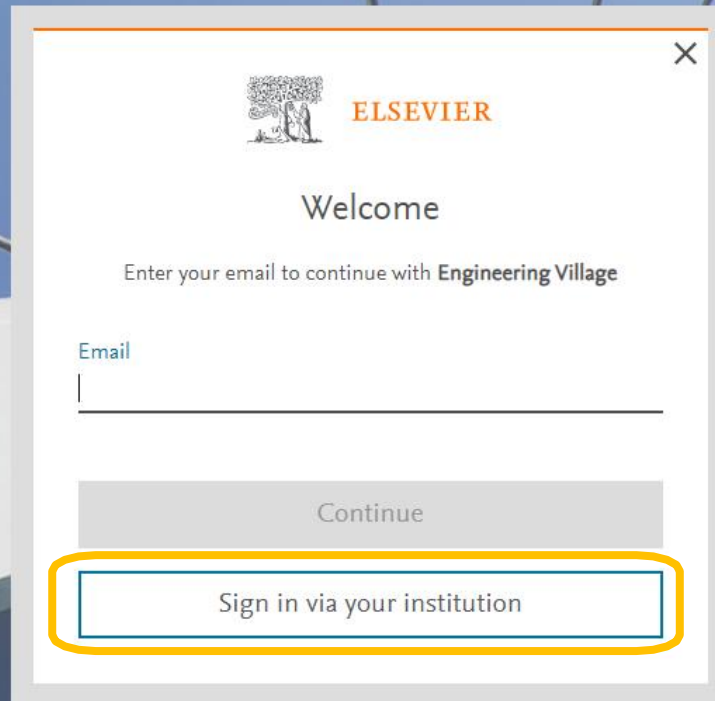


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# Engineering Village

Engineering Village

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- Chemistry
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- Computer Science
- Dictionary

1

[IEEE Xplore digital library](#) [electronic resource].



New York : IEEE <Mar. 17, 2000>

Journals & magazines -- Conference proceedings -- Standards -- Search : by author ; basic ; advanced.

Provides full-text access to IEEE transactions, IEEE and IEE journals, magazines, and conference proceedings published since 1988, and all current IEEE standards; brings additional search and access features to IEEE/IEE electronic library users.


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- while **staff** should follow [this link](#) to visit our **staff** self help password reset page.

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# Computer Science Databases

The image shows the homepage of the ACM Digital Library. The background is a dark blue with a faint, glowing pattern of keyboard keys. At the top, there is a navigation bar with the ACM Digital Library logo, the Association for Computing Machinery logo, and links to 'University of Nottingham Ningbo China', 'Browse', 'About', 'Sign in', and a 'Register' button. Below the navigation bar, there is a horizontal menu with links to 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. The main content area features the large 'ACM DL DIGITAL LIBRARY' logo. Below the logo is a search bar with the word 'Search' and a magnifying glass icon. Underneath the search bar is a link to 'Advanced Search'. A large, semi-transparent text box in the center contains the following text: 'ACM has opened more than 117,500 articles published between 1951 and the end of 2000, during the first 50 years of its publishing program. These articles, which include many foundational articles by the pioneers of the field, are now freely available to view and download via the ACM DL.' The text box has left and right arrow icons and a set of three small circles at the bottom, indicating it is part of a carousel.

ACM DL DIGITAL LIBRARY

Search

Advanced Search

ACM has opened more than 117,500 articles published between 1951 and the end of 2000, during the first 50 years of its publishing program. These articles, which include many foundational articles by the pioneers of the field, are now freely available to view and download via the ACM DL.

[ACM Digital Library](https://dl.acm.org/)



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- ☐ 制备方法(37)
- ☐ HKUST#1(13)
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- ☐ 发电机(5)
- ☐ 相变材料(5)
- ☐ 永磁同步电机(5)
- ☐ 微流控制(5)
- ☐ 锂离子电池(5)

专利名称	发明人	申请人	数据库	申请日	公开日	操作
<input type="checkbox"/> 1 水质检测纸芯片盒子(便携式)	王静;张紫君;任勇	宁波诺丁汉大学	中国专利	2021-12-27	2022-05-17	↓ ☆ ②
<input type="checkbox"/> 2 电调减震器用显示器	冉燎原;江东轩;杜南;哈林	宁波诺丁汉大学	中国专利	2022-02-22	2022-05-13	↓ ☆ ②
<input type="checkbox"/> 3 基于光纤布拉格光栅的局部脉搏波速测量装置、测量方法及其应用	王静;王著莹;任勇;王靖霖;王成波	宁波诺丁汉大学	中国专利	2021-12-29	2022-05-13	↓ ☆ ②
<input type="checkbox"/> 4 一种运动轨迹确定方法、装置及系统	李汶锦;吴仁杰;马舒亮;柴晓卿	宁波诺丁汉大学;诺丁汉大学卓越灯塔计划(宁波)创新研究院	中国专利	2022-01-29	2022-05-13	↓ ☆ ②



# Patents Details in CNKI

## 水质检测纸芯片盒子(便携式)

专利类型: 外观设计

申请(专利)号: CN202130861430.3

授权公布号: CN3073469045

申请人: 宁波诺丁汉大学

地址: 315100 浙江省宁波市泰康东路199号宁波诺丁汉大学

发明人: 王静; 张紫君; 任勇

专辑: 工程技术II辑

专题: 仪器仪表工业

分类号: 10-05

主分类号: 10-05

页数: 3

代理机构: 宁波市甬远专利代理有限公司

申请日: 2021-12-27

授权公告日: 2022-05-17

国省代码: 33

代理人: 沈春红

### 摘要:

1.本外观设计产品的名称:水质检测纸芯片盒子(便携式)。2.本外观设计产品的用途:用于检测水质。3.本外观设计产品的设计要点:在于形状。4.最能表明设计要点的图片或照片:立体图。5.外观设计图片中的手机为衬托物不属于请求保护的外观设计内容。

### 查看法律状态

法律状态公告日	法律状态	法律状态信息
2022-05-17	授权	授权

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- Does your topic require current information, or will older sources work as well?

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- Who is the intended audience? An appropriate level?

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- Is the author qualified to write on the topic? / contact information?

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- Does the point of view appear objective and impartial?
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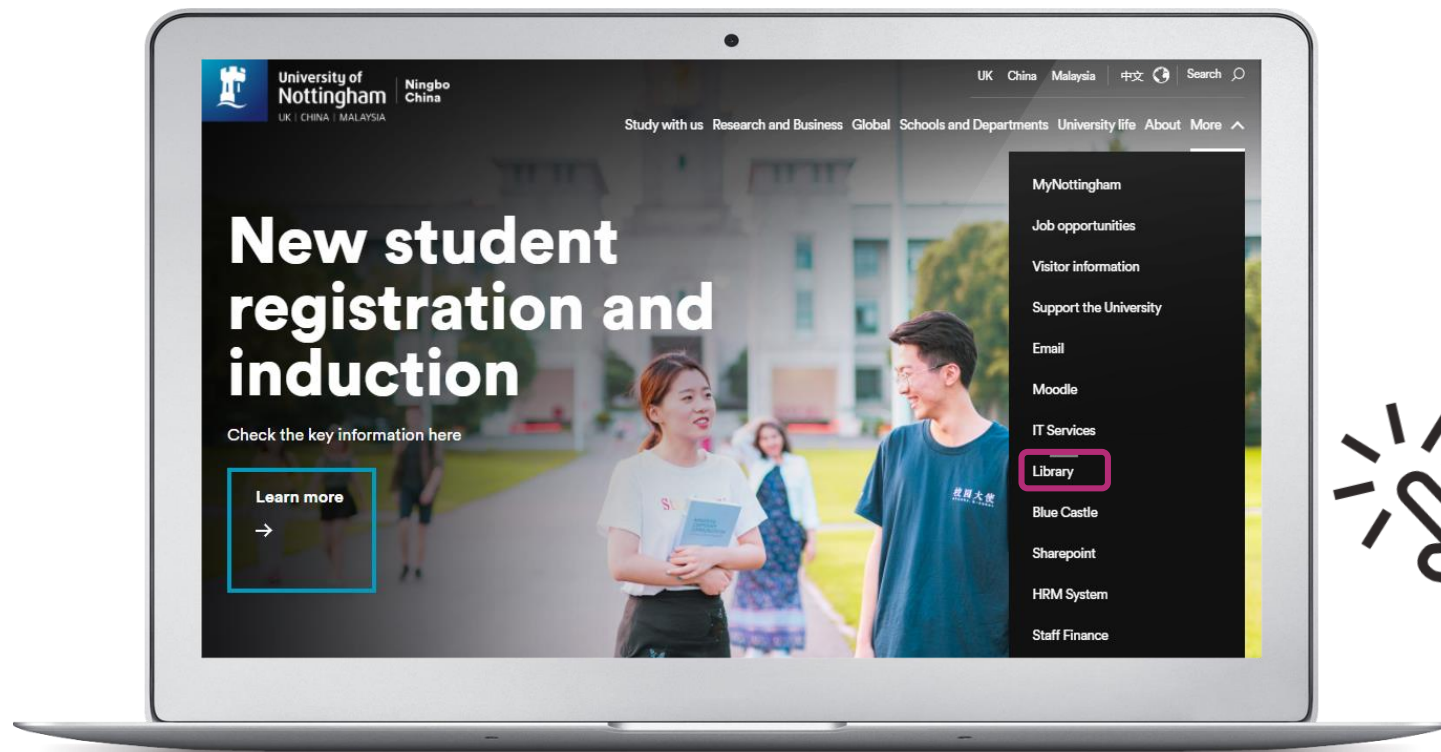
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