



**IET Inspec**  
**物理及電子電機**  
**資料庫**  
 OvidSP 2.0平臺

GATEWAY TO KNOWLEDGE

THE DATABASE FOR  
 Physics  
 Computers & Control  
 Information Technology  
 Mechanical & Production Engineering  
 Electrical Engineering & Electronics

IET在台總代理

飛資得資訊股份有限公司  
 FlySheet Information Services Co., Ltd.

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**IET Inspec**

**內容概述**

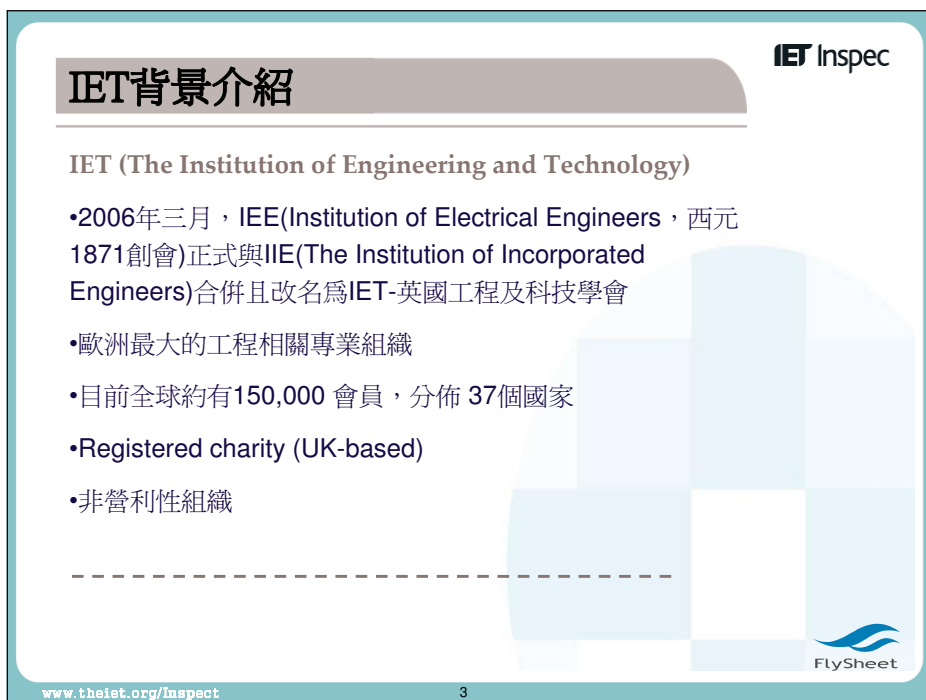
在看完此介紹後，您將會瞭解：

- IET背景介紹**
- Inspec 資料庫介紹
- Inspec OvidSp 2.0平臺介紹
- 產品資訊、教育訓練、聯繫我們

www.theiet.org/Inspec

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**IET Inspec**

**IET背景介紹**

**IET (The Institution of Engineering and Technology)**

- 2006年三月，IEE(Institution of Electrical Engineers，西元1871創會)正式與IIE(The Institution of Incorporated Engineers)合併且改名為IET-英國工程及科技學會
- 歐洲最大的工程相關專業組織
- 目前全球約有150,000 會員，分佈 37個國家
- Registered charity (UK-based)
- 非營利性組織

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**IET Inspec**

**IET背景介紹**

**IET 服務內容**

- 專業認證
  - Chartered Engineer – CEng
  - Incorporated Engineer – IEng
  - Engineering Technician – EngTech
  - ICT Technician - ICTTech
- 標準和安全
- 會議與研討會
  - IET每年舉辦超過120個國際型會議及活動
- 專業推廣

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## IET背景介紹

### IET 服務內容

#### 第一手資料源出版

- 書籍
- 會議論文集
- 遠距學習
- 期刊
- 雜誌
- The IET Digital Library  
(IET線上全文資料庫，包含所有IET出版的期刊、雜誌、會議出版品及研討會摘要。)



## IET背景介紹

### IET 服務內容

#### 第二手資料源出版

- IET最知名且具權威的二次文獻出版品，超過百年的文獻收錄，涵蓋理工主題廣泛，資料經各領域專家加以審核及編輯，可說是理工資訊界文獻查詢的google.
- Inspec Direct
- Inspec site license
- Inspec Archive
- Inspec print journals
- Inspec ondisc
- Document delivery



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## Inspec資料庫介紹

什麼是Inspec？

**Inspec**是理工學科領域的權威資料庫之一，前身**科學文摘 (Science Abstract)** 始於1898年，由**IET (前IEE)** 出版。專業面覆蓋物理、電子與電氣工程、電腦與控制工程、資訊技術、生產和製造工程等領域，並覆蓋材料科學，海洋學，核工程，天文地理、生物醫學工程、生物物理學等領域的內容。



## Inspec資料特點

### 資料量：

超過1100萬條文獻(1969 - Present)

Inspec回溯文獻資料庫：1898 -1968 年間“科學文摘”之全部內容 - 包含85萬條文獻

### 廣度：

收錄超過80個國家的出版物

140多個國家作者投稿

與超過2000多家出版商合作

4000期刊和2200會議論文集

### 更新速度：

每年增加逾60萬條文獻

每星期增加10,000條文獻

### 全文連結機制：

透過DOI連結全文



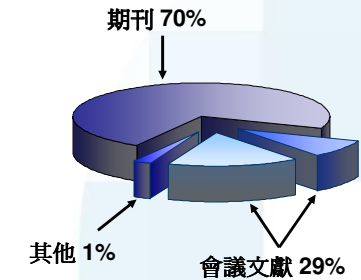
## Inspec文獻種類

- 期刊70%
- 會議論文 20%
- 發表在期刊的會議論文 9%
- 其他 1%

} 29 %

### 其他包括：

- 書和書的章節
- 文獻報告和報告章節
- 專利(1968/9-1976)
- 研究論文



## 同時檢索多家頂尖出版社出版品

ACM	Japanese Journal Appl. Physics
AIP Publishing	MAIK Nauka/Interperiodica
APS	Opt. Soc. America
Allerton Press	Plenum
American Geophys. Union	Science Press
Astron. Soc. Pacific	Taylor & Francis
Elsevier	Wiley
Gordon & Breech	Springer
IET	SPIE-Int. Soc. Opt. Eng.
IEEE	IOP Publishing
Inst. Elect. Inf. & Comm. Eng.	Univ. of Chicago Press
World Scientific	



## Inspec-理工文獻的入口網站



沒有足夠的時間至每個資料庫查詢  
 耗費時間與精力熟悉各個資料庫介面  
 有限經費難以購足所有的全文資料庫  
 單一資料庫涵蓋不夠廣闊，可能遺漏重要資訊



## Inspec-理工文獻的入口網站

Access thousands of journals by one platform

Researchers/Scientist

Secondary Database: Inspec

- ACM
- AIP Publishing
- Allerton Press
- Science Press
- Elsevier
- Springer
- IEEE
- IET
- Japanese Journal Appl. Physics
- APS
- Plenum
- Taylor & Francis
- Wiley
- Univ. of Chicago Press
- IOP Publishing
- SPIE-Int. Soc. Opt. Eng.



## Inspec五大學科

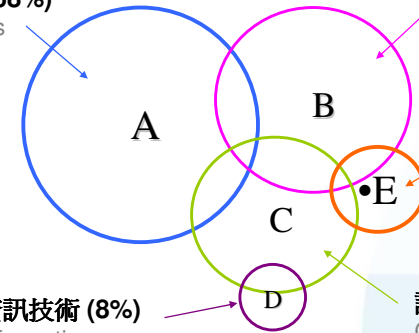
物理 (58%)  
Physics

電子&電機工程 (32%)  
Electrical & Electronic Engineering

機械&製造工程 (7.5%)  
Mechanical, Manufacturing & Production Engineering

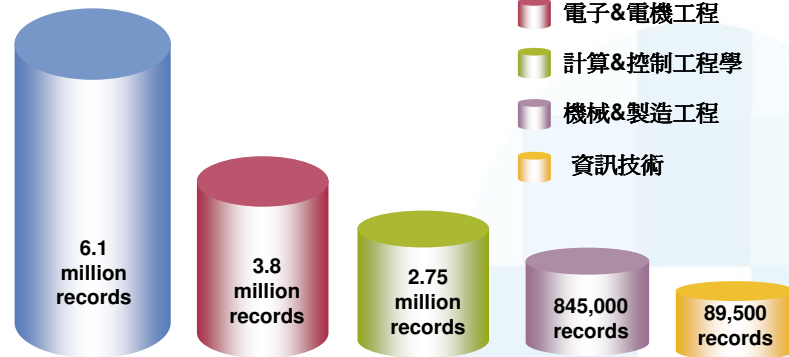
資訊技術 (8%)  
Information Technology for Business

計算&控制工程學 (28%)  
Computing & Control



## Inspec五大學科

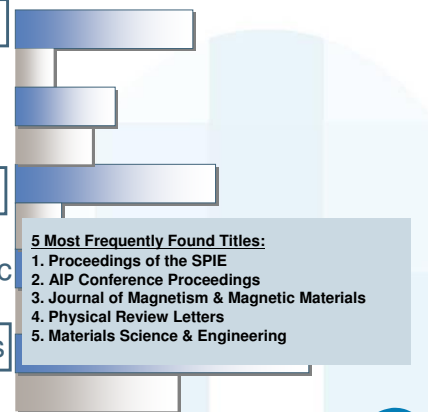
- 物理
- 電子&電機工程
- 計算&控制工程學
- 機械&製造工程
- 資訊技術



## Inspec五大學科

### 物理 (6.1 Million records)

- A0 General
- A1 Elementary Particles
- A2 Nuclear Physics
- A3 Atomic and Molecular
- A4 Fundamental Physics
- A5 Plasmas & Discharges
- A6 Solid State, Non-electronic
- A7 Solid State, Electronic
- A8 Cross-disciplinary Physics
- A9 Geophysics & Astronomy



## Inspec五大學科

### Inspec物理期刊

• High Energy Physics	266
• Atomic & Molecular Physics	149
• Fluid Dynamics & Plasma & Optics	125
• Solid State Physics	193
• Materials & Mechanics	146
• Biophysics & Biomedical Journals	129
• Astronomy & Astrophysics	220

Note: Approximate number of Journals is given



## Inspec五大學科

### 電子&電機工程 (3.8 Million records)

5 Most Frequently Found Titles:  
 1. Proceedings of the SPIE  
 2. Materials Science & Engineering B  
 3. Acta Electronica Sinica  
 4. Automation of Electric Power Systems  
 5. Journal of Magnetism & Magnetic Materials

- B0 General, Maths and Materials
- B1 Circuits
- B2 Components, Electron Devices
- B3 Magnetic Devices & Materials
- B4 Optoelectronics
- B5 Electromagnetic Fields
- B6 Communications
- B7 Instruments & Applications
- B8 Power Systems

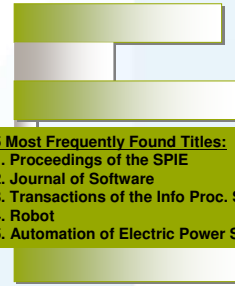


## Inspec五大學科

### 計算&控制工程學 (2.75 M records)

- C0 General Management
- C1 Systems & Control Theory
- C3 Control Technology
- C4 Numerical & Computer Theory
- C5 Computer Hardware
- C6 Computer Software
- C7 Computer Applications

5 Most Frequently Found Titles:  
 1. Proceedings of the SPIE  
 2. Journal of Software  
 3. Transactions of the Info Proc. Society  
 4. Robot  
 5. Automation of Electric Power Systems



## Inspec五大學科

### Inspec工程主題期刊

• Electronics & Telecommunications	380
• Instrumentation/Aerospace	60
• Power Engineering	300
• Control & Systems Engineering	300
• Computing	800

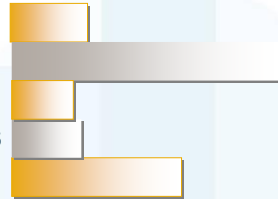
Note: Approximate number of Journals is given



# Inspec五大學科

## 資訊技術 (85,900 records)

- D1 General & Management
- D2 Applications
- D3 General Systems
- D4 Office automation/Communications
- D5 Office automation/Computing



- Most Frequently Found Titles:**
1. Network Computing
  2. Wall Street & Technology
  3. Manufacturing Computer Solutions
  4. Health Management Technology
  5. Computer Electronics Report



# Inspec五大學科

## Inspec 資訊技術主題期刊

Information Technology Journals No. of Journals  
150

- Accounting Technology
- Information Management & Computer Security
- Technology in Banking & Finance
- Health Management Technology
- What to buy for business
- Computer Fraud and Security
- Home Office Computing
- PC World
- EDI Forum: The Journal of Electronic Commerce
- IT Notes for Banking
- Training & Development
- Computers & Finance
- Network Computing



# Inspec五大學科

## 機械&製造工程 (845,000 records)

- E0 General topics in Manufacturing & Production Engineering
- E1 Manufacturing and Production
- E3 Industrial Sectors



- Most Frequently Found Titles:**
1. Journal of Productivity Analysis
  2. Control Engineering
  3. Greener Management International
  4. Ironmaking & Steelmaking
  5. Asia Pacific Journal of Management
  6. Journal of Quality in Maintenance Engineering



# Inspec其他主題

**Laser printers**  
Long-haul lasers [buyer's guide]

**Computer games**  
A principal cognitive precondition of successful child-computer interactions in the information society

**Traffic control**  
Traffic signal control by Egograms

**Photography**  
Color handling in panoramic photography

**Radar**  
Fully integrated automotive radar sensor with versatile resolution

**Pacemakers**  
Paradoxical undersensing at a high sensitivity in dual chamber pacemakers

**Radiation effects**  
Modeling natural space ionizing radiation effects on external materials

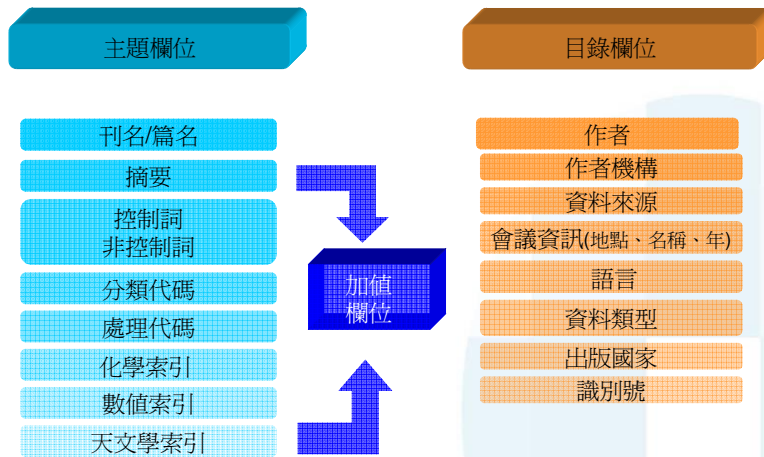
**Nanotechnology**  
Molecular motors: nature's nanomachines

**Environmental science**  
Impact of science and technology on energy and environmental research and development

**Manufacturing**  
Analysis of a decentralized production-inventory system



## Inspec主要檢索欄位



- 刊名/篇名
- 摘要
- 主題檢索
  - 非控制詞
  - 控制詞
- 特殊索引
  - 分類代碼
  - 處理代碼
  - 化學索引
  - 數值索引
  - 天文學索引

第一手  
資源

Free  
Language

加值  
欄位

Controlled  
Language

## Inspec附加欄位

Inspec為各種文獻資料標識的多種索引欄位，以提高檢索效率

### 控制詞

概括文獻內容的標準化關鍵字，用於提高檢索相關性，濾除無關結果

### 分類代碼

根據學科類別分類的代碼，用於將檢索限定在某一特定的研究領域裏

### 處理代碼

說明文獻的研究方法及所探討主題的類型，用於細化檢索在特定領域

### 數值索引

為檢索數值而設計的特色索引

另有化學索引、天文學索引等為專業研究人士提供相關領域專業檢索

## 自由語言檢索存在的問題

- 拼寫
  - e.g. center/ centre
- 首字母縮略詞 (acronyms)
  - e.g. SDI
- 術語 (terminology)
  - e.g. Internet -- Web Servers/World Wide Web/www/3w
- 標點 (punctuation)
  - e.g. . online -- on line, on-line and online

如果忽略上述變化，結果的相關性會降低

## 利用Inspec主題欄位來檢索

- 高相關的查尋 (high relevant search)
  - 非**控制詞**, **控制詞**, **分類代碼**等欄位
  - **Thesaurus**可提供更相關的書目, 改善檢索結果
  - 查尋範圍較廣時, 可利用**分類代碼**加以限制
- 限制範圍(limit range)
  - 出版物的**語言**, **類型**和**年份**
  - 可以在檢索最後加上**處理代碼**, 使檢索更精準
- 化學索引, 數值索引能滿足相關的特殊的檢索需求
  - **化學索引**及**數值索引**可幫助您查尋特定的資料。
- 目錄欄位檢索
  - author, conference info, ISSN, journal name



## 控制詞 Control Index (CI)

- 擇自Inspec Thesaurus 的關鍵字和詞組
- 相關詞或詞組被選用在最恰當的水平
- Inspec Thesaurus (2004) 有17,300個詞或片語, 其中有9,092是優先詞(Preferred terms), 8,275是引入詞(Lead-in term)
- Thesaurus可提供更相關的書目, 改善檢索結果



## Inspec 敘詞結構-優先詞 preferred terms

### Television

UF TV, colour television, business television  
 NT cable television, digital television, ....  
 BT telecommunication services  
 TT telecommunication  
 RT telecommunication control  
 video recording, telefilming  
 CC B6400; C3370J; D2105; E3050  
 DI January 1969  
 PT A/V



## 使用控制詞的好處

- 拼音、標點、術語標準化
- e.g. *analysers* -- *analyzers / center, modeling, fiber*
- e.g. *online* -- *on line, on-line and online*
- e.g. Internet -- Web Servers/World Wide web/www/3w
- 增進檢索的精確度

Combine Sets	Results	Delete Set
AND OR		SELECT ALL DELETE
COMBINE	SAVE HISTORY OPEN SAVED HISTORY	DELETE
#2	CI=(microcomputers) 17,292 <small>DocType=All document types; Language=All languages; Treatment=All treatment types; Database=INSPEC; Timespan=1969-2004</small>	
#1	TS=(microcomputer*) >100,000 <small>DocType=All document types; Language=All languages; Treatment=All treatment types; Database=INSPEC; Timespan=1969-2004</small>	
AND OR		SELECT ALL DELETE
COMBINE		DELETE

Search Tag Key: TS=Topic, TI=Title, AU=Author, SO=Source, AD=Address, CI=Controlled Index, UI=Uncontrolled Index, CL=Classification, CH=Chemical Index, AO=Astronomical Object, MI=Meeting Information, IC=Identifying Codes





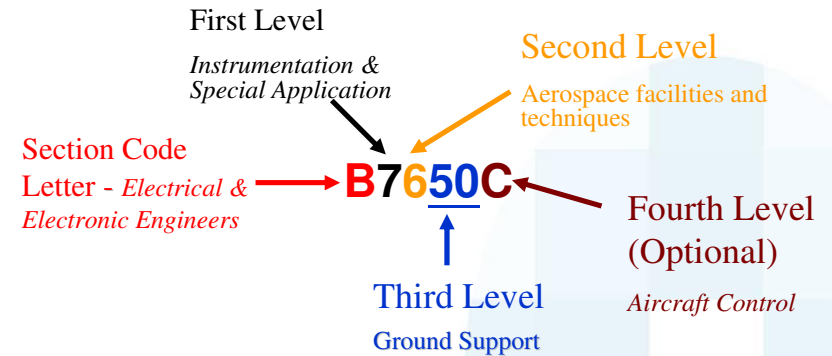
## 分類代碼 Classification Codes (CL)

Inspec 分類代碼是一個很強大的檢索工具，可將檢索範圍限定在特定的研究領域。

- A** –物理
- B** –電子&電機工程
- C** –計算&控制工程學
- D** –資訊技術
- E** –機械&製造工程



## 分類代碼 Classification Codes (CL)



## 分類代碼 - B7650C

- **B** Electrical & Electronic Engineering
- **B7** Instrumentation and special applications
- **B76** Aerospace facilities and techniques
- **B7650** Ground support systems
- **B7650C** Air Traffic Control

### Notes:

1. Classification codes can be searched at any of the above level
2. Truncation (\*, ?) must be used at the five-digit level



## 使用分類代碼的好處

- 改進查尋相關性
- 如要尋找非常具體類的詞/詞組，可使用更詳盡的分類代碼去檢索。  
例如: ISDN and multimedia terminal equipment [B6220F]

The screenshot shows the Inspec search interface. The search results are as follows:

Results	CL	DocType	Language	Treatment	Database	Timespan
#8	1,615	CL=(b7630a)	All document types	All languages	All treatments	INSPEC; 1969-2004
#7	21,370	CL=(b7630*)	All document types	All languages	All treatments	INSPEC; 1969-2004
#6	42,784	CL=(b76*)	All document types	All languages	All treatments	INSPEC; 1969-2004
#5	>100,000	CL=(b7*)	All document types	All languages	All treatments	INSPEC; 1969-2004

Labels on the right side of the screenshot indicate the corresponding levels for each result:

- Avionics (points to result #8)
- Space ground support centre (points to result #7)
- Aerospace facilities & techn (points to result #6)
- Instrumentation & special te (points to result #5)



## 處理代碼 Treatment Codes (TR)

處理類型 (Treatment type) 用於說明文獻的研究方法及所探討主題的類型。

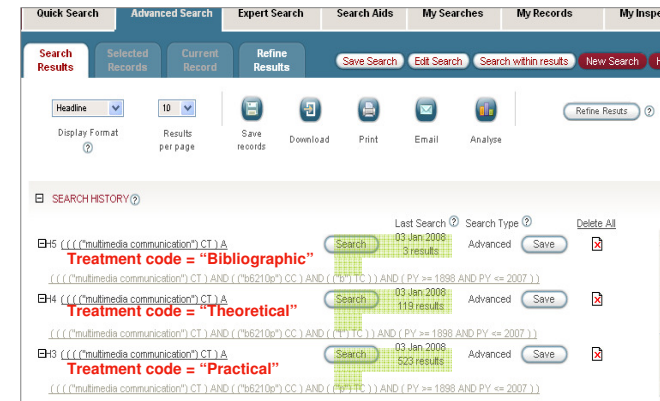
### 9種處理代碼

- A 應用 Application
- B 引文 Biographic or literature survey
- E 經濟 Economic aspects or market survey
- G 一般性綜述 General or Review
- N 新發展 New developments
- P 實用 Practical
- R 產品評述 Product review
- T 理論 Theoretical or mathematical
- X 實驗 Experimental



## 使用處理代碼的好處

- 協助研究者更容易找尋到符合研究方向的文獻資料



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## Flexible. Innovative. Precise 更靈活. 更創新. 更精確.

- 工欲善其事、必先利其器
  - 多元檢索模組，適合各種程度的使用者
  - 跟進讀者的Google化查詢特性，提供自然語言檢索
- 提供精簡靈活的工作流程工具
  - 使用介面更彈性、靈活、簡單
  - 透過RSS或email快速掌握



# 資源選單

Select a database to begin searching:  
資料庫清單

打開所有選擇的資料庫

- Inspec 1987 to 2009 Week 11
- inspec 1969 to 2009 Week 11

瀏覽資料庫簡介

- Hints:**
- To begin a search, click the name of the desired database OR select more than one database and click "Open Selected Resources".
  - To get more information about a database, click the information icon:
  - NOTE: Databases that don't have a checkbox next to them can not be included in multifile searching.
  - Click the Admin Tools button above to end your Ovid session and access customer support and configuration.

# 主要檢索頁

**記錄檢索歷程**

#	Searches	Results	Search Type	Display
1	carbon free energy (Dis Related Terms)	671	Basic	DISPLAY
2	solar cells/	21717	Advanced	DISPLAY
3	electronics letters.jn.	27798	Advanced	DISPLAY
4	3 and 2	18	Advanced	DISPLAY
5	"tee proceedings g circuits devices and systems".jn.	400	Advanced	DISPLAY
6	2 and 5	2	Advanced	DISPLAY

**顯示正在查詢之資料庫**

**各式查詢模組**

**查詢結果篩選選項**

- a) 變更資料庫或瀏覽電子期刊
- b) 線上指引
  - 1 瀏覽資料庫欄位
  - 2 詢問館員
  - 3 Ovid FAQ
  - 4 線上操作指引
- c) 個人化選項

# 瀏覽查詢結果

Search Results

查詢結果之輸出管理

查詢結果之瀏覽設定

**顯示檢索歷程**

**顯示文獻可連結之資訊**

**查詢結果之書目資料與摘要**

**查詢小幫手**

使用個人帳戶  
~提供個人研究的隱私性~

IET Inspec

Wolters Kluwer Health | OvidSP | Database Field Guide | Ask A Librarian | Display Knowledge Base | Help | Logoff

Change Database | Journals | Books

English | Français | **Personal Account** | Deutsch | Español

Saved Searches/Alerts

Search History (6 searches) (Click to close)

<input type="checkbox"/>	#	Searches	Results	Search Type	Display
<input type="checkbox"/>	1	carbon free energy (No Related Terms)	671	Basic	+ [DISPLAY]
<input type="checkbox"/>	2	solar cells/	21717	Advanced	+ [DISPLAY]
<input type="checkbox"/>	3	electronics letters.jn.	27798	Advanced	+ [DISPLAY]
<input type="checkbox"/>	4	3 and 2	18	Advanced	+ [DISPLAY]
<input type="checkbox"/>	5	"tee proceedings g circuits devices and systems".jn.	420	Advanced	+ [DISPLAY]
<input type="checkbox"/>	6	2 and 5	2	Advanced	+ [DISPLAY]

Remove Selected | Combine selections with:  and  Or  Save Search History

Search

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Ovid Search | Multi-Field Search

Enter your topic or question in ordinary English.  Search >

Check Spelling  Include Related Terms

Limits (Click to close)

Abstracts  English Language  Full Text

Latest Update  Journal Paper

Publication Year:  -

Additional Limits | Edit Limits

www.theiet.org/Inspec 45

點選Personal Account來登入個人帳戶

IET Inspec

Wolters Kluwer Health | OvidSP | Main Search Page | Ask A Librarian | Display Knowledge Base | Help | Logoff

## Personal Account Login

若未註冊過，隨時可以建立一個新的個人帳戶

- To login, enter your Personal Account Name and Password.
- Create a new Personal Account**
- Forgot your Personal Account password?

Personal Account Name:

Password:

Login >>

Hints:

- To access personal saved searches, login to desired Personal Account.
- If you have never accessed a Personal Account, it will be necessary to create a new Personal Account. Once you have created a Personal Account, you will be taken directly into that account.
- Please note that Personal Account names and passwords are case-sensitive.
- If you forget your Personal Account name or password, click on "Forgot your Personal Account password?". The system will email you a new password.

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點選建立新的個人帳戶

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## Create Personal Account

Personal Account Name:  輸入帳號名稱

Password:  輸入6-8個字元的密碼

Confirm Password:  重複輸入一次密碼

Email Address:  提供一個常用的Email電子信箱

Create >>

Hints:

- If you are not already logged into a Personal Account, creating a new account will log you into that account.
- Please note that Personal Account names and passwords are case-sensitive.
- The email address supplied for a Personal Account will be used only for account administration.
- Only one email address per Personal Account is permitted.

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建立個人帳戶資訊

完成帳戶設定

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## Personal Account Login

若忘記帳號名稱或密碼，OvidSP會將查詢結果送到email信箱

- To login, enter your Personal Account Name and Password.
- Create a new Personal Account
- Forgot your Personal Account password?**

Personal Account Name:

Password:

Login >>

Hints:

- To access personal saved searches, login to desired Personal Account.
- If you have never accessed a Personal Account, it will be necessary to create a new Personal Account. Once you have created a Personal Account, you will be taken directly into that account.
- Please note that Personal Account names and passwords are case-sensitive.
- If you forget your Personal Account name or password, click on "Forgot your Personal Account password?". The system will email you a new password.

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點選以查詢密碼或帳號

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 [Main Search Page](#) | 
 [Ask a Librarian](#) | 
 [Display Knowledge Base](#)

## Forgotten Personal Account Password

Enter your Personal Account Name or your Email address:

Personal Account Name:

Email Address:

[Reset Password >>](#)

**Hints:**

- If you enter the Personal Account name, the password will be reset only for that account. The new password will be sent to the Email address associated with that account. You can later modify the password by logging into the Personal Account and selecting "Modify an existing Personal Account" from the "Personal Account Administration" screen.
- If you enter the Email address, the passwords for all Personal Accounts associated with that Email address will be reset.

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 [Ask a Librarian](#) | 
 [Display Knowledge Base](#) | 
 [Help](#) | 
 [Logoff](#)

## Personal Account Login

輸入帳號/密碼

- To login, enter your Personal Account Name and Password.
- [Create a new Personal Account](#)
- [Forgot your Personal Account password?](#)

Personal Account Name:

Password:

[Login >>](#)

**Hints:**

- To access personal saved searches, login to desired Personal Account.
- If you have never accessed a Personal Account, it will be necessary to create a new Personal Account. Once you have created a Personal Account, you will be taken directly into that account.
- Please note that Personal Account names and passwords are case-sensitive.
- If you forget your Personal Account name or password, click on "Forgot your Personal Account password?". The system will email you a new password.

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 [Display Knowledge Base](#) | 
 [Help](#) | 
 [Logoff](#)

## Personal Account Administration

- Personal Account Name: [shaoji](#)
- [Modify your Personal Account](#)
- [Forgot your Personal Account password?](#)

**Hints:**

- To modify your Personal Account information, click on "Modify your Personal Account".
- If you forget your Personal Account name or password, click on "Forgot your Personal Account password?". The system will email you a new password.

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[Database Field Guide](#) | 
 [飛資得資訊](#) | 
 [Display Knowledge Base](#) | 
 [Help](#) | 
 [Logoff](#)

Change Database: [Joyce Chen, FLS](#)

登入個人帳戶時，會出現帳戶名稱

#	Searches	Results	Search Type	Display
1	solar cells (Including Limited Related Terms)	11483	Basic	DISPLAY
2	electronics letters.jn.	27798	Advanced	DISPLAY

Search: Inspec 1987 to 2009 Week 11

Basic Search | Find Citation | Search Tools | Search Fields | **Advanced Ovid Search** | Multi-Field Search

Enter Keyword or phrase (use "" or "S" for truncation):  [Search >>](#)

Map Term to Subject Heading

Results Manager (Click to expand)

Customize Display | Reset Display

View All Abstracts | Sort By: [See help on how to sort](#) | Results Per Page: 10

Results of your search: electronics letters.jn.  
Viewing 1-10 of 27798 Results

Next Page >>

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## OVID提供多種檢索模組

Basic Search Find Citation Search Tools Search Fields Advanced Ovid Search

Basic Search：快速的找到最相關的文獻

Find Citation：查核特定文獻資料內容

Search Tools：運用專業檢索工具

Search Fields：運用特殊欄位查詢

Advanced Ovid Search：進階查詢



## 靈活的文獻查詢模組 (依據搜尋需求選擇適用之模組)

- 如果您需要在**很短的時間**得到答案或是了解問題的主軸  
→ **Basic Search**
- 如果您想查**特定一篇文獻**，且僅知道該文獻部分出版資訊  
→ **Find Citation**
- 如果您**熟悉專業標題詞彙**，欲利用特定工具協助查詢  
→ **Search Tools**
- 如果您想針對文獻的某**特定欄位**查詢資料  
→ **Search Fields**
- 如果您需要**完整而精確的檢索策略**查詢  
→ **Advanced Ovid Search**
- 如果您想要**一次查詢多個特定欄位**資料  
→ **Multi-Field Search**



## Basic Search

Database Field Guide

Change Database

Joyce Chen, FLS

Search History (6 searches) (Click to expand)

Search

Basic Search Find Citation Search Tools Search Fields Advanced Ovid Search Multi-Field Search

Enter your topic or question in ordinary English.  Check Spelling  Include Related Terms

Limits (Click to close)

Abstracts  English Language  Full Text

Latest Update  Journal Paper

Publication Year: 2008 2009

Additional Limits Edit Limits

• 使用自然語言智慧搜尋過程 (Natural Language Processing)

• 支援Free Text，可以用於搜尋各種資料庫、書籍與期刊

• 一次輸入所有查詢內容，即可開始搜尋 (Google Experience)

• 輸入所有的關鍵字

• 一個完整的句子

• 複製某篇文章的篇名

Include Related Terms

• 同義之字/詞/片語

• 單複數與詞性變化形

• 英英語系之異體字

• 專業縮寫/全寫

• 可對應之標題詞

Limits

• 可直接設定限制查詢的選項

• 可依需求展開或折疊

Check Spelling

• 標示錯誤之拼字

• 字典中未收錄之字

## Search Results

Main Search Page | Change Database | Ask A Librarian | Display Knowledge Base | Help | Logout

Search Results

Customize Display | Reset Display

Results of your search: limit 8 to full view

Viewing 1-5 of 5 Results

Search Aid

Your search

search terms used:

development

biological development

development aspects

developments

solar cells

Thesaurus

solar batteries

solar battery

solar cell

Narrow search

Narrow your results by:

Subjects

elemental semiconductors (2)

nanostructured materials (2)

Authors

Srivastava OH (2)

Journals

International Journal of Hydrogen Energy (3)

Scores: \*\*\*\*\*

Karn RK, Srivastava OH. On the synthesis of nanostructured TiO<sub>2</sub> anatase phase and the development of the photoelectrochemical solar cell. *International Journal of Hydrogen Energy*, vol.24, no.1, Jan. 1999, pp. 27-35. Publisher: Elsevier,UK. AN: 9279310

Abstract

Complete Reference

電子全文

郵寄文件

網路資源

Unlike the rutile, the anatase phase of TiO<sub>2</sub> has not been extensively employed for fabrication of PEC cells primarily due to the difficulty in the synthesis of a stable anatase structural variant. The present investigation is focused on the synthesis of the anatase phase and its use as a photoelectrode of high efficiency PEC solar cells. TiO<sub>2</sub> in the nanostructured form, has been prepared by the hydrolysis of titanium (IV) isopropoxide solution. The nanostructured TiO<sub>2</sub> (anatase) stable phase has been synthesized by sintering the synthesised film at ~500degreesC with a heating rate of 1.0degreesC/min for a duration of 3 h in argon. The films of nanostructured TiO<sub>2</sub> anatase phase have been used as photoelectrodes in a type photoelectrode carried out in the present work corresponds to admitting In<sub>2</sub>O<sub>3</sub> to forming In<sub>2</sub>O<sub>3</sub> with TiO<sub>2</sub>(ns) anatase phase improves the solar spectral response. The chemical properties of the TiO<sub>2</sub>(ns) anatase phase and TiO<sub>2</sub>(ns) anatase-In<sub>2</sub>O<sub>3</sub> photoelectrode (PEC) phase bearing photoelectrode based PEC solar cell corresponds to V<sub>oc</sub>240 mV, I<sub>sc</sub>2.4 mA/cm<sup>2</sup> and for its In<sub>2</sub>O<sub>3</sub> doped version, these are V<sub>oc</sub>640 mV and I<sub>sc</sub>10.4 mA/cm<sup>2</sup> (15 References).

Author/Editor Affiliation

Dept. of Phys., Banaras Hindu Univ., Varanasi, India.

Subject Headings

crystal microstructures; crystal structure; electrochemical electrodes; nanostructured materials; optical properties; photoelectrochemical cells; sintering; solar cells; titanium compounds.

Classification Codes

Photoelectrochemical conversion (A8630K); Electrochemistry and electrophoresis (A824S); Photoelectric conversion; solar cells and arrays (A863J); Solar

顯示系統實際查詢使用之關鍵字

結果以關聯度排序

標示文獻結果關聯度

單一資料庫查詢時，會指引使用者至Inspec專業索引典

# Thesaurus

## Thesaurus

Thesaurus for solar cells

Database: INSPEC

Combine selections with: OR

Continue >

Select Terms(s)	Subject Heading	Hits	Explode	Scope Note
<input type="checkbox"/> solar activity		4157	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/> solar atmosphere		1070	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/> solar batteries			<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/> solar cell arrays		4108	<input type="checkbox"/>	<a href="#">I</a>
<input checked="" type="checkbox"/> solar cells		21717	<input type="checkbox"/>	<a href="#">I</a>
[Used For]				
<input type="checkbox"/>	photovoltaic solar cells		<input type="checkbox"/>	
<input type="checkbox"/>	Schottky barrier solar cells		<input type="checkbox"/>	
<input type="checkbox"/>	solar batteries		<input type="checkbox"/>	
<input type="checkbox"/>	[Broader Terms]			
<input checked="" type="checkbox"/>	solar energy conversion		<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	[Narrower Terms]			
<input type="checkbox"/>	solar cell arrays		<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	[Related Terms]			
<input type="checkbox"/>	flexible electronics	552	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	photoelectrochemical cells	1087	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	photovoltaic cells	2077	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	photovoltaic power systems	6614	<input type="checkbox"/>	<a href="#">I</a>
<input type="checkbox"/>	thermophotovoltaic cells	480	<input type="checkbox"/>	<a href="#">I</a>

在專業主題典中。透過專家分類，可以精確的獲得資料庫中有關該主題的資料；同時透過Broader Terms, Narrow Terms, Related Terms作延展或縮小主題的查詢

Search History (9 searches) (Click to close)

#	Searches	Results	Search Type	Display
1	carbon free energy (No Related Terms)	671	Basic	<a href="#">DISPLAY</a>
2	solar cells/	21717	Advanced	<a href="#">DISPLAY</a>
3	electronics letters.jn.	2798	Advanced	<a href="#">DISPLAY</a>
4	3 and 2	18	Advanced	<a href="#">DISPLAY</a>
5	"see proceedings g circuits devices and systems".jn.	420	Advanced	<a href="#">DISPLAY</a>
6	2 and 5	2	Advanced	<a href="#">DISPLAY</a>
7	new development of solar cells (Including Limited Related Terms)	922	Basic	<a href="#">DISPLAY</a>
8	limit 7 to full text	5	Advanced	<a href="#">DISPLAY</a>
9	solar cells/ or solar energy conversion/	22442	Advanced	<a href="#">DISPLAY</a>
10	3 and 9	18	Advanced	<a href="#">DISPLAY</a>

Customize Display | Reset Display

Results of your search: 3 and 9

Viewing 1-10 of 18 Results

Your Recent Searches [...]

Search Aid

Your search

Search terms used:

- conversion
- electronics
- energy
- letters
- solar

Narrow search

Narrow your results by:

- Subjects
- Authors

Author/Editor Affiliation

Inst. de Energia Solar, Univ. Politec. de Madrid, Madrid, Spain.

Subject Headings

solar cells; solar energy; concentrators.

Classification Codes

Photovoltaic conversion; solar cells and arrays [A8303]; Solar energy [A8103]; Solar cells and arrays [B4402].

# Find Citation: 查核特定文獻資料內容

Joyce Chen, FLS

Search History (10 searches) (Click to expand)

Search

Basic Search | **Find Citation** | Search Tools | Search Fields | Advanced Ovid Search | Multi-Field Search

Enter search terms in any field.

Journal Identifier

Journal Title:

Journal Name: **Electronics letters**  Truncate Name (adds "\*)

Author Surname: **Luque A**  Truncate Name (adds "\*)

Volume: **44** Issue:  Article First Page: **943**

Publication Year: **2008** (e.g., "2005")

Unique Identifier

DOI:

Hint: Use truncation if you don't have the full journal or author names (e.g., using truncation, "Ang" will find "Anglogenesis" and "Angiology"; "Smith G" will find "Smith, Glen" and "Smith, George").

Search >

透過部分或片段的書目資訊，獲得完整的書目參考資料

- 可任意輸入已知的資料
- 可以使用\*當作萬用字元

- 透過獨一無二識別碼查詢
- 透過DOI查詢

Customize Display | Reset Display

Results of your search: "44" [Volume] and "Luque AS" [Author Surname] and "electronics letters" [Journal Name] and "2008" [Publication Year] and "943" [Article First Page]

Viewing 1 of 1 Results

Search Aid

Your search

1. Luque A, Marti A. Ultra-high efficiency solar cells: the path for mass penetration of solar electricity. *Electronics Letters*, vol.44, no.16, 31 July 2008, pp. 943-5. Publisher: IET/UK. AN: 1011752

# Search Tools

Saved Searches/Alerts

Personal Account  
English | Français | Deutsch | Español

Search History (0 searches) (Click to expand)

Search

Basic Search | Find Citation | **Search Tools** | Search Fields | Advanced Ovid Search

Multi-Field Search

Enter a Term, Select a Tool and press the Search button

Search >

- Map Term
- Thesaurus
- Permuted Index
- Scope Note
- Explode
- Classification Codes

**Explode**  
延展主題查詢；延展搜尋結果，包含該主題以及其Narrow Term。

**Classification Codes**  
顯示完整Inspec主題表；毋須輸入任何關鍵字，選擇此工具時，僅需挑選後再按Search查詢即可

**Map Term**  
主題比對；等同於Advanced Ovid Search之Map Term to Subject Heading。

**Thesaurus**  
輸入完整的Inspec專業索引詞查詢，可以顯示該主題之Broader Terms, Narrow Terms, Related Terms。

**Permuted Index**  
替代索引；藉由輸入單一關鍵字顯示所有包含此關鍵字的主题、Related terms和Used-for terms等。

**Scope Note**  
名詞解釋；提供該標準主題詞彙的參考資料。

# Search Fields

透過指定欄位查詢相關資訊

點選連結查詢欄位

The Publisher (PU) index contains the words in the name of the publisher of a book, conference proceedings, dissertation, and from 1996, journals. This field usually displays as a part of the Source (SO) field.

# Index Display

顯示此一欄位之索引檔

顯示適合之資訊及資料庫收錄筆數

<input checked="" type="checkbox"/> let.pu. Postings: 8961	<input type="checkbox"/> lir.pu. Postings: 20	<input type="checkbox"/> maps.pu. Postings: 1598	<input type="checkbox"/> ind.pu. Postings: 5671
<input type="checkbox"/> lre.pu. Postings: 49	<input type="checkbox"/> liram.pu. Postings: 2	<input type="checkbox"/> inc.pu. Postings: 531	<input type="checkbox"/> indeks.pu. Postings: 433
<input type="checkbox"/> lfac.pu. Postings: 205	<input type="checkbox"/> ljjic.pu. Postings: 237	<input type="checkbox"/> imec.pu. Postings: 233	<input type="checkbox"/> indsci.pu. Postings: 14919
<input type="checkbox"/> lfip.pu. Postings: 88	<input type="checkbox"/> lko.pu. Postings: 33	<input type="checkbox"/> imec.pu. Postings: 233	<input type="checkbox"/> indexers.pu. Postings: 73
<input type="checkbox"/> lfs.pu. Postings: 15	<input type="checkbox"/> lks.pu. Postings: 96	<input type="checkbox"/> imeche.pu. Postings: 3641	<input type="checkbox"/> india.pu. Postings: 2206
<input type="checkbox"/> lfors.pu. Postings: 247	<input type="checkbox"/> llp.pu. Postings: 42	<input type="checkbox"/> imechie.pu. Postings: 3	<input type="checkbox"/> indian.pu. Postings: 8734
<input type="checkbox"/> lfs.pu. Postings: 1216	<input type="checkbox"/> llmols.pu. Postings: 3716	<input type="checkbox"/> imeko.pu. Postings: 239	<input type="checkbox"/> indiani.pu. Postings: 55
<input type="checkbox"/> lfgrs.pu. Postings: 1	<input type="checkbox"/> lluminating.pu. Postings: 127	<input type="checkbox"/> img.pu. Postings: 9	<input type="checkbox"/> indicators.pu. Postings: 1
<input type="checkbox"/> lgl.pu. Postings: 673		<input type="checkbox"/> imi.pu. Postings: 17	<input type="checkbox"/> industrial.pu. Postings: 3132

# Advanced Ovid Search

輸入之關鍵字可自動比對至最適合之專業主題詞

當有多個關鍵字時，可分別輸入查詢再行合併

範例：請找出2007至2009年以solar cells做為汽車動力之相關研究文獻

# Mapping Display

透過 Scope Note 確認是為查詢之主題

Scope Note Display

Scope Note for: solar cells

MAIN TERM: solar cells

DATE OF ENTRY: January 1969

SCOPE NOTE:

RELATED CLASSIFICATION CODES: A8630J; B8420



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Change Database | Journals | Books

Search History (2 searches) (Click to close)

<input type="checkbox"/>	#	Searches	Results	Search Type	Display
<input type="checkbox"/>	1	solar cells/	21717	Advanced	DISPLAY
<input type="checkbox"/>	2	limit 1 to yr="2007 - 2009"	2995	Advanced	DISPLAY

Remove Selected | Combine selections with:  And  Or

Search

Basic Search | Find Citation | Search Tools | Search Fields | **Advanced Ovid Search** | Multi-Field Search

Enter Keyword or phrase (use "" or "\$" for truncation): **vehicle**

Limits (Click to close)

Abstracts  English Language  Full Text

Latest Update  Journal Paper

Publication Year: [ ] - [ ]

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**IET Inspec**

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Change Database | Journals | Books

### Mapping Display

Your term mapped to the following subject Headings:  
Click on a subject heading to view more general and more specific terms mapped through permuted index

Combine selections with:  OR  AND

勾選相關主題查詢

勾選Explode表示同時查詢intervention以及所有 Narrow Terms

Select	Subject Heading	Explode	Scope
<input type="checkbox"/>	automatic guided vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	battery powered vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	electric vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	fuel cell vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	hybrid electric vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	marine vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	military vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	remotely operated vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	road vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	solar powered vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	space vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	underwater vehicles	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	vehicles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	vehicles.mp. search as Keyword	<input type="checkbox"/>	<input type="checkbox"/>

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Change Database | Journals | Books

Joyce Chen, FLS

Search History (3 searches) (Click to close)

<input type="checkbox"/>	#	Searches	Results	Search Type	Display
<input checked="" type="checkbox"/>	1	solar cells/	21717	Advanced	DISPLAY
<input checked="" type="checkbox"/>	2	limit 1 to yr="2007 - 2009"	2995	Advanced	DISPLAY
<input checked="" type="checkbox"/>	3	vehicles.mp. or exp vehicles/	107563	Advanced	DISPLAY
<input type="checkbox"/>	4	1 and 3 and 2	26	Advanced	DISPLAY

Remove Selected | Combine selections with:  And  Or

作三個主題的交集

Customize Display | Reset Display

Results of your search: 1 and 2 and 3

Viewing 1-10 of 13 Results

Go to #: [ ] - [ ]

Search Aid

Your search

Search terms used:

cells  
solar  
vehicles

Narrow search

Narrow your results by:

- Subjects
- space vehicles (6)
- aerospace engineering (4)
- solar powered vehicles (3)
- aircraft (2)

Abstract  
Complete Reference  
期刊資料

Author/Editor Affiliation  
Dept. of Mech. Syst. Eng., Kanagawa Inst. of Technol., Tokyo, Japan Dept. of Vehicle Syst. Eng., Kanagawa Inst. of Technol., Tokyo, Japan.

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**IET Inspec**

Wolters Kluwer Health | OvidSP Database Field Guide | Ask A Librarian | Display Knowledge Base | Help | Logoff

Change Database | Journals | Books

Joyce Chen, FLS

### Multi-Field Search(全新功能)

Search History (4 searches) (Click to expand)

Search

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Ovid Search | **Multi-Field Search**

Enter a search term, select a specific field to search in, and click "Search". Click "Add New Row" to add more terms.

AND OR

Subject Heading Words  
Publisher  
Year  
Treatment

Search >

使用AND/OR依序交集或聯集查詢

依讀者需求增加查詢的欄位

Please Select

- Abstract
- Abstract Number
- Accession Number
- All Fields
- Astronomical Object
- Author
- Author/Editor Affiliation
- CODEN
- Chemicals
- Classification Code Words
- Classification Codes
- Conference Information
- Contract Number
- Corporate Author/Issuing Organization
- Country of Publication
- Document Number
- Editor
- ISSN
- ISSN

提供所有資料庫欄位供查詢

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**Search** Inspec 1987 to 2009 Week 11

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Ovid Search | **Multi-Field Search**

Enter a search term, select a specific field to search in, and click "Search". Click "Add New Row" to add more terms.

AND jobst Subject Heading Words  
AND power All Fields  
AND jet Publisher

Search > Add New Row

**Limits (Click to close)**

Abstracts  English Language  Full Text  
Latest Update  Journal Paper

Publication Year 2004 - 2009

Additional Limits Edit Limits

**Search History (2 searches) (Click to close)**

	#	Searches	Results	Search Type	Display
<input type="checkbox"/>	1	solar.hw. and power.af. and iet.pu.	8	Advanced	+DISPLAY
<input type="checkbox"/>	2	limit 1 to yr="2004 - 2009"	8	Advanced	+DISPLAY

Remove Selected | Combine selections with: And Or

Save Search History

## Search Refinement 優化檢索

Edit Limit (更客製化)

Search History (依從讀者習慣)

Search Aids (檢索小幫手)



## Edit Limit (更客製化)

**Search History (2 searches) (Click to expand)**

View Saved

**Search** Inspec 1987 to 2009 Week 11

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Ovid Search | Multi-Field Search

Enter your topic or question in ordinary English.  Search >

Check Spelling  Include Related Terms

**Limits (Click to close)**

Abstracts  English Language  Full Text  
Latest Update  Journal Paper

Publication Year - -

Additional Limits **Edit Limits**

設定讀者個人常用的limit選項

## Limit a Search

**Hints:**

- You can select limits to add to the Main Search Page by default.
- Select as many limits as you like, and then click the "Customize Limits" button.

Customize Limits

**L i m i t s**

Abstracts  English Language  Full Text  
Latest Update  Ovid Full Text Available  Journal Paper

Publication Year - -

To select or remove multiple items from a list below, hold down the Shift, Ctrl, or "Apple" key while selecting.

Chemical Roles

Adoptive/Passive Solvate  
Binary System  
Complex  
Biomass  
Reference System

Languages

Afrikaans  
Albanian  
Arabic  
Armenian  
Azerbaijani  
Publication Types

Book  
Book Chapter  
Conference Paper  
Continuum Processing  
Discussion

Classification Codes

Section A - Physics  
Section B - Electrical engineering and electronics  
Section C - Computer and control  
Section D - Information technology for business

Numeric Data

Age  
Altitude  
Apparent Power  
Bioactivity  
Dir Style

Treatments

Application  
Bibliography  
Economic  
Experimental  
General or Review

**IET Inspec**

Wolters Kluwer | OvidSP  
Health Database Field Guide | Ask A Librarian | Display Knowledge Base | Help | Logoff

Change Database | Journals | Books  
Saved Searches/Alerts  
Personal Account  
English | Français | Deutsch | Español

Joyce Chen, FLS

Search History (2 searches) (Click to expand) View Saved

**Search** Inspec 1987 to 2009 Week 11

Basic Search Find Citation Search Tools Search Fields Advanced Ovid Search Multi-Field Search

Enter your topic or question in ordinary English.  Check Spelling  Include Related Terms Search >

Limits (Click to close)

Abstracts  Latest Update  English Language  Journal Paper  Full Text

Publication Year - - - -

Classification Codes Publication Types Treatments

Section A - Physics Book Application  
Section B - Electrical engineering and electronics Book Chapters Bibliography  
Section C - Computers and control Conference Paper Economic  
Section D - Information technology for business Conference Proceedings Environmental  
Section E - Mechanical and production engineering Dissertation General or Review

Additional Limits Edit Limits

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Health Database Field Guide | Ask A Librarian | Display Knowledge Base | Help | Logoff

Change Database | Journals | Books  
Saved Searches/Alerts  
Personal Account  
English | Français | Deutsch | Español

## Search History (依從讀者習慣)

Search History (6 searches) (Click to close) View Saved

<input type="checkbox"/>	#	A	Searches	Results	Search Type	Display
<input type="checkbox"/>	1		carbon free energy (No Related Terms)	671	Basic	DISPLAY
<input type="checkbox"/>	2		solar cells/	21717	Advanced	DISPLAY
<input type="checkbox"/>	3		electronics letters.jn.	27798	Advanced	DISPLAY
<input type="checkbox"/>	4		3 and 2	18	Advanced	DISPLAY
<input type="checkbox"/>	5		tee proceedings g circuits devices and systems'.jn.	400	Advanced	DISPLAY
<input type="checkbox"/>	6		2 and 5	2	Advanced	DISPLAY

Remove Selected | Combine selections with: And Or Save Search History

Search Inspec 1987 to 2009 Week 11

Basic Search Find Citation Search Tools Search Fields Advanced Ovid Search Multi-Field Search

Enter your topic or question in ordinary English.  Check Spelling  Include Related Terms Search >

Limits (Click to close)

Abstracts  Latest Update  English Language  Journal Paper  Full Text

Publication Year - - - -

Additional Limits Edit Limits

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讀者可隨地擺放 Search History 在檢索模組的上方或下方。

1. 系統預設為上方
2. 讀者登入個人帳號後，系統會記憶上次讀者擺放之位置

**IET Inspec**

Wolters Kluwer | OvidSP  
Health Main Search Page | Change Database | Ask A Librarian | Display Knowledge Base | Help | Logoff

## Search Aids (檢索小幫手)

Search Results

Customize Display | Reset Display View All Abstracts:  Sort By: 2008 Results Per Page: 10

Results of your search: limit 8 to full text  
Viewing 1-5 of 5 Results Your Recent Searches (+)

**Search Aid** Score: \*\*\*\*\*

Your search  
Search terms used:  
development  
biological development  
biologic development  
development aspects  
developments

**Thesaurus**  
solar cells  
solar batteries  
solar battery  
solar cell

**Narrow search**  
Narrow your results by:  
Subjects  
elemental semiconductors (2)  
nanostructured materials (2)  
Authors  
Srivastava ON (2)  
Journals  
International Journal of Hydrogen Energy (3)

Score: \*\*\*\*\*  
Karn RK, Srivastava ON. On the synthesis or nanostructured TiO<sub>2</sub> anatase phase and the development of the photoelectrochemical solar cell. International Journal of Hydrogen Energy, vol.24, no.1, Jan. 1999, pp. 27-35. Publisher: Elsevier, UK. AN: 6279310

Unlike the rutile, the anatase phase of TiO<sub>2</sub> has not been extensively employed for fabrication of PEC cells primarily due to the difficulty in the synthesis of the anatase phase and its use as a red form, has been prepared by the hydrolysis of titanium (IV) been synthesised by sintering the synthesised film at -500degreesC with a heating rate of 10degreesC/min for a duration of 3 h in argon. The films of nanostructured TiO<sub>2</sub> anatase phase have been used as photoelectrodes in PEC solar cells. An improvement in TiO<sub>2</sub>(ns) anatase phase photoelectrode carried out in the present work corresponds to admixing In<sub>2</sub>O<sub>3</sub> to improve the spectral response. It has been found that admixing In<sub>2</sub>O<sub>3</sub> with TiO<sub>2</sub>(ns) anatase phase improves the solar spectral response. The structural, microstructural, optical, and photoelectrochemical properties of the TiO<sub>2</sub>(ns) anatase phase and TiO<sub>2</sub>(ns) anatase-In<sub>2</sub>O<sub>3</sub> photoelectrode (rode based PEC solar cell corresponds to V<sub>oc</sub>460 mV, I<sub>sc</sub>2.4 mA/cm<sup>2</sup> References).

Author/Editor Affiliation  
Dept. of Phys., Banaras Hindu Univ., Varanasi, India.

Subject Headings  
crystal microstructures; crystal structures; electrochemical electrodes; nanostructured materials; optical properties; photoelectrochemical cells; sintering; solar cells; titanium compounds.

Classification Codes  
Photoelectrochemical conversion [A8630K]; Electrochemistry and electrophoresis [A824S]; Photoelectric conversion; solar cells and arrays [A8630J]; Solar

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## Search Results Management 檢索結果管理



- Alerting Tools : 即時新知取得工具
- Results Manager : 檢索結果管理員
- Sort Results : 快速排序瀏覽
- View Abstracts inline : 即時檢視摘要
- Annotation : 筆記便利貼
- Full Text & Resources Linking : 全文連結

Powerful. Simplified. Even Better.

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# Search Results Management 檢索結果管理 IET Inspec

#	Searches	Results	Search Type	Display
1	carbon free energy (No Related Terms)	671	Basic	DISPLAY
2	solar cells/	21717	Advanced	DISPLAY
3	electronics letters.jn.	27798	Advanced	DISPLAY
4	3 and 2	18	Advanced	DISPLAY
5	tree proceedings & circuits devices and systems.jn.	420	Advanced	DISPLAY
6	2 and 5	2	Advanced	DISPLAY

提供兩種模式：  
1.RSS  
2.E-mail

Wolters Kluwer | OvidSP

Main Search Page | Change Database | Display Knowledge Base | Help | Logout

Email Jumpsart | Manage eTOC Subscriptions

### Journals A-Z

Subject Categories

- All Journals
- Clinical Medicine (1057 Journals)
- Behavioral & Social Sciences (499 Journals)
- Life Sciences (558 Journals)
- Nursing (133 Journals)
- Physical Science & Engineering (295 Journals)
- Physical Sciences (62 Journals)

Life Sciences

Acta Biochimica et Biophysica Sinica ISSN: 1672-9145 Issues: 44

Acta Biotheoretica ISSN: 0001-5342 Issues: 43

# Results Manager : 檢索結果管理員 IET Inspec

Results Manager (Click to expand)

1. 讀者可依需要的閱讀空間自由開闢  
2. 登入個人帳戶後，可記憶上次的設定

在檢索結果上下端同時提供  
檢索結果管理

選擇檢索結果輸出方式

Results Manager (Click to close)

Results

Selected Results  
All in this set (1-1)

Fields

Citation (Title, Author, Source)  
Citation - Abstract  
Citation - Abstract - Subject Headings  
Complete Reference

Result Format

Ovid  
BRS/Tagged  
Reprint/Medlars  
Brief (Titles) Display  
Direct Export  
XML

Actions

Display  
Print Preview  
Email  
Save

# Sort Results : 提供多個欄位快速排序 IET Inspec

Sort By: SCORE

瀏覽結果時可依不同欄位排序

Sort Keys

Primary: - Ascending  
Secondary: - Ascending

Output results provide two-stage sorting method

# View Abstracts inline : 即時檢視摘要 IET Inspec

View All Abstracts | Sort By: SCORE

View Abstracts inline

View Abstracts

Carbon nanotubes (CNTs) with different diameters as a counter electrode to fabricate dye-sensitized solar cells with high conversion efficiency are investigated. The CNT electrodes with large diameter demonstrated better redox reaction and higher energy conversion efficiency.

# Annotation : 筆記便利貼

## Search Results

Annotation interface showing search results and a 'View Annotation' window for a specific article.

# Full Text & Resources Linking : 全文連結

## Search Results

Full Text & Resources Linking features:

- More than E-Journals
  - 連結超過3,300種免費線上期刊全文
  - 提供 DOI連結 : CrossRef
  - 連結各全文資料庫 : BioOne、EBSCO Host、EJS、IngentaConnect、JSTOR、MD Consult、ProQuest、SwetsWise...
  - 連結專利全文 : 如FSTA、Inspec等.....
- 更多參考資源連結
  - 連結期刊影響力與引用參考資源
  - 連結各館藏系統及文獻傳遞服務
  - 連結線上百科全書
  - 連結全球相關主題網站
  - .....更多客製化參考資源連結等您提供~

# Annotation : 筆記便利貼

Resource linking options:

- 電子全文
- 網際合作
- 網路資源

# 全新線上個人工作空間 「My Projects」 is coming...

My Projects interface features:

- 輕鬆管理檢索策略與檢索結果
- 提供讀者上傳文獻資料
- 分門別類管理

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讓您始終站在科技研究的最尖端

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遠端教育訓練  
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