

Engineering Village(EV)嚴選多種工程領域相關的資料庫，提供一系列優質的應用科學及工程領域專業資訊及資源！

Compendex

全球工程研究學者一致推薦的書目型資料庫，自1969年迄今，收錄了5900多種學術期刊、產業雜誌及會議論文集；收錄自70多個國家，含190種工程學科領域，超過1700萬筆資料，每週持續新增約25000筆資料！

Inspec

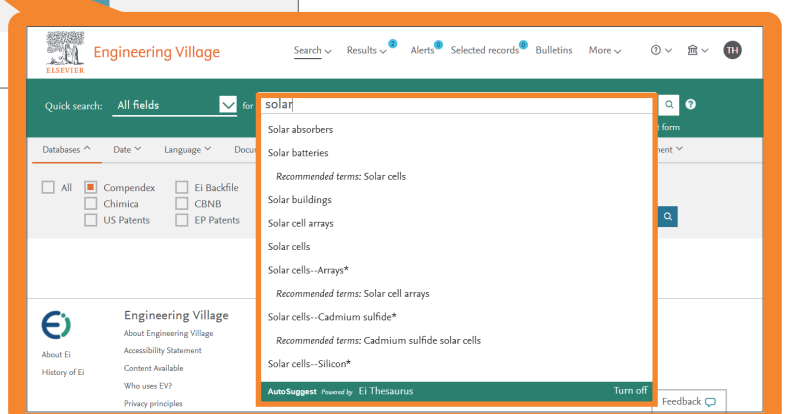
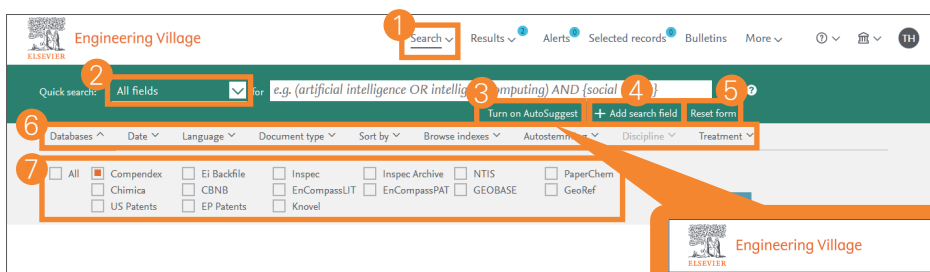
由英國工程技術學會製作，內容涵蓋全球物理、電子電機、電腦、資訊技術四大主題，是工程領域研究人員深為依賴的工具；自1969年迄今，收錄了5000多種科學和技術性期刊，每年新增2500筆會議論文集！

基本檢索

Engineering Village 提供方便快速的搜尋模式、人性化的操作介面以及一系列的個人化功能，讓您在第一時間獲得文獻資料！

快速搜尋 (Quick Search)

- 1 快速搜尋：可切換快速搜尋、專家搜尋、索引典搜尋及作者/機構搜尋。
- 2 選擇搜尋欄位：您可以選擇所有欄位(All fields)、主題/標題/摘要(Subject/Title/Abstract)、摘要(Abstract)、作者(Author)、作者服務機構(Author affiliation)、標題(Title)。
- 3 關閉/開啟自動控制詞彙提示(AutoSuggest)：在輸入三個英文字後，自動提供索引典內的相關控制詞彙讓使用者挑選，讓使用者能更快速且準確地做搜尋。
- 4 增加搜尋欄位(Add search field)：您可以依照搜尋需求增加關鍵字及其所在欄位。
- 5 清空欄位(Reset form)：可以將搜尋欄位重設。
- 6 限制條件、排序選項、索引(Browse indexes)：可利用索引功能瀏覽/查詢作者(Author)、作者服務機構(Author affiliation)、Ei控制詞彙(Controlled term)、期刊名稱(Source title)和出版社(publisher)。
- 7 選擇資料庫：選擇您要搜尋EV平台下那些資料庫。



相關檢索與說明

- 1 Engineering Village在快速搜尋(Quick search, 預設)以及專家搜尋(Expert search, 非預設)中提供stemming功能：
 - Stemming能將所有和輸入關鍵字相關的詞彙憶起做搜尋(相關的詞彙是指含有與關鍵字相同的字尾、字根、名詞/動詞/形容詞等形式變化的字)，如：若您輸入關鍵字controllers，您將會得到包含controllers、control、controlling、controlled以及controls這些關鍵字的搜尋結果；Stemming search提供您更大範圍的相關搜尋結果，您就不用將這些字一個一個做搜尋！
 - Stemming無法分別是英式還是美式的拼法，如：當您輸入color(美式拼法)做stemming搜尋，就會找不到colour或coloured的相關搜尋結果(colour&coloured為英式拼法)，要輸入colour才找得到!若您要同時找到包含以上搜尋結果，請輸入color or colour。
附註：系統會自動執行stemming 搜尋(除了關鍵字作為作者名稱或關鍵字有引號” 或大括號{}); 若要關閉stemming功能，請點選Turn autostemming off。
- 2 執行與關鍵字完全一致的搜尋
 - 若您有兩個或兩個以上的關鍵字，只要用AND連結即可；若您的關鍵字是由兩個或兩個以上的字組成(如：Solar cell)，請在前後加上雙引號” ” (如” Solar cell”)，即可執行與您輸入的關鍵字串完全相同的搜尋。
- 3 檢索技巧
 - 右切截(*)輸入comput*，可找到computer、computers、computerize、computerization。
 - 萬用字元(?)：使用問號可以代表一個字母，例如：輸入wom?n，可以找到woman或women的資料。
- 4 理論演算子(AND、OR、NOT)
若要在專家搜尋模式中搜尋兩個或兩個以上關鍵字可以做下列組合(以solar和radiation這兩個關鍵字為例)：
 - AND：輸入solar AND radiation，搜尋結果會出現同時含有這兩個關鍵字的文獻。
 - OR：輸入solar OR radiation，搜尋結果會出現含有solar的文獻以及含有radiation的文獻。
 - NOT：輸入solar NOT radiation，搜尋結果會出現含有solar但沒有radiation的文獻。

搜尋結果(Search Result Page)

- 1 檢索結果：顯示檢索結果資料筆數、資料庫、年代、搜尋關鍵字及欄位。
- 2 保存檢索結果：可以儲存檢索結果(save search)方便日後直接查看；建立新通報(create alert)以獲取最新研究資訊。
- 3 排序：可依照相關程度、日期、作者、文獻來源、出版者排序(預設為相關度)；在相同條件之下，再依降冪或升冪規則排序。
- 4 精確搜尋：可輸入其他關鍵字後，在結果中再搜尋；Limit to表示限制結果再有勾選的欄位，而Exclude則是排除有勾選的欄位；-以圖表方式顯示；-輸出資料；-打開/關閉限縮欄位詳細資訊；另可用拖曳的方式改變限縮欄位順序。
- 5 管理多篇檢索結果：可同時勾選多篇文獻，進行管理，如：Email、列印、下載書目資訊、選擇下載或輸出形式，包含路徑、檔案格式及輸出資訊。
- 6 Display [] results per page：可選擇每頁顯示幾筆資料。
- 7 文章資訊：查看該篇文章背景資料。
- 8 摘要預覽：可在同個畫面預覽該篇摘要。
- 9 全文連結：可至原文原下載路徑，全文取得仍與貴單位訂購範圍為主。
- 10 作者：點選該作者可連至該作者其他文獻。
- 11 Selected records：檢視勾選清單，並可選擇檢視模式：Citation format、Abstract format、Detailed format，以及管理檢索結果。

Quick search: All fields



for solar radiation



Suggested terms:

Solar Energy

Solar Cells

Photovoltaic Cells

Solar Power Generation

Mathematical Models

Turn off AutoSuggest | + Add search field | Reset form

Databases

Date

Language

Document type

Sort by

Browse indexes

Autostemming

Discipline

Treatment

74,577 records found in Compendex for 1884-2020: ((solar radiation) WN All fields)

1 of 2,984 pages

Create alert

Save search

RSS feed

Sort by: Relevance

Display: 25 results per page

Refine

Numeric filter

By category

Limit to Exclude

Add a term

Controlled vocabulary

- Solar Radiation (33,899)
- Solar Energy (12,383)
- Solar Cells (5,744)
- Photovoltaic Cells (4,829)
- Solar Power Generation (4,479)

Document type

- Journal article (45,640)
- Conference article (23,292)
- Dissertation (1,214)
- Book chapter (585)
- Conference proceeding (582)

Bar chart

Author

- Tiwari, G. N. (122)
- Solanki, S. K. (113)
- Zakhidov, R. A. (100)
- Kamat, Prashant V. (97)
- Garg, H. P. (92)

Author affiliation

- Jet Propulsion Laboratory, California Institute Of Technology (323)
- Nasa Goddard Space Flight Center (283)
- University Of Chinese Academy Of Sciences (273)
- Nasa Langley Research Center (228)
- National Renewable Energy Laboratory (198)

Classification code

Country

Language

Year

Source title

Publisher

Funding sponsor

Status

Limit to Exclude

New search with facets



- Evaluation of multi-reanalysis solar radiation products using global surface observations**
Peng, Xiaomin (School of Geography and Ocean Science, Jiangsu Provincial Key Laboratory of Geographic Information Science and Technology, Nanjing University, Nanjing; 210023, China); **She, Jiangfeng; Zhang, Shuhua; Tan, Junzhong; Li, Yang** Source: *Atmosphere*, v 10, n 2, January 22, 2019
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Full text
- Solar radiation forecasting using artificial neural network**
Praylin, E. (Electronics and Communication Engineering, V v College of Engineering, Tisaiyanvilai; Tamilnadu, India); **Jensona, J. Ida** Source: *2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017*, v 2017-January, p 1-7, January 2, 2018, *2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017*
Database: Compendex
Document type: Conference article (CA)
Detailed Show preview Cited by in Scopus (1) Full text
- Global solar radiation prediction methodology using artificial neural networks for photovoltaic power generation systems**
Kamadinata, Jane Oktavia (Takasago Thermal/Environmental Systems Laboratory, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia); **Ken, Tan Lit; Suwa, Tohru** Source: *SMARTGREENS 2017 - Proceedings of the 6th International Conference on Smart Cities and Green ICT Systems*, p 15-22, 2017, *SMARTGREENS 2017 - Proceedings of the 6th International Conference on Smart Cities and Green ICT Systems*
Database: Compendex
Document type: Conference article (CA)
Numerical data indexing: Time 6.00e+01s to 3.00e+02s
Detailed Hide preview
- Highly Physical Solar Radiation Pressure**
Robertson, Robert V. (Virginia Polytechnic Institute and State University) Source: *ProQuest Dissertations and Theses Global*, 2012
Database: Compendex
Document type: Dissertation (DS)
Detailed Show preview Full text
- Analysis of the thermal dome effect from global solar radiation observed with a modified pyranometer**
Zo, Ilsung (Research Institute for Radiation-Satellite, Gangneung-Wonju National University, Gangneung; 25457, Korea, Republic of); **Jee, Joonbum; Kim, Buyo; Lee, Kyutae** Source: *Current Optics and Photonics*, v 1, n 4, p 263-270, August 2017
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Full text
- Comparison of deterministic and data-driven models for solar radiation estimation in China**
Qin, Wenmin (School of Resource and Environmental Science, Wuhan University, Wuhan; Hubei Province; 430079, China); **Wang, Lunche; Lin, Aiwen; Zhang, Ming; Xia, Xiangao; Hu, Bo; Niu, Zigeng** Source: *Renewable and Sustainable Energy Reviews*, v 81, p 579-594, 2018
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (16) Full text
- Solar radiation pressure used for formation flying control around the sun-earth libration point**
Gong, Sheng-Ping (School of Aerospace, Tsinghua University, Beijing 100084, China); **Li, Jun-Feng; Baoyin, He-Xi** Source: *Applied Mathematics and Mechanics (English Edition)*, v 30, n 8, p 1009-1016, August 2009
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (7) Full text
- Effects of temperature and pressure information in a hybrid (fourier series / neural networks) solar radiation model**
Fidan, Mehmet (Department of Electrical and Electronics Engineering, Anadolu University, Eskis_ehir, Turkey); **Hocaog_lu, Fatih Onur; Gerek, O_ mer Nezhiz** Source: *2009 4th International Conference on Innovative Computing, Information and Control, ICIC 2009*, p 667-670, 2009, *2009 4th International Conference on Innovative Computing, Information and Control, ICIC 2009*
Database: Compendex
Document type: Conference article (CA)
Detailed Show preview Cited by in Scopus (1) Full text
- Models for calculating daily global solar radiation from air temperature in humid regions - A case study**
Li, Huashan (CAS Key Laboratory of Renewable Energy, Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou; 510640, China); **Cao, Fei; Bu, Xianbiao; Zhao, Liang** Source: *Environmental Progress and Sustainable Energy*, v 34, n 2, p 595-599, March 1, 2015
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (14) Full text

3. **Global solar radiation prediction methodology using artificial neural networks for photovoltaic power generation systems**
Kamadinata, Jane Oktavia (Takasago Thermal/Environmental Systems Laboratory, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia); **Ken, Tan Lit; Suwa, Tohru** Source: *SMARTGREENS 2017 - Proceedings of the 6th International Conference on Smart Cities and Green ICT Systems*, p 15-22, 2017, *SMARTGREENS 2017 - Proceedings of the 6th International Conference on Smart Cities and Green ICT Systems*
Database: Compendex
Document type: Conference article (CA)
Numerical data indexing: Time 6.00e+01s to 3.00e+02s
Detailed Hide preview

Solar radiation is an essential source of energy that has yet to be fully utilized. This energy can be converted into another form of more usable energy, electricity, by using photovoltaic power generation systems in order to fight against global warming. When the photovoltaic power generation systems are connected to an electrical grid, predicting near-future global solar radiation is important to stabilize the entire network. Two different simple methodologies... (4 more search terms)

單篇文獻畫面(Abstract/Detailed)

- ① 全文連結：視貴單位訂閱狀況提供全文。
- ② 管理單篇檢索結果：可對此篇文獻進行管理，如：分享檢索結果、Email、列印、下載、查看檢索紀錄。下載提供該頁資訊、書目資料、摘要及詳細資訊，更提供多種輸出格式，如Endnote、CSV、Excel、PDF…等。
- ③ 搜尋結果：分為摘要形式、詳細格式及該篇參考資料。
- ④ PlumX-Metrics：提供此文獻在網路上與讀者的互動與觸及觀察。當您需要評估此文獻時，這些指標可以幫助您確認該論文的影响範圍。
- ⑤ 相關文檔：系統自動演算出與您目前閱覽文獻相關性高的文獻。
- ⑥ 引用文章詳細資訊：列出此篇文獻的被引用次數，以及最新兩篇引用文獻的詳細書目資料；另外點選作者可連結至Scopus的作者小檔案。
- ⑦ 標籤(Tag)：可依照自己的習慣用字，給文章下一個標籤並可選擇隱私權(公開、私人或對同學校/機構使用者公開)。

附註：

Public：所有Engineering Village使用者都可看到此標籤。

Private：只有自己可以看到此標籤。

My Institution：只有來自同一所機構的使用者可以看到。

The screenshot shows the Engineering Village record page for a paper titled "Analysis of the thermal dome effect from global solar radiation observed with a modified pyranometer". The page is annotated with numbered callouts (1-7) pointing to various features:

- ①: Full text link
- ②: Action icons (share, print, etc.)
- ③: Abstract/Detailed view toggle
- ④: PlumX Metrics section
- ⑤: Related Documents sidebar
- ⑥: Tools in Scopus section
- ⑦: Add tag dropdown menu

The main content of the record includes:

Record 5 from Compendex for: ((solar radiation) WN All fields), 1884-2020

Search term color < 5 of 74,577 >

Back to results | Full text | [Action icons]

Abstract | Detailed | Compendex Refs

Analysis of the thermal dome effect from global solar radiation observed with a modified pyranometer

Zo, Ilsung¹; Jee, Joonbum²; Kim, Buyo^{1, 2}; Lee, Kyutae^{1, 2, 3}

Source: *Current Optics and Photonics*, v. 1, n. 4, p. 263-270, August 2017; ISSN: 25087266, E-ISSN: 25087274; DOI: 10.3807/COPP.2017.1.4.263; Publisher: Optical Society of Korea

Author affiliations: ¹ Research Institute for Radiation-Satellite, Gangneung-Wonju National University, Gangneung; 25457, Korea, Republic of
² Weather Information Service Engine, Hankyong University of Foreign Studies, Yongin; 17035, Korea, Republic of
³ Department of Atmospheric & Environmental Sciences, Gangneung-Wonju National University, Gangneung; 25457, Korea, Republic of

Abstract: Solar radiation data measured by pyranometers is of fundamental use in various fields. In the field of atmospheric optics, the measurement of solar energy must be precise, and the equipment needs to be maintained frequently. However, there seem to be many errors with the existing type of pyranometer, which is an element of the solar-energy observation apparatus. In particular, the error caused by the thermal dome effect occurs because of the thermal offset generated from a temperature difference between outer dome and inner casing. To resolve the thermal dome effect, intensive observation was conducted using the method and instrument designed by Ji and Tsay. The characteristics of the observed global solar radiation were analyzed by classifying the observation period into clear, cloudy, and rainy cases. For the clear-weather case, the temperature difference between the pyranometer's case and dome was highest, and the thermal dome effect was 0.88 MJ m⁻²day⁻¹. Meanwhile, the thermal dome effect in the cloudy case was 0.69 MJ m⁻²day⁻¹, because the reduced global solar radiation thus reduced the temperature difference between case and dome. In addition, the rainy case had the smallest temperature difference of 0.21 MJ m⁻²day⁻¹. The quantification of this thermal dome effect with respect to the daily accumulated global solar radiation gives calculated errors in the cloudy, rainy, and clear cases of 6.53%, 6.38%, and 5.41% respectively.
 © 2017 Current Optics and Photonics. (29 refs)

Main heading: Domes

Controlled terms: Errors - Solar energy - Solar radiation

Uncontrolled terms: Energy observation - Global solar radiation - Observation Period - Pyranometers - Solar radiation data - TDE (thermal dome effect) - Temperature differences - Thermal offset

Classification code: 408.2 Structural Members and Shapes - 657.1 Solar Energy and Phenomena

Funding Details:

| Number | Acronym | Sponsor |
|------------------------|---------|---------------------------------------|
| KMIPA 2014-21080 | - | - |
| NRF-2017R1D1A3B0304467 | - | Ministry of Education |
| - | NRF | National Research Foundation of Korea |

Funding text:
 This work was funded by the Korea Meteorological Administration Research and Development Program under Grant KMIPA 2014-21080.

Databases: Compendex

Related Documents:

- Artificial neural networks for predicting global solar radiation in Al Ain City - UAE
 Al-Shamisi, Maitha H.; Assi, Ali H.; ... (2013) *International Journal of Green Energy*
 Database: Compendex
- Simple method for correcting the solar radiation readings of a Robitzsch-type pyranometer
 Esteves, Alfredo; De Rosa, Carlos (1989) *Solar energy*
 Database: Compendex
- Evaluation on applicability of daily solar radiation model in Northwest China based on meteorological data
 Zhang, Qingwen; Gui, Ningbo; Fe... (2018) *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*
 Database: Compendex

Tools in Scopus:
 This article has been cited 0 times in Scopus since 1996.
Author details:
 Zo, I.
 Jee, J.
 Kim, B. [View All Authors](#)
[Learn more about Scopus](#)

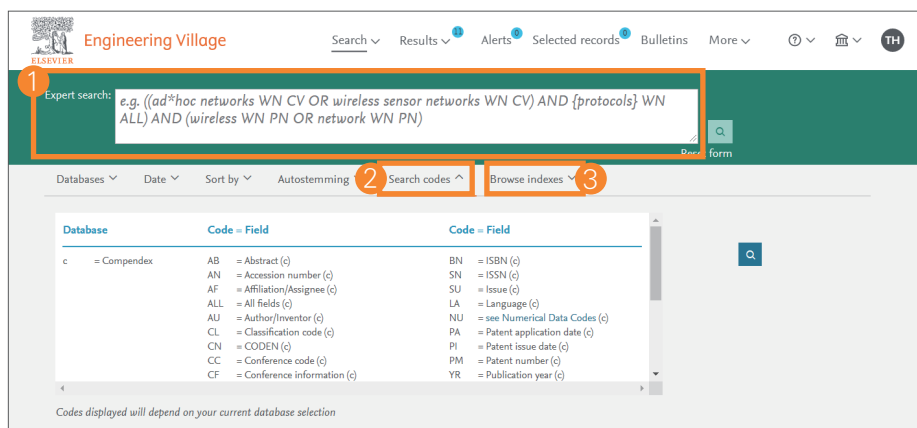
Add a tag:
 Public [dropdown]
 Add
My tags:
 No tags found

進階檢索

Engineering Village提供專家搜尋模式，讓習慣下搜尋指令的研究人員使用；另外還有索引點搜尋，讓使用者以控制詞彙做搜尋，以避免搜尋的文獻結果內容與使用者欲搜尋之主題無關！

專家搜尋(Expert Search)

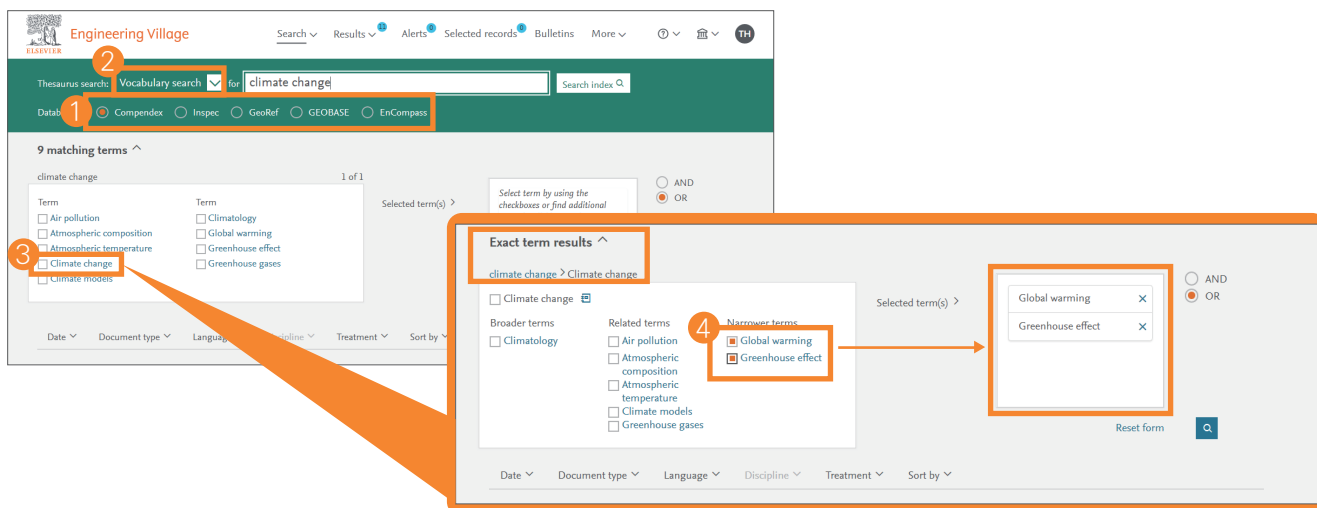
- 1 專家檢索：使用者在Search for欄位中，輸入檢索代碼已進行搜尋。
- 2 檢索代碼：這裡列出各種檢索欄位相對應的檢索代碼，以方便使用者使用。
- 3 索引：可利用索引功能瀏覽/查詢作者(Author)、作者服務機構(Author affiliation)、Ei控制詞彙(Controlled term)、文件類型(Document type)、語言(Language)、出版社(Publisher)和期刊名稱(Source title)等。



索引典搜尋(Thesaurus Search)

索引典搜尋：可利用索引典，自動衍生工程專用同義詞彙，可讓您避免搜尋到有該詞彙內容卻無關的文獻！

- 1 資料庫選擇：索引典搜尋可用於Inspec、Compendex、GeoRef、GEOBASE及EnCompass五種資料庫。
- 2 選擇搜尋方式：
 - Vocabulary search 字彙搜尋：查詢功能會顯示所有在意義上相似的控制詞彙。
 - Exact term 精確詞彙：會顯示您輸入詞彙的廣義詞、狹義詞或相關詞，也就是該詞彙的階層關係。附註：Broader Term 廣義詞、Related Term 相關詞、Narrower Term 狹義詞。
 - Browse 瀏覽：可瀏覽您輸入的詞彙在索引典中依字母順序排列的位置(上下詞彙在意義上不一定相關，僅是依照字母作排列)。
- 3 尋找相似控制詞彙：輸入一般關鍵字後，利用Vocabulary search功能可以找到意義上相似的控制詞彙，點選Climate change後即出現該詞彙的階層關係。
- 4 選擇控制詞彙：透過Climate change這個控制詞彙的階層關係圖，選擇在學科領域和其領域大小範圍都更適合您論文的控制詞彙；勾選多/單個有興趣的控制詞彙後，會出現在右方的 Selected term(s)，並進行搜尋。
- 5 搜尋結果一致：兩個控制詞彙所包含的文章數和搜尋結果是一致的。



The screenshot shows the Engineering Village search interface. At the top, it displays 'Exact term results' with '1,337 records' found in Compendex for the search criteria '(((Global warming) WN CV) AND ((Greenhouse effect) WN CV))'. The results are sorted by Relevance. On the left, a 'Refine' sidebar shows filters by physical property and category. Under 'By category', 'Global Warming' (1,337) and 'Greenhouse Effect' (1,337) are selected. The main results list includes articles such as 'Effects of the Crop Rotation on Greenhouse Gases from Flooded Paddy Fields' and 'How to Cope with Global Warming - Simple Analysis about Carbon Emissions Trading in China'.

作者/機構搜尋(Author /Affiliation Search)

Engineering Village從2018年開始提供作者及機構搜尋模式，能在Compendex資料庫中，快速找到文獻作者、機構及其研究領域，並瀏覽該作者或該機構著作之摘要資料。

This screenshot shows the search interface with a dropdown menu open. The search query is 'intelligence OR intelligent computing) AND {social me'. The dropdown menu includes options: Quick, Expert, Thesaurus, Author, Affiliation, and Engineering School Profile. The 'Author' and 'Affiliation' options are highlighted with orange boxes.

- 1 您可以選擇輸入作者姓氏或名字查找作者相關文獻。
- 2 您也可以輸入機構查找該機構文獻被收錄於Compendex作者們。
- 3 您亦可直接輸入該研究員之開放研究員和貢獻者ID查找作者。
- 4 查看文獻：點擊後可查看該作者被收錄在Compendex中的所有文獻資料。
- 5 請求更正作者資訊。
- 6 查看作者之機構名稱。

This screenshot shows the search results for 'National Taiwan University' affiliation. The search criteria include 'Author last name: e.g. Zhang', 'Author first name: e.g. Yu', and 'Affiliation name: National Taiwan University'. The results show '40,064 author results' in Compendex for Affiliation: "National Taiwan University". The results table lists authors such as Wang, Wuxi Tao, Liu, Yuanyuan, Bowers, John E., Yang, Ben Suk, Li, Junhua, and Kuo, Haochung. The table columns are Name, Subject area, Affiliation name, City, and Country. Orange boxes highlight the search input fields (1, 2, 3), the 'View records' button (4), the 'Request author detail corrections' link (5), and the 'Affiliation name' column (6).

| Name | Subject area | Affiliation name | City | Country |
|--|---|---|---------------|---------------|
| 1. Wang, Wuxi Tao Wang, Wei Tao Wang, W. T. WANG, Wei | Pharmacology, Toxicology and Pharmaceutical Engineering; Business, Management and Accounting; ... | Jiangsu Institute of Parasitic Diseases | Wuxi | China |
| 2. Liu, Yuanyuan Liu, Y. J. Liu, Y. Hsin Liu, Yang | Chemical Engineering; Computer Science; Mathematics; ... | Stanford University | Palo Alto | United States |
| 3. Bowers, John E. Bowers, J. E. Bowers, John E. Bowers, J. | Earth and Planetary Sciences; Social Sciences Physics and Astronomy; ... | University of California, Santa Barbara | Santa Barbara | United States |
| 4. Yang, Ben Suk Yang, B. YANG, Bo Yang, B. S. | Medicine; Social Sciences; Materials Science; ... | Xi'an Research Institute of High Technology | Xi'an | China |
| 5. Li, Junhua Li, Jun Li, Jun Hao Li, Jun Heng M.D. | Pharmacology, Toxicology and Pharmaceuticals; Immunology and Microbiology; Environmental Science; ... | Communication University of China | Beijing | China |
| 6. Kuo, Haochung Kuo, Hao C. | Social Sciences; Chemical Engineering; Engineering; ... | National Chiao Tung University Taiwan | Hsin-chu | Taiwan |

The screenshot shows the Engineering Village search interface. The search bar contains 'national taiwan university'. Below the search bar, there are 5 affiliation results. The first result, 'National Taiwan University', is highlighted with a red box and a circled '8', with a link to 'View 54,109 records'. The 'Refine' sidebar on the left is also highlighted with a red box and a circled '7'.

| Name | Documents | City | Country |
|---|---------------------|----------|---------|
| 1. National Taiwan University National Taiwan University | View 54,109 records | Taipei | Taiwan |
| 2. National Taiwan University of Science and Technology National Taiwan University Of Science And Technology | View 18,867 records | Taipei | Taiwan |
| 3. National Taiwan University Hospital National Taiwan University Hospital | View 1,675 records | Taipei | Taiwan |
| 4. National Taiwan University College of Medicine National Taiwan University | View 1,261 records | Taipei | Taiwan |
| 5. National Taiwan University of Arts National Taiwan University Of Arts | View 185 records | Banchiao | Taiwan |

- 輸入機構名稱。
- 查看所有文獻：可以輕鬆查看該機構所生產文獻資料。

個人化功能

Engineering Village提供一系列的個人化功能，讓讀者有更客製化的使用經驗。

The screenshot shows the user profile menu for Tina Huang (tina@sris.com.tw). The menu items are: 1. My preferences, 2. Personal details, 3. Change password, 4. Alerts & saved searches, and a Sign out button.

- My preference-包含資料庫使用介面設定、文件下載格式與儲存路徑設定、限縮子庫檢索設定、School Profile我的最愛設定。
- Personal details-修改個人帳戶資料。
- Change password-修改密碼。
- Alerts & saved searches-檢視/更新已儲存之新知通報或檢索策略。

Engineering School Profile (ESP)

Engineering Village 2018年Q4發表最新功能- Engineering School Profile (ESP)

透過視覺化、客製化且互動式的介面，分析並且追蹤機構在工程領域中的研究成果與研究趨勢

The screenshot shows the 'Selected records' page. A dropdown menu is open, highlighting 'Engineering School Profile'. The menu items are: Quick, Expert, Thesaurus, Author, Affiliation, and Engineering School Profile.

Engineering Village

Search Alerts Selected records Bulletins More

Engineering school profile

Massachusetts Institute of Technology

52,940 records in Compendex

Filter by: 2009 to 2020 AND Select subject Area

Email Print Download

2 Search & add
Search institution by name...

3 Favorites
Search institutions, then select + to create a favorites list.
Save your favorites by creating an account or signing in to your current Elsevier account.

4 Institutions & groups

Top authors

| Author | Total documents |
|----------------------|-----------------|
| Karner, Franz X. | 554 |
| Rui, Daniela | 285 |
| Médard, Muriel | 283 |
| Khademhosseini, Ali | 279 |
| Buehler, Markus J. | 261 |
| Langer, Robert | 260 |
| Baskar, Ramesh | 249 |
| Chen, Cang | 244 |
| Hew, Jonathan P. | 231 |
| Kimelting, Lionel C. | 230 |

Research focus

- Stochastic Systems
- Yarn
- Artificial Intelligence
- Efficiency
- Costs
- Robotics
- Computation Theory
- III-V Semiconductors

Funding sponsorship

- National Science Foundation
- Massachusetts Institute of T...
- U.S. Department of Energy
- National Institutes of Health
- Office of Naval Research
- National Natural Science Fo...
- Air Force Office of Scientific ...
- Defense Advanced Research...

Publishing trend

| Year | Total documents |
|------|-----------------|
| 2010 | 4,375 |
| 2011 | 4,691 |
| 2012 | 4,671 |
| 2013 | 5,167 |
| 2014 | 5,201 |
| 2015 | 5,353 |
| 2016 | 5,114 |
| 2017 | 4,954 |
| 2018 | 4,761 |
| 2019 | 729 |

Subject area

| Subject Area | Total documents |
|--------------------------|-----------------|
| Materials Science | 4,944 |
| Chemical Products Ce... | 4,482 |
| Mathematics | 4,354 |
| Nanotechnology | 4,091 |
| Chemical Reactions | 3,456 |
| Light/Optics | 3,355 |
| Atomic and Molecular ... | 3,214 |
| Probability Theory | 3,066 |
| Organic Compounds | 3,058 |
| Computer Software D... | 2,988 |

Source titles

- Physical Review Letters
- Lecture Notes In Computer ...
- Optics Infobase Conference ...
- Proceedings Of Spie - The I...
- Journal Of The American Ch...
- Applied Physics Letters
- Optics Express
- Nano Letters

- 篩選年份與主題領域。
- 查找機構。
- 檢索結果包含六個圖表：Top authors、Research focus、Funding sponsorship、Publishing trend、Subject area、Source titles。
- E-mail、列印及下載功能。

