

Engineering Village 資料庫教育訓練

Jamie Yen | 顏婕珉

碩睿資訊 2026

大 綱



- 一、資料庫背景
- 二、介面及檢索功能介紹
- 三、個人化帳號說明
- 四、資源補充



資料庫背景

Engineering Village 介紹與收錄內容

Engineering Village (簡稱EV)

由美國 Elsevier Engineering Information Inc. 所出版，為一平台名稱，內含多個子庫，提供工程領域資訊的文獻索摘資料庫。

EV 包含資料庫

Compendex

INSPEC

GEOBASE

GeoRef

NTIS

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US Patents

WO Patents

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Chimica

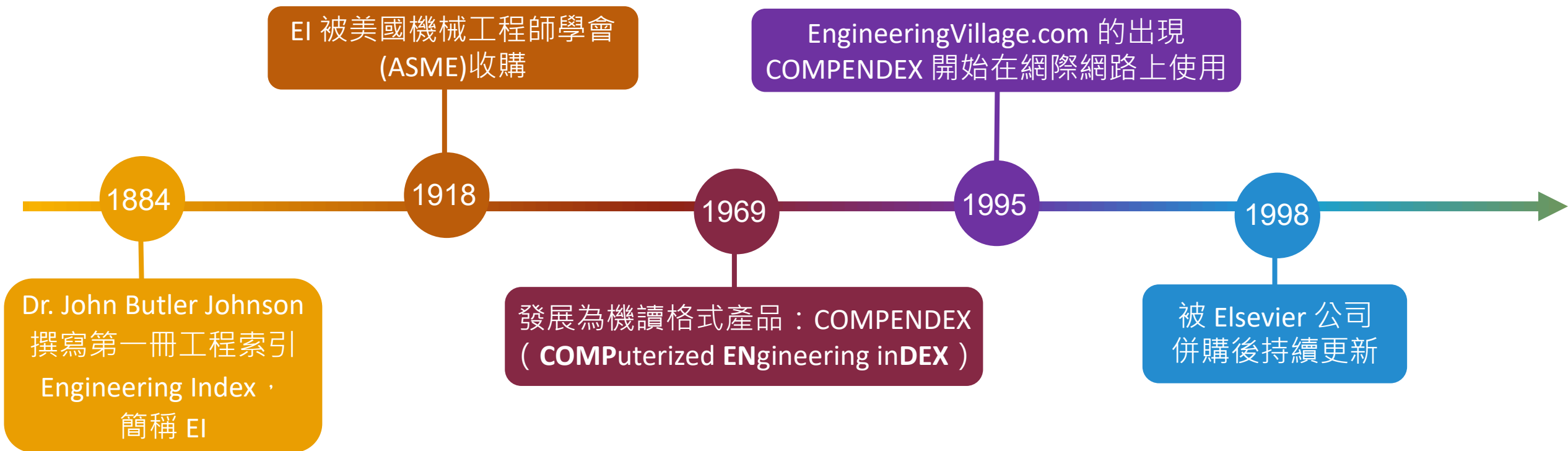
EnCompassLIT

EnCompassPAT

PaperChem

Knovel 電子書

COMPENDEX 時光走廊

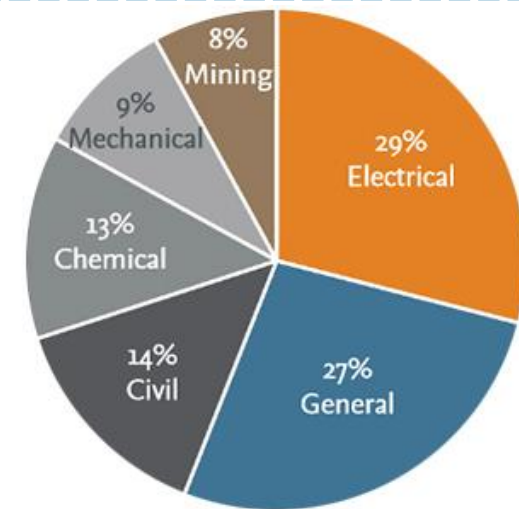


EI 為 COMPENDEX 前身

如需得知文獻是否被 EI 收錄，**在 EV 平台的 COMPENDEX 查詢即可！**

Compendex 介紹

- 收錄年代：1969 年至今
- 5,600 多種工程研討會、期刊、商業雜誌、會議記錄和技術報告資料
- 資料量：超過 2200 萬筆，每年新增約 65 萬筆資料
- 包含 190 種工程領域學科，如：**化學工程**、**土木工程**、**礦業**、**機械工程**、**電子工程**、環境、結構、材料科學、固態物理學、超導體、生物工程學、能源、光學、空氣和水污染、固態廢棄物處理、道路運輸、運輸安全、應用工程、品質管理、工程管理等
- 收錄超過 87 個國家的出版品
- 更新頻率：每週更新
- 回溯期刊：1884 年- 1968 年



Ei Compendex cross-disciplinary areas

EV 特色 — 收集文獻利器



限縮結果

提供**多種欄位**支援精確檢索，並可做成圖表，如：**控制詞彙**、**分類號**、**文件形式**、**刊名**等（共 13 種）。



個人化帳號

個人帳號可將檢索結果建利追蹤、儲存便於重複檢索，也可將文獻存至 **Folder 資料夾** 重複觀看。



專家思維

工程領域專家學者分類之控制詞 –
Thesaurus 索引典。



專家檢索模式

可自行輸入檢索語法。



介面及檢索功能介紹

主題？

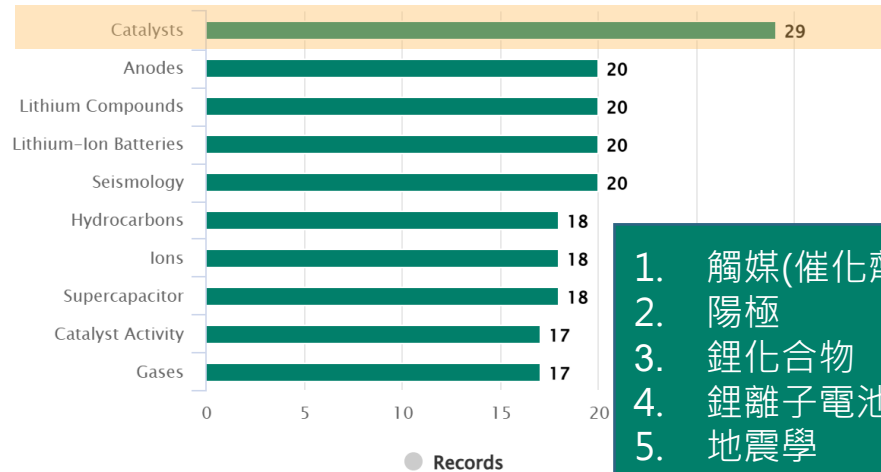
關鍵字？



台灣、中國、日本、韓國石油公司關鍵字比較

Search: (60103890 WN afid) 台灣中油股份有限公司

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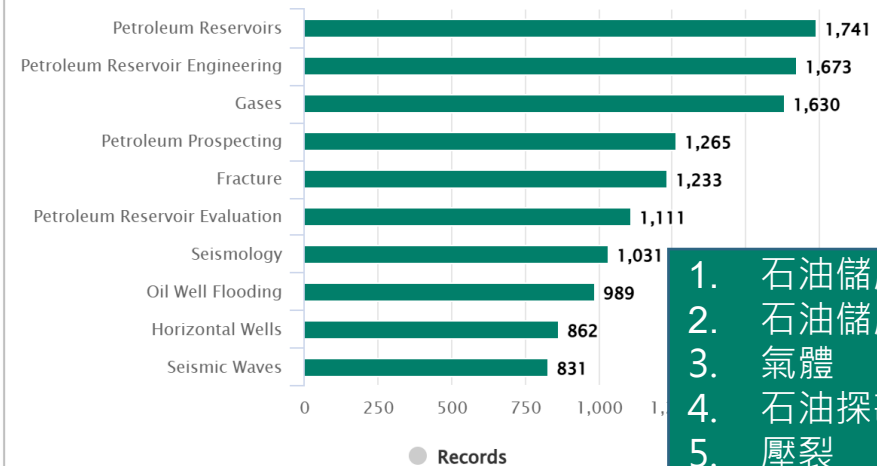


1. 觸媒(催化劑)
2. 陽極
3. 鋰化合物
4. 鋰離子電池
5. 地震學

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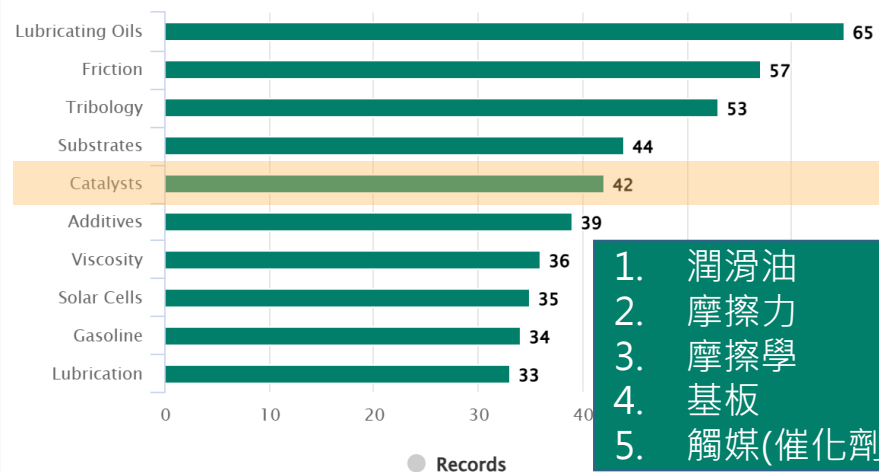


1. 石油儲層
2. 石油儲層工程
3. 氣體
4. 石油探勘
5. 壓裂

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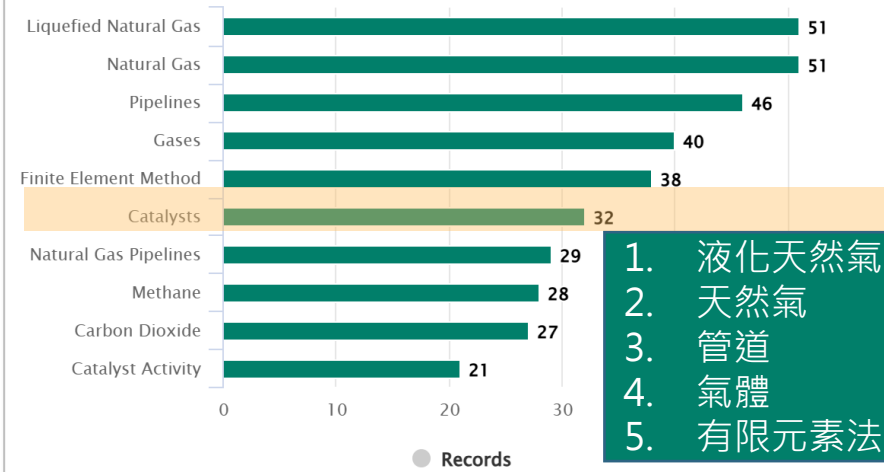
1. 潤滑油
2. 摩擦力
3. 摩擦學
4. 基板
5. 觸媒(催化劑)

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韓國石油公社 & 公司



1. 液化天然氣
2. 天然氣
3. 管道
4. 氣體
5. 有限元素法

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關鍵字：觸媒 Catalyst



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Knovel 訂戶專屬功能

查看互動方程式

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Folders

Interactive equations ↗

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↳ How can aviation become more sustainable and energy-efficient?

↳ Analyze the role of additive manufacturing in reducing waste in production processes.

↳ What are the latest advancements in transfer learning for natural language processing?

↳ What is the impact of nanomaterials on enhancing the mechanical properties of advanced composites?

Feedback

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石化工業對於永續發展應用文獻

石化工業對於永續發展
應用文獻

搜尋的關鍵字

Keyword query based on your search



("petrochemical" OR "petrochemicals" OR "oil" OR "gas") AND ("sustainable" OR "sustainability" OR "eco-friendly" OR "green") AND ("development" OR "growth" OR "progress" OR "advancement") AND ("environmental impact" OR "emissions" OR "pollution" OR "resource management") AND ("renewable energy" OR "alternative fuels")

石化工業對於永續發展的應用與挑戰

EV AI 找出與問題最相關的 20 篇論文並精華成一段重點摘要，協助掌握核心資訊。

以下是石化工業在永續發展方面的應用與挑戰的綜合分析，基於提供的文獻摘要：

石化工業的永續發展挑戰

- **高能源消耗與碳排放：**石化工業是高能耗和高碳排放的行業，對環境的影響顯著，特別是在資源枯竭和氣候變化方面 [1](#) [2](#) [3](#)。
- **環境與社會影響：**該行業對社會經濟發展有重要貢獻，但也對環境造成負面影響，包括污染和資源過度使用 [2](#) [4](#)。

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- 最佳可行技術（BAT）：

- 石化企業需要採用符合最佳可行技術的工藝和設備，以提高環境可持續性

10

內容引述文獻

未來發展方向

- 低碳經濟轉型：石化工業應選擇低碳發展路徑，並通過技術升級和創新來減少碳足跡

3 9 ◦

- 原創性技術與國際合作：推動科學技術的原創性創新，並吸收先進技術以促進經濟與環境的協調發展 9 ◦

結論

石化工業在永續發展中面臨多重挑戰，但通過採用永續性指標、技術創新和低碳經濟策略，可以有效減少其對環境的負面影響，同時促進經濟增長 1 2 3 5 6 9 ◦

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回覆內容參考文獻



Go deeper

↳ 石化工業在永續發展中的角色與挑戰

↳ 石化工業如何實現資源循環利用

延伸問題建議

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分析、建模和優化控制方面 [7](#) [8](#)。

◦ 綠色化學技術和低碳經濟路徑的採用是實現永續發展的關鍵

- 最佳可行技術（BAT）：

◦ 石化企業需要採用符合最佳可行技術的工藝和設備，以提高環

未來發展方向

- 低碳經濟轉型：石化工業應選擇低碳發展路徑，並通過技術升級

[3](#) [9](#)。

- 原創性技術與國際合作：推動科學技術的原創性創新，並吸收先
境的協調發展 [9](#)。

結論

石化工業在永續發展中面臨多重挑戰，但通過採用永續性指標、技
略，可以有效減少其對環境的負面影響，同時促進經濟增長 [1](#) [2](#)

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Ask a follow-up question

You have access to this early version of Engineering Village AI. The quality of

Reference

[10](#)

Environmental and Economic Balance in the
Refurbishment of the Sewage Treatment Plant

Vurdova, N.G.

Lecture Notes in Civil Engineering, 2024

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Abstract [v](#)

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Comprised of journals, conference proceedings, dissertations, standards, books, and recently preprints, Compendex content is sourced from thousands of publishers from around the world, including major engineering societies such as IEEE, ASME, SAE and ACM.

Inspec

☑

The Inspec database, created by The Institution of Engineering and Technology (IET), contains over 22 million records from across global publishers to deliver quality content to a wide range of research communities.

NTIS

☑

The National Technical Information Service (NTIS) database is the US Federal Government's Clearinghouse for scientific, technical information (STEI) produced by or for Federal agencies, as such is the premier source of unclassified reports from the United States and international government agencies.

PaperChem

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PaperChem is a database of abstracted and indexed literature created specifically for research in the pulp and paper industries and academic departments, covering

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Browse Index : 可利用索引功能瀏覽 / 查詢作者、作者服務機構、EV 控制詞彙、期刊名稱和出版社。

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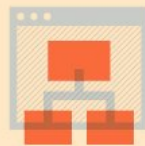
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關鍵字

A wide-angle photograph of a large concrete dam situated in a lush, mountainous landscape. The dam is a long, low structure with a spillway on the right side. In the foreground, a calm reservoir reflects the sky and the surrounding greenery. The background features steep, forested mountains with patches of white clouds or mist clinging to their slopes. The overall scene is serene and majestic.

水庫 / Reservoir

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Reservoir



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Recommended terms: Algae

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Recommended terms: Water bacteriology

Reservoirs--Inlets

Recommended terms: Reservoir inlets

Reservoirs--Lining

Recommended terms: Reservoir linings

Reservoirs--Recreational facilities

Recommended terms: Recreational facilities

Reservoirs--Rock mechanics

Preprint



1. ☐

Drinking water

Zhang, Jianming; Zhou, Yongqiang; Zhang, Yibo; Qin, Boqiang; Song, Chunqiao; Shi, Kun; Zhu, Guangwei; Hou, Xuejiao; Zhang, Yinjun; He, Shiwen; Woolway, R. Iestyn; Li, Na Source: Science Bulletin, 2024

Article in Press

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2. ☐ Spread of antibiotic resistance genes in drinking water reservoirs: Insights from a deep metagenomic study using a curated database (Open Access)

Wang, Sai (Shanghai Yangtze River Delta Eco-Environmental Change and Management Observation and Research Station, Shanghai Cooperative Innovation Center for Modern Seed Industry, School of Agriculture and Biology, Shanghai Jiao Tong University, Shanghai, 200240, China); Nie, Wenhan; Gu, Qing; Wang, Xie; Yang, Danping; Li, Hongyu; Wang, Peihong; Liao, Weixue; Huang, Jin; Yuan, Quan; Zhou, Shengli; Ahmad, Iftikhar; Kotaro, Kiga; Chen, Gongyou; Zhu, Bo Source: Water Research, v 256, June 1, 2024

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Aharipour, Hassan (Magma Energy Group Oil and Gas Consultant, Tehran, Iran); Azad, Amir; Hesani, Mahsa; Shoghi, Jaber; Hoseini, Maryam; Dahaghin, M.H.; Pourjahani, Sajad Source: Springer Series in Geomechanics and Geoengineering, p 1192-1203, 2024, Proceedings of the International Field Exploration and Development Conference 2023 - Volume 5

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2. ☐ Bacterioplankton community as a biological element for reservoir

Pinto, Ivo (Departamento de Biologia da Faculdade de Ciências da Universidade de Lisboa, Portugal); Lago, Olga M.; Antunes, Sara C. Source: Water (Switzerland), v 13, n 20, October-2021

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- Surface Power Density

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設定屬性範圍。

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3. ☐ Effects of the 2021 La Palma volcanic eruption on groundwater hydrogeology, surface reservoirs, water-rock interaction and influence of thermal energy on the evolution of the system (Journal of Volcanology and Geothermal Research, 2024, 458, 109999, 10.1016/j.jvolgeores.2024.109999)
Jiménez, Jon (Geological and Mining Institute of Spain (IGME), Spanish National Research Council (CSIC), Madrid, Spain; Samanta, Marazuela, Miguel Ángel; Baquedano, Carlos; Laspidou, Chrysi; Santamaría, María (Geological and Mining Institute of Spain (IGME), Spanish National Research Council (CSIC), Madrid, Spain)
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Pinto, Ivo (Departamento de Biologia da Faculdade de Ciências da Universidade do Porto (FCUP), Rua do Campo Alegre s/n, Porto; 4169-007, Portugal); Calisto, Rita; Serra, Cláudia R.; Lage, Olga M.; Antunes, Sara C. Source: Water (Switzerland), v 13, n 20, October-2 2021 Database: Compendex Document type: Journal article (JA) Show preview Full text

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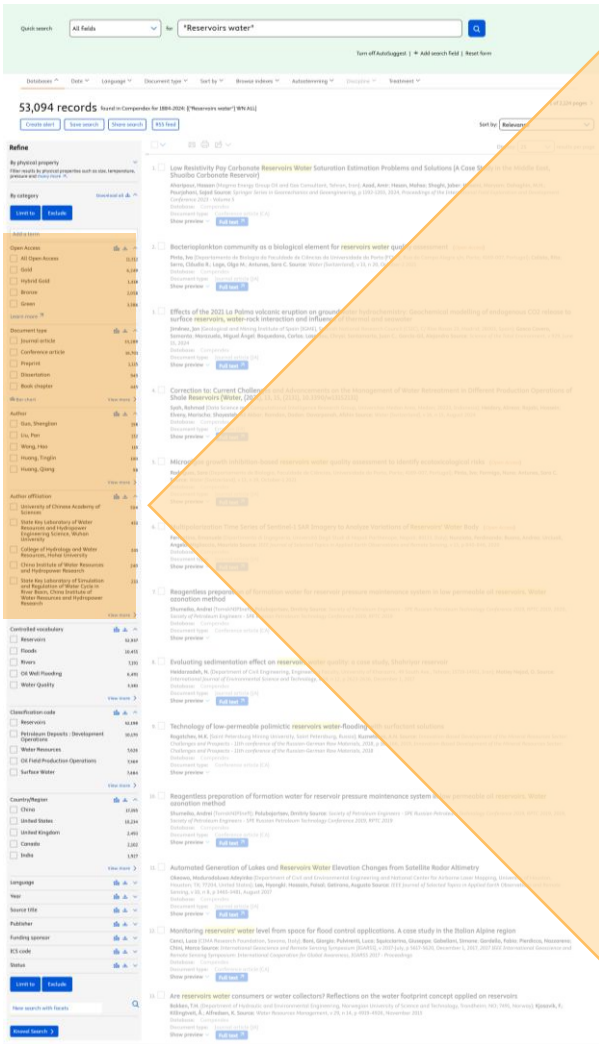
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作者

Author affiliation

☐ University of Chinese Academy of Sciences	504
☐ State Key Laboratory of Water Resources and Hydropower Engineering Science, Wuhan University	453
☐ College of Hydrology and Water Resources, Hohai University	241
☐ China Institute of Water Resources and Hydropower Research	240
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Controlled vocabulary

☐	Reservoirs	52,937
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☐	Rivers	7,191
☐	Oil Well Flooding	6,491
☐	Water Quality	5,581

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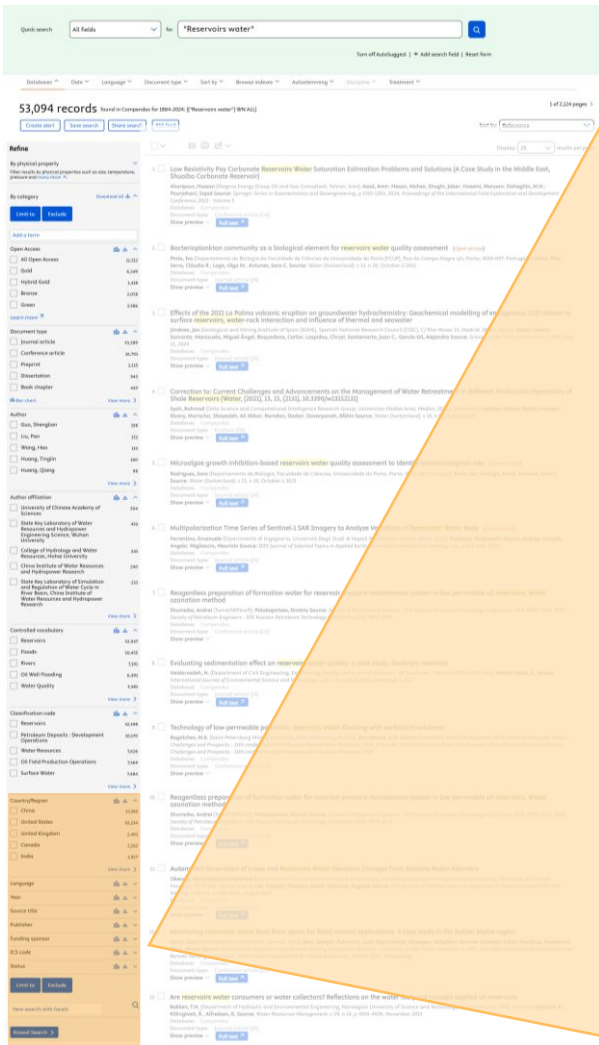
☐	Reservoirs	52,198
☐	Petroleum Deposits : Development Operations	10,170
☐	Water Resources	7,626
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☐	Surface Water	7,484

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☐ Chang, Fi-John

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☐ Mohanty, Kishore K.

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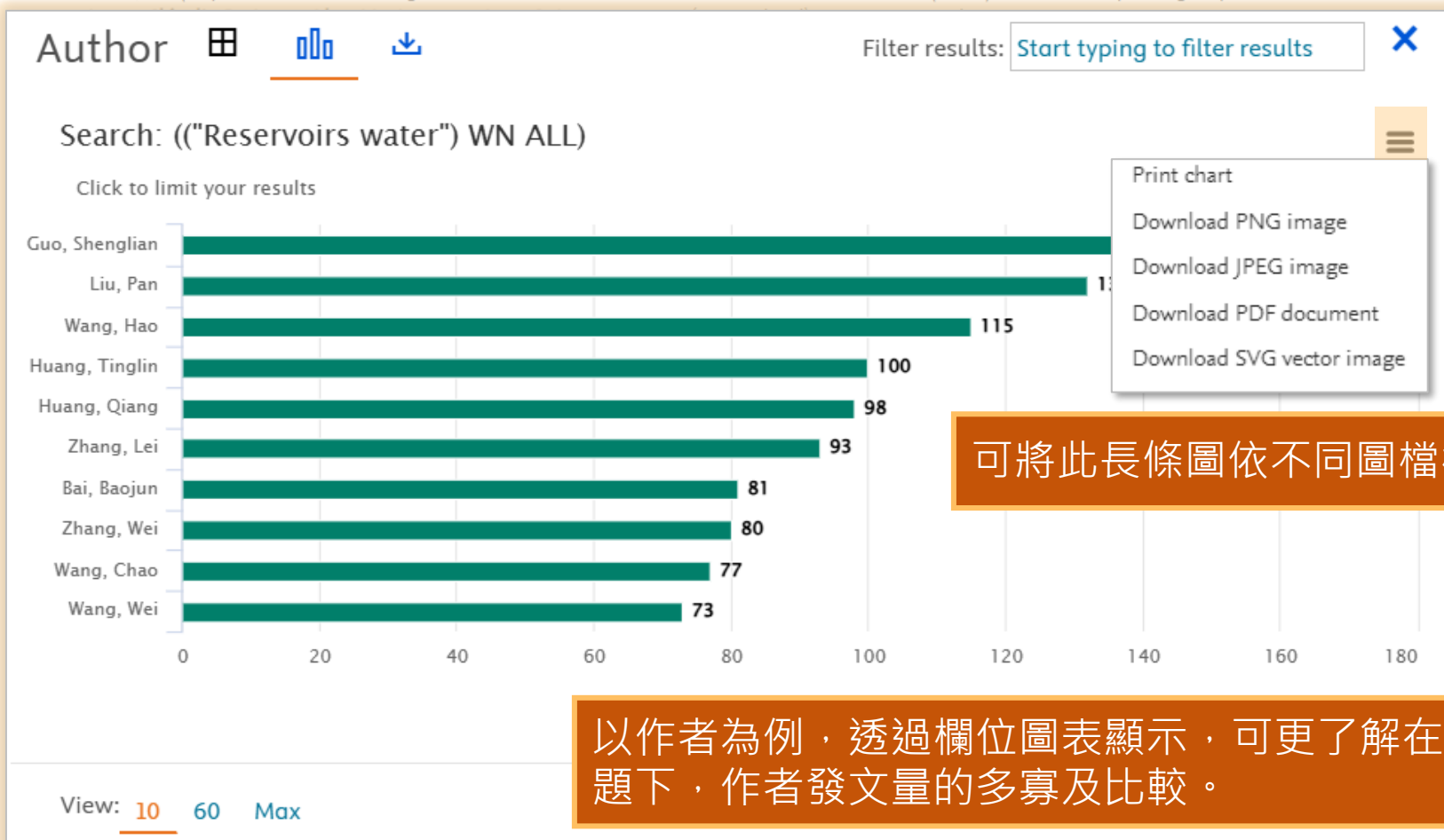
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以作者為例，透過欄位圖表顯示，可更了解在該主題下，作者發文量的多寡及比較。

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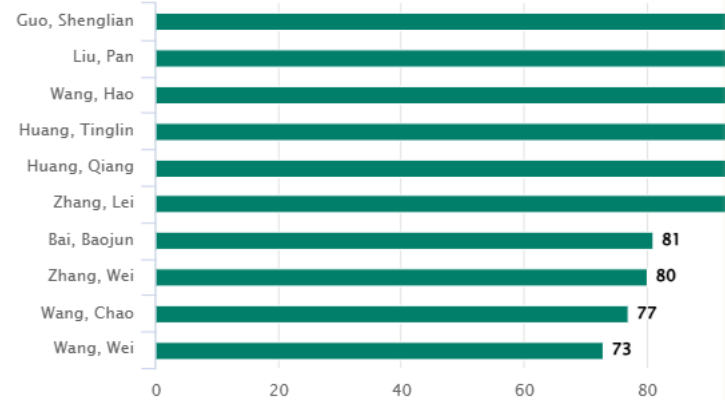
Reservoirs' Water Body (Open Access)

Parthenope, Napoli; 80133, Italy); Nunziata, Ferdinando; Buono, Andrea; Urciuoli,

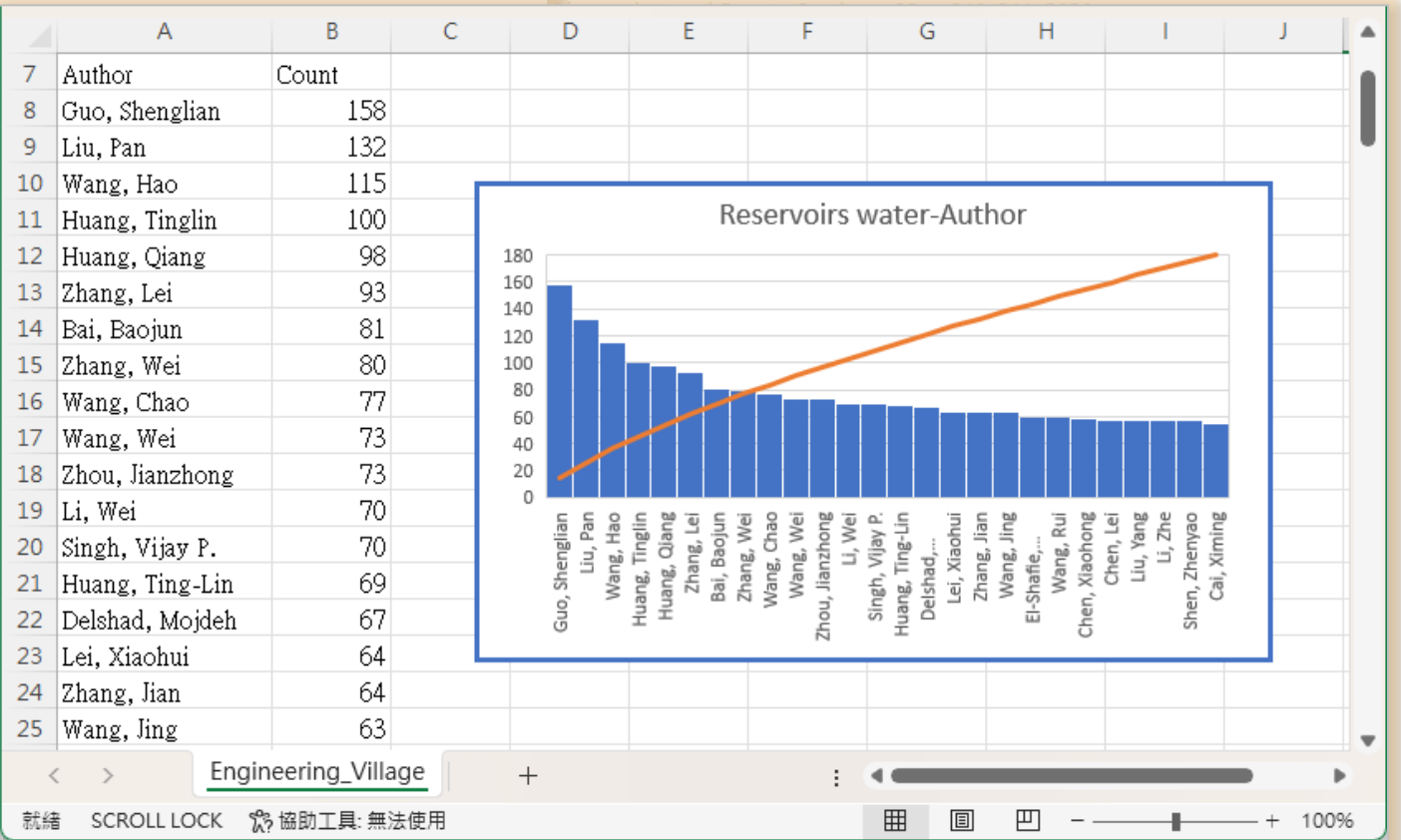
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6. ☐ Technology of low-pe

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全部顯示

曾文水庫象鼻管工程

全球首創象鼻鋼管 曾文水庫防淤隧道近完工



防淤隧道的啟用，有助於曾文水庫的「延壽」。(記者吳俊鋒攝)

[記者吳俊鋒 / 台南報導] 經濟部水利署斥資逾40億元，在國內最大的曾文水庫打造防淤隧道，有全球首創的「象鼻鋼管」及出水口罕見的「山體消能」等設計，儘管施作上較為困難，但目前進度已近98.5%，即將完工、落成。

曾文水庫已經「43歲」，在卡玫基、莫拉克等大型颱風豪雨的衝擊下淤積嚴重，預計隧道啟用後，可帶來每年排砂量104萬立方米的效益，若以抽泥船的清理成本來換算，每年可省下近7億元的支出。

南區水資源局副局長簡振源表示，目前曾文水庫的有效蓄水量，僅剩原設計規模的6成3，嚴重「折壽」，陸挖、抽泥，緩不濟急，防淤隧道有其迫切性。

防淤隧道是從左側大壩上游處引水進入，沿著緊鄰的山體，直接導入下方的曾文溪，對於延長水庫壽命，助益不小。

簡振源指出，防淤隧道於102年3月份開工，設計長度超過1.2公里，由於曾文水庫的水位高低差達60米，在進水口的建造、貫通上，難以採取較為常見的圍堰或岩塞爆破等設計，因此邀集專家學者集思廣益，研究出世界首創的象鼻鋼管工法。

至於出水口，在消能池的設計上，採中間柱的方式，區分南、北兩側，並於山體內開鑿大洞，透過3個跌水工，減緩從隧道內傾洩而下的流速，降低河川護岸的衝擊。

曾文水庫防淤隧道將成為國內第1件啟用的水庫防淤隧道，已接近完工，由於設計上較為特殊，水利署辦理台美水資源技術30週年系列活動時，也專程帶領美國墾務局專家南下參觀，一行人對於這項建設都讚賞不已。

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Aharipour, Hassan (Magma Energy Group Oil and Gas Consultant, Tehran, Iran); Azad, Amir; Hesani, Mahsa; Shoghi, Jaber; Hoseini, Maryam; Dahaghin, M.H.; Pourjahani, Sajad Source: *Springer Series in Geomechanics and Geoengineering*, p 1192-1203, 2024, *Proceedings of the International Field Exploration and Development Conference 2023 - Volume 5*
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Jiménez, Jon (Geological and Mining Institute of Spain (IGME), Spanish National Research Council (CSIC), C/ Ríos Rosas 23, Madrid; 28003, Spain); Gasco Cervero, Samanta; Marazuela, Miguel Ángel; Baquedano, Carlos; Laspidou, Chrysi; Santamarta, Juan C.; García-Gil, Alejandro Source: *Science of the Total Environment*, v 929, June 15, 2024
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☐ Reservoir Management 5

☐ Watersheds 5

☐ Flood Control 4

☐ Water Conservation 4

☐ Water Management 4

☐ Decision Making 3

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☐ Genetic Algorithms 3

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☐ Rain 2

☐ Risk Assessment 2

☐ Rivers 2

☐ Runoff 2

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1. ☐ **Discharging Compacted Sediment by Underwater Blasting in Conjunction with a Desilting Tunnel in the Tseng-Wen Reservoir of Taiwan**
Yu, Teng-To (Dept. of Resources Engineering, National Cheng Kung Univ., 1 University Rd., Tainan; 701, Taiwan); Peng, W.F.; Cheng, Y.S.; Wu, P.Y. Source: *Journal of Performance Engineering*, v 17, n 1, p 1-10, 2004, 10 refs.
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2. ☐ **The development of a fuzzy inference system for the prediction of the water level in the Tseng-Wen Reservoir**
Chen, Yu-Lin; Chen, You-Wei. Source: *Journal of Performance Engineering*, v 17, n 1, p 11-18, 2004, 10 refs.
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3. ☐ **Real-time monitoring of the water level in the Tseng-Wen Reservoir**
Huang, C.-C.; Chen, Y.-L.; Chen, Y.-W. Source: *Journal of Performance Engineering*, v 17, n 1, p 19-26, 2004, 10 refs.
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4. ☐ **Three-dimensional simulation of the flow in the Tseng-Wen Reservoir**
Wu, Jian-Ping; Chang, Liang-Cheng; Ho, Chih-Chao; Lin, Jeng-Shyan. Source: *Journal of Performance Engineering*, v 17, n 1, p 27-34, 2004, 10 refs.
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☐ Journal article

Controlled vocabulary

☐ Reservoirs

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1. ☐ Three-dimensional in situ stress evaluation using a new under-coring technique: The Tseng-Wen Reservoir

Wu, Jian-Hong (Department of Civil Engineering, National Cheng Kung University, Tainan, Taiwan); Pan, Yu-Wei Source: *Environmental & Earth Engineering*, v 1, n 1, p 1-12, January 2013

Database: Compendex

Document type: Journal article (JA)

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2. ☐ Late Holocene episodic Transbasin Diversion P

Hsieh, Meng-Long (Department of Civil Engineering, National Cheng Kung University, Tainan, Taiwan); Hsieh, Meng-Long Source: *Journal of Hydrology*, v 159, p 83-97, June 12, 2013

Database: Compendex

Document type: Journal article (JA)

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3. ☐ Experimental validation of core-based pre-stress evaluations in rock: A case study of Changchikeng sandstone in the Tseng-wen reservoir transbasin water tunnel

Wu, Jian-Hong (Department Civil Engng, National Cheng Kung University, No. 1, University Road, 701, Tainan, Taiwan); Jan, Shu-Chi Source: *Bulletin of Engineering Geology and the Environment*, v 69, n 4, p 549-559, 2010

Database: Compendex

Document type: Journal article (JA)

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- ☐ **Three-dimensional in situ stress evaluation using a new under-coring technique: The Tseng-Wen Reservoir Transbasin water tunnel**
Wu, Jian-Hong (Department of Civil Engineering, National Cheng Kung University, Tainan, Taiwan); **Pan, Yu-Wei** Source: *Environmental Earth Sciences*, v 68, n 1, p 77-86, January 2013
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Hsieh, Meng-Long (Department of Earth and Environmental Sciences, National Chung Cheng University, Chiayi, Taiwan); **Capart, Hervé** Source: *Engineering Geology*, v 159, p 83-97, June 12, 2013
Database: Compendex
Document type: Journal article (JA)
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- ☐ **Experimental validation of core-based pre-stress evaluations in rock: A case study of Changchikeng sandstone in the Tseng-wen reservoir transbasin water tunnel**
Wu, Jian-Hong (Department Civil Engng, National Cheng Kung University, No. 1, University Road, 701, Tainan, Taiwan); **Jan, Shu-Chi** Source: *Bulletin of Engineering Geology and the Environment*, v 69, n 4, p 549-559, 2010
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Compendex • Journal article (JA)

Three-dimensional in situ stress evaluation using a new under-coring technique: The Tseng-Wen Reservoir Transbasin water tunnel

Environmental Earth Sciences, Volume 68, Issue 1, Pages 77-86, January 2013

[Wu, Jian-Hong](#)^[1] ✉ ; [Pan, Yu-Wei](#)^[1]

Corresponding author: [Wu, J.-H.](#) ✉

Author affiliation:

[1] Department of Civil Engineering, National Cheng Kung University, Tainan, Taiwan

Accession number

20130215888108

Publisher

Springer Verlag

ISSN

1866-6280

E-ISSN

18666299

DOI

10.1007/s12665-012-1717-9

Abstract

The Tseng-Wen Reservoir Transbasin water tunnel has broken the historic overburden of a tunnel within Taiwan. The three-dimensional in situ stress evaluated using acoustic emission (AE) and deformation rate analysis (DRA) technique. This is the first time that the AE and DRA have been used in evaluation in Taiwan. As cores drilled in different directions are required for the three-dimensional stress evaluation, but the in situ borehole drilling is usually limited to the vertical direction. In this study, three 2.28 cm in diameter and 4.56 cm in length were under-cored from the borehole in different directions to evaluate the in situ stresses. Cyclic uniaxial compressive load

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文獻全記錄：索引

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Indexing

Main heading:

Stresses

Main heading：本文主要討論主題。

Controlled terms:

Acoustic emission testing

Tunnels

Deformation

Reservoirs

Controlled term：EV編輯指定的控制索引詞彙分類。

Uncontrolled terms:

Borehole drilling

Deformation rate analysis

Historical records

Three-dimensional stress

Under-coring

Uniaxial compressive loading

Vertical direction

Water tunnel

Uncontrolled term：本文中的關鍵字集合。

Classification codes:

401.2 Tunnels and Tunneling

441.2 Reservoirs

751.2 Acoustic Properties of Materials

Classification codes：當含義可能因用法而異時，利用不同主題分類將其歸類重組，並利用數字分類代碼區分。

Numerical data indexing:

Pressure 3.08e+07Pa to 3.90e+07Pa, Size 2.28e-02m, Size 4.16e+02m to 7.39e+02m, Size 4.5e+02m

Numerical data indexing：該文獻中所含物理條件及區間。

He, Xuhu; Zhou, Anqi; Chen, Bing

(2023) *Frontiers of Structural and Civil Engineering*

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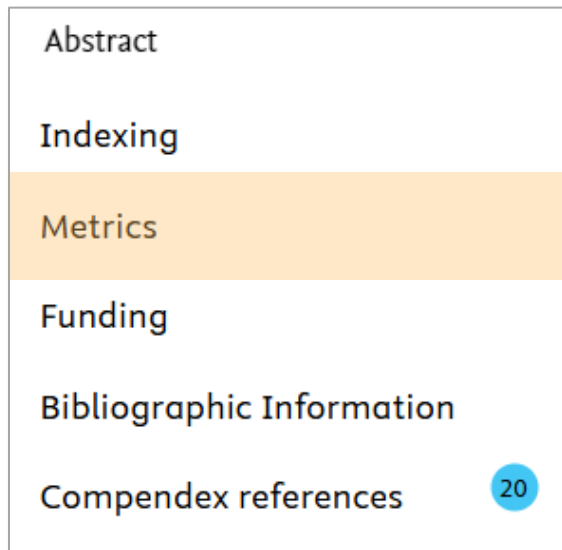
Model to study tunnels in

squeezing clay-rich rocks

, Marte;

(2021) *Geotechnical Testing Journal*

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Acknowledgments The authors would like to thank the financial support from the National Science Council of Taiwan (NSC95-2221-E-006-111-MY3) and the technical support from PAC and MTS. In addition, special thanks are given to the officers in the Southern Region Water Resources Office, WRA, MOEA, Taiwan and the engineers in United Geotech., Inc., Taiwan for their help to get the core. Appreciation is also given to the reviewers for their valuable suggestions.

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Abbreviated source title: Environ. Earth Sci.

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Journals

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Lin, Jianqing; Dong, Yuli; Duan, Jintao;

Zhang, Dashan; Zheng, Wei

(2021) *Tunnelling and Underground Space Technology*

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Deformation control criterion of shield tunnel under lateral relaxation of soft soil

Wang, Shimin; Peng, Xiaoyu; Zhou, Hang; He, Xuhu;

Zhou, Anqi; Chen, Bing

(2023) *Frontiers of Structural and Civil Engineering*

Database: Compendex

New physical model to study tunnels in squeezing clay-rich rocks

Arora, Ketan; Gutierrez, Marte; Hedayat, Ahmadreza

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Deformation control criterion of shield tunnel under lateral relaxation of soft soil

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New physical model to study tunnels in squeezing clay-rich rocks

Arora, Ketan (Department of Civil and Environmental Engineering, Colorado School of Mines, 1500 Illinois St., Golden;



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e.g. ((ad*hoc networks WN CV) AND {protocols} WN ALL) AND (wireless WN PN OR network)

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Database

Code = Field

Code = Field

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n = NTIS
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ACT = Open Access type (c)
AN = Accession number (c,i,n,pc,g,f,k)
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ALL = All fields (c,i,n,pc,cm,cb,g,f,u,e,w,k)
ANN = Annotation (f)
AI = Astronomical indexing (i)
AU = Author/Inventor (c,i,n,pc,g,f,u,e,w,k)
FIRSTAU = First author (c,i,pc,g,f)

LA = Language (c,i,n,pc,cm,cb,g,f,k)
MS = Map Scale (f)
MP = Map Type (f)
MI = Material identity number (i)
AG = Monitoring agency (n)
NT = Notes (n)
NU = see Numerical Data Codes (c,i)
NI = Numerical indexing (i)
OC = Original classification code (i)

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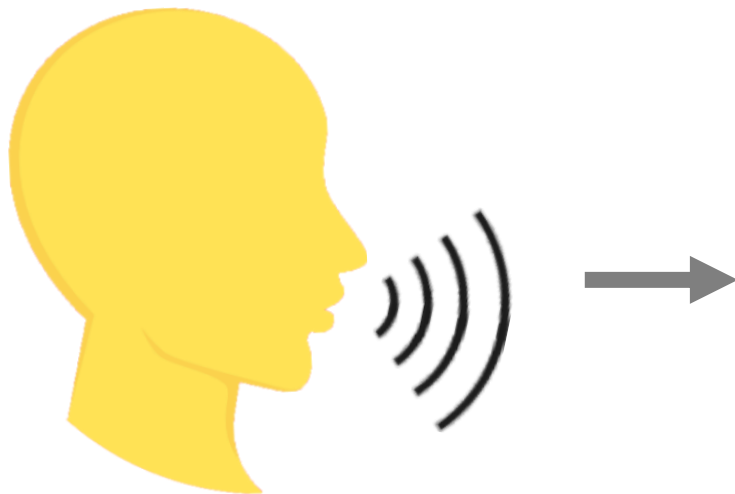


檢索代碼



Thesaurus search | 索引典檢索

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THESAURUS 索引典



將自然語言分類重組為 **廣義詞**、**狹義詞**、**相關詞**

對同一概念採用固定的詞彙表達，以達到控制詞彙目的，
清楚呈現整個主題概念的結構，進而 **提高檢索的精確度**。

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廣義詞

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氣候

Related Term
相關詞

Climate Change
氣候變遷

Air pollution
空氣汙染

Narrow Term
狹義詞

Greenhouse
effect
溫室效應

Global warming
全球暖化

Air quality
空氣品質

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Database: ☒ Vocabulary search ☐ Exact term ☐ Browse

perChem ☐ GEOBASE ☐ GeoRef

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You can now search a year range and specify a date range, especially useful when saving a search at current year.

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Vocabulary Search

顯示所有相似意義的控制詞彙

Exact Term

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Browse

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Thesaurus search:

Vocabulary search ▾

for

Reservoirs (water)



Database:



Compendex



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GEOBASE



GeoRef

19 matching terms ^

Reservoirs (water)

1 of 2 >

Term

- ☐ Reservoirs (water)
- ☐ Algae
- ☐ Catchments
- ☐ Dams
- ☐ Hydraulic structures

Term

- ☐ Lakes
- ☐ Potable water
- ☐ Recreational facilities
- ☐ Reservoir inlets
- ☐ Reservoir linings

Selected term(s) >

Select term by using the checkboxes or find additional terms by clicking on the term...



AND



OR

利用 Vocabulary 檢索關鍵字，可查索引典字典有關連的關鍵詞。

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Term

☐ Reservoir management

☐ Reservoirs

Reservoirs (petroleum)

☐ Reservoirs (water)

☐ Reservoirs--Algae

Term

☐ Reservoirs--Bacteriology

☐ Reservoirs--Inlets

☐ Reservoirs--Lining

☐ Reservoirs--Recreational facilities

☐ Reservoirs--Rock mechanics

Selected term(s) >

Select term by using the checkboxes or find additional terms by clicking on the term...



AND



OR

利用 Browse 檢索索引典，可查看文字符合索引典字典的關鍵詞

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Thesaurus 索引典檢索 — Exact Term



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Thesaurus search:

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GeoRef

Exact term results ^

Reservoirs (water)

☐ Reservoirs (water)

For: Reservoirs; Water reservoirs

Broader terms

☐ Hydraulic structures

Related terms

☐ Algae

☐ Catchments

☐ Dams

Narrower terms

☐ Reservoir inlets

☐ Reservoir linings

☐ Underground reservoirs

點擊即可延伸查看該詞彙的廣義、關聯、狹義詞

☐ Recreational facilities

☐ Rock mechanics

☐ Seepage

☐ Thermal stratification

☐ Water bacteriology

☐ Water supply

☐ Weed control

Selected term(s) >

Select term by using the checkboxes or find additional terms by clicking on the term...



AND



OR

Reset form



利用 **Exact term** 檢索關鍵字，可查索引典字典有廣義、狹義、關聯的關鍵詞

Thesaurus 索引典檢索 — Exact Term



Engineering Village

Search

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Alerts 0

Selected records 0

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?

Library

JH

Thesaurus search:

Exact term

for

Reservoirs (water)



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GeoRef

Exact term results ^

Reservoirs (water) > Dams

☐ Dams

Broader terms

☐ Hydraulic structures

Related terms

- ☐ Flexible structures
- ☐ Flood control
- ☐ Hydroelectric power plants
- ☐ Ice control
- ☐ Reservoirs (water)
- ☐ River basin projects
- ☐ Seepage
- ☐ Spillways
- ☐ Uplift pressure
- ☐ Water supply

Narrower terms

- ☒ Arch dams
- ☐ Buttress dams
- ☐ Concrete dams
- ☐ Embankment dams
- ☐ Fishways
- ☒ Gravity dams
- ☐ Movable dams
- ☐ Weirs

由此可查看當前關鍵詞或點擊返回之前的關鍵詞。

Selected term(s) >

Gravity dams

Arch dams

☐ AND
☒ OR

可勾選多個詞彙後，利用布林邏輯組合後點擊放大鏡圖示搜尋，若點擊關鍵詞後面的x可以取消搜尋。

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1,363

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1.

☐

Water Dams: From Ancient to Present Times and into the Future † *(Open Access)*

Angelakis, Andreas N. (School of History and Culture, Hubei University, Wuhan; 430061, China); Baba, Alper; Valipour, Mohammad; Dietrich, Jörg; Fallah-Mehdipour, Elahe; Krasilnikoff, Jens; Bilgic, Esra; Passchier, Cees; Tzanakakis, Vasileios A.; Kumar, Rohitashw; Min, Zhang; Dercas, Nicholas; Ahmed, Abdelkader T. Source: *Water (Switzerland)*, v 16, n 13, July 2024

Database: Compendex

Document type: Journal article (JA)

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2.

☐

Nonlinear Seismic Analysis of Concrete Dams Using ABAQUS-Based Scaled Boundary Finite Element Method

Liu, Yunlong (Hubei Key Laboratory of Disaster Prevention and Mitigation, China Three Gorges University, Yichang, China); Chen, Denghong; Pan, Ziyue; Hu, Haowen; Liu, Yunhui Source: *Journal of Earthquake Engineering*, 2024

Article in Press

Database: Compendex

Document type: Article in Press

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3.

☐

A Robust Operational Modal Analysis Method and Its Application to a Concrete Arch-Gravity Dam

Li, Jianming (College of Mechanics and Engineering Science, Hohai University, Jiangsu, Nanjing; 211100, China); Cao, Maosen; Bao, Tengfei; Li, Tianyu Source: *Lecture Notes in Civil Engineering*, v 514 LNCE, p 271-280, 2024, *Proceedings of the 10th International Operational Modal Analysis Conference, IOMAC 2024 - Volume 1*

Database: Compendex

Document type: Conference article (CA)

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☐ Journal article

159

☐ Conference article

7



1. ☐ Unlocking synergies of drawdown operation: Multi-objective optimization of reservoir emergency storage capacity

Li, Shufei (State Key Laboratory of Water Resources Engineering and Management, Wuhan University, Wuhan; 430072, China); Zhu, Di; Lin, Fanqi; Xia, Jun; Zhou, Yanlai; Chang, Fi-John; Xu, Chong-Yu Source: *Journal of Environmental Management*, v 368, September 2024

Database: Compendex

Document type: Journal article (JA)

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2. ☐ Deep dive into predictive excellence: Transformer's impact on groundwater level prediction

Sun, Wei (Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei; 10617, Taiwan); Chang, Li-Chiu; Chang, Fi-John Source: *Journal of Hydrology*, v 636, June 2024

Database: Compendex

Document type: Journal article (JA)

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3. ☐ Advancing climate-resilient flood mitigation: Utilizing transformer-LSTM for water level forecasting at pumping stations

Kow, Pu-Yun (Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei; 10617, Taiwan); Liou, Jia-Yi; Yang, Ming-Ting; Lee, Meng-Hsin; Chang, Li-Chiu; Chang, Fi-John Source: *Science of the Total Environment*, v 927, June 1, 2024

Database: Compendex

Document type: Journal article (JA)

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| ☐ | 2. National Taiwan University of Science and Technology
National Taiwan University Of Science And Technology | 26,812 | Taipei | Taiwan |
| ☐ | 3. National Taiwan University of Science and Technol
National Taiwan University Of Science And Technology | | | |
| ☐ | 4. College of Engineering, National Taiwan University
Department Of Civil Engineering | | | |
| ☐ | 5. National Taiwan University Hospital
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1. ☐ **A compact honeycomb-based ventilated sound barrier with broad bandwidth and a subwavelength thickness**

Yang, Chieh-Cheng (Department of Mechanical Engineering, National Taiwan University, Taipei; 10617, Taiwan); **Lin, Ding-Kai; Xiao, Xi-Wen; Chiang, Che-Hsien; Lin, Yu-Hsuan; Chou, Li-Chih; Chen, Jung-San; Liu, Chien-Hao** **Source:** *Applied Acoustics*, v 226, December 5, 2024

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2. ☐ **Theoretical and biological investigations of newly synthesized Co(II)-salphen complexes derived from salphen ligands**

Rani, J. Jeevitha (Post Graduate and Research Center of Chemistry, Jayaraj Annapackiam College for Women(Autonomous), Affiliated to Mother Teresa Women's University, Theni, Tamil Nadu, Kodaikanal, Periyakulam; 625601, India); **Jayaseeli, A. Mary Imelda; Rajagopal, S.; Seenithurai, S.; Chai, Jeng-Da; Nandini Asha, R.; Jeyakumar, Thayalaraj Christopher** **Source:** *Journal of Molecular Structure*, v 1317, December 5, 2024

Database: Compendex

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3. ☐ **Surface acoustic wave actuated plasmonic signal amplification in a plasmonic waveguide** *(Open Access)*

Gupta, Rohit (Graduate Institute of Photonics and Optoelectronics, National Taiwan University, Taipei; 10617, Taiwan); **Barman, Kuntal; Lee, Liang-Yun; Chauhan, Anuj; Huang, Jian-Jang** **Source:** *Discover Nano*, v 19, n 1, December 2024

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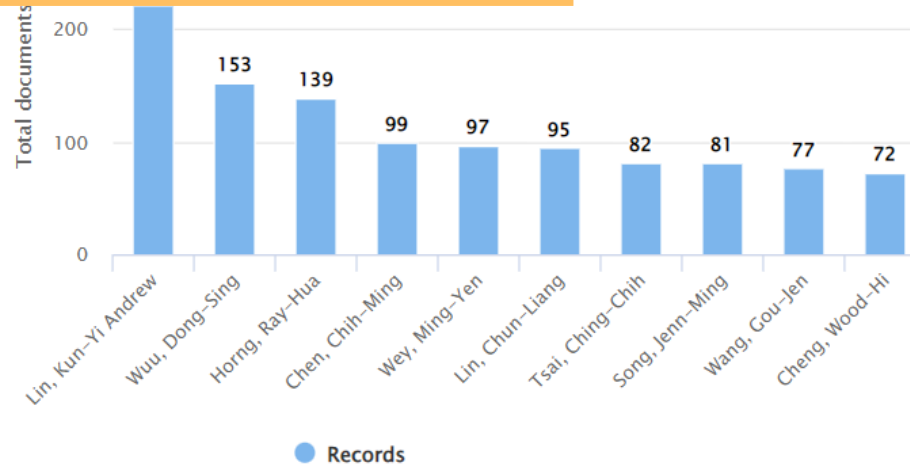
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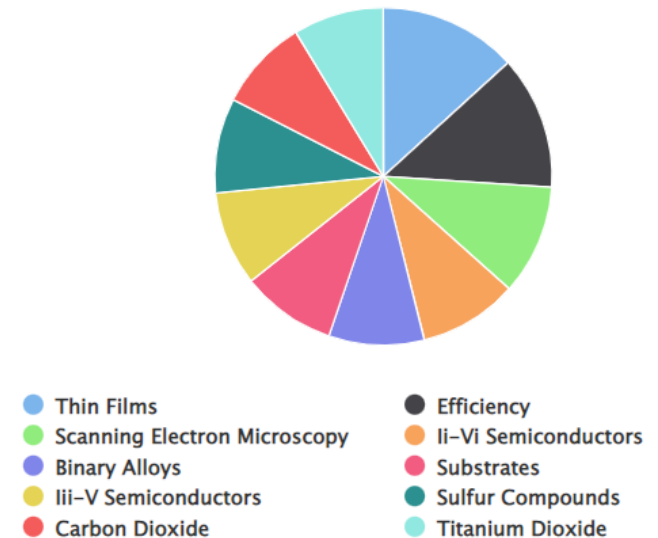
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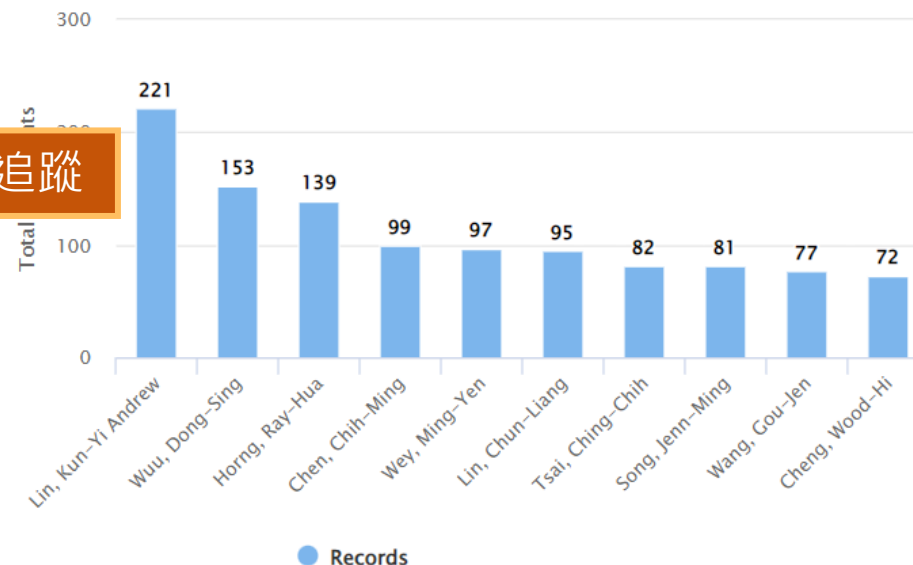
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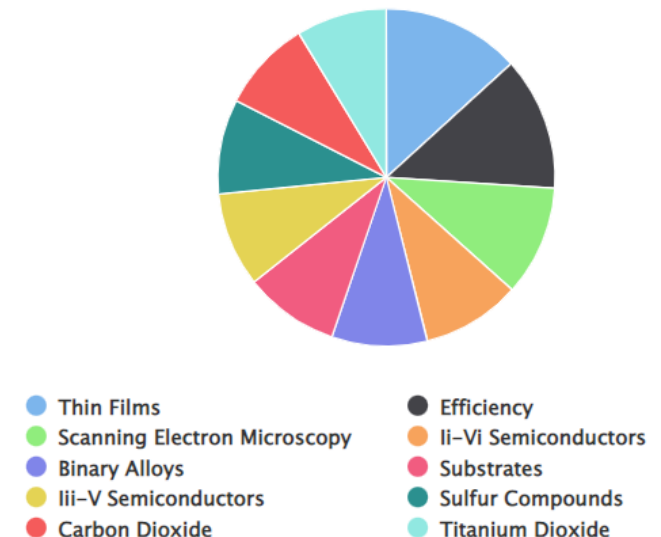
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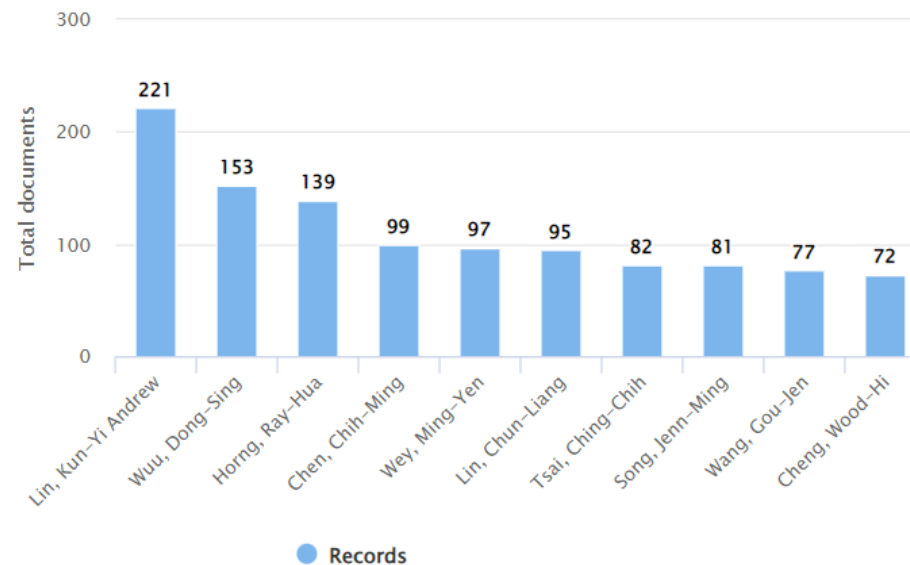
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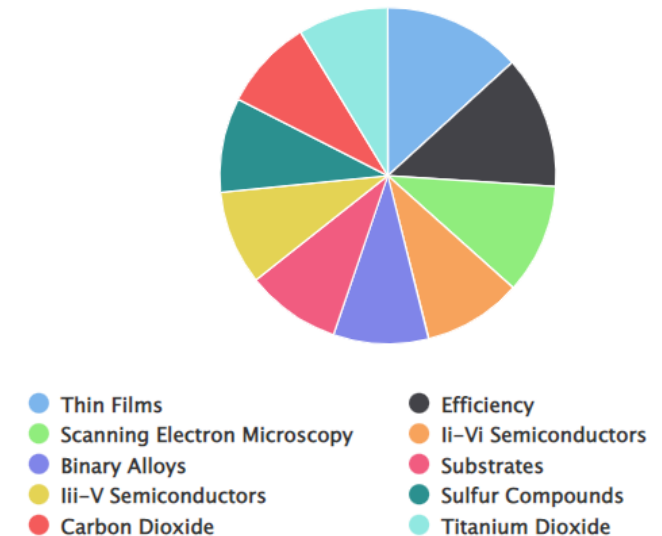
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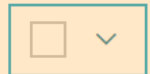
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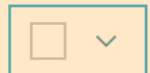
Type: Quick

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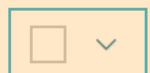


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Reservoir water



Suggested terms: ⓘ

Reservoirs (Water)

Petroleum Reservoirs

Petroleum Reservoir Engineering

Oil Well Flooding

Floods

Turn off AutoSuggest | + Add search field | Reset form

Databases ▴

Date ▾

Language ▾

Document type ▾

Sort by ▾

Browse indexes ▾

Autostemming ▾

Discipline ▾

Treatment ▾

109,147 records for Reservoir water

Create alert

Save search

Share search

BSS Good

Sort by: Relevance



1 of 4,366 pages >

個人化帳號好處

- 儲存個人檢索策略、建立 E-mail Alert 追蹤文獻更新進度。

- 建立個人資料夾，儲存文獻。

- 每個帳號可建立 10 個資料夾。

- 每個資料夾可儲存 100 筆記錄。

25 results per page

Refine

By physical property ▾

Filter results by physical properties such as size, temperature, pressure and many more ↗.

By category

Download all ⬇

Limit to

Exclude

Add a term

Open Access

📄 ⬇ ▾

☐ All Open Access

(15,001)

☐ Gold

(6,052)

☐ Hybrid Gold

(1,327)

註冊 & 登入個人化帳號

Engineering Village



Registration form for Engineering Village. The form includes the Elsevier logo, the title "註冊" (Registration), and the subtitle "建立密碼以註冊" (Create password to register). It contains input fields for "電子郵件地址" (Email address), "名字" (First name), "姓氏" (Last name), and "密碼" (Password). A note specifies password requirements: at least 8 characters, including 1 digit, 1 uppercase letter, 1 lowercase letter, and 1 symbol. There is a checkbox for "保持登入狀態" (Keep me logged in) and a link to the "條款及條件和隱私政策" (Terms and conditions and privacy policy). The form ends with a "註冊" (Register) button.



Login form for Engineering Village. It features the Elsevier logo, the title "歡迎" (Welcome), and the instruction "請輸入您的電子郵件地址，以繼續使用 Engineering Village" (Please enter your email address to continue using Engineering Village). There is an input field for "電子郵件地址" (Email address) and a "繼續" (Continue) button. A link for "透過您的機構登入" (Log in through your institution) is also present.

依照表單填入電子郵件、名字、
姓氏、密碼（需注意設置條件）
即可註冊。

儲存檢索歷史



Engineering Village

Search ▾

Search history ▾²¹

Alerts⁰

Selected records⁰

Bulletins

More ▾



TH

Search history on Engineering Village

Searches for registered users are saved automatically for 7 days from their last sign in day.

Note: A maximum of 50 searches are kept at any time.

Save search history ☒ On

Save your search history in Engineering Village so that you can easily rerun your searches and check for new results.

At Elsevier, we recognize the importance of protecting your personal information, please visit our [Privacy](#)

21 searches

Combine searches

Search query

#21



114,511 results

Details ▾

#20



25 results in

WN ALL)))

Details ▾

#19



25 results in

WN ALL))

Details ▾

Save search



Search terms: ((((\$Reservoir) WN ALL) AND (1884-2023 WN YR)) and ((\$artificial \$intelligence) WN ALL) AND (1884-2023 WN YR))

Enter search name *

Enter a search name with a max of 500 characters.

Save search

Cancel

儲存該筆檢索歷史(需要註冊個人帳號)

e.g. (#1 AND #2) NOT #3



Alert

Save search

Search actions

Saved on



10 Feb 2023
1:48 PM



9 Feb 2023
9:45 AM



9 Feb 2023
9:43 AM

Alerts & Saved Searches



Engineering Village

Search ▾ Search history ▾²³ Alerts⁰ Selected records⁰ Bulletins More ▾ ? ▾ ▾

Alerts and Saved searches

Alerts and saved searches can be created from a Search results list and the Search history page.

Note: A maximum of 260 Alerts and Saved searches can be set at once. Alerts are sent weekly.

Name	Search query	Active ⁱ	Recent pub	Frequency
曾文水庫	((("Zengwen Reservoir") WN ALL) OR ("tsengwen reservoir") WN ALL)) OR ("tseng wen") WN KY)) More details ▾	☐		
SDGs 7	((("Alternative Energy Sources ") OR (" Battery Electric Vehicles ") OR (" Battery Energy Storage System ") OR (" Battery Energy Storage Systems ") OR (" Biofuel ") OR (" Blade Element Mom ... More details ▾	☐		
offshore wind power	((("offshore wind power") WN ALL) More details ▾	☐		

TH

My preferences

Personal details

Alerts & saved searches

Privacy center ↗

Sign out

可查看已儲存之檢索策略並追蹤管理，
最多可以設置 260 條 E-mail 追蹤提醒。

Alerts & Saved Searches



Engineering Village

Search ▾

Search history ▾ ²³

Alerts ⁰

Selected records ⁰

Bulletins

More ▾



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Alerts and Saved searches

Alerts and saved searches can be created from a Search results list and the Search history page.

Note: A maximum of 260 Alerts and Saved searches can be set at once. Alerts are sent weekly.

[Help about Alerts and Saved searches ?](#)

Name	Search query	Active ⁱ	Recent pub	Frequency	Actions
曾文水	Enable alert	☐			
Alerts will be sent weekly on Fridays. You can enable an alert at any point.					
SDGs 7	Search terms: (((("Zengwen Reservoir") WN All fields) OR (("tsengwen reservoir") WN All fields)) OR (("tseng wen") WN KY))	☐			
	Saved search name: 曾文水庫				
	Enable alert				
	Cancel				
offshore wind power	((("offshore wind power") WN ALL)	☐			
	More details ▾				

Alerts & Saved Searches



Engineering Village

Search ▾

Search history ▾ ²³

Alerts ¹

Selected records ⁰

Bulletins

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Alerts and Saved searches

Alerts and saved searches can be created from a Search results list and the Search history page.

Note: A maximum of 260 Alerts and Saved searches can be set at once. Alerts are sent weekly.

[Help about Alerts and Saved searches](#) ?

Name	Search query	Frequency	Actions
曾文水庫	(((("Zengwen Reservoir") WN All fields) OR ("tsengwen reservoir") WN All fields)) OR ("tseng wen") WN KY)) More details ▾	Weekly	  
SDGs 7	(((" Alternative Energy Sources ") OR (" Battery Electric Vehicles ") OR (" Battery Energy Storage System ") OR (" Biofuel ") OR (" Biomass ") More details ▾		
offshore wind power	((("offshore wind power") WN All fields) OR ("offshore wind power") WN KY)) More details ▾		

Edit alert

Search terms: (((("Zengwen Reservoir") WN All fields) OR ("tsengwen reservoir") WN All fields)) OR ("tseng wen") WN KY))

[Enter alert name](#)

曾文水庫

Enter an alert name with a max of 500 characters.

Limit to: ☐ Recent publications only

Frequency: ☒ Weekly ☐ Every 4 weeks

Save alert

Cancel

追蹤提醒設定



Feedback

儲存至個人資料夾

[Back to results](#)

[Full text](#)



Share



Export



Print



Cite



Folder

此功能需有個人化帳號

Abstract

Indexing

Metrics

Funding

Supplementary Information

Compendex references 20

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Compendex • Journal article (JA)

Three-dimensional in situ stress evaluation using a new under-coring technique: The Tseng-Wen Reservoir Transbasin water

Accession number

20130215888108

Publisher

Save to folder

With your personal account, you can create up to ten folders in which you can save the selected records. Each folder can contain up to 100 records. Choose an existing folder or create a new folder.

Add to my existing folder:

Reservoir (1 records)

儲存至現有資料夾

Save

Create a new folder:

e.g. Nanotechnology folder

儲存至新建資料夾

Create

The Tseng-Wen Reservoir Transbasin water tunnel has broken the historical record of the maximum overburden of a tunnel within Taiwan. The three-dimensional in situ stresses at the tunnel were evaluated using acoustic emission (AE) and deformation rate analysis (DRA) with an under-coring technique. This is the first time that the AE and DRA have been used in evaluating an in situ stress in Taiwan. As cores drilled in different directions are required for the three-dimensional stress evaluation, but the in situ borehole drilling is usually limited to the vertical direction, small samples

Journals

Deformation and failure mechanism of particulate filled and short fiber reinforced

Folders



Engineering Village

Search ▾ Search history ▾²³ Alerts¹ Selected records⁰ Bulletins More ▴



Folders

[Return to Previous Page](#)

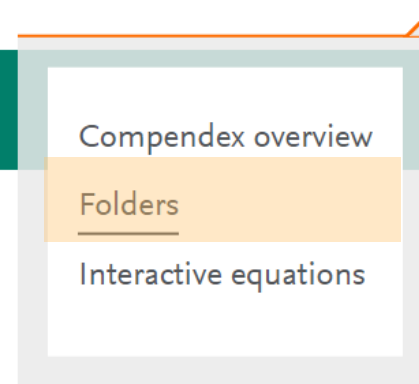
With your personal account, you can create up to ten folders in which to save selected records. Each folder can contain up to 100 records.

Name	View	Delete
renewable energy	1 records	
Reservoir	1 records	
S_Artificial Intelligence_190924	2 records	
feitsui	1 records	

可查看資料夾中有幾筆資料，點入即可查看資料夾內所有文獻。

To create a folder, please enter a folder name:

在 Folders 中可以查看自己建立的資料夾分類及已儲存文獻。
同一個帳號可建立 10 個資料夾，一個資料夾中最多可存放 100 筆資料。



資料夾內頁面



Engineering Village

Search ▾

Search history ▾ ²³

Alerts ¹

Selected records ⁰

Bulletins

More ▾

? ▾

Library ▾

TH

Folder Name : Reservoir

1 record in this folder

[View Folders](#)

ALL ☒

Citation format



1. ☒

Environmental impact of Hsuehshan Tunnel on water quality at Feitsui Reservoir and its tributaries

Wang, Tai-Tien (Department of Civil Engineering, National Taiwan University, Taipei, Taiwan); **Jeng, Fu-Shu**; **Lee, Tzu-Tung**

Source: *Environmental Monitoring and Assessment*, v 192, n 11, November 1, 2020

Database: Compendex

[Full text ↗](#)



補充資源

線上詢問



Engineering Village

Search ▾

Search history ▾ ²³

Alerts ¹

Selected records ⁰

Bulletins

More ▾

?

TH

Quick search: All fields ▾



for *e.g. (artificial intelligence OR intelligent computing) AND {social*

Turn on AutoSuggest | + Add s

Databases ^

Date ▾

Language ▾

Document type ▾

Sort by ▾

Browse indexes ▾

Autostemming ▾

- | | | | | | | |
|---------------------------------------|---|----------------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| ☐ All | ☒ Compendex | ☐ Inspec | ☐ NTIS | ☐ PaperChem | ☐ Chimica | ☐ CBNB |
| ☐ EnCompassLIT | ☐ EnCompassPAT | ☐ GEOBASE | ☐ GeoRef | ☐ US Patents | ☐ EP Patents | |
| ☐ WO Patents | ☐ Knovel | | | | | |

Did you know?

You can now search a year range and specify any start or end year. This new feature will be especially useful when saving a search alert to return results for any end year, not just the current year.

On **Quick search**: select the "Date" search option and then select "Latest" for the end year.

Try Quick search

On **Expert search**: use an asterisk in the "YR" field to indicate an open range.
Example: "artificial intelligence AND (2000-* WN YR)"

Try Expert search

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碩睿資訊（SRIS）深耕數位內容產業逾30年，服務台、港、澳等地數百家學術、醫學、政府及企業客戶。我們致力於引進全球各領域頂尖的學術、教育與科學研究高品質資源，協助客戶整合與建置知識資源平台。同時，碩睿資訊亦協助客戶整合數位學習軟硬體環境，與出版教育學術數位內容。透過與國內外夥伴合作，我們持續強化資訊整合與服務品質，成為客戶在數位轉型與知識管理上的可靠夥伴。

● **Product Services**

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影音教材

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意見回饋

提供實質建議，使課程更完善。

The background is a dark teal color with a complex, glowing yellow and white line-art overlay. This overlay includes various business-related symbols: line graphs with upward arrows, bar charts with numerical values, pie charts, a lightbulb, a cloud, and various mathematical and financial symbols like dollar signs (\$), euro signs (€), and yen signs (¥). The overall aesthetic is that of a high-tech or data-driven environment.

Thank You!

碩睿資訊有限公司

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