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By Jade Li, 李麗娟, Customer Consultant,  Elsevier A&G, Taiwan

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Journal of Hydrology 625 (2023) 129983

Contents lists available at ScienceDirect

Journal of Hydrology

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Research papers

Assessing hydrological and water quality responses to dynamic landuse change at watershed scale in Mississippi

Dipesh Nepal[a], Prem B. Parajuli[a,*], Ying Ouyang[b], S.D. Filip To[a], Nuwan Wijewardane[a]

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[b] US Forest Service, Center for Bottomland Hardwoods Research, United States

ARTICLE INFO

This manuscript was handled by Elizabeth Thompson, Editor-in-Chief, with the assistance of Tessa Maurer, Associate Editor.

Keywords:
LULC
SWAT
Landuse update
Nutrients
Sediment yield
Runoff

ABSTRACT

The hydrology and water quality modeling in a watershed are affected by land use land cover (LULC) input. This study differs from numerous LULC change studies by introducing multi-year LULC input in a single simulation of Soil and Water Assessment Tool (SWAT) model. The proposed approach highlighted the outperformance of the model with dynamic LULC input (DM) over static LULC input (SM) based on the magnitude and direction of the hydrological responses. The difference between DM and SM outputs allowed for studying effects of historical LULC change. Additionally, agricultural management operation inputs enabled more realistic simulation of runoff, sediments, total nitrogen (TN), and total phosphorus (TP). The SM used static landuse data layers for 2009, and DM used landuse data layers for 2009, 2015, and 2018 to represent changes in LULC distribution over time. The expansion of agricultural land (0.9%) and forest cover (0.5%), as well as the reduction of grassland, water, and barren areas (1.4%), were the significant LULC changes from 2009 to 2018. Even though the expansion of forest cover was identified from 2009 to 2015, a declining trend was observed from 2015 to 2018. The agricultural land cover increased consistently from 2009 to 2018. The expansion of agricultural land increased average annual surface runoff, sediment yield, TN, and TP loads by 1.3%, 5.4%, 5.8%, and 5.9% respectively at watershed scale as determined by DM model simulation results. At sub-watershed scale, agricultural land expansion increased runoff, sediment, TN, and TP loads by up to 5%, 16%, 15%, and 15% respectively whereas, the expansion of forest cover resulted in reduction in same parameters by up to 5%, 15%, 23%, and 26% respectively. In general, the study determined that the integration of dynamic LULC and agricultural operations in SWAT allows a more accurate representation of agricultural watersheds for hydrological and water quality analysis.

1. Introduction

Land use land cover (LULC) change is a critical issue in the field of environmental research, as it can have significant impacts on hydrological processes and water quality (Garg et al., 2019; Shrestha et al., 2018). These could involve alterations in surface runoff generation (Chilagane et al., 2021; Shi et al., 2007), sediment yield and nutrient loads (Molina-Navarro et al., 2018; Yan et al., 2013); seasonal variation of streamflow, total suspended solids (TSS), total nitrogen (TN) and total phosphorus (TP) (Risal et al., 2020); evapotranspiration (Wang et al., 2014), groundwater recharge (Adhikari et al., 2020); flood frequency and peak runoff (Ogden et al., 2013; Rogger et al., 2017). The main factors contributing to land use changes are human perturbations and climate drivers (Wang et al., 2009). Water scarcity and degradation of water quality may arise from LULC changes in areas with limited water resources. Therefore, it is necessary to study the impacts of LULC change on hydrology and water quality to manage water resources at watershed scale (Butt et al., 2015).

To evaluate the effects of LULC change on hydrological and water quality responses of a watershed, Geographic Information System (GIS), remote sensing technology and hydrological models are useful (Alexakis et al., 2014). The LULC information obtained from remotely sensed data have been utilized in hydrological modeling studies to study surface and groundwater hydrology and water quality (Thakur et al., 2017). In two separate studies, the Hydrologic Modeling System (HEC-HMS) model was used to assess the impacts of LULC change on stream discharge

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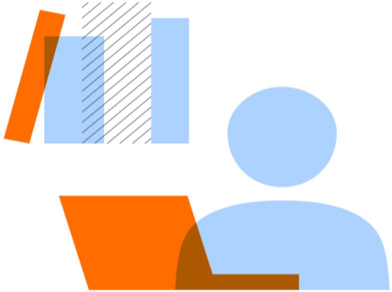

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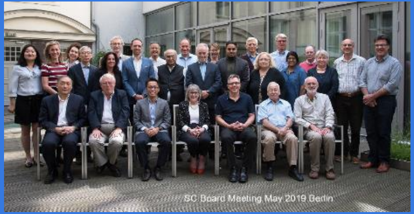

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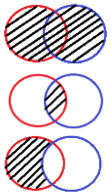

  1. OR 必須出現至少一個字詞，例如orbit OR planet
  2. AND 必須出現兩個字詞，例如“cognitive architecture" AND robots
  3. AND NOT 排除一個字詞，例如 lung AND NOT cancer

  e.g., KEY (mouse AND NOT cat OR dog) is interpreted as *KEY((mouse) AND NOT (cat OR dog))*

- AND NOT should always be used at the end of the query.
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## Deep learning

Lecun, Yann[a, b] ; Bengio, Yoshua[c]; Hinton, Geoffrey[d, e]
將全部儲存到作者清單

[a] Facebook AI Research, 770 Broadway, New York, 10003, NY, United States
[b] New York University, 715 Broadway, New York, 10003, NY, United States
[c] Department of Computer Science, Operations Research Université de Montréal, Pavillon André-Aisenstadt, PO Box 6128, Montréal, H3C 3J7, QC, Canada
[d] Google, 1600 Amphitheatre Parkway, Mountain View, 94043, CA, United States
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Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object recognition,

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## Deep learning

Lecun, Yann[a,b] ; Bengio, Yoshua[c]; Hinton, Geoffrey[d,e]
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[a] Facebook AI Research, 770 Broadway, New York, 10003, NY, United States
[b] New York University, 715 Broadway, New York, 10003, NY, United States
[c] Department of Computer Science, Operations Research Université de Montréal, Pavillon André-Aisenstadt, PO Box 6128, Montréal, H3C 3J7, QC, Canada
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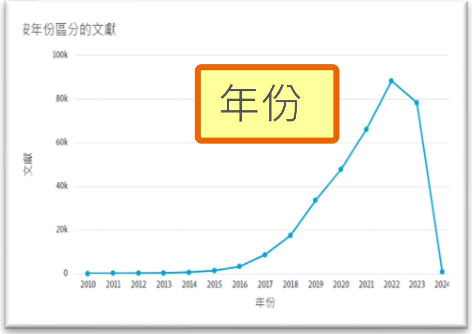
| 名稱 | 文獻 |
|---|---|
| Yuille, Alan L. | 112 |

- 掌握主題領域研究與追蹤研究趨勢
  - 分析搜尋結果

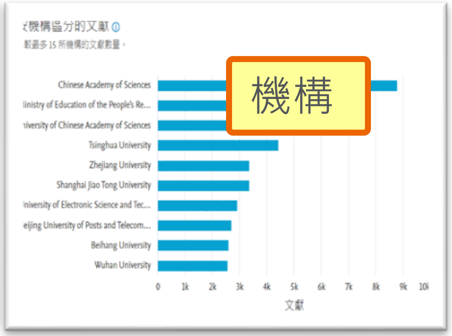
# 分析搜尋結果-快速掌握主題背景與趨勢

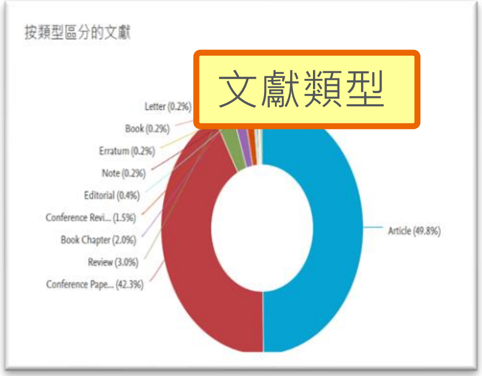
347,684 篇文獻結果

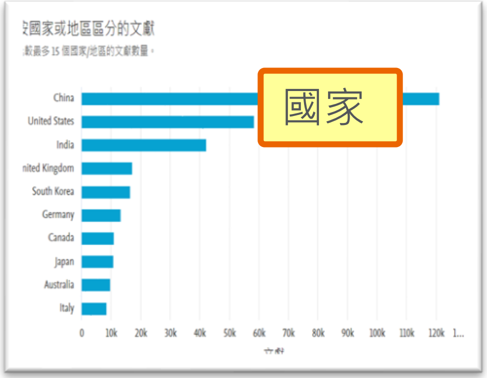
分析結果 ↗

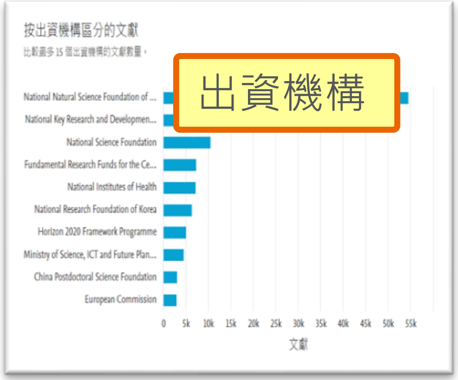


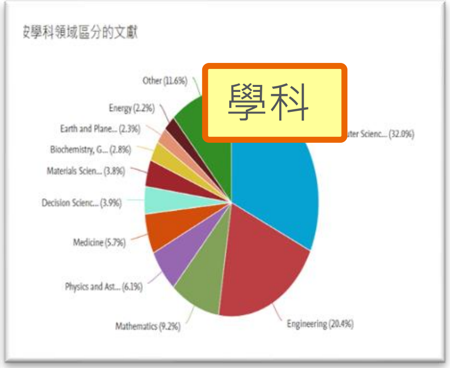


# 追蹤研究影響力-引用概覽

ELSEVIER

347,684 篇文獻結果

分析結果

全部 | 匯出 | 下載 | 引文概覽 | ••• 更多 | 顯示所有摘要 | Sort by 引用次數 (最高者先)

| | 文獻標題 | 作者 | 來源出版物 | 年份 | 引用 |
|---|---|---|---|---|---|
| 1 | Review<br>**Deep learning** | Lecun, Y., Bengio, Y., Hinton, G. | Nature, 521(7553), 436–444 頁 | 2015 | 49,287 |

排序方式: 日期（降冪）

Page | Remove

| | 文獻 | 引用次數 | <2019 | 2019 | 2020 | 2021 | 2022 | 2023 | 小計 | >2023 | 總計 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total | 20744 | 18673 | 24732 | 30252 | 38017 | 32295 | 143969 | 300 | 165013 |
| 1 | Highly accurate protein structure prediction with AlphaFold | 2021 | | | 1 | 424 | 4163 | 5593 | 10181 | [illegible] | 10208 |
| 2 | PyTorch: An imperative style, high-performance deep learning... | [illegible] | [illegible] | 6 | [illegible] | [illegible] | [illegible] | [illegible] | 16458 | 45 | 16503 |
| 3 | DeepLab: Semantic Image Segmentation with Deep Convolutional... | 2018 | 307 | 1329 | 1905 | 2314 | 2911 | 2438 | 10897 | 33 | 11237 |
| 4 | Feature pyramid networks for object detection | 2017 | 253 | 1177 | 2153 | 3006 | 3767 | 3124 | 13227 | 19 | 13499 |
| 5 | Xception: Deep learning with depthwise separable convolution... | 2017 | 121 | 571 | 1205 | 1869 | 2237 | 1873 | 7755 | 13 | 7889 |
| 6 | FaceNet: A unified embedding for face recognition and cluste... | 2015 | 1402 | 1240 | 1555 | 1677 | 1813 | 1264 | 7549 | 19 | 8970 |
| 7 | Deep learning | 2015 | 7942 | 7132 | 8324 | 9037 | 9384 | 7381 | 41258 | 87 | 49287 |
| 8 | Deep Learning in neural networks: An overview | 2015 | 2554 | 1915 | 2063 | 2028 | 1922 | 1401 | 9329 | 13 | 11896 |
| 9 | Dropout: A simple way to prevent neural networks from overfi... | 2014 | 5751 | 4214 | 4675 | 4787 | 4689 | 3304 | 21669 | 32 | 27452 |
| 10 | Representation learning: A review and new perspectives | 2013 | 2414 | 1089 | 1202 | 1228 | 1237 | 890 | 5646 | 12 | 8072 |

近年來引用次數高的文獻

連結回文獻詳情

- 掌握主題領域研究與追蹤研究趨勢
  - 檢索/文獻引用新知通報

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# 追蹤主題領域研究-新知通報

需先登入帳密

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JL

**搜尋新知通報**

進階搜尋式

搜尋範圍
論文名稱、摘要、關鍵字

搜尋文獻 *
"deep learning"

儲存搜尋

設定搜尋通知

+ 增加搜尋欄位

重設

搜尋

*Nature* • 卷 521, 期 7553, 頁 436 - 444 • 27 May 2015

Deep learning

Lecun, Yann[a, b] ; Bengio, Yoshua[c]; Hinton, Geoffrey[d, e]

將全部儲存到作者清單

當本文獻在 Scopus 中被引用時通知我:

設定引用新知通報 >

**文獻引用新知通報**

– 找到主題內期刊與選擇適合期刊閱讀/投稿

◆期刊指標介紹 CiteScore, SJR, SNIP

◆來源出版物簡介

◆比較來源出版物

# 找到主題內期刊-分析搜尋結果

ELSEVIER

## 347,075 篇文獻搜尋結果

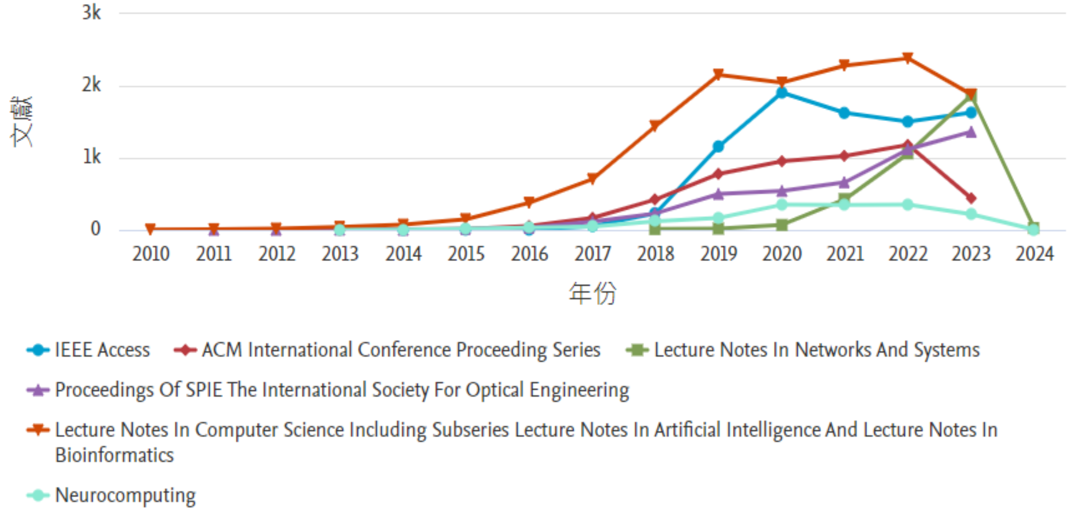
選擇要分析的年份範圍: 2010 到 2024 分析

| 來源出版物 ↓ | 文獻 ↑ |
|---|---|
| Ceur Workshop Proceedings | 1954 |
| Advances In Intelligent Systems And Computing | 1904 |
| Proceedings Of The IEEE Computer Society Conference On Computer Vision And Pattern Recognition | 1850 |
| Progress In Biomedical Optics And Imaging Proceedings Of SPIE | 1806 |
| Neurocomputing | 1668 |
| Electronics Switzerland | 1629 |
| Proceedings Of The International Joint Conference On Neural Networks | 1549 |

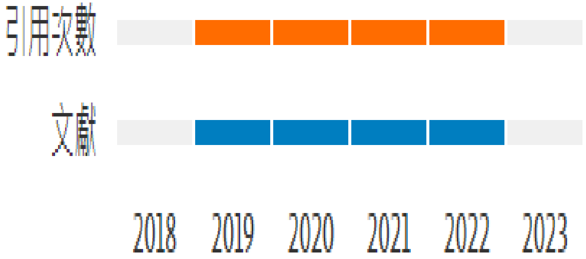
### 按來源出版物區分的各年度文獻

比較最多 10 個來源出版物的文獻數量。

比較來源出版物，並查看 CiteScore、SJR 和 SNIP資料



# 2022 CiteScore




Articles, Reviews, conference papers, book chapters, data papers

**V.S.**

# 2022 Impact Factor

2022 cites to articles published in 2020-2021

---

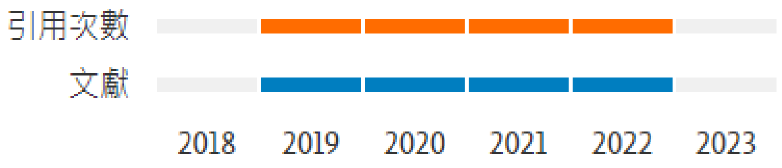
No. of articles published in 2020-2021

Citable items

# 期刊指標- CiteScore

## CiteScore 2022 計算方法

CiteScore 2022 計算在 2019-2022發表的論文、回顧文獻、 會議論文、專書論文、和數據論文等等在 2019-2022 所收到的引用總數，除以發表於2019-2022的出版物總數。




想瞭解更多嗎？請參閱 Citescore FAQ↗

CiteScoreTracker 2023 根據最新的2023資料，使用與引用相同的計算方法。

Neurocomputing

ELSEVIER

CiteScore 2022
10.8

SJR 2022
1.481

SNIP 2022
1.853

# 期刊指標- CiteScore追蹤, 排行, 5年趨勢

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CiteScore 2022

10.8 = 2019 - 2022 61,612 個引用次數 / 2019 - 2022 5,684 篇文獻

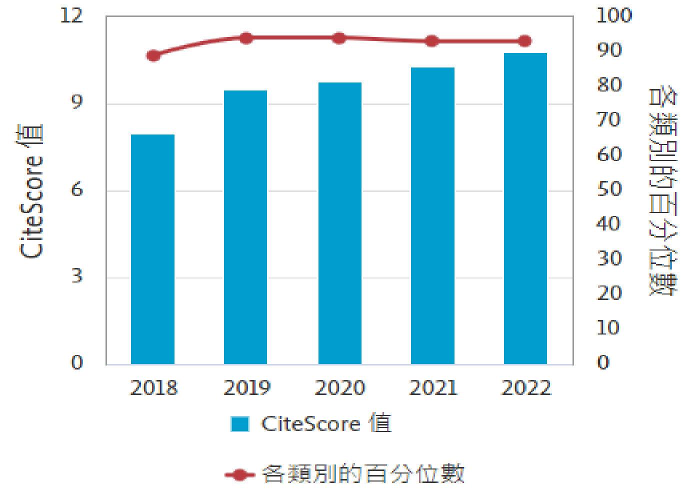
計算 05 May, 2023

CiteScore 追蹤2023 ⓘ

10.8 = 迄今 57,460 個引用次數 / 迄今 5,304 篇文獻

最後一次更新:05 September, 2023 • 每個月更新

CiteScore 趨勢




## CiteScore 排行 2022 ⓘ

| 類別 | 排名 | 百分位數 |
| --- | --- | --- |
| Cognitive Neuroscience | #8/109 | 第 93 |
| Computer Science — Computer Science Applications | #61/792 | 第 92 |
| Computer Science — Artificial Intelligence | #41/301 | 第 86 |

# CiteScore排行-查看領域內排行刊物

ELSEVIER

CiteScore 排名 ⓘ 2022 類別為: Artificial Intelligence

| | | | |
|---|---|---|---|
| ☆ #41 / 301 | Neurocomputing | 10.8 | 第 86 百分位數 |

| 排名 | 來源出版物名稱 | CiteScore 2022 | 百分位數 |
|---|---|---|---|
| #1 | Foundations and Trends in Machine Learning | 91.4 | 第 99 百分位數 |
| #2 | International Journal of Information Management | 41.9 | 第 99 百分位數 |
| #3 | Nature Machine Intelligence | 32.7 | 第 99 百分位數 |
| #4 | IEEE Transactions on Pattern Analysis and Machine Intelligence | 30.4 | 第 98 百分位數 |
| #5 | Transactions of the Association for Computational Linguistics | 25.4 | 第 98 百分位數 |
| #6 | Artificial Intelligence Review | 23.0 | 第 98 百分位數 |
| #7 | AI Open | 22.5 | 第 97 百分位數 |
| #8 | International Journal of Computer Vision | 22.5 | 第 97 百分位數 |
| #9 | Annual Review of Control, Robotics, and Autonomous Systems | 22.3 | 第 97 百分位數 |

# 期刊資訊- Scopus內容涵蓋範圍

CiteScore　CiteScore 趨勢　Scopus 內容涵蓋範圍

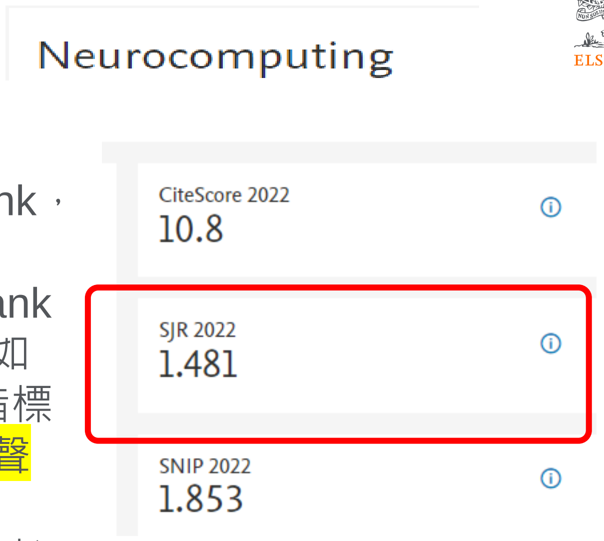
| 年份 | 文獻發表 | 操作 |
|---|---|---|
| 2023 | 837 文獻 | 查看引用概覽 > |
| 2022 | 1,433 文獻 | 查看引用概覽 > |
| 2021 | 1,669 文獻 | 查看引用概覽 > |
| 2020 | 1,548 文獻 | 查看引用概覽 > |
| 2019 | 1,152 文獻 | 查看引用概覽 > |
| 2018 | 1,322 文獻 | 查看引用概覽 > |
| 2017 | 1,119 文獻 | 查看引用概覽 > |
| 2016 | 1,784 文獻 | 查看引用概覽 > |
| 2015 | 1,351 文獻 | 查看引用概覽 > |
| 2014 | 908 文獻 | 查看引用概覽 > |

# 期刊指標- SJR

SJR Scimago Journal & Country Rank

SJR（SCImago Journal Rank） 全名為 SCImago Journal Rank，是由 SCImago 研究團隊來自西班牙國家研究機構的 Félix de Moya 教授等三位所提出，其核心概念來自 Google 的 PageRank 演算法，根據引用權衡表以及複雜且性質不同的引用網絡資源如Scopus使用的特徵向量中心性來決定學術期刊的排名。SJR 指標是不受大小影響的計量方法，旨在衡量期刊目前的「文章平均聲望」。

註：SJR 計算之時間區間為 3 年，並將期刊引用本身發行的參考資料限制在 33%。

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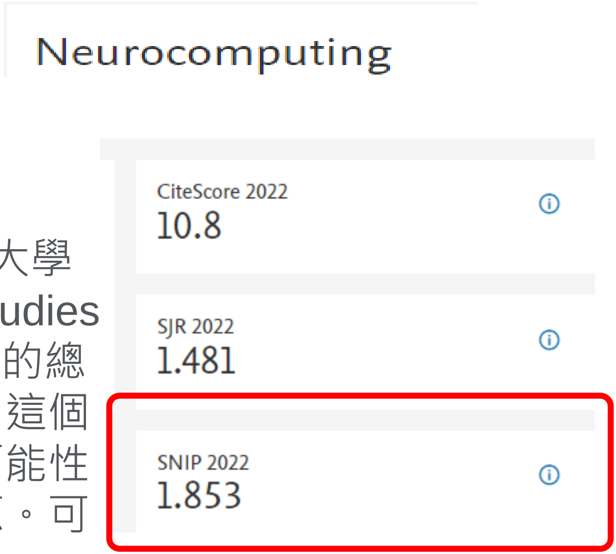
# 期刊指標- SNIP

CWTS Journal Indicators
Meaningful metrics

SNIP（Source Normalized Impact per Paper）全名為 Source Normalized Impact per Paper （標準化影響係數） 由荷蘭萊頓大學（University of Leiden） Centre for Science and Technology Studies（CWTS） 團隊 Henk Moed 教授所提出，是根據某個主題領域的總引用次數、給予引用權重，進而衡量上下文引用所造成的影響。這個方法就是找出每篇論文中期刊引用的數目與主題領域內引用的可能性之間的比例。其目的在允許直接比較不同主題領域內的資料來源。可以突破傳統 Impact Factor 無法考量不同研究領域的引用情形。
註：SNIP 值每年更新兩次，以提供最新的研究觀點。



# Scopus來源出版物-查看刊物是否收錄

ELSEVIER

搜尋 | 來源出版物 | SciVal

學科領域
名稱
出版商
ISSN

ISSN
輸入一個或多個 ISSN
搜尋來源出版物

套用 清除篩選

顯示選項
只顯示開放取用期刊
4 年的引用總數
未選取最小值
最少引用數量
最少文獻數量
CiteScore 最高的四分位數
僅顯示前百分之十的出版物名稱
第一四分位數
第二四分位數
第三四分位數
第四四分位數

來源出版物種類
期刊
叢書
會議記錄
商業出版物

套用 清除篩選

全部 匯出至 Excel 儲存到

查閱以下年份的計量: 2022

| | 來源出版物名稱 | CiteScore | 最高百分比 | 引用次數 2019-22 | 文獻 2019-22 | 引用 % |
|---|---|---|---|---|---|---|
| 1 | Ca-A Cancer Journal for Clinicians 1Cate | 642.9 | 99% 1/366 Oncology | 69,429 | 108 | 94 |
| 2 | Nature Reviews Molecular Cell Biology 1Cate BIBSYS | 164.4 | 99% 1/380 Molecular Biology | 32,874 | 200 | 93 |
| 3 | New England Journal of Medicine 1Cate BIBSYS | 134.4 | 99% 1/830 General Medicine | 310,795 | 2,313 | 85 |
| 4 | The Lancet 1Cate BIBSYS | 133.2 | 99% 2/830 General Medicine | 240,101 | 1,803 | 74 |
| 5 | Nature Reviews Drug Discovery 1Cate BIBSYS | 123.8 | 99% 1/301 Pharmacology | 22,277 | 180 | 88 |

# Advances in Science, Technology and Engineering Systems

Scopus 涵蓋年度: 從 2016 到 2021

( Scopus 已不再包括本涵蓋範圍 )

發表者: ASTES Publishers

電子版國際標準期刊號: 2415-6698

學科類別: Engineering: Engineering (miscellaneous) | Business, Management and Accounting: Management of Technology and Innovation | Physics and Astronomy: Physics and Astronomy (miscellaneous)

來源出版物種類 期刊

查閱所有文獻 › | 設定文獻通知 | 儲存到來源出版物清單 | Source Homepage | 1Cate

CiteScore 2019
0.6

SJR 2021
0.188

SNIP 2022
0.449

# Nature

包含: Nature: New biology

包含: NATURE PHYSICAL SCIENCE

Scopus 涵蓋年度: 從 1869 至今

發表者: Springer Nature

國際標準期刊號: 0028-0836 電子版國際標準期刊號: 1476-4687

學科類別: Multidisciplinary

來源出版物種類 期刊

CiteScore 2022
83.4

SJR 2022
20.957

SNIP 2022
11.591

| | | | | |
|---|---|---|---|---|
| ☆ | #1 | Nature | 83.4 | 第 99 百分位數 |
| | #2 | Science | 59.0 | 第 98 百分位數 |
| | #11 | Scientific Reports | 7.5 | 第 92 百分位數 |
| | #17 | PLoS ONE | 6.0 | 第 87 百分位數 |
| | #18 | Heliyon | 5.6 | 第 86 百分位數 |

# 比較來源出版物

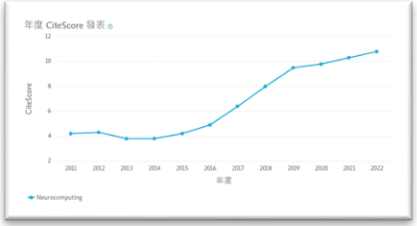
## 來源出版物詳情

回饋 >　比較來源出版物 >

**最多可以選取 10 個來源出版物進行比較**

已選擇的來源出版物: Neurocomputing ×

移除所有選擇




按來源出版物名稱、出版商、ISSN 和/或學科領域搜尋

來源出版物名稱

請輸入出版物名稱 *

neural computation ×

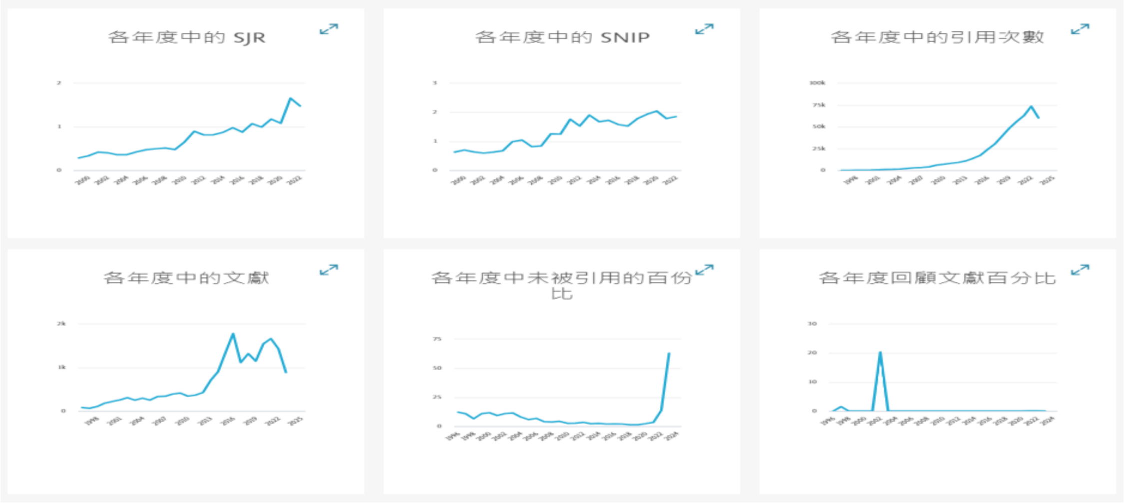
例如:細胞、癌症

限制

所有學科類別　搜尋

2 搜尋結果　CiteScore

| 來源出版物 ↑ | CiteScore ↓ |
| --- | --- |
| Network: Computation in Neural Systems | 2.7 |
| Neural Computation | 9.3 |



# 今日大綱

– 掌握該領域的研究者並追蹤其研究影響力
  - 作者指標H-Index
  - Researcher Discovery介紹

# 搜尋重要作者

1

文獻 作者 搜尋研究人員 (Researcher Discovery) 新增 機構 搜尋提示

Search authors using: 作者姓名 ORCID 關鍵字 新增

輸入姓氏 *

輸入名字

+ 新增機構

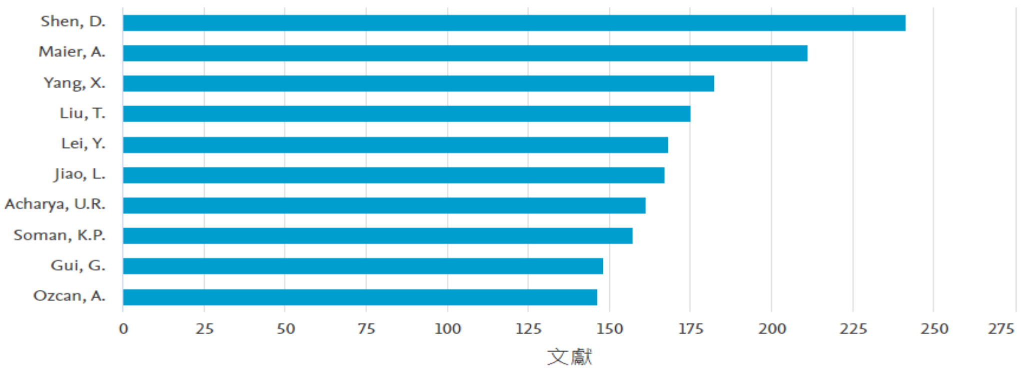
搜尋

2

| 作者 | 文獻 |
|---|---|
| Shen, D. | 241 |
| Maier, A. | 211 |
| Yang, X. | 182 |
| Liu, T. | 175 |
| Lei, Y. | 168 |
| Jiao, L. | 167 |
| Acharya, U.R. | 161 |
| Soman, K.P. | 157 |

按作者區分的文獻

比較最多 15 位作者的文獻數量。



# 重要作者– 作者檔案

ELSEVIER

## Maier, Andreas K.

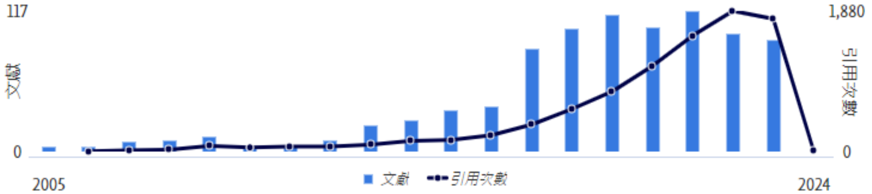
Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany　23392966100　https://orcid.org/0000-0002-9550-5284

ORCID
Open Researcher and Contributor ID
開放的研究者與貢獻者識別碼: 用以解決著作者名字或縮寫相似而難以辨認學術貢獻的問題. 每一個學者有自己獨一無二的識別碼 (需註冊)

9,024 引用 by 6,733 文獻　903 文獻　42 h-索引 查閱 h-圖表

h-index 是由美國加利福尼亞大學聖地亞哥分校的 Jorge E. Hirsch 教授所發展的混合量化指標，用於評估研究者的學術產出數量與學術產出影響力

文獻與引用趨勢




分析作者的產出　引文概覽

貢獻度最多的主題 2018–2022

**Object Detection; Deep Learning; IOU**
53 篇文獻

**Motion Compensation; Computer Assisted Tomography; Coronary Vessels**
23 篇文獻

**Breast Neoplasms; Cancer Classification; Histopathology**
21 篇文獻

查看所有主題

作者位置排序
基於 2013 - 2022 年的 750 篇文獻

First author • 2%
Last author • 47%
Co-author • 51%
Single author • 0%

903 文獻　New 作者指標　Cited by 6,733 文獻　287 預印本　1,491 共同作者　100 主題　測試版 14 獎勵補助款

903 文獻

編輯簡介　設定新知通報　儲存至清單　可能匹配的作者　輸出至 SciVal

# 搜尋該領域研究者

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文獻 | 作者 | 搜尋研究人員 (Researcher Discovery) 新增 | 機構

「搜尋研究人員」有助您發現全球各地的研究人員並與之建立聯繫。

首先輸入與研究領域、主題或興趣相關的關鍵字。

關於搜尋研究人員

輸入關鍵字
"deep learning"

比對到的文獻條件
- This year
- Last 2 years
- Last 3 years

國家

輸入國家名稱
- Germany
- China
- United States
- United Kingdom
- Australia

顯示所有

組織

輸入組織名稱
- Friedrich-Alexander-Universität Erlangen-Nürnberg
- Shanghai Clinical Research and Trial Center
- Emory University

匯出結果

關於指標 排序 比對到的的文獻（最高者優先）

| 作者資訊 | 比對到的的文獻數量 | 引用總數 | 所有文獻 | h-指數 |
|---|---|---|---|---|
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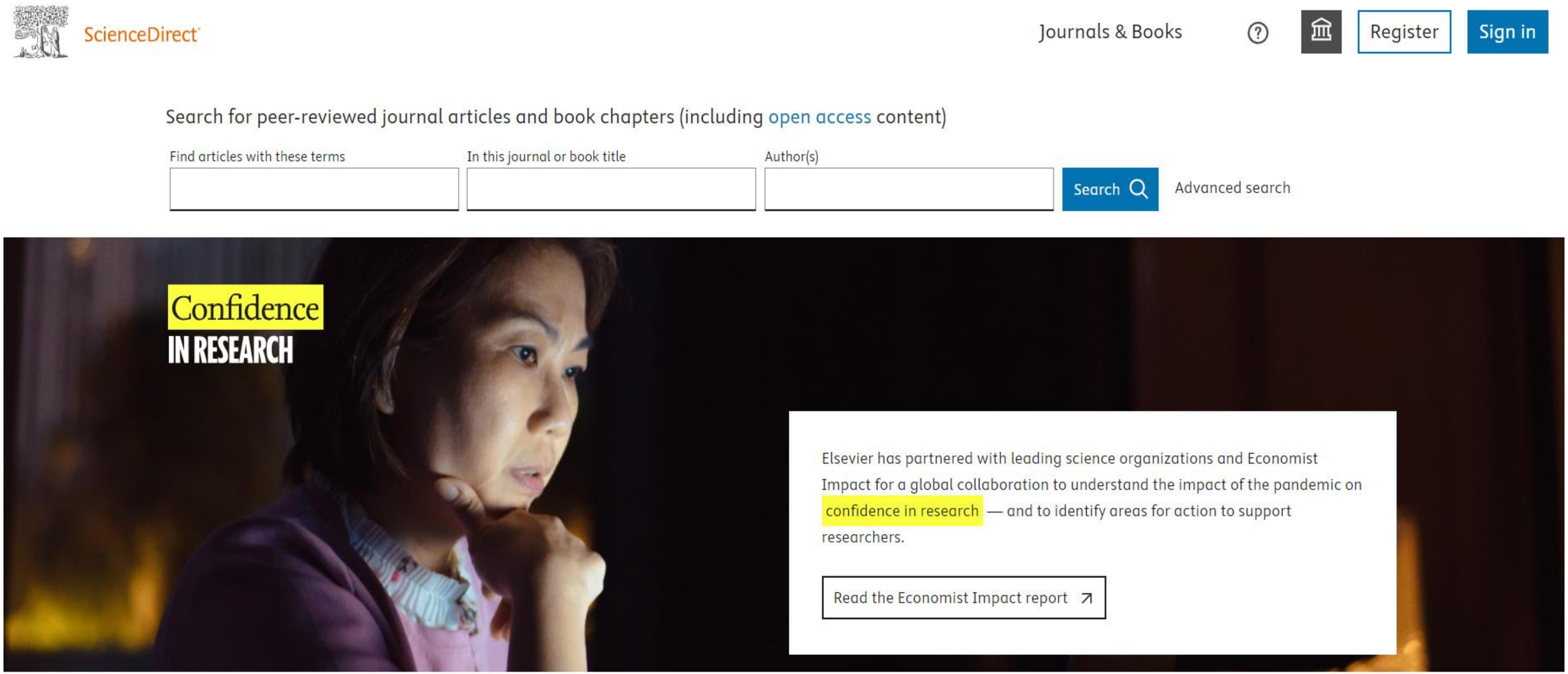

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Aquaculture
Volume 561, 15 December 2022, 738639

# Evaluating treatments for shell-boring polychaete (Annelida: Spionidae) infestations of Pacific oysters (*Crassostrea gigas*) in the US Pacific Northwest

J.C. Martinelli [a], H.R. Casendino [a], L.H. Spencer [a], L. Alma [a], T.L. King [b], J.L. Padilla-Gamiño [a], C.L. Wood [a]

J.C. Martinelli
View in Scopus

School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA, United States of America

## Highlights

文章重點

- We *co*-created 3 interventions with oyster farmers to control shell-boring polychaetes.
- We assessed whether treatments killed worms, oysters, or affected oyster physiology.

## 1. Introduction

Shell-boring polychaetes are pervasive aquaculture pests found on shellfish farms worldwide (Loosanoff and Engle, 1943; Radashevsky et al., 2006; Diez et al., 201 ; Read,

M.E. Diez, V.I. Radashevsky, J.M. Orensanz, F. Cremonte
Spionid polychaetes (Annelida: Spionidae) boring into shells of molluscs of commercial inter... Argentina
Ital. J. Zool., 78 (2011), pp. 497-504
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Fig. 2. Images of cultured Pacific oyster shells showing different stages of infestation by shell-boring polychaetes. (A) Image of a healthy oyster shell, (B) Images of an oyster shell

## Pacific Oyster

Pacific oysters are lamellibranch suspension-feeding bivalves of the class Pelecypoda.
From: Journal of Sea Research, 2010

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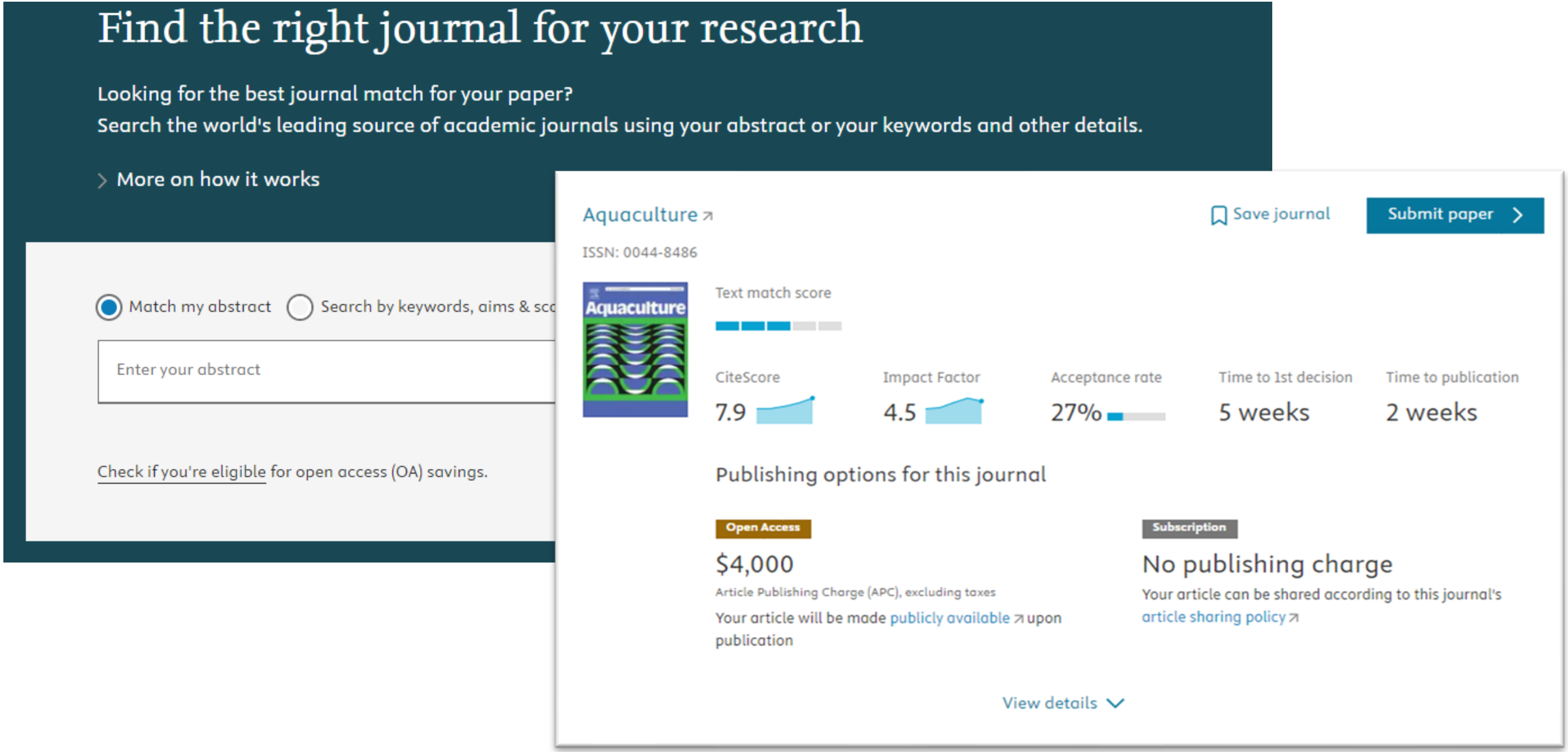

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