

## 讓你的文章被看見

介紹學術社群

Be a Social Scholar!

學科服務組 江芊儒 2020年4月15日 MASTER講堂

#### 被引4C

Competence提升著作水準

Collaboration增加合著

Care重視學術聲譽

Communication確保著作充分曝光

#### 課程大綱

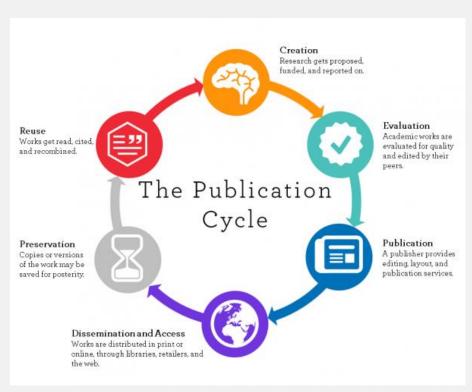
- 從學術傳播說起
- 什麼是學術社群
- 為什麼要使用學術社群
- 那些學術社群
- 學術社群之外的行銷選擇
- 如何經營學術社群
- 使用學術社群之後...

## 從 學術傳播 說起



#### 學術傳播

- 學術傳播是學術研究從創造、評估、散佈至保存的系統,其包含正式及非正式管道,前者如期刊文章、書籍、研討會論文等,後者如資料集、部落格文章、預印本、撰寫中的文章等新興資料類型
- 創作學術資訊的過程中,必須掌握前人的相關研究,以之為基礎,避免重複,並作為自身研究的參考,故資訊尋求為學術傳播的一體兩面
- 學術資訊的方便取得可促進學術傳播的 各個環節發展



Scholarly Publication System, courtesy University of Winnipeg

#### 什麼是 學術社群 ?



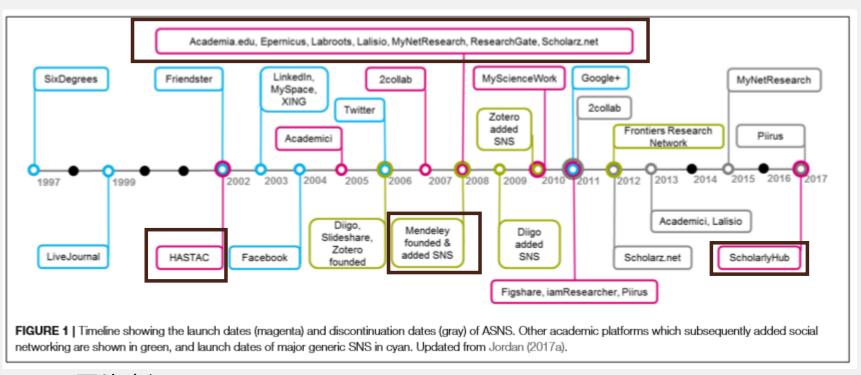
#### 何謂社群媒體

- 網路服務
- 可建立公開或半公開的個人簡歷
- 閱讀、創造、分享使用者導向內容
- 與他人連結並分享感受與想法
- 平台通常供免費使用
- 營利公司所創設具商業模式

#### 何謂學術社群媒體

- 學術領域中的研究者、機構、學校等人員使用的社群媒體
- 為促進學術交流提供以下服務
  - 合作
  - 線上個人簡歷管理
  - 研究散佈
  - 文獻管理
  - 影響力計算
- 服務種類
  - 行銷連結為主:提升簡歷呈現及與他人的聯繫
  - 資源分享為主:分享著作、文件與資料之平台,衍伸提供簡歷呈現功能

#### 社群媒體創立時間軸



圖片來源:Jordan, K. (2017). Academic social networking sites timeline.

https://doi.org/10.6084/m9.figshare.1460787.v1

## 為什麼 要使用 學術社群?

研究工作的協助



#### 1.建立數位識別

- 供建立個人簡歷,呈現學術經歷,建立聲譽
- 透過研究專長關鍵字提升研究者的能見度
- 作為他人確認著作作者的參考

#### 2.推廣研究成果

- 推薦個人研究成果
- 提供全文檔案
- 文件檔案管理
- 發表專業觀點
- 開放取用出版各類研究成果(資料集、投影片、演說、教案、課綱等)

#### 3.資訊互惠,加速傳播

- 透過使用者著作書目、檔案的提供,發展供檢索並取得全文、資料集等檔案之功能
- 書目管理
- 自動文章推薦
- 追蹤領域機構、研討會、學術泰斗掌握新知
- 追蹤標記待讀文章
- 學習他人研究經驗

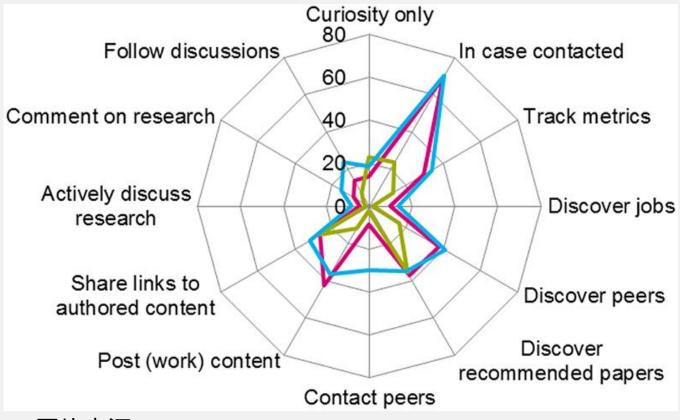
#### 4.追蹤使用情形

- 整合各平台的引用、使用指標
- 平台提供點閱、下載次數等統計
- 發展出新的學術評鑑指標-替代計量(Altmetrics)

#### 5.合作互動

- 媒合淺在合作者、贊助者、工作
- 與同儕研究者討論、合著、回饋、推薦、評論、分享學術動態、全文或資料集等檔案(達成立即同儕審查)
- 加入任務或主題群組討論、發問、解決問題、共同編輯、進行研究
- 視訊、私訊、聊天室等直接討論、聯繫

#### 研究者使用動機



圖片來源:Research, N. (2014). NPG 2014 Social Networks survey.

https://doi.org/10.6084/m9.figshare.1132584.v4

桃紅:Academia.edu;藍:Researchgate;綠:Mendeley

## 為什麼 要使用 學術社群?

衍伸效益



#### 1. 增加曝光

- 增加著作能見度
- 打造個人品牌行銷自我

#### 2.大眾互動

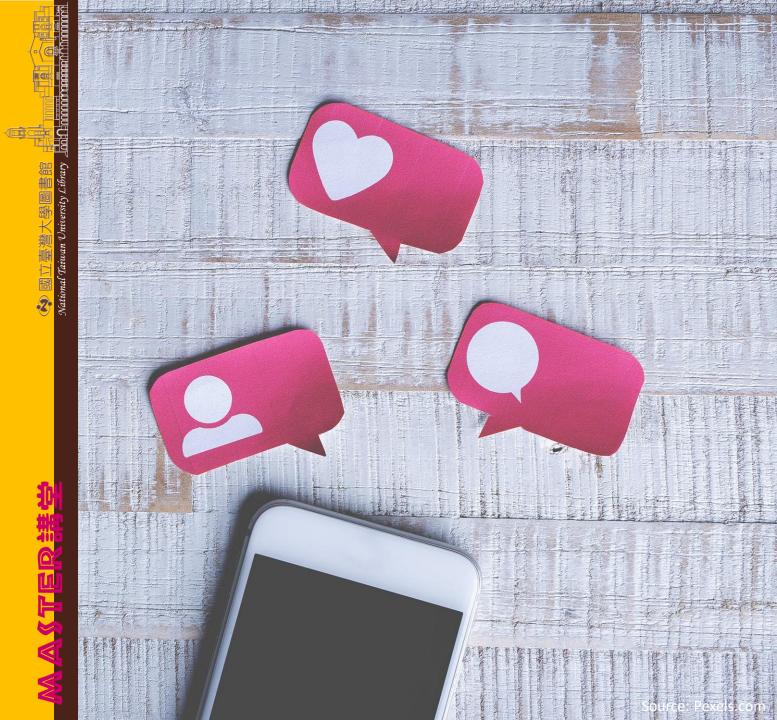
- 拓展受眾至非學術領域
- 加強大眾與學術界的關係
- 群眾參與:邀請群眾參與研究
- 群眾外包:向群眾募集研究資源
- 群眾募資:由群眾提供研究資金援助
- 貢獻社會,教育大眾

#### 3.提升引用

- 促進研究成果傳播,提升著作使用率
- 研究證實學術社群平台的指標多寡與正式的引用次數多寡正相關
- 研究證實上傳至社群網站之文章,引用率明顯且持續高於為上傳者(Niyazov等, 2016)
- 提升著作引用次數是研究者使用社群媒體的主要原因

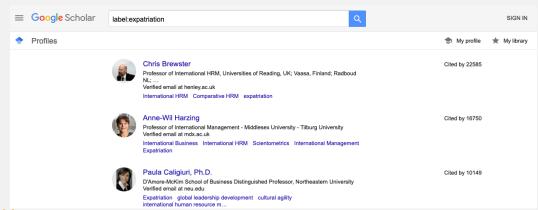
### 那些 學術社群

行銷連結導向



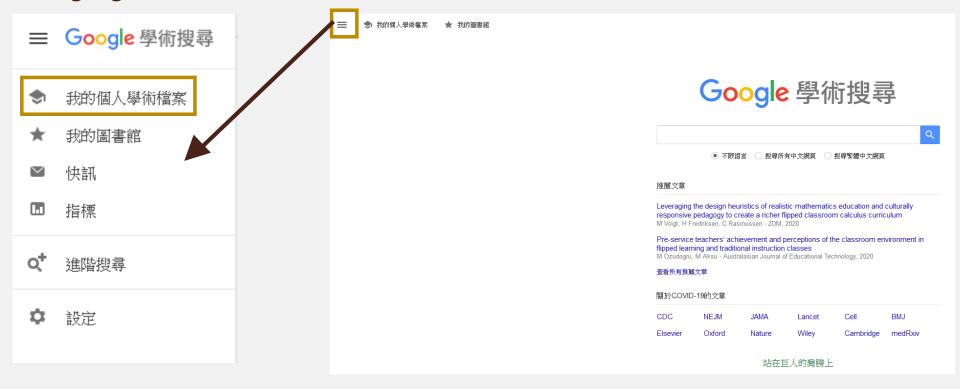
#### Google scholar profile

- 提供簡歷、著作清單及引用數據行銷自我
- 提高在Google Scholar搜尋引擎的能見度
- 可匯出著作清單加值使用
- 建立數位識別
  - 簡易簡歷
  - 呈現個人H-index等指標及被引情形
  - 為研究領域下關鍵字,以透過關鍵字連結他人簡歷
- 推廣研究成果
  - 應用Google Scholars既有書目形成著作清單,無法自行上傳全文
- 資訊互惠,加速傳播
  - 追蹤他人著作更新與引用情形
- 追蹤使用情形
  - 引用次數



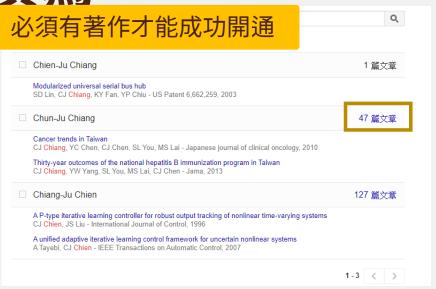
#### 註冊開啟個人帳號

■ 註冊一組google帳號並登入



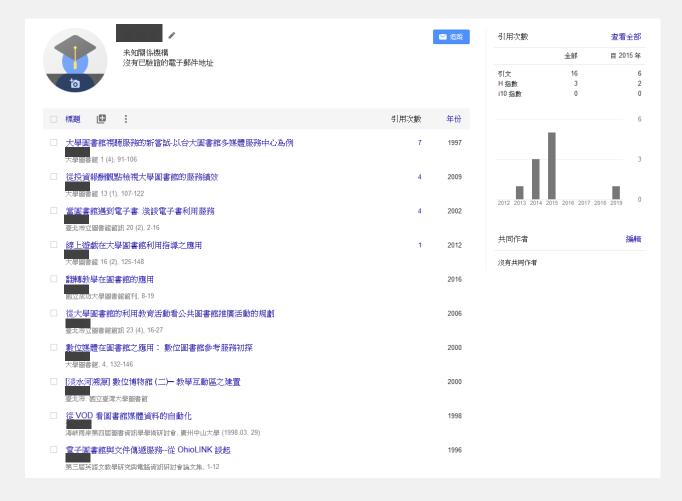
#### 完成個人簡歷資訊填寫





# 文章更新 Google 學術搜尋會自動找出你的新文章,以及現有文章的變更內容。 ● 自動套用更新內容 透過電子郵件傳送更新內容讓我審查 個人學術檔案顯示設定 將個人學術檔案設為公開,可讓同事找到及追蹤你的文章。個人學術檔案中還會提供個人化的閱讀清單。 ✓ 將我的個人學術檔案公開

#### 著作清單



#### 文章呈現

	全部	自 2015 年
引文	691	648
H 指數	15	15
i10 指數	20	19
		200
		150
		100
1	ш	50
2013 2014 2015	2016 2017 2018	2019 2020
共同作者		
♠ He Dad		

 $\times$ 

#### User Participation in an Academic Social Networking Service: A Survey of Open **Group Users on Mendeley**

wiley.com 提供的 [PDF] Find It@NTU

作者 Wei Jeng, Daqing He, Jiepu Jiang

發布日期 2015

期刊 Journal of the Association for Information Science and Technology

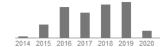
冊別 66

期數 5

頁數 890-904

描述 Although there are a number of social networking services that specifically target scholars, little has been published about the actual practices and the usage of these socalled academic social networking services (ASNSs). To fill this gap, we explore the populations of academics who engage in social activities using an ASNS; as an indicator of further engagement, we also determine their various motivations for joining a group in ASNSs. Using groups and their members in Mendeley as the platform for our case study, we obtained 146 participant responses from our online survey about users' common activities, usage habits, and motivations for joining groups. Our results show that (a) participants did not engage with social-based features as frequently and actively as they engaged with research-based features, and (b) users who joined more groups seemed to have a stronger motivation to increase their ..

引文總數 被引用 126 次



學術搜尋文章 User participation in an academic social networking service: A survey of open group users on M endelev

W Jeng, D He, J Jiang - Journal of the Association for Information Science and ..., 2015

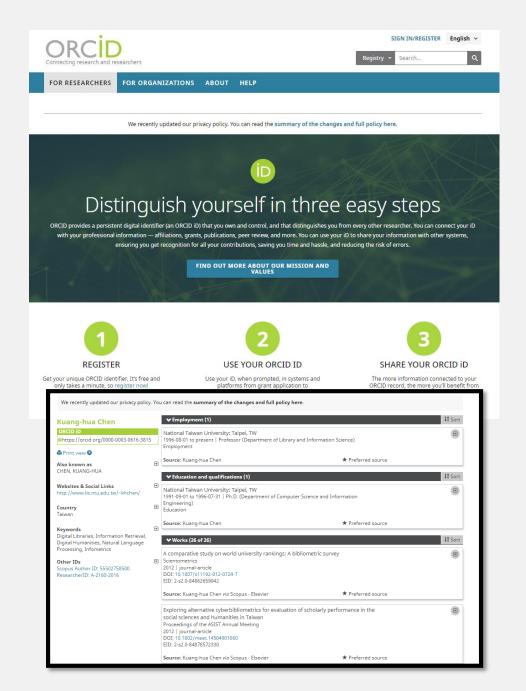
被引用 126 次 相關文章 全部共 18 個版本

#### 追蹤他人,掌握最新著作



#### **ORCID**

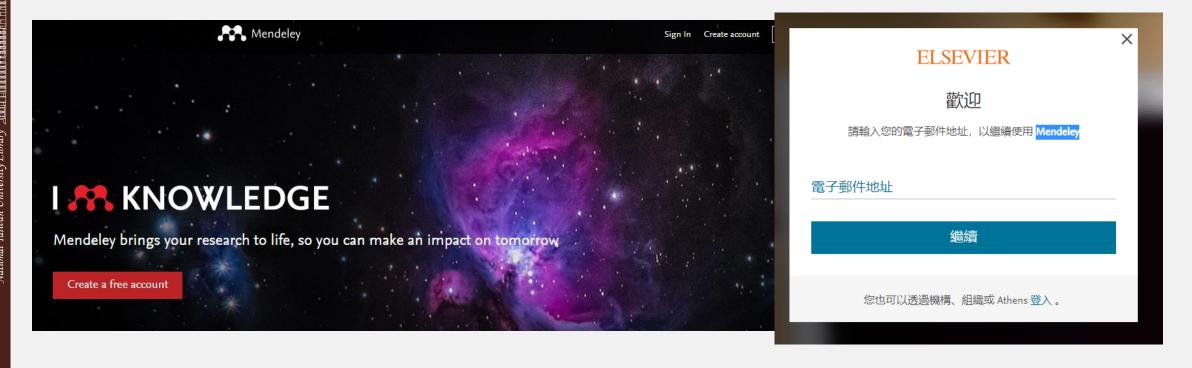
- 建立數位識別:
  - 申請作者的單一數位辨識碼
  - 使影響力計算更精確
  - 使作者與其著作及所屬單位緊密串連
  - 出版時提供可供資料庫辨識並連結檢歷
- 推廣研究成果
  - 呈現正式出版文章或預印本之書目
  - 與各資料庫介接方便批次匯入
- 不具連結、追蹤其他作者及互動功能



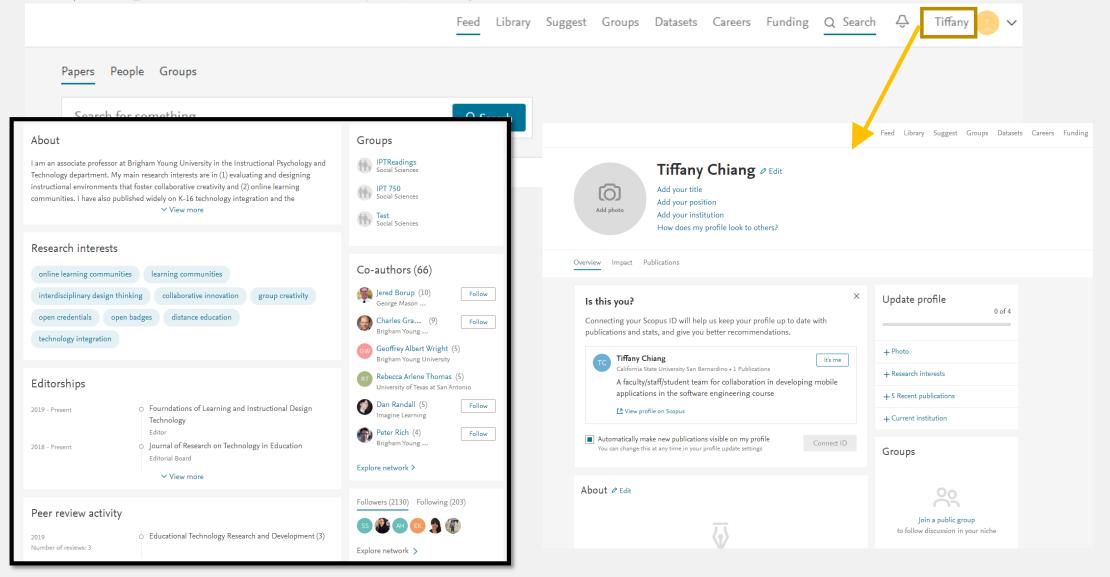
#### Mendeley

- 本為線上的書目管理工具,便於收 藏書目,直接引用
- 2013年被Elsevier學術出版公司收購
- 建立數位識別:
  - 完整檢歷
  - 呈現H-index和scopus引用情形
- 推廣研究成果:
  - 可上傳全文及資料檔案 (Mendeley Data)

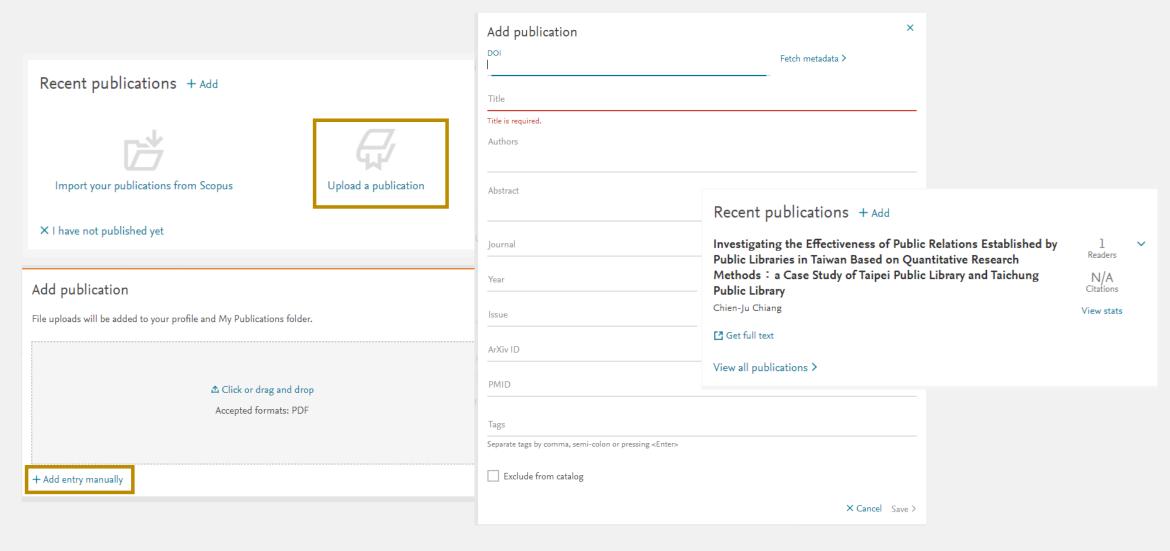
- 資訊互惠,加速傳播
  - 提供完整的檢索功能
  - 可追蹤他人著作或動態更新
  - · 加入群組掌握領域新知及相關著作
  - 透過所儲存的書目提供推薦
- 合作互動
  - 可分享動態,並僅限追蹤者 觀看
  - 可回應、分享所追蹤社群或 個人之動態
- 追蹤使用
  - 引用數
  - 書目儲存數



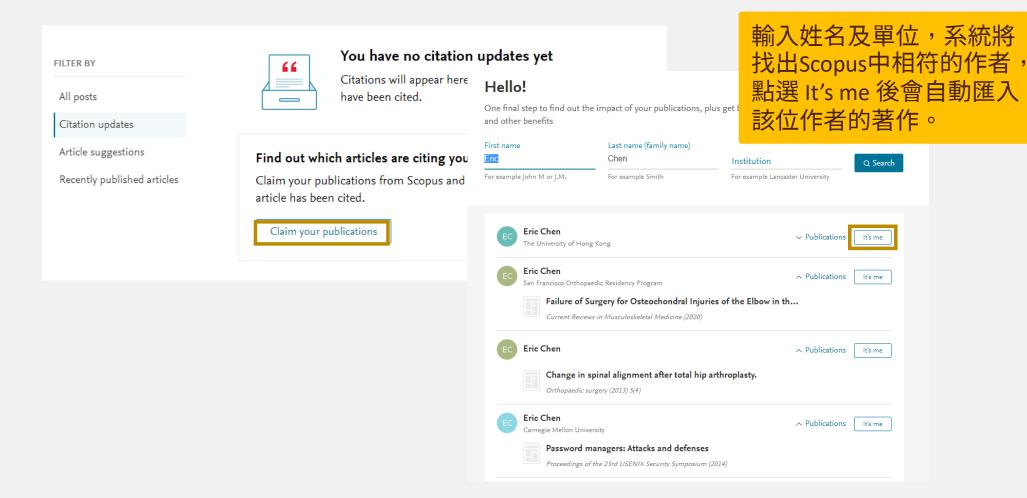
#### 完成個人簡歷資訊填寫



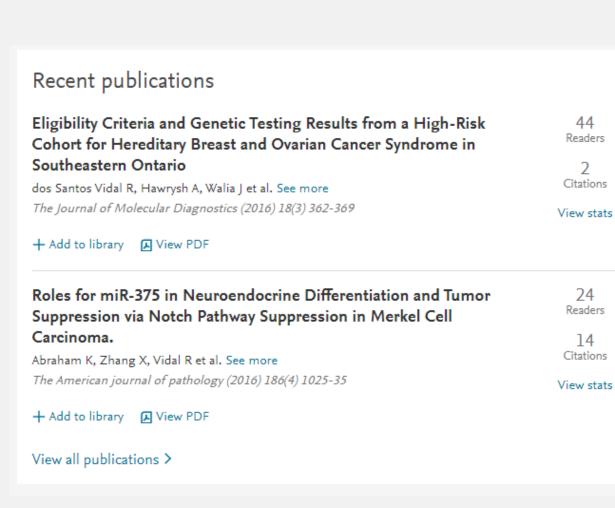
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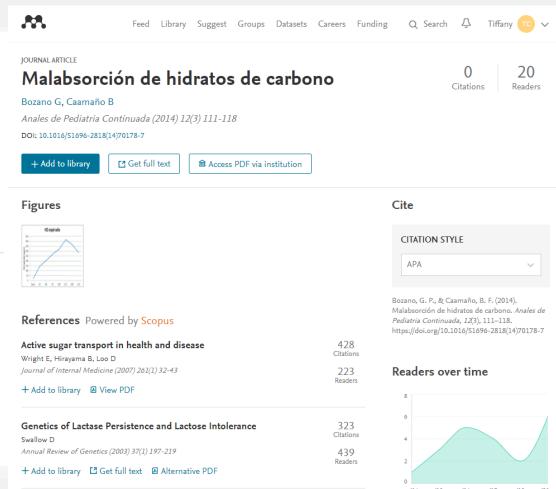


#### 新增著作

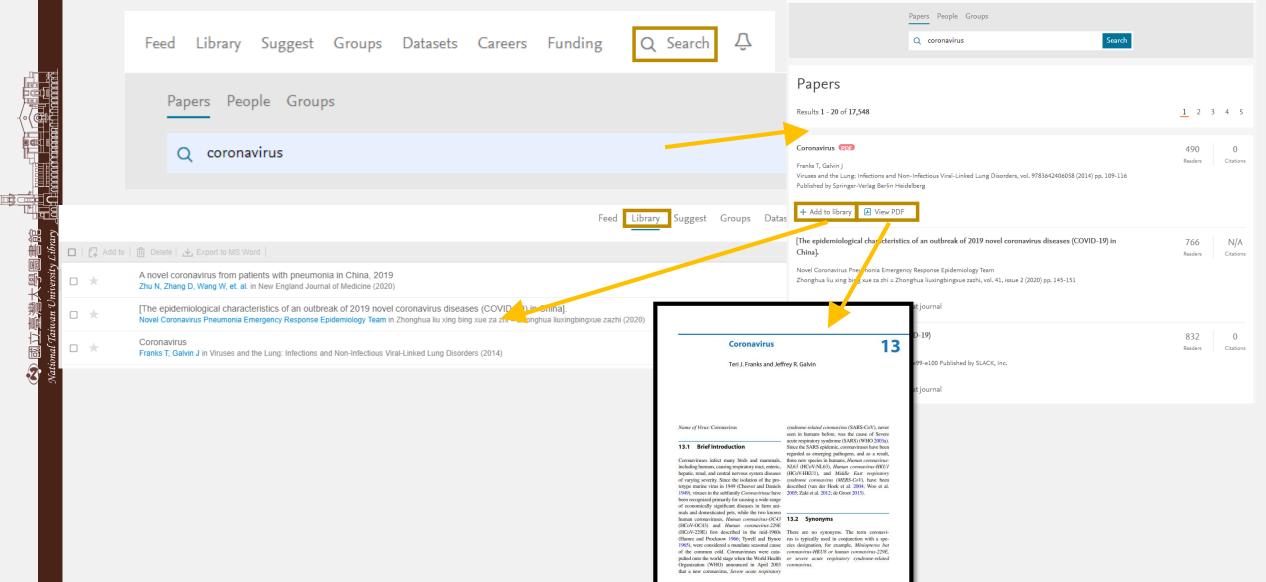


#### 文章呈現

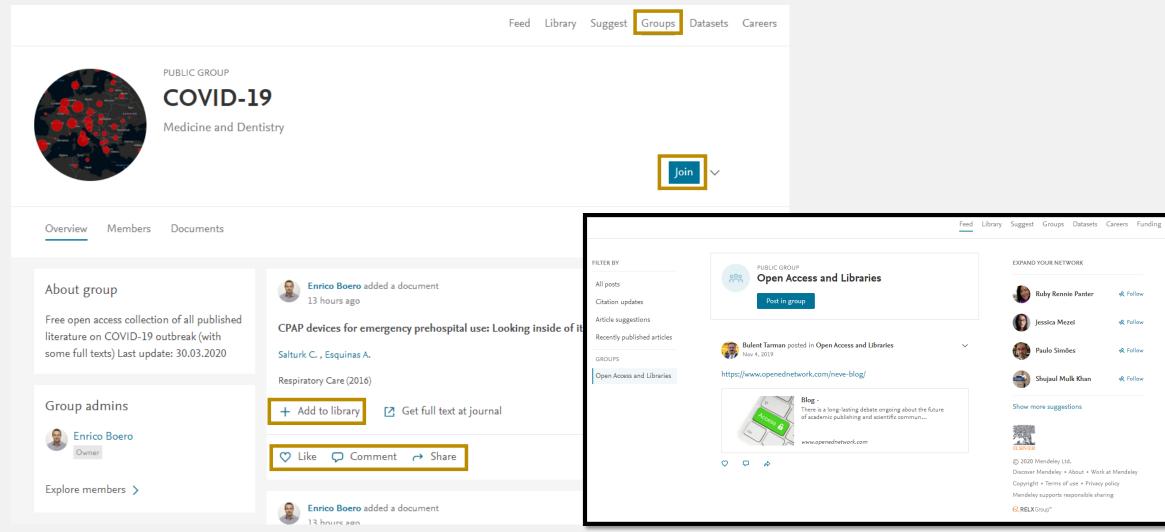




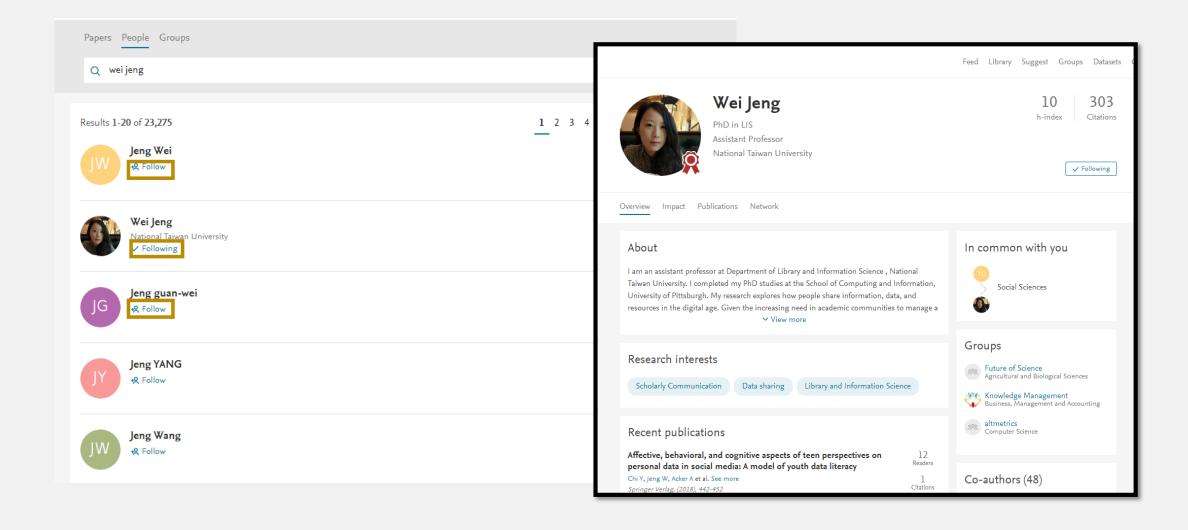
#### 檢索、收藏、取得全文



### 加入群組



### 追蹤他人,掌握最新著作與動態

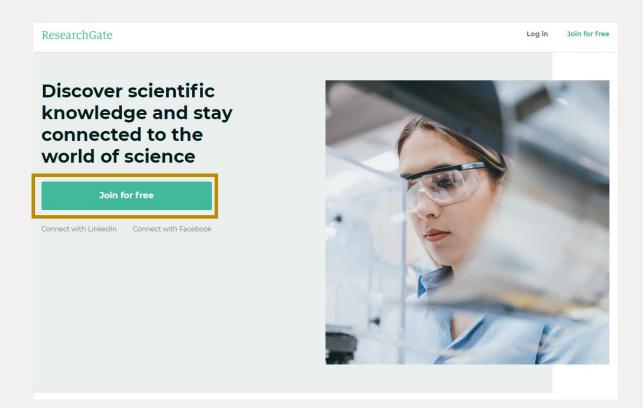


#### Research Gate

- 兼具社群交流與取得全文之功能
- 建立數位識別
  - 完整檢歷
  - 呈現RG score等指標及被引情形
  - 為研究領域下關鍵字,以透過關 鍵字尋得簡歷
- 推廣研究成果
  - 自動推薦著作,簡化著作清單維 護流程
  - 可上傳全文

- 資訊互惠,加速傳播
  - 可追蹤特定作者的專案、著作、 作者
  - 單一檢索框,檢索功能簡單
  - 根據簡歷、著作及追蹤情形推薦 著作及工作
- 合作互動
  - 可發問、參與討論
  - 可推薦、分享、回應著作
  - 可私訊
- 追蹤使用
  - 提供G Score整合瀏覽、引用次 數統計

#### 註冊開啟個人帳號



Join 16+ million researchers, including 79 Nobel Laureates

What type of researcher are you?



#### Academic or student

University students and faculty, institute members, and independent researchers



#### Corporate, government, or NGO

Technology or product developers, R&D specialists, and government or NGO employees in scientific roles



#### Medical

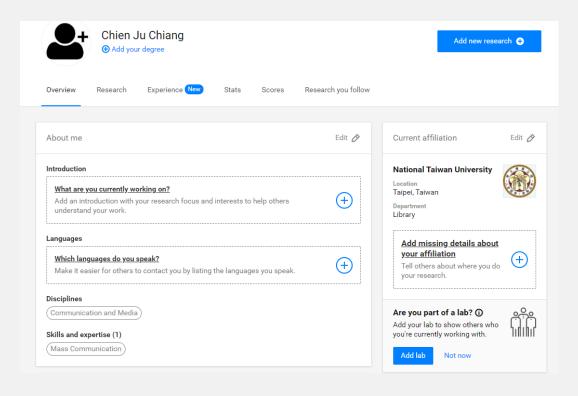
Health care professionals, including clinical researchers

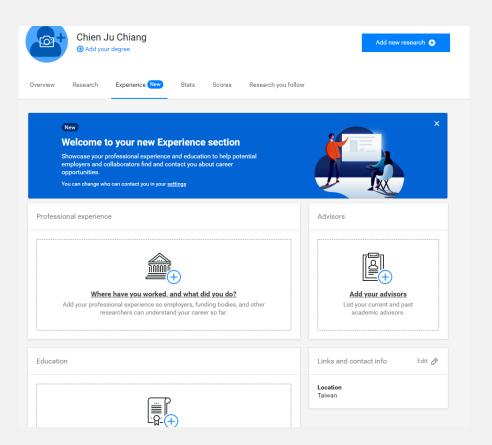


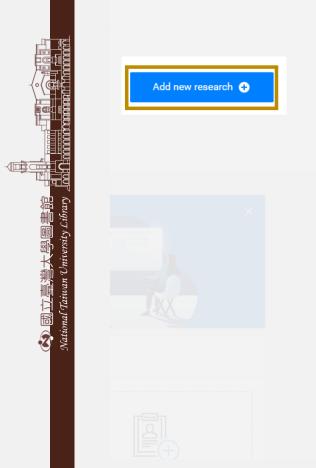
#### Not a researcher

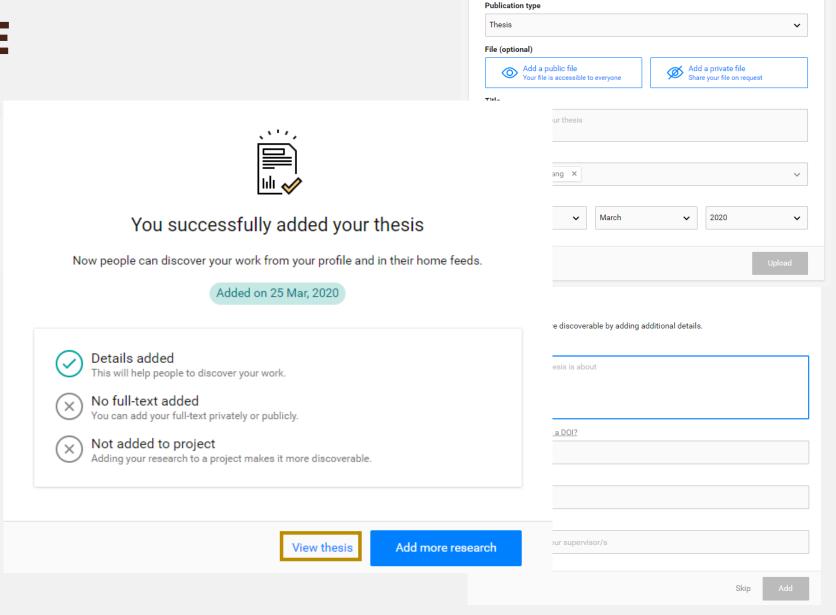
Journalists, citizen scientists, or anyone interested in reading and discovering research

### 完成個人簡歷資訊填寫

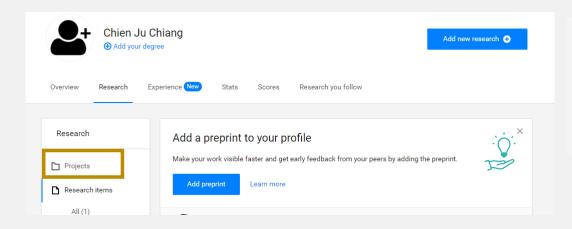


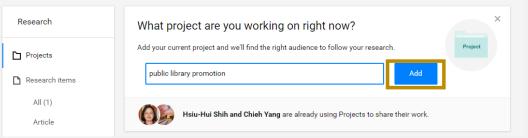






#### 建立專案聚集著作





Archived project public library promotion				Updates Recommendations	0 new 0	
Chien Ju Chiang Goal: promote public library services				Followers Reads ①	0 new 0	
Overview	Project log	References	Questions	Add research Add upda	ate	

#### 著作清單

Investigating the Effectiveness of Public Relations Established by Public Libraries in Taiwan Based on Quantitative Research Methods: a Case Study of Taipei Public Library and Taichung Public Library

Thesis January 2019

Chien Ju Chiang

Add full-text Add to project Add supplementary resources

#### Add your full-text for: THESIS · Investigating the Effect Public libraries in Trium Roses

THESIS · Investigating the Effectiveness of Public Relations Established by Public Libraries in Taiwan Based on Quantitative Research Methods: a Case Study of Taipei Public Library and Taichung Public Library

#### Add full-text publicly

Add the full-text publicly to create visibility and make it available to everyone.

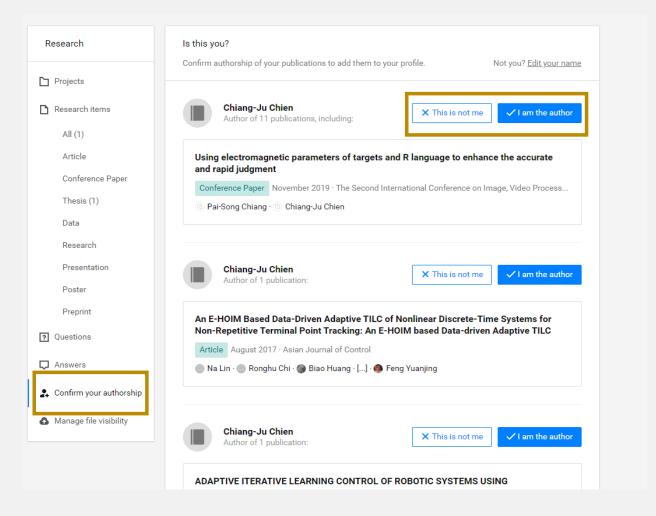
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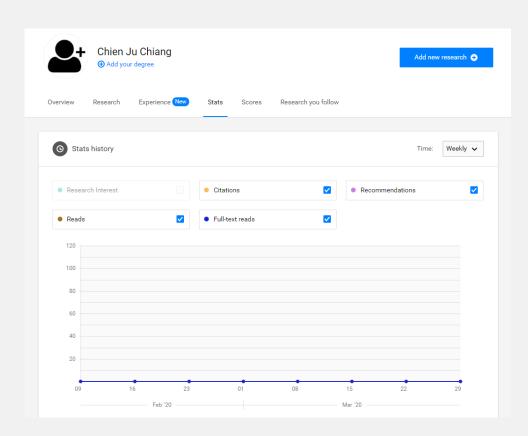
#### Store full-text privately

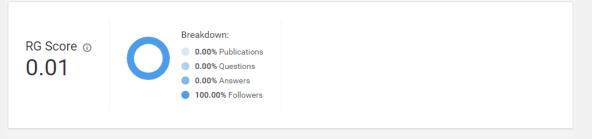
Store your full-text privately so you and your co-authors can access it from anywhere.

↑ Select and upload file

### 自動著作查詢與確認



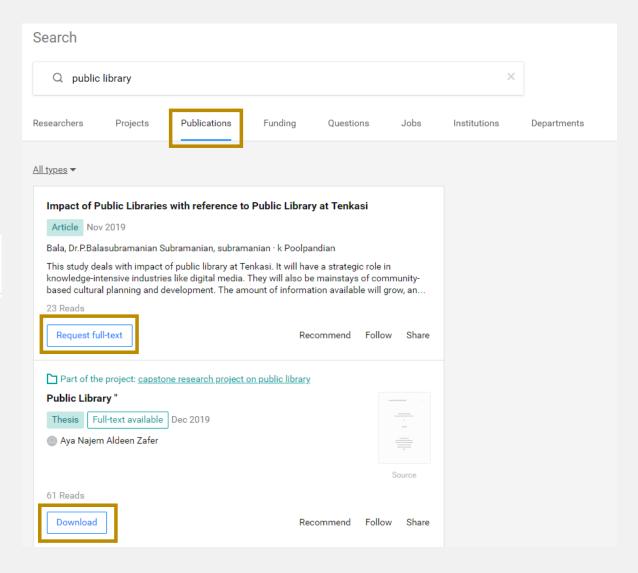




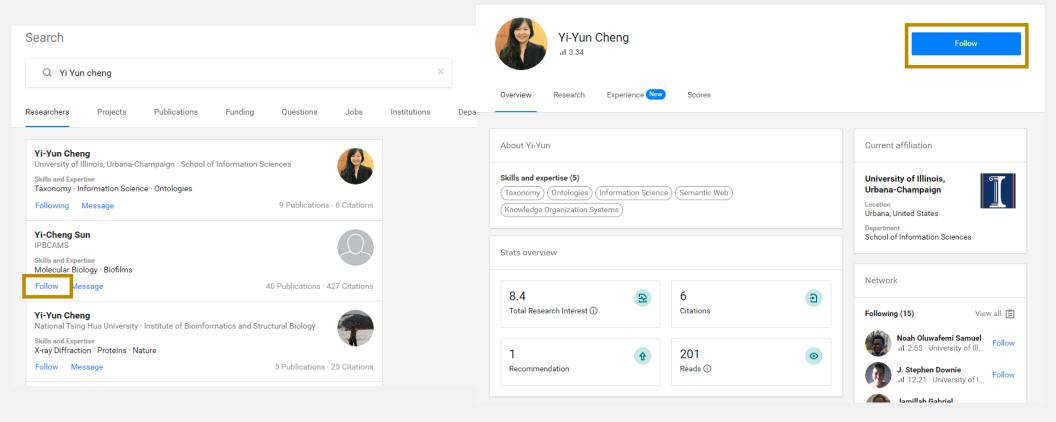
#### 檢索、取得全文

Search for researchers, publications, and more

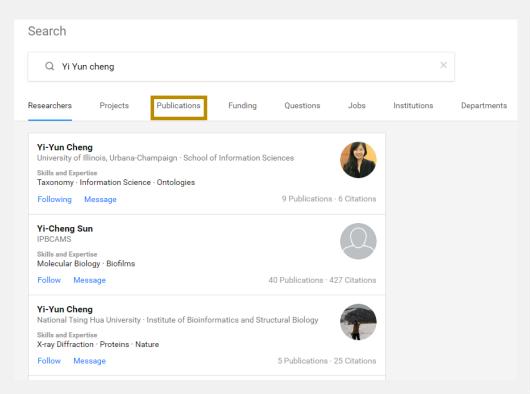
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### 追蹤他人、研究,掌握最新著作



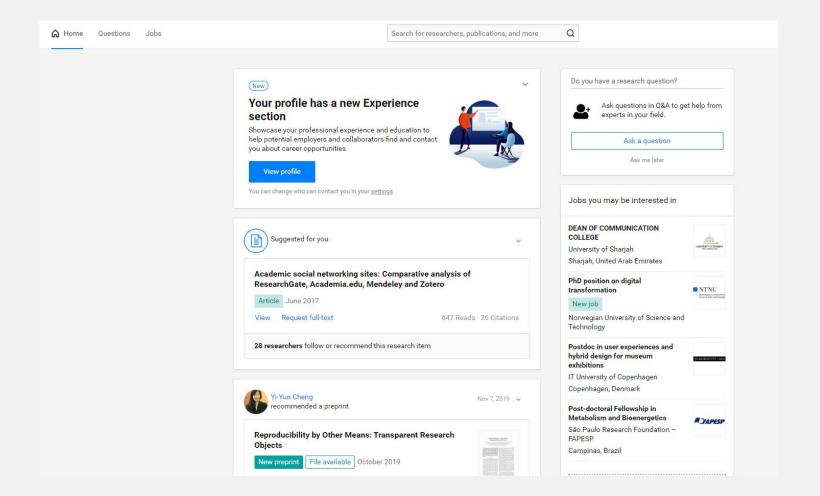
#### 追蹤他人、研究,掌握最新著作



Publications on National Libaries by M. B. Line						
Article Apr 2003						
Maurice B. Line						
3 Reads						
Request full-text	Recommend	Follow Share				
The New York Pub	lic Libary's Map Division goes to war, 1941-45					
Article Jan 1996						
A.C. Hudson						
division during World	the important contributions made by the New York Public War II. At the onset of World War II, the US government di or maps of many parts of the world. Large map collections	id not have an				
4 Reads · 1 Citation						
Request full-text	Recommend	Follow Share				

#### 追蹤他人,掌握最新著作

■ 個人首頁



#### Academia.edu

- 人文領域較廣泛使用之社群媒體, 功能與Research Gate相近
- 部分進階功能需付費使用 (Premium)
- 目前註冊率最高
- 建立數位識別
  - 完整檢歷
  - 可上傳個人CV
  - 可連結其他社群簡歷
- 推廣研究成果
  - 可上傳全文

- 資訊互惠,加速傳播
  - 可追蹤關鍵字標籤、人、機構
  - 單一檢索框,檢索功能簡單
  - 根據追蹤情形推薦著作
- 合作互動
  - 可分享著作
  - 可私訊其他使用者
- 追蹤使用情形
  - 可追蹤簡易流量

#### 註冊開啟個人帳號

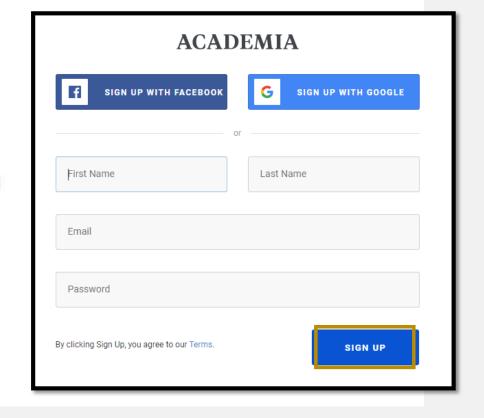
**ACADEMIA** 

LOG IN

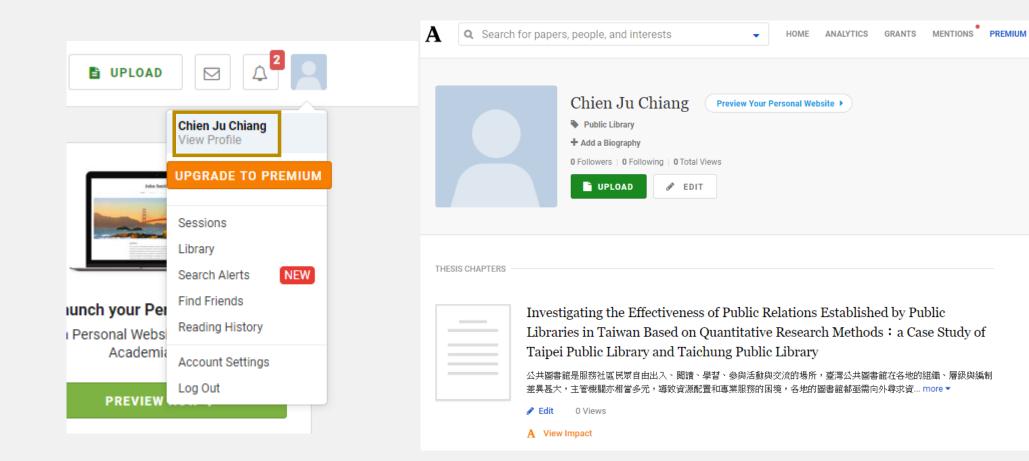
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Keep your

workflow

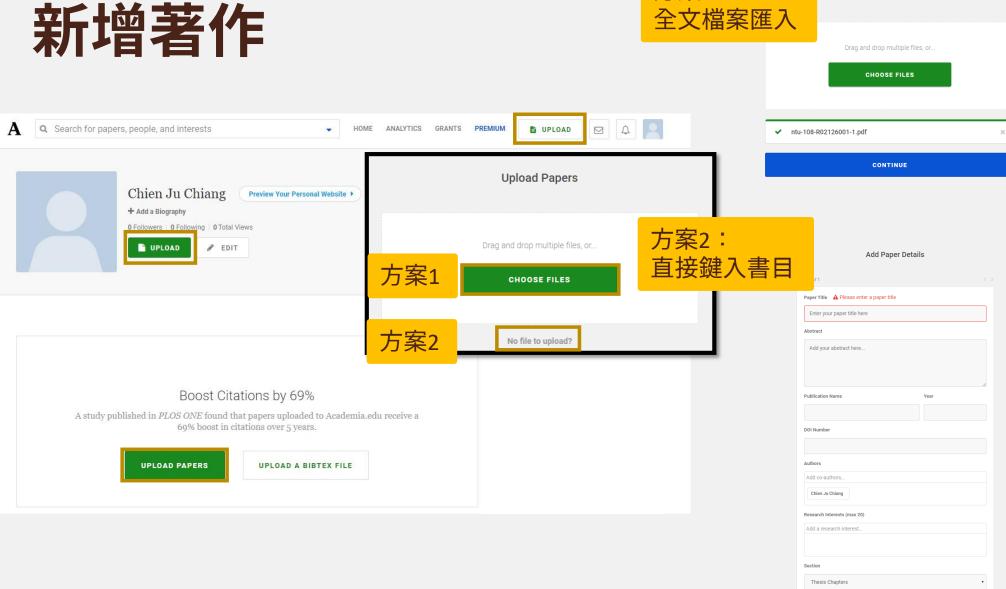
from

over.

spilling

#### Chien Ju Chiang Preview Your Personal Website > 編輯簡歷 + Add a Biography 0 Followers | 0 Following | 0 Total Views **UPLOAD ⊘** EDIT Name ■ UPLOAD Chien Ju Chiang Profile Picture Chien Ju Chiang Change your profile picture View Profile Affiliations **UPGRADE TO PREMIUM** Biography Sessions Contact Details to Academia.edu receive a Update your contact email, phone number, and address Library Search Alerts NEW **Social Profiles** STEX FILE Find Friends unch your Per AVE Research Interests Reading History Personal Websi Academia EDIT CURRICULUM VITAE Add, Remove, or Rearrange Papers & Sections Account Settings Log Out CV PREVIEW Upload or delete your CV UPLOAD Bibtex Add multiple papers using a bibtex file HELP CENTER

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方案1:

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### 著作清單



		tions Established by Publi ods: a Case Study of Tai	
Co-Authors			
Chien Ju Chiang			
4			<b>&gt;</b>
Publication Name			
Year	Volume	Issue	Page Numbers
2019 🔻			
DOI			
<b>DOI</b> 10.6342NTU2019002	17		
	17		

O Unique Visitors T Download O Views

Countries

Country 30-Day Visitors

Cities

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Universities

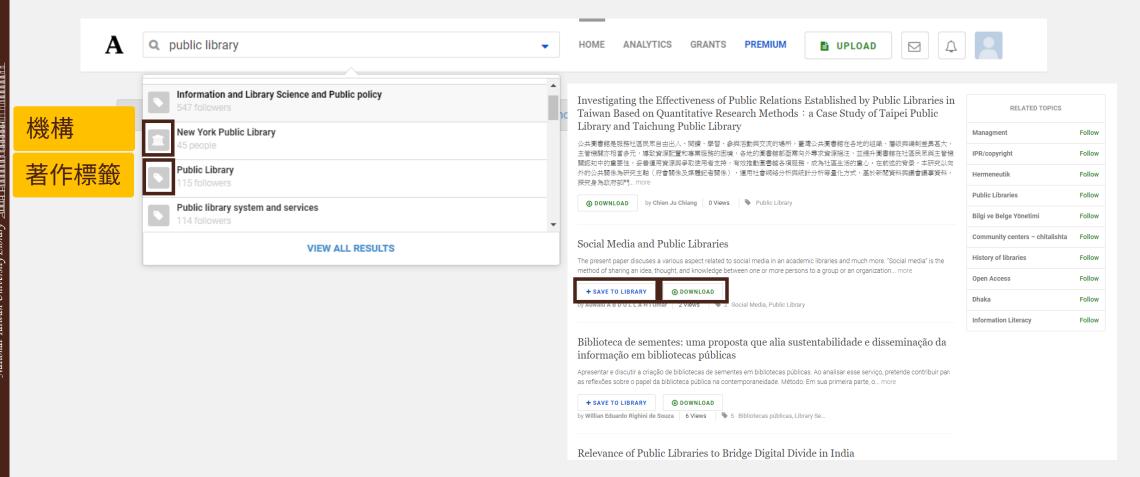
University 30-Day Visitors

NO DATA AVAILABLE

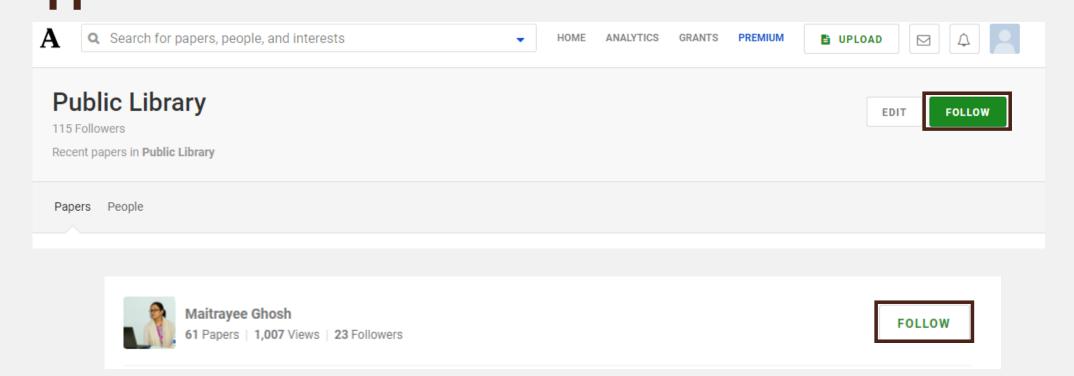
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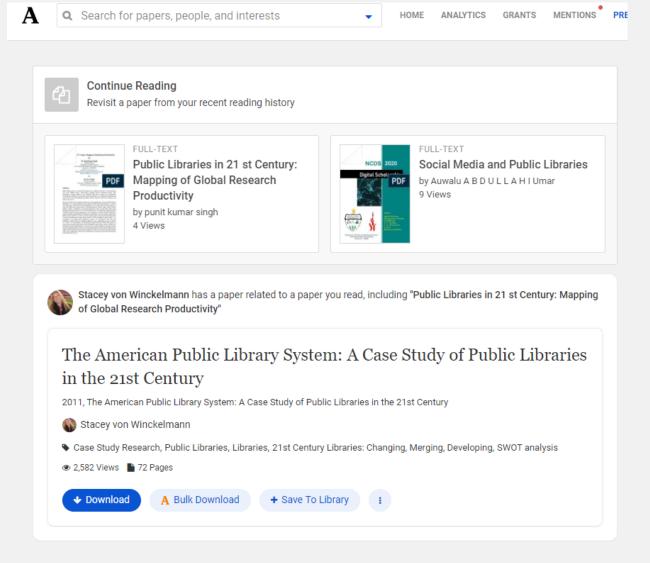
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# 追蹤人、關鍵字、機構,掌握最新著作

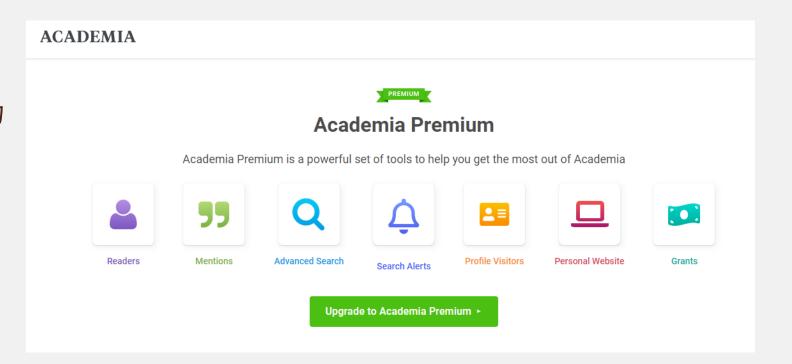


## 追蹤人、關鍵字、機構,掌握最新著



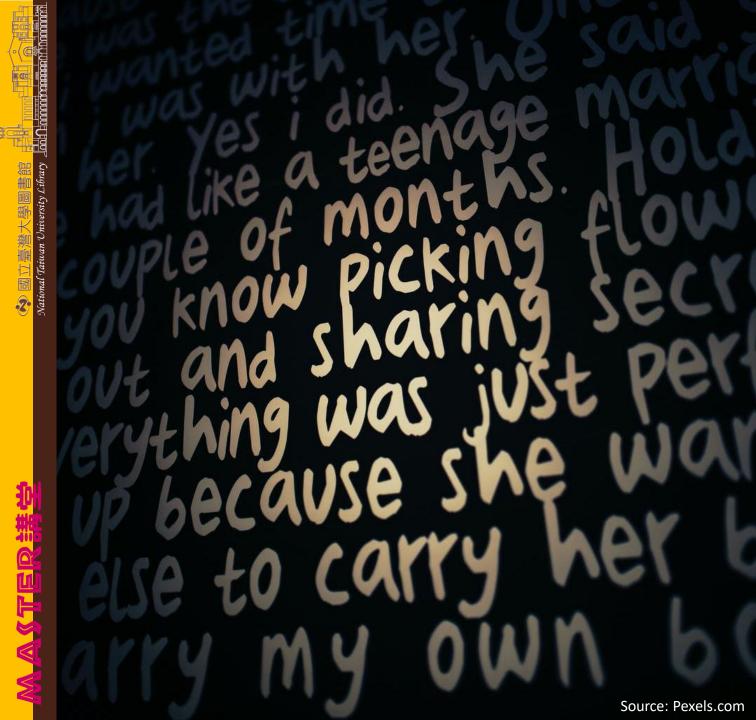
#### 付費升級Premiume功能

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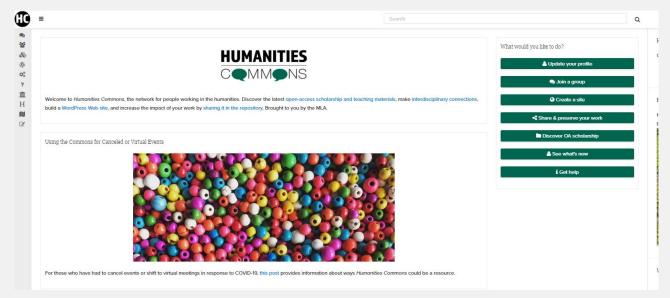
## 那些 學術社群

資源分享導向

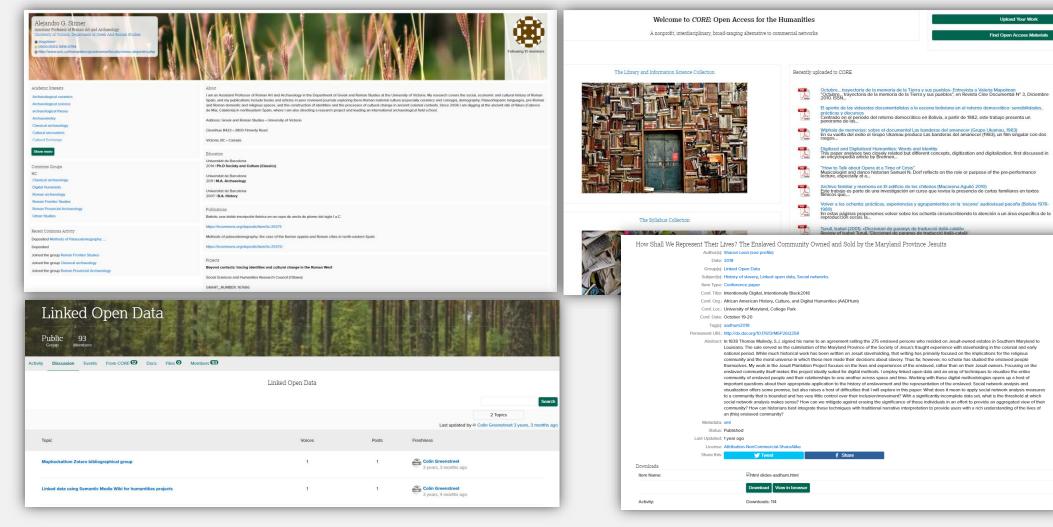


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- 人文學領域
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  - 上傳至平台之著作將有DOI,可 被引用、討論、典藏,具版權
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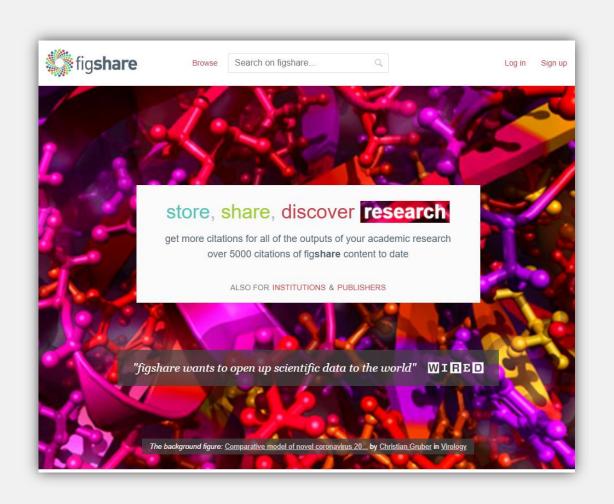


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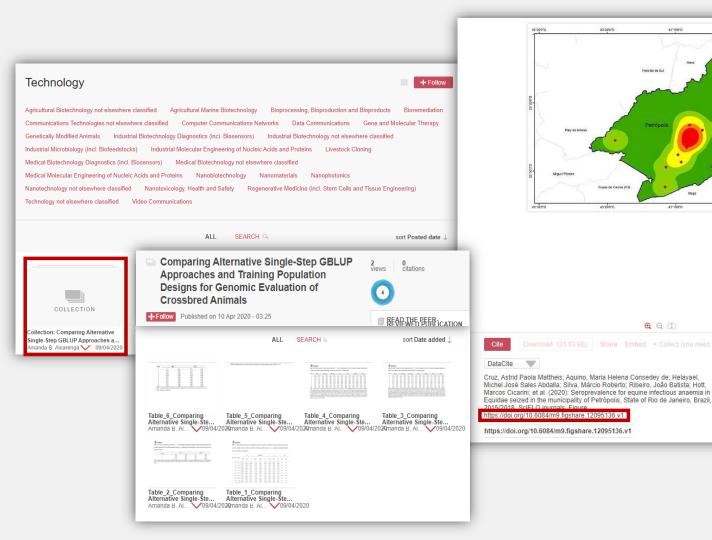


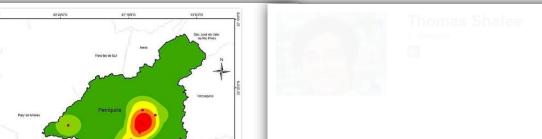
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- 資訊互惠,加速傳播:
  - 追蹤上傳者與上傳者蒐集之檔案集 (collection)
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## **Figshare**





Research: I'm a data scientist interested in analysis and visualisation of complex datasets. I have been using a variety of new approaches to represent and analyse protein sequence space. Through this I've studied origins of protein structures, evolution of new functions, evolvability, robustness, and convergent evolution as applied to standard globular proteins and enzymes, disulphide-rich peptides, and intrinsically disordered glygoproteins. Science communication: In addition to my research, I have an interest in scientific communication. I am part of a new wave of collaboration between academic publishers and Wikipedia, since it is typically the most read information source on any topic. I am a Front Section Editor for PLOS Genetics and an Editor-in-Chief of WikiJournal of Science, working to bring scientific content in Wikipedia up to academic standards. I also directly write for the encyclopedia, with articles I've written or overhauled having >30 million views per annum.



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**Publications** 

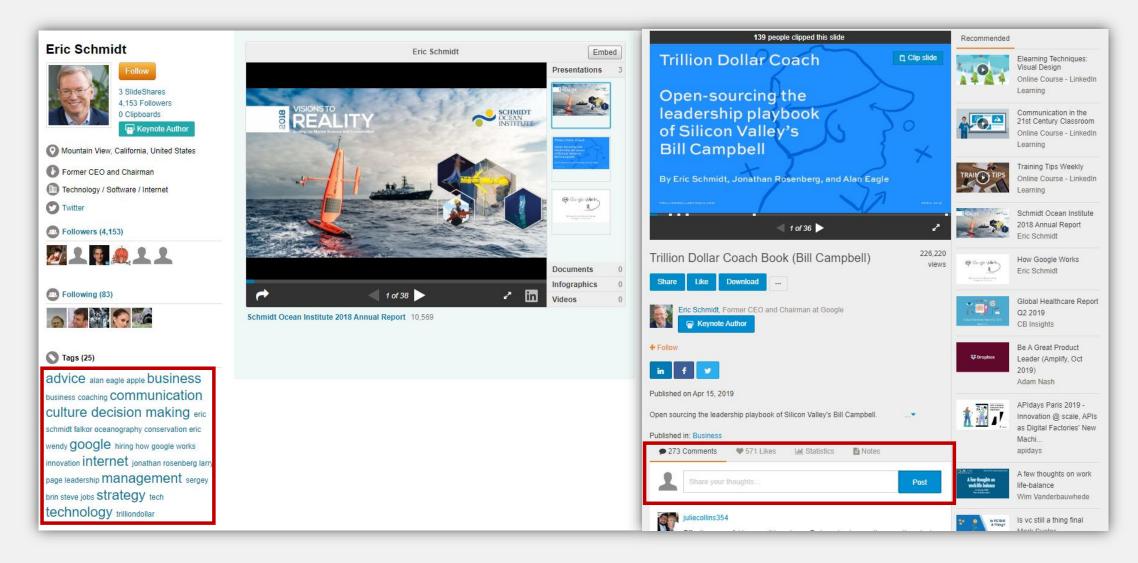
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- · https://tinyurl.com/AltMetric-TShafee
- · https://tinyurl.com/Publons-TShafee
- · https://wikipedia.org/wiki/User:TShafee

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  - 連結其他社群網站
  - 呈現上傳影片關鍵字
  - 追蹤者數量
- 合作互動:可分享、回應簡報內容
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#### Linked in SlideShare



## 學術社群比較

	Mendeley	Google scholar	Research Gate	Academia.edu	Humanities Commons	Figshare	Linked in SlideShare
起源	書目管理 軟體	搜尋引擎	社群媒體	社群媒體	開放取用 典藏平台	開放取用典 藏平台	開放取用典 藏平台
建立 數位識別	有,完整 Scopus指標	有,簡易 引用指標	有,完整 引用指標	有,完整 CV 連結社群	有,完整	有,簡易 連結ORCID	有,簡易 關鍵字 連結社群
推廣 研究成果	有 Scopus匯入 全文、資料集	有 Google書目	有 自動查詢著作 全文	有 全文	有 多類型 線上出版	有 多類型 線上出版	有 投影片
資訊互惠, 加速傳播	有 書目推薦 檢索功能完整	有 追蹤作者	有 追蹤專案、作者、 著作 推薦文章、工作、 贊助單位	有 追蹤標籤、作 者、機構	有 追蹤上傳者、 群組	有 追蹤上傳者、 主題	有 追蹤上傳者
追蹤 使用情形	有 引用指標	有 引用指標	有 RG Score	有 瀏覽次數	有 下載次數	有 Altmetrics 引用次數	有 觀看回饋次 數
合作互動	有	無	有	有	無	無	有

## 那些 社群媒體

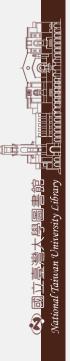
一般社群輔助宣傳

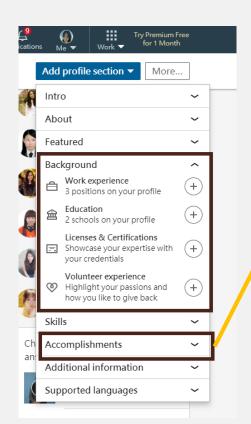


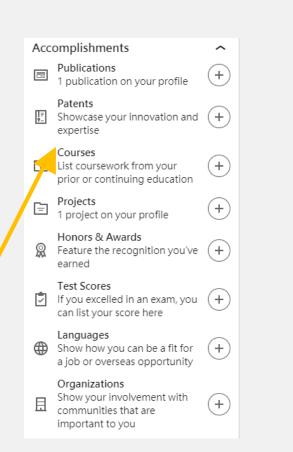
## Linked in Linked in

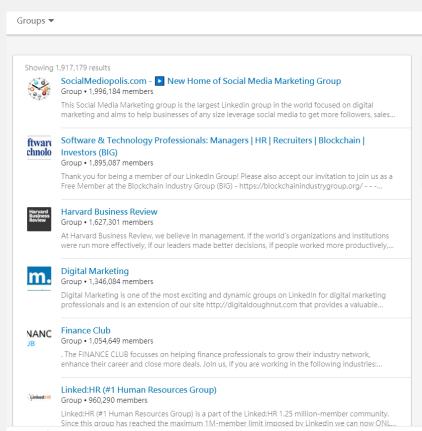
- 商業導向,個人、公司或團體用於拓展工作關係、尋找工作、分享新知等
- 學界用於於建立合作網絡、跨出學術圈尋找合作對象、尋找贊助機構
- 以行銷個"人"為主,發展為人才庫
- 簡歷可放入著作,並連結其他作者
- 經營方式:
  - 簡歷與照片建立專業形象,完整呈現學經歷、研究領域、重要著作、研究領域關 鍵字,有助於學術合作促成與快速磨合
  - 先連結已認識的同事、朋友,再參考推薦功能向外擴張交友圈
  - 追蹤專業領域團體、知名學者或特定議題標籤(不須連結)
  - 加入專業群組(group)

## Linked in Linked in









# Facebook/Instagram/Twitter 📑 🧿 😏







- 使用者流量極大之一般社群平台,供跨學術圈的連結並分享專業內容
- 增加個人、著作、學術活動等之曝光度
- 不強調簡歷建置,強調發文、留言與分享
- 發文內容除文字外可以照片、圖片、影片、動畫、音樂等直接呈現
- 個人帳號建置:方便辨識、樹立"學者、專家"角色
  - 帳號名稱不要過長但可以區辨,可加入"學者、教授、博士"等詞彙
  - 自述簡要,納入目前的研究興趣、單位、職稱,加入其他簡歷連結
  - 將最重要的推文置頂,近期著作、近期參與會議、近期成就等,延伸為簡歷資訊
  - 與個人所屬單位、研究興趣相關的顯圖,提高識別度

# Facebook/Instagram/Twitter 📑 🧿 🔰







#### 獲取學術、專業新知:

- 尋找領域相關期刊、機構專業與重要學者為追蹤對象
- 追蹤研討會、學術活動、領域議題的標籤

#### ■ 發文與推文:

- 保持個人發文的專業與學術性
- 針對政治議題推文時需謹慎或盡量避免
- 保持發文提供自己的專業觀點、最新學術活動或著作,著作資訊應包含DOI, 以便替代計量計算
- 分享他人的著作,並包含DOI
- 分享多人追蹤的領域相關單位、個人之發文

# Twitter/Facebook/Instagram

#### ■ 平台差異:



#### Facebook

- 方便建立及參與群組、活動、專頁進行討論追蹤動態
- 發文形式、內容多元無限制
- 強調追蹤與資訊獲取

#### - Twitter



- 強調快速資訊流,與大眾直接溝通
- 發文以短篇、分享為主
- 學術群組較多,強調學術訊息追蹤(使用list功能)
- 流量較低,應作為輔助

#### - Instagram



- 強調多媒體分享、方便檢索
- 可上傳較長影音
- 發文以圖片為主延伸內容
- 強調追蹤與互動

# 那些 社群媒體

文章發表



Source: Pexels.com

### **THE Conversation**

- https://theconversation.com/us
- 獨立媒體
- 由領域專家撰寫實事文章
- 開放取用
- 為跨國媒體(美國、英國、加拿大、西班牙、法國、全球觀點、印度、紐西蘭、 非洲)
- 可線上申請成為文章作者
  - 須為學術或研究單位之現任研究人員
  - 可為博士候選人

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Please identify your current institution.

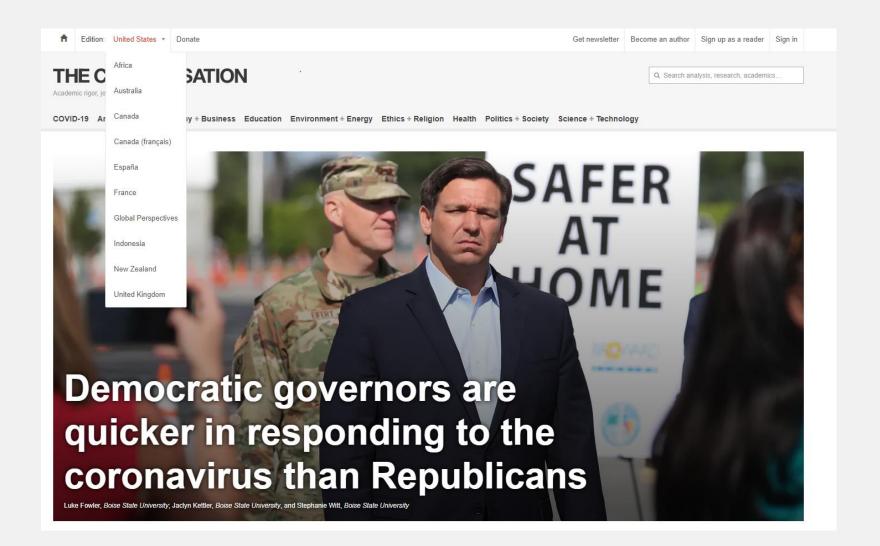
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Tell us a bit about your formal qualifications.

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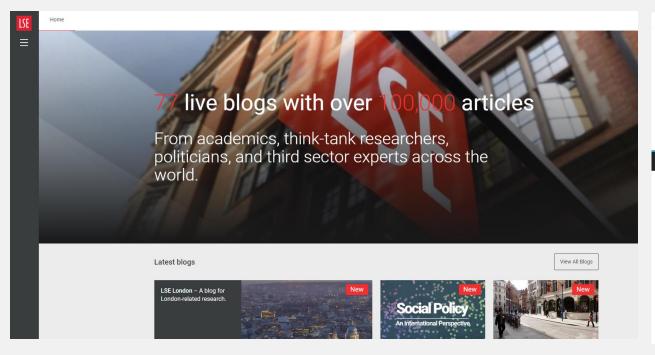
### **THE Conversation**



## 建立個人主題網站、部落格

- 分享個人較長篇的想法,如線上的期刊文章或日記
- 分享研究專長給他人,包含學術界以外之大眾
- 作為學術出版的延伸:分享會議發表、課程內容、最新出版概述
- 分享社會議題的觀察與看法
- 邀請領域學者投稿
- 追蹤新知並參與討論
- 建議平台:
  - Linked in(可被google索引)
  - Blogger
  - Wordpress







# 學術社群 之外的 行銷選擇

開放取用典藏平台



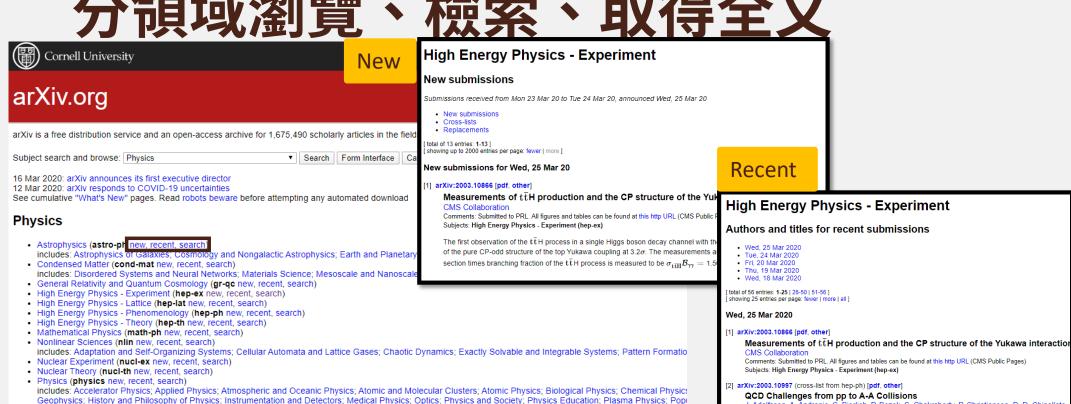
# 學術社群V.S典藏平台

	學術社群	典藏平台		
主要目的	連結	永久典藏、開放取用		
經營模式	營利	非營利		
經營機構	商業團體	學校、圖書館、政府機構		
商業模式	有(廣告、徵才、資料)	無		
資料取得	積極詢問	鼓勵響應		
資料長期 保存	無	有		
平台資料 輸出應用	無	引用、多元格式匯出		
提升能見 度效果	主動宣傳、部分開放全文	提供檢索、開放全文		
共同功能	自我行銷、增加能見度			

# Arxiv.org

- 由美國康乃爾大學推出
- 運用於工程、數學、理學、計算機、生物等領域
- 以典藏為主要功能
- 供學者間取得最新預印本全文
- 供檢視後修改,可再傳更新版

分領域瀏覽	•	檢索、耳	仅得全文
all University		High Energy Physics - Experir	ment



#### **Mathematics**

 Mathematics (math new, recent, search) includes (see detailed description): Algebraic Geometry; Algebraic Topology; Analysis of PDEs; Cate General Topology; Geometric Topology; Group Theory; History and Overview; Information Theory; K. Representation Theory; Rings and Algebras; Spectral Theory; Statistics Theory; Symplectic Geometry

#### Computer Science

· Quantum Physics (quant-ph new, recent, search)

. Computing Research Repository (CoRR new, recent, search) includes (see detailed description). Artificial Intelligence; Computation and Language; Computational Society, Cryptography and Security, Data Structures and Algorithms, Databases, Digital Libraries, Dis Human-Computer Interaction; Information Retrieval; Information Theory; Logic in Computer Science; Wacrime Le Systems; Other Computer Science; Performance; Programming Languages; Robotics; Social and Information Networks; Software Engineering; Sound; Symbolic Compu

#### Search

#### QCD Challenges from pp to A-A Collisions

J. Adolfsson, A. Andronic, C. Bierlich, P. Bozek, S. Chakraborty, P. Christiansen, D. D. Chinellato A. Oskarsson, I. Otterlund, G. Paić, D. V. Perepelitsa, C. Plumberg, R. Preghenella, R. Rapp, C

Comments: 22 pages, 10 figures, write-up of third International Workshop on QCD Challenges from pp to A-A Subjects: High Energy Physics - Phenomenology (hep-ph); High Energy Physics - Experiment (hep-ex); Nuclear I

Searching in archive hep-ex. Search in all archives.

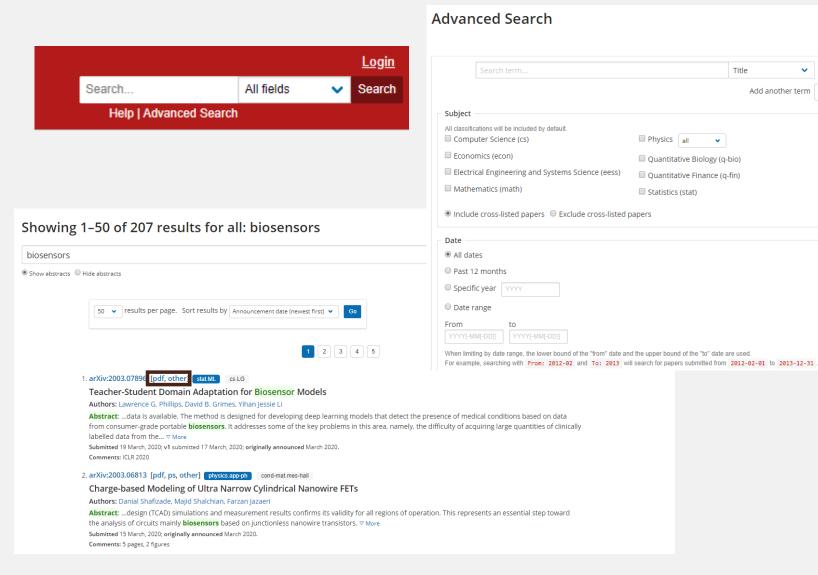
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All fields



Advanced Search

# 檢索、取得全文



Search v0.5.6 released 2020-02-24 Feedback?

Simple Search

#### **Searching by Author Name**

- . Using the Author(s) field produces best results for author name searches.
- · For the most precise name search, follow surname(s), forename(s) or surname(s), initial(s) pattern: example Hawking, S or Hawking, Stephen
- For best results on multiple author names, separate individuals with a; (semicolon). Example: Jin, DS; Ye, J
- · Author names enclosed in quotes will return only exact matches. For example, "Stephen Hawking" will not return matches for Stephen W. Hawking.
- · Diacritic character variants are automatically searched in the Author(s) field.
- Queries with no punctuation will treat each term independently.

#### Tips

Title

V

Add another term +

- . Use ? to replace a single character or \* to replace any number of characters.
- . Can be used in any field, but not in the first character position. See

### 文章顯示

Statistics > Machine Learning

#### **Teacher-Student Domain Adaptation for Biosensor Models**

Lawrence G. Phillips, David B. Grimes, Yihan Jessie Li

(Submitted on 17 Mar 2020 (v1), last revised 19 Mar 2020 (this version, v2))

We present an approach to domain adaptation, addressing the case where data from the source domain is abundant, labelled data from the target domain is limited or non-existent, and a small amount of paired source-target data is available. The method is designed for developing deep learning models that detect the presence of medical conditions based on data from consumer-grade portable biosensors. It addresses some of the key problems in this area, namely, the difficulty of acquiring large quantities of clinically labelled data from the biosensor, and the noise and ambiguity that can affect the clinical labels. The idea is to pre-train an expressive model on a large dataset of labelled recordings from a sensor modality for which data is abundant, and then to adapt the model's lower layers so that its predictions on the target modality are similar to the original model's on paired examples from the source modality. We show that the pre-trained model's predictions provide a substantially better learning signal than the clinician-provided labels, and that this teacher-student technique significantly outperforms both a naive application of supervised deep learning and a label-supervised version of domain adaptation on a synthetic dataset and in a real-world case study on sleep apnea. By reducing the volume of data required and obviating the need for labels, our approach should reduce the cost associated with developing high-performance deep learning models for biosensors.

Comments: ICLR 2020

Subjects: Machine Learning (stat.ML); Machine Learning (cs.LG)

Cite as: arXiv:2003.07896 [stat.ML]

(or arXiv:2003.07896v2 [stat.ML] for this version)

#### Bibliographic data

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E-mail address submitted with paper:

The CMS Collaboration <cms-publication-committee-chair@cern.ch>

Current e-mail address of submitter (may be more up-to-date):

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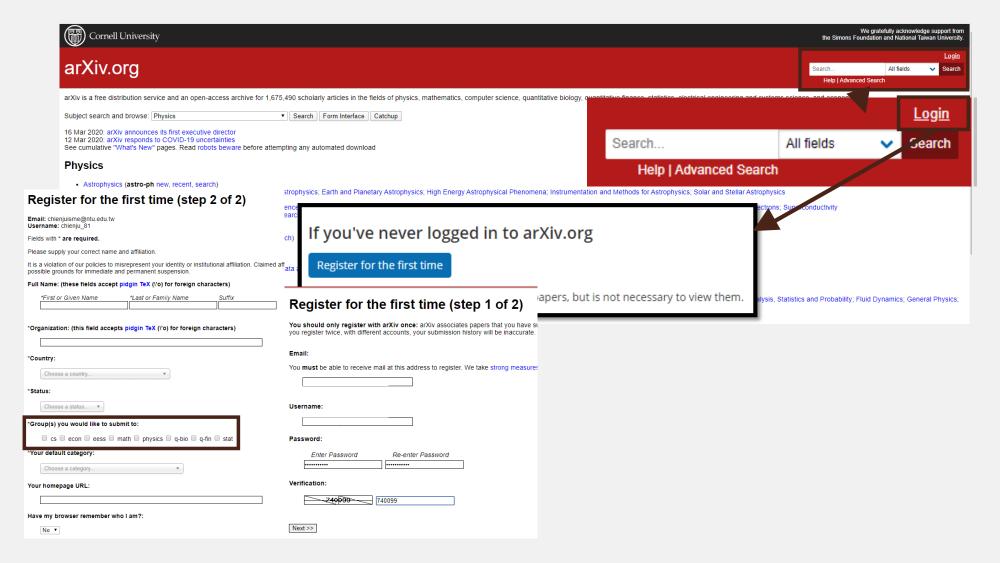
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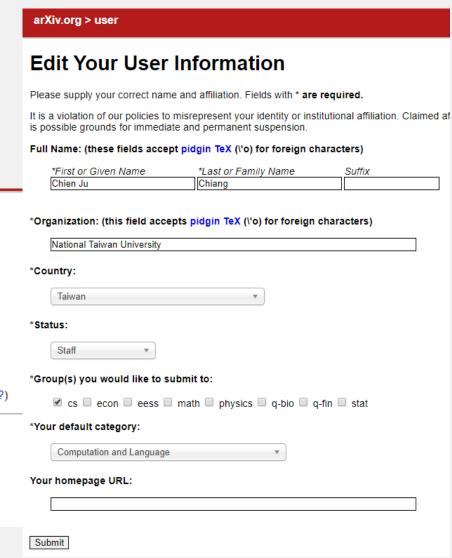
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E-mail: chienjuisme@ntu.edu.tw Affiliation: National Taiwan University

Name: Chien Ju Chiang URL:

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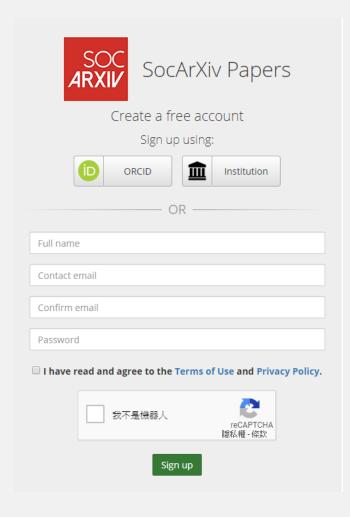
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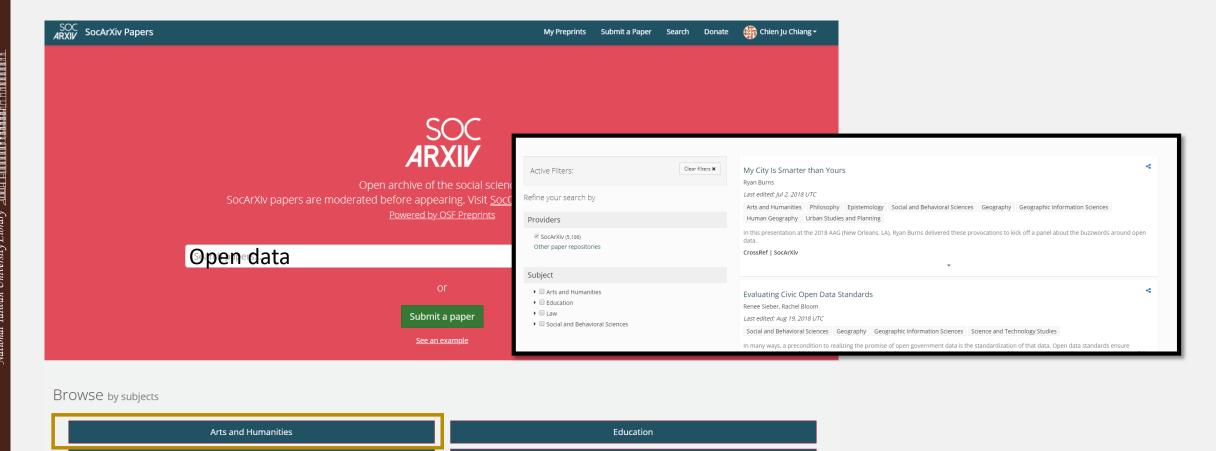
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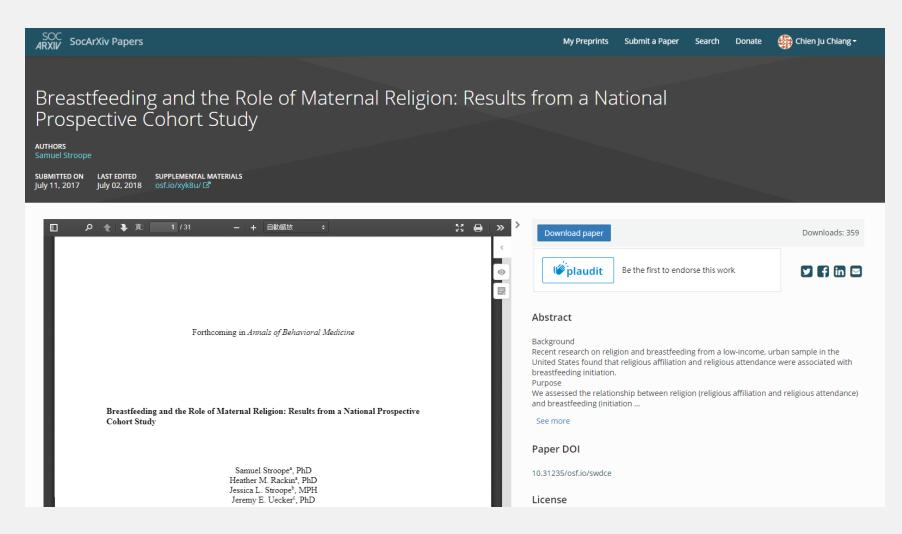
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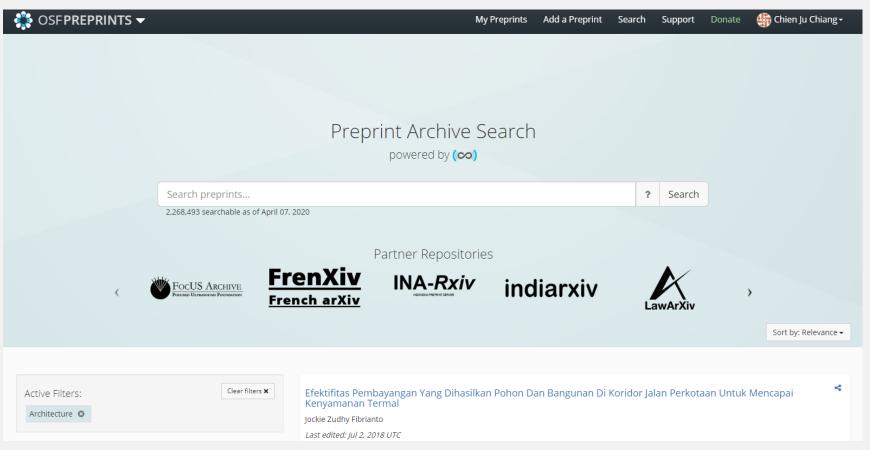
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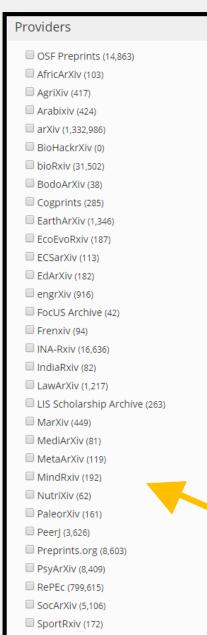
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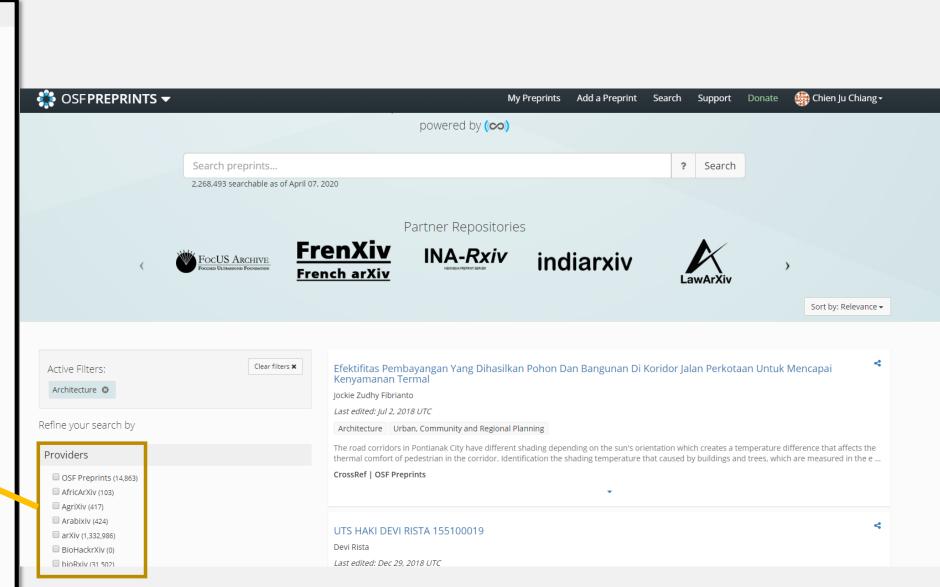
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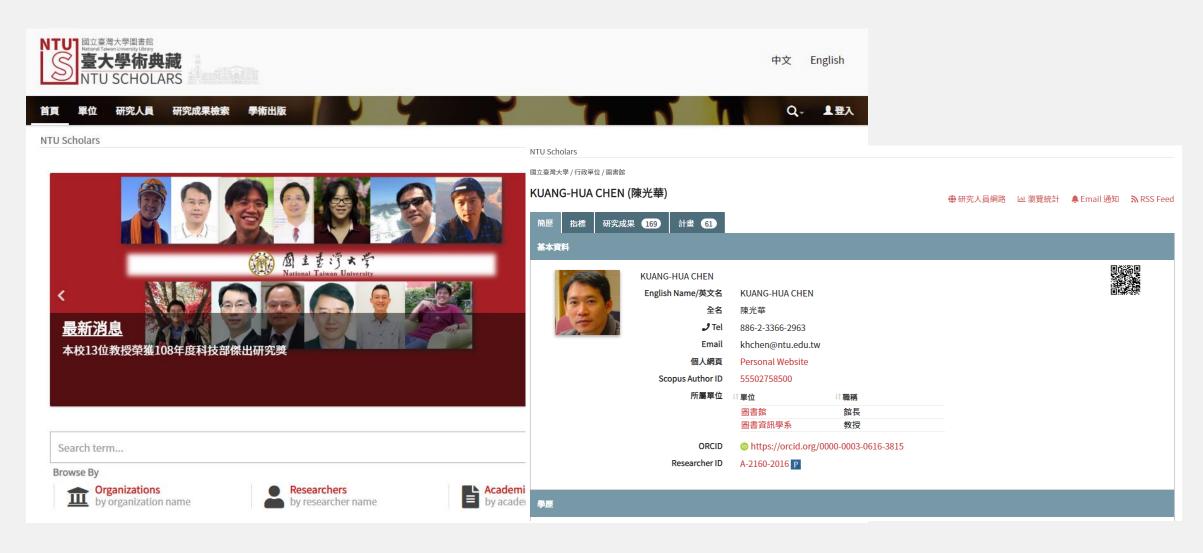




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# 臺大學術典藏NTU Scholars



# 如何 經營 學術社群



# 線上識別

- 維持識別一致性
  - 名稱
  - 圖片
- 申請數位識別碼:如ORCID
  - 幫助快速識別著作
  - 提升影響力指標準確度







# 經營攻略

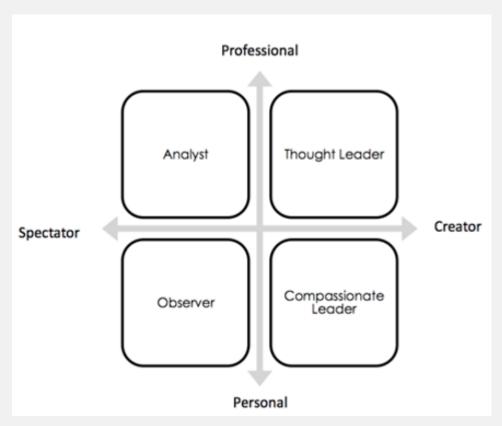
- 展現自己
  - 樹立專業形象
  - 依社群媒體的主要功能建立並維護完整、正確的簡歷(CV、成就、學術活動)
  - 依社群 現象文字 Word is professional
  - 為自己下關鍵字,供檢索查詢
  - 定時維護更新
  - 及時回覆,海納百川
  - 善善用標籤功能
  - 提供全文

- 追蹤互動
  - 同儕、同事
  - 領域學術社群
  - 領域學術泰斗

- <del>一 等来相關初周一</del> - *領域相關文章、活動*
- 多元平台
  - 基本:Google Scholar Profile 、 LinkedIn profile 、ResearchGate profile
  - 建議:Twitter、Facebook

### 經營守則

- 正確真實
- 遵循規定(著作版權、所屬機構等)
- 維持形象
- 謹言慎行
- 保護隱私
- 應用Google alert、altmetrics、kudos等輔助功具,掌握社群媒體資訊的傳播與個人線上形象



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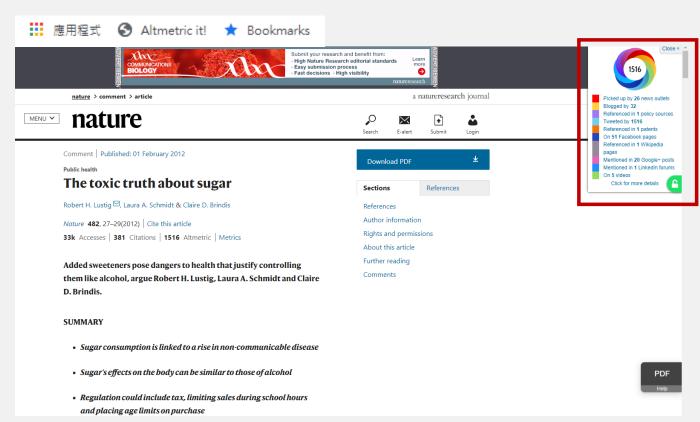
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# Altmetric (

- 追蹤研究引響力之工具
- 可追蹤以下平台的分享、點閱等次數
  - 公開政策文件
  - 主流媒體
  - 線上書目管理軟體
  - 維基百科
  - Open syllabus project
  - 專利
  - 部落格
  - 引用
  - 社群媒體
  - 其他網路平台



■ 運用免費Bookmarklet工具以DOI追蹤文章影響力(<a href="https://www.altmetric.com/products/free-tools/bookmarklet/">https://www.altmetric.com/products/free-tools/bookmarklet/</a>)

# 使用學術社群 之後…

分享全文的版權問題?



# 開放取用Open Access(OA)

- 為增進使用者資訊取得權益的社會運動,其透過數位化的作品發表形式,在網路平台上公開提供使用者取用,包含影音、圖像的CC創用倡議,即是 OA 的一種形式
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- 實踐OA的方式
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  - 綠色OA:自我典藏
    - 自行線上提供下載發表於傳統期刊之著作全文
    - 需遵循期刊之自我典藏規定

# 傳統期刊自我典藏規定

#### ■ 典藏形式:

- Pre-Print:未經同儕審查之投稿前草稿。
- Post-Print:已經同儕審查之出版前版本,尚未加入所投期刊之標示。
- Publishers version/PDF:已出版經排版並含有所投期刊標示之版本,通常以 PDF檔儲存。

#### ■ 規定類型:

- Green publisher/journal:允許出版後以特定形式自行典藏
- Gold publisher/journal:期刊本身採開放取用出版型式,並同意作者自行典藏。
- White publisher/journal:不同意任何開放取用授權。
- 出版社規定查詢:SHERPA RoMEO

### 避免版權爭議的方式

- 上傳全文前謹慎確認所發表刊物的自我典藏政策
- 建議將全文放在非營利組織的社群媒體或所屬單位的機構典藏網頁
  - 保有檔案控制權
  - 永久典藏
  - 集中計算下載瀏覽次數
- 以連結方式分享到社群媒體增加曝光

# 使用學術社群 之後···

什麼是替代計量?

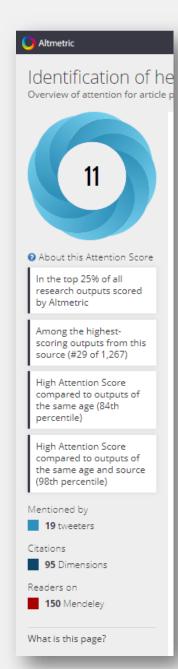


### 什麼是替代計量

- Altmetrics=alternative+metrics=All metrics (結合新舊指標)
- 除傳統引用次數計算外,另以社會網絡工具或開放取用平台瀏覽、分享、討論、評分、 擷取、下載次數計算為基礎的評鑑指標
- 評估來源可能延伸至新聞、公開政策等多元類型
- 希望超越僅計算出版品的傳統計量方式,反映更多元的學術產能及其影響情形
- 具以下特色: (蔡明月,2015)
  - 評估來源更加的多元與複雜
  - 涵蓋網路資訊行為的使用
  - 即時性的影響評估
- 用於供研究者追蹤著作被關注、使用情形,與其影響力,並逐漸被機構作為評鑑與偵測影響力之方式

### 替代計量工具

- Altmetric.com
  - 追蹤來源
- Plum Analytics: plum X metrics
  - 與資料庫、開放取用平台或社群 媒體合作提供數據
    - Scopus
    - EBSCOHost
    - Science Direct
    - SSRN
    - Mendeley

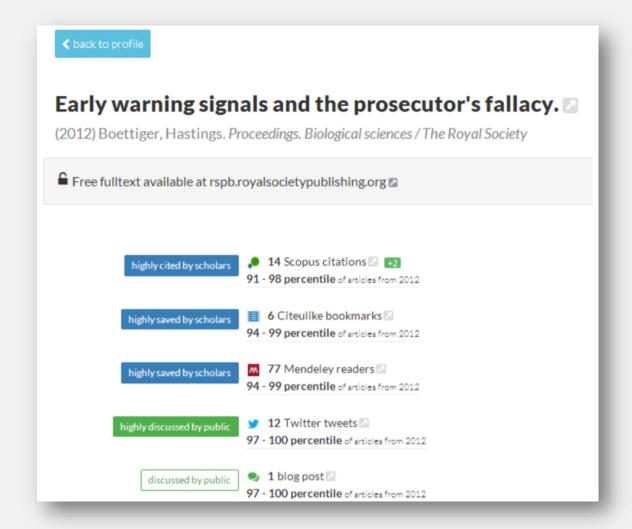




### 替代計量工具

#### ■ ImpactStory

- 非營利組織建立
- 具社群媒體建立線上識別及 推廣著作功能功能
- 提供研究者偵測個人線上影響力
- 需以Twitter建立個人帳號使用





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