

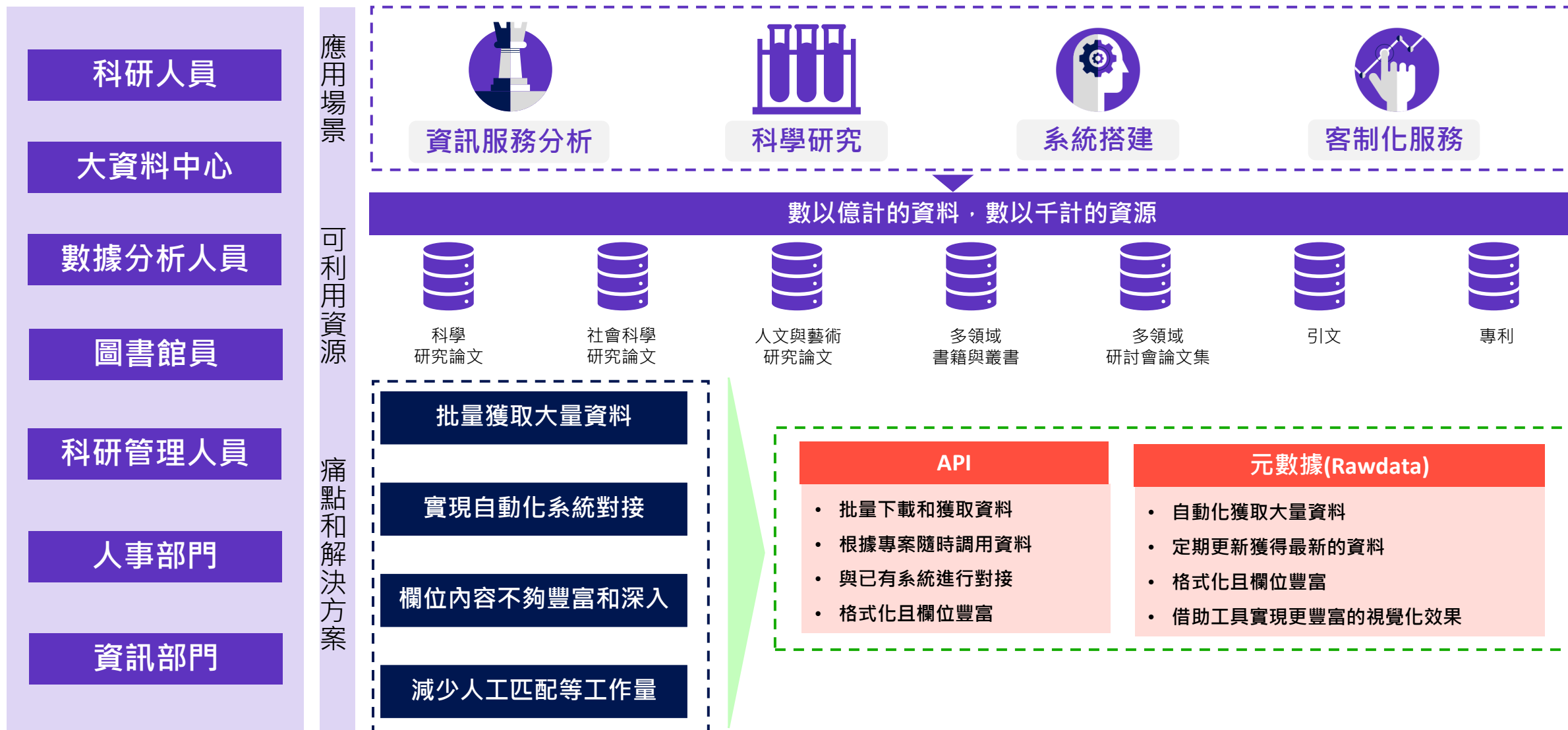
機構典藏促進學術交流與合作 藉由API/rawdata展現多元學術影響力



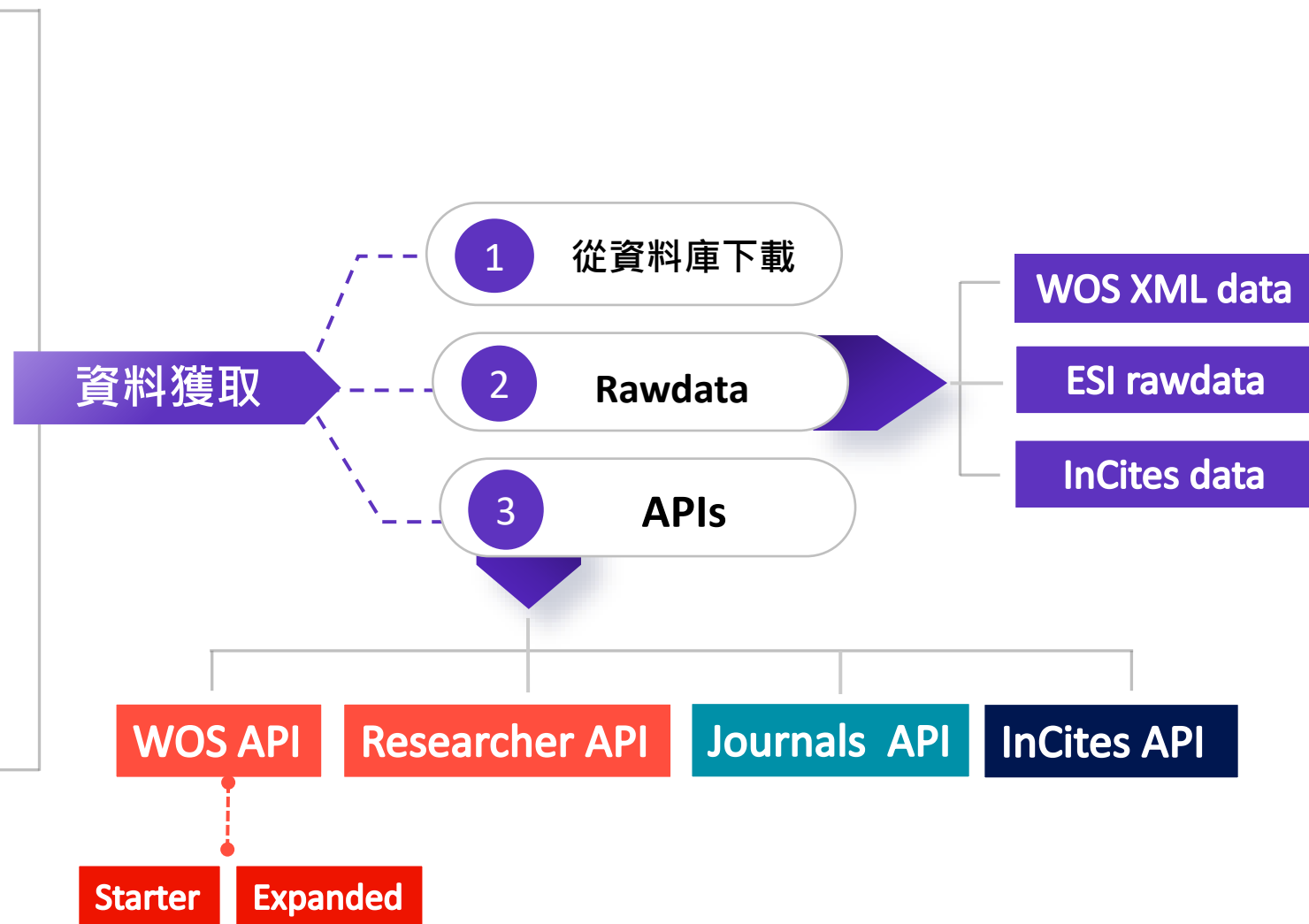
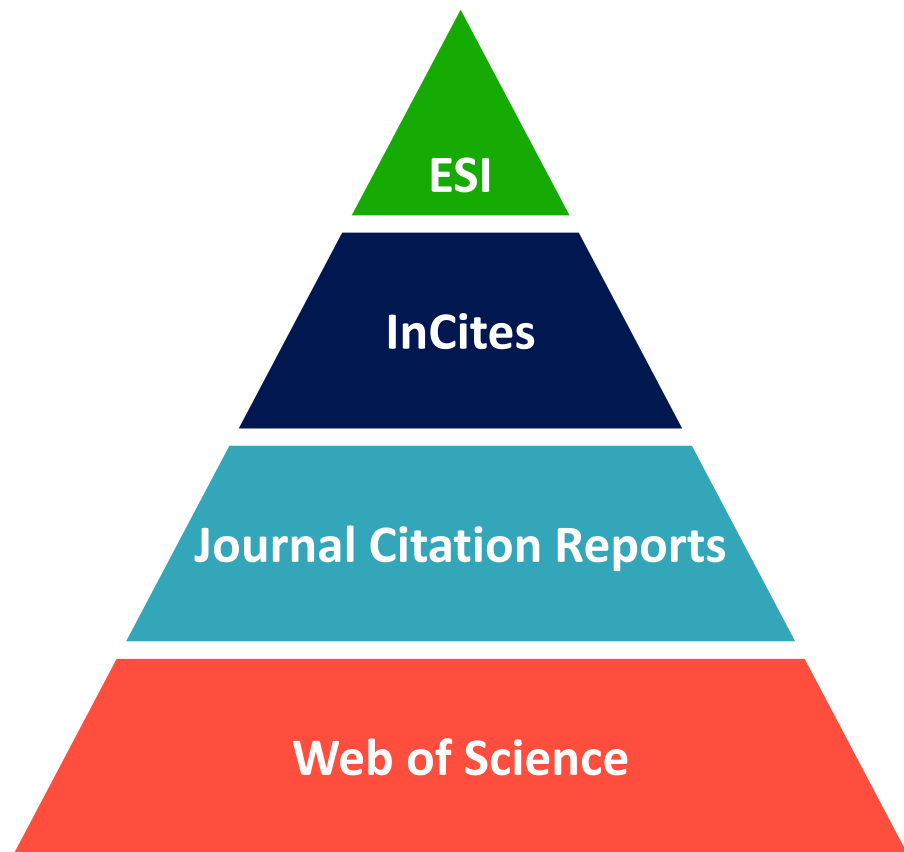
官欣瑩 Renee Guan
政府與學術解決方案資深顧問

2023.11.10

根據需求提供最適合的解決方案



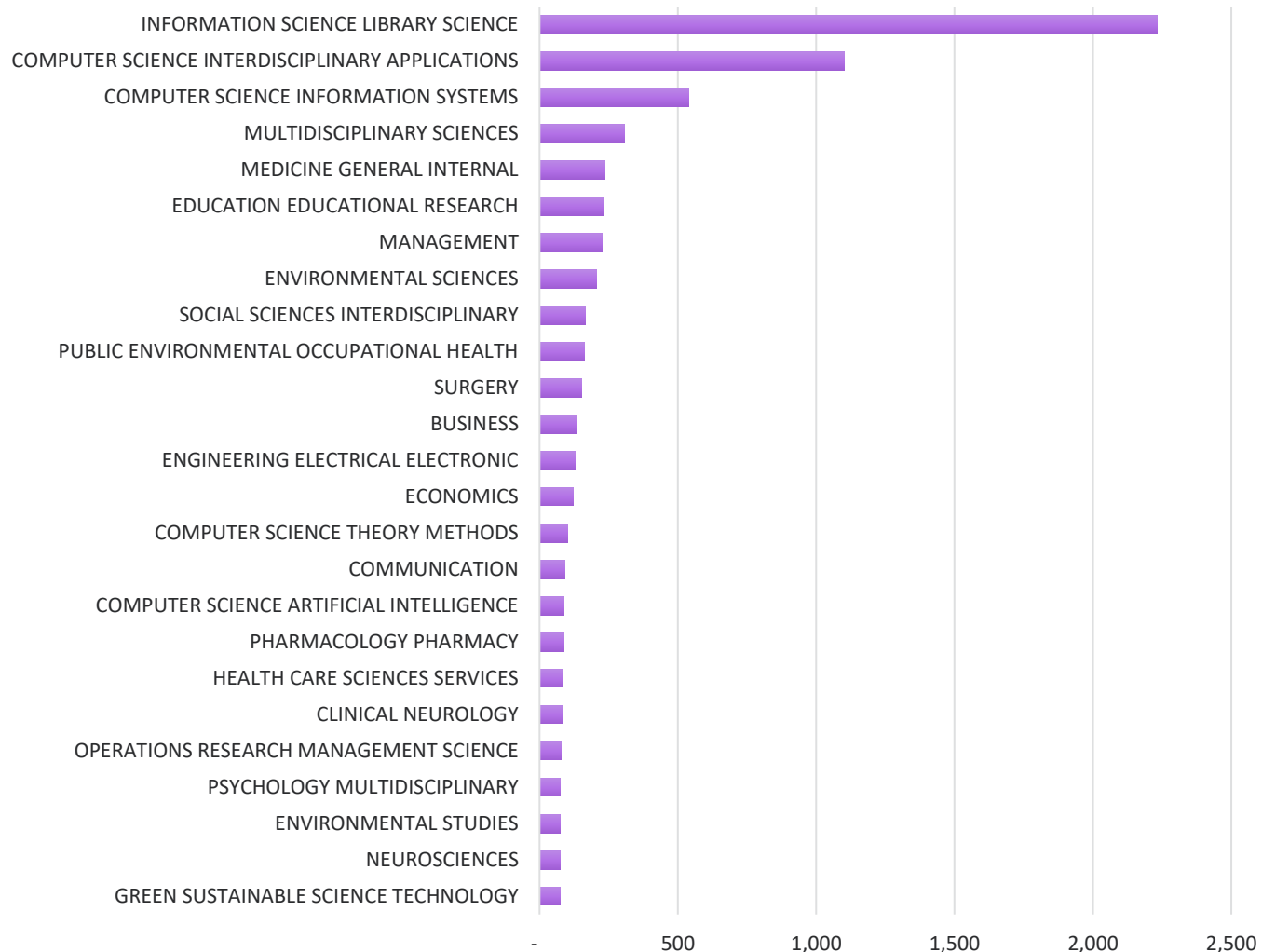
多元化的資料獲取途徑



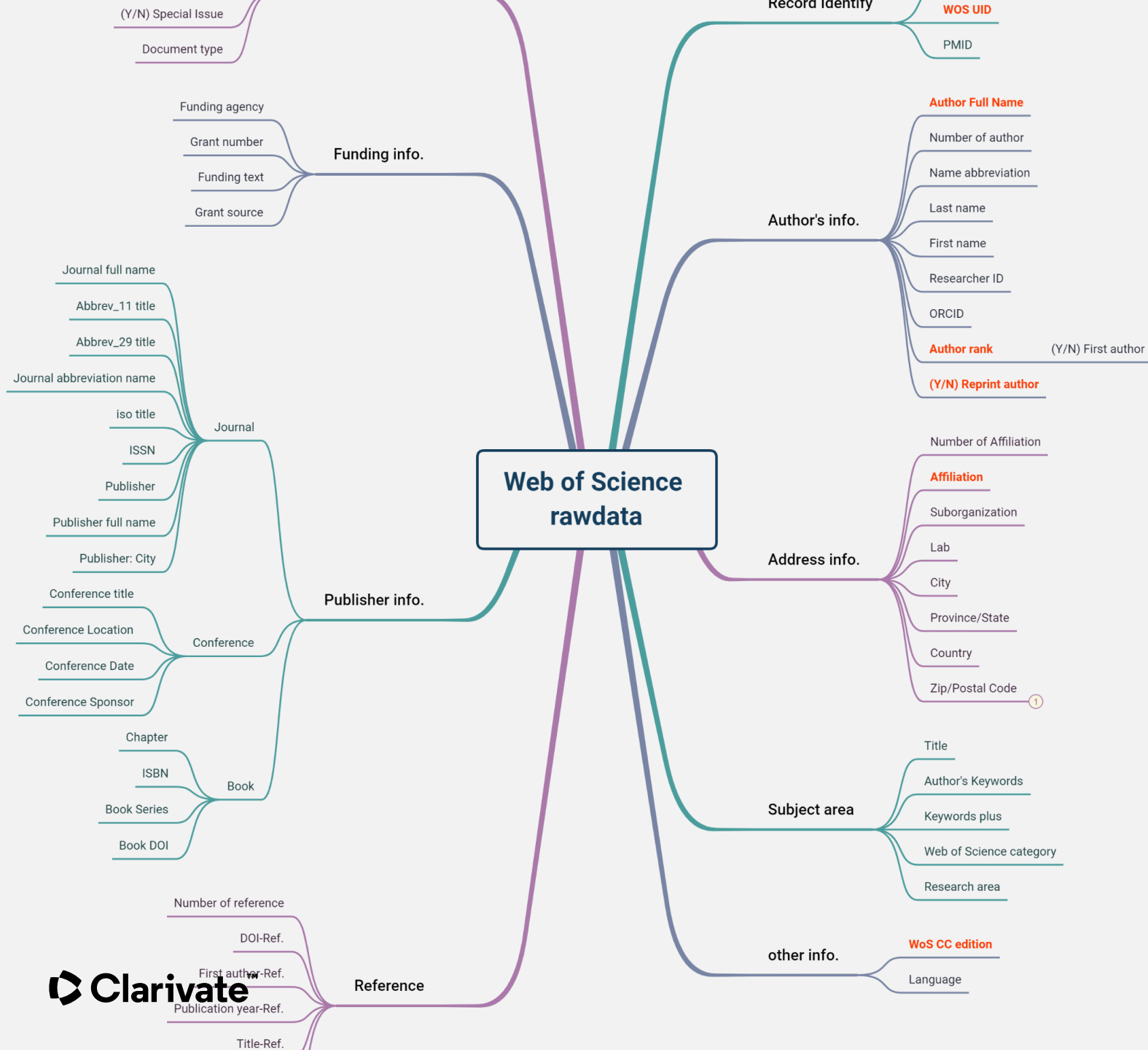


關於Raw Data

跨領域的大資料分析發展快速



- 科技的進步使得大規模網路分析越來越蓬勃
- 更多的研究者對於研究科學和創新領域的概覽分析產生興趣
- 大資料分析專案結合文獻計量資料與其他資料類型近年來也逐漸攀升。



120+

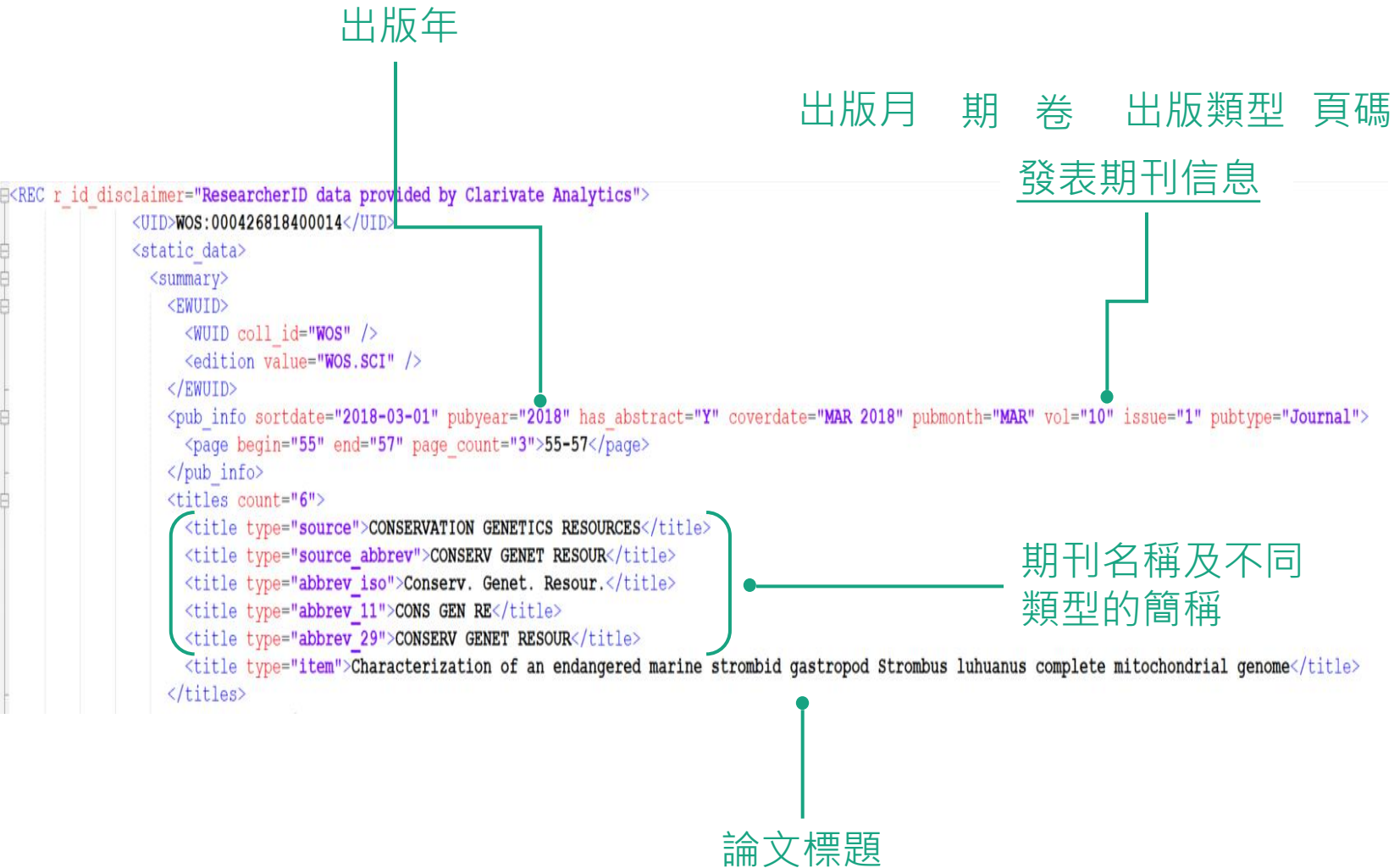
深度索引的XML數據

包含作者序、二級單位、資助基金、參考文獻等深度標引的資訊

深度索引的XML數據

通過變體歸併完整獲取機構的資訊

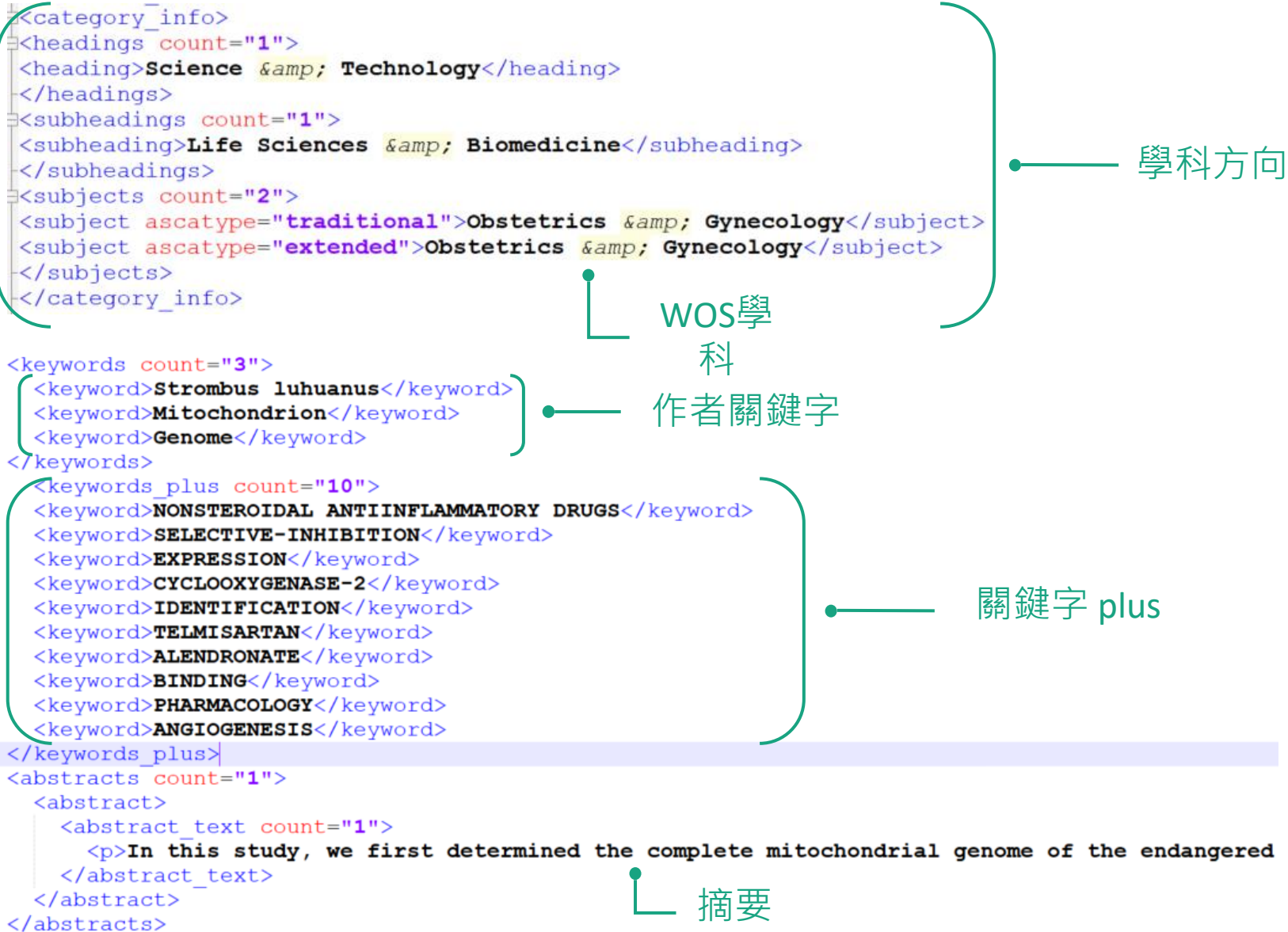
- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻



深度索引的XML數據

通過變體歸併完整獲取機構的資訊

- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻



第一作者

```
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  <name addr_no="1" role="author" seq_no="1" reprint="Y">
    <display_name>Shen, Xin</display_name>
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通訊作者

第二作者

第三作者

第四作者

深度索引的XML數據

第一作者和通訊作者標識

- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻

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人員ID

全稱

簡稱

姓名

Researcher ID

ORCID ID

深度索引的XML數據

人員歸併，包括全稱、簡稱，姓名

- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻

深度索引的XML數據

通過變體歸併完整獲取機構的資訊

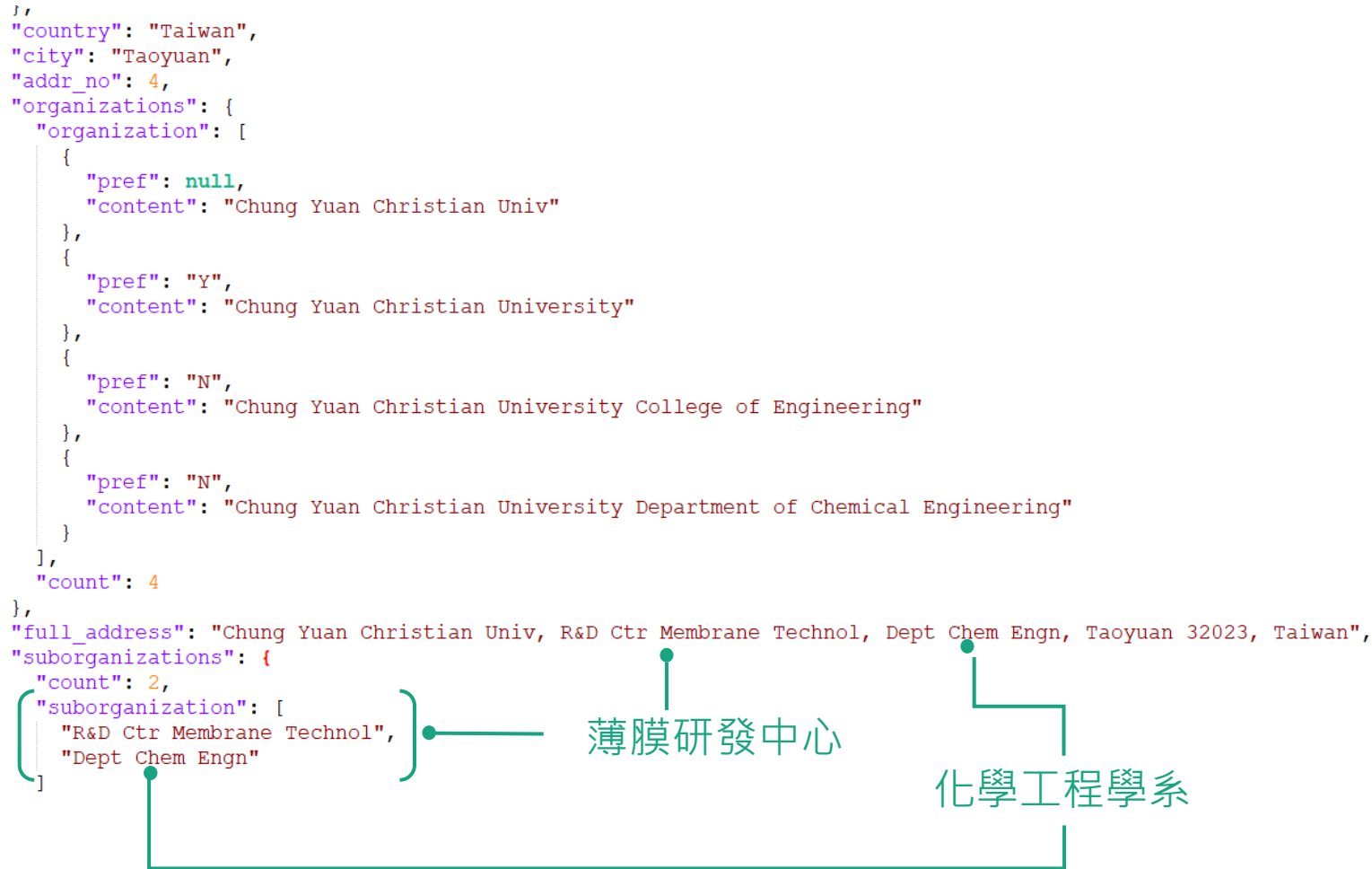
- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻

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國立臺灣大學

深度索引的XML數據

機構的二級單位-院系、研究所、實驗室等



- 出版資訊
- 研究主題
- 作者
- 地址 (作者和機構的匹配標識)
- 基金資助
- 參考文獻

深度索引的XML數據

基金資助機構與基金資助號

- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻

注：基金資訊來源（當基金資訊來源於外部資料時會標注，目前已包含的外部資料有NIH RePORTER, Federal RePORTER, KAKEN, National Science Foundation and Researchfish）和Medline資料庫）

基金資助機構名稱

受到9個基金資助

基金資助號

基金資訊來源

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  <p>This work was supported in part by the National Natural Science Foundation of China (Grants 61472205 and 81470839),
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深度索引的XML數據

參考文獻的深入標引

- 出版資訊
- 研究主題
- 作者
- 地址
- 基金資助
- 參考文獻

參考文獻的數量

參考文獻的論文識別字

參考文獻的第一位作者

參考文獻的出版資訊

參考文獻的
出版物名稱

參考文獻的DOI號

參考文獻的標題

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<citedAuthor>Paulson, JF</citedAuthor>
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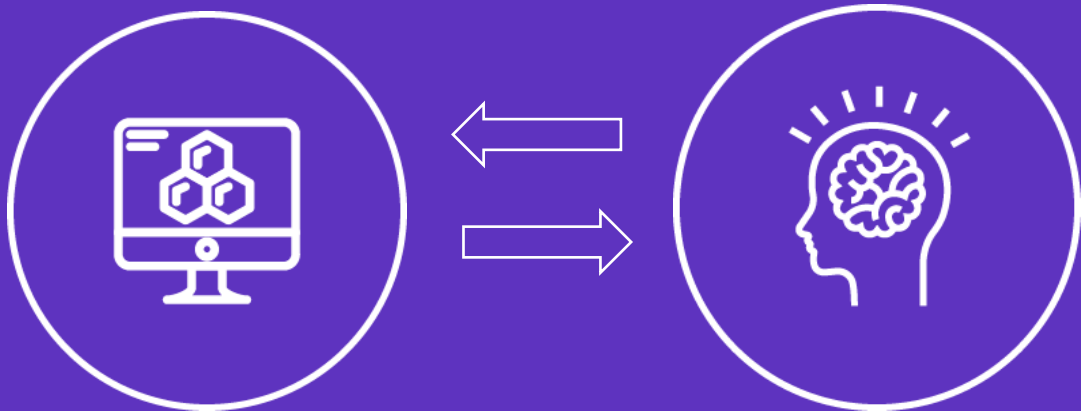
關於APIs

API與資料庫使用的不同

Web of Science 平臺的使用者介面

針對**人類大腦**設計的:

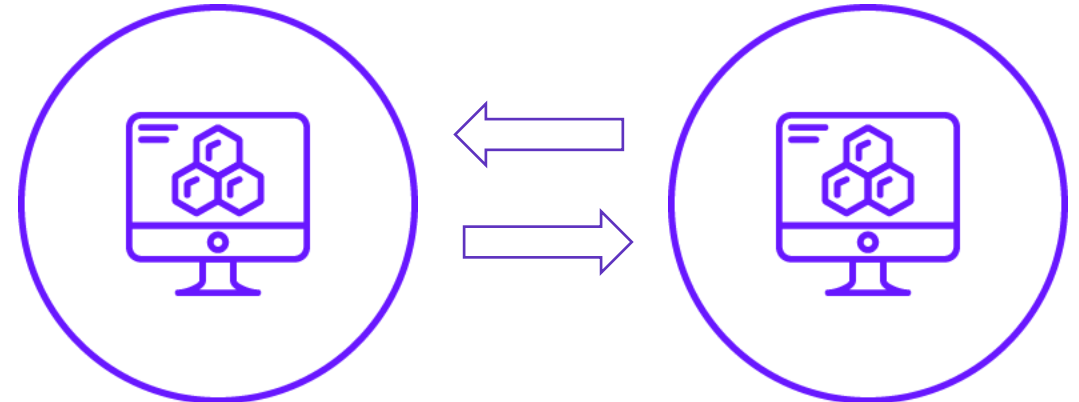
- 在Web of Science平臺上進行主題搜索
- 過濾搜索結果
- 選擇最相關的搜索結果
- 點進完整的記錄與全文並閱讀



API (Application Programming Interface)

透過**計算機運算**讓業務工作更高效:

- 例行性的計算
- 提取僅需資料欄位
- 將Web of Science資料與外部資料結合以進行進一步分析



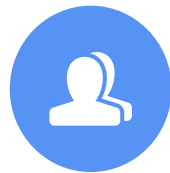
完整的API資料解決方案

Web of Science Expanded API



- 資料來源：**Web of Science**
- 文章層級
- 完整的文章題錄欄位
- 引用/機構/參考文獻/基金等120欄位數據

Researcher API



- 資料來源：**Web of Science**
- 作者層級
- 作者出版清單/同行評議記錄/H-index等信息

Journals API



- 資料來源：**Journal Citation Reports**
- 期刊層級
- 清晰的期刊基本資訊
- 期刊影響力指標資料

InCites API



- 資料來源：**InCites**
- 文章層級
- 多元的學科架構
- CNCI/JNCI/HCP等重要InCites文章指標

Web of Science SOAP API 下線計畫

REST APIs將接替SOAP APIs並提供更友好的串接服務

- 在您的工作流程中提高API性能
- 集成新的資料欄位，如擴展的資助方資料和豐富的引用資料，這些資料是REST APIs獨有
- 通過共用架構簡化使用多個Clarivate APIs的項目

下線API	接替Web of Science API
Article Match Retrieval (AMR)	Web of Science Stater API
Web of Science Lite (SOAP)	Web of Science Stater API
Web of Science Expanded (SOAP)	Web of Science Expanded (REST)

2023年
11月1日下線

API遷移有何影響與轉換？

誰會受到API遷移的影響？

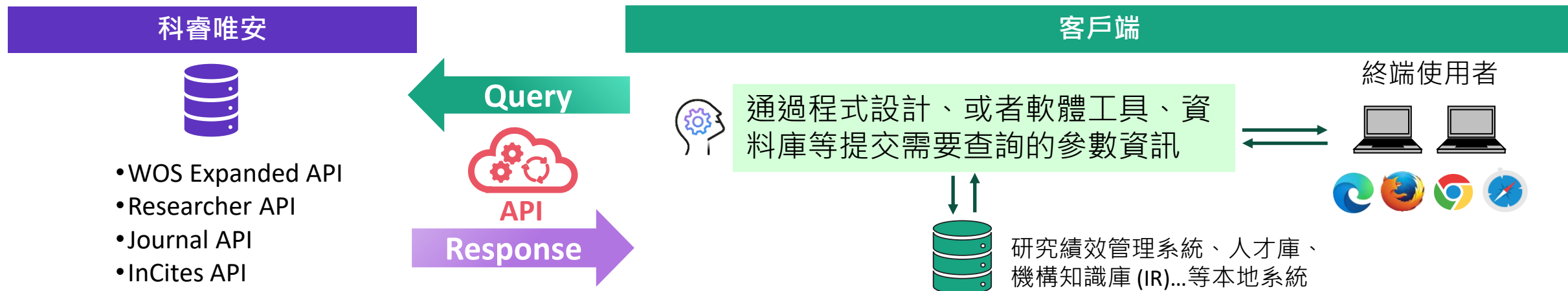
- 如果您當前設置了Links AMR或SOAP Web of Science Lite/Expanded APIs，您將於2023年11月1日失去對這些API的存取權限。
- REST API不支持IP驗證，只支持**金鑰**驗證
- 如果應用程式仍在使用SOAP或AMR APIs，協力廠商API集成是會受到影響
- 在2023年11月1日之後，以下URL的請求將不再有效：
 - <https://ws.isiknowledge.com/cps/xrpc>
 - <http://search.webofknowledge.com/esti/wokmws/ws/WOKMWSAuthenticate?wsdl>
 - <http://search.webofknowledge.com/esti/wokmws/ws/WokSearchLite?wsdl>
 - <http://search.webofknowledge.com/esti/wokmws/ws/WokSearch?wsdl>

現有的SOAP API用戶該如何轉換？

- 如果您使用AMR/Web of Science Lite (SOAP)，則需要註冊 **Web of Science Starter API**。
- 如果您使用 Web of Science Expanded (SOAP)，則需要註冊 **Web of Science Expanded API (REST)**
- 您將收到有關如何通過 **Clarivate Developer Portal** (<https://developer.clarivate.com>) 申請 REST APIs金鑰的說明。

※若有任何操作申請的問題，請聯繫科睿唯安客戶技術支援團隊 ts.support.china@clarivate.com

解放雙手 透過API可以更有效率



優勢

- ❑ 無需平臺檢索、下載，可獲取特定論文資訊
- ❑ 可**自動、快速、大量、即時地**獲取豐富的**書目、引文和指標**信息，便於資料清理和更多角度的資料串連與分析
- ❑ **節省時間、人力、成本**即可完成例行性資料更新與分析

主要功能

- ❑ 客戶充分利用訂購的資料庫，將**數據集成到本地系統**
- ❑ **便捷高效**使用資料來構建或更新本地系統
- ❑ 豐富的書目和指標信息，可以有**更多不同的運用與呈現**

Web of Science API Exporter快速獲取欄位資料

針對不會程式語言的用戶，轉換成Excel格式進行更多分析

Web of Science API Exporter 1.0.0-rc4

Clarivate Developer Portal About

Web of Science™ API Exporter Customer demo

僅提供WOS API Expanded或InCites API用戶使用

API Tokens

Web of Science API Expanded validation succeeded. Remaining records (year) unknown.

InCites API validation succeeded. Remaining requests (day) 1,995 ~ 199500 records.

Web of Science API Expanded Token

InCites API Token

Query Settings

Web of Science API Query passed. Records found: 3,765

usrQuery: og=(National cheng kung university) AND FPY=(2022-2022)

databaseId: WOS

InCites Query Settings

schema: ct - Citation Topics

esci: y

File Formats

Selected formats: Excel

EXPORT Export not possible yet. Check your details above. Make sure that each section is marked with

	A	B	G	H	I	J	K	L	M	N	O	P	Q
	Accession Number (UT)	Country	Address No	Full Address	Organisation names (concatenated)	1st Enhanced Organisation name	2nd Enhanced Organisation name	3rd Enhanced Organisation name	Sub-organisation names (concatenated)	Researcher/Author SeqNo (position)	Full Name	Role	Reprint contact
1	WOS:001C	Taiwan	1	Chang Gur	Chang Gur	Chang Gung Memorial Hospital			Dept Ophthalmol		Liu, Chun	author	
2	WOS:001C	Taiwan	1	Chang Gur	Chang Gur	Chang Gung Memorial Hospital			Dept Ophthalmol		Kuo, Yu-K	author	
3	WOS:001C	Taiwan	1	Chang Gur	Chang Gur	Chang Gung Memorial Hospital			Dept Ophthalmol		Chuang, L	author	
4	WOS:001C	Taiwan	2	Chang Gur	Chang Gur	Chang Gung University			Coll Med;Dept Med		Liu, Chun	author	
5	WOS:001C	Taiwan	2	Chang Gur	Chang Gur	Chang Gung University			Coll Med;Dept Med		Kuo, Yu-K	author	
6	WOS:001C	Taiwan	2	Chang Gur	Chang Gur	Chang Gung University			Coll Med;Dept Med		Chen, Hun	author	
7	WOS:001C	Taiwan	2	Chang Gur	Chang Gur	Chang Gung University			Coll Med;Dept Med		Chuang, L	author	
8	WOS:001C	Taiwan	3	Natl Yang	Natl Yang	National Yang Ming Chiao Tung Unive			Program Mol Med		Liu, Chun	author	
9	WOS:001C	Taiwan	3	Natl Yang	Natl Yang	National Yang Ming Chiao Tung Unive			Program Mol Med		Chen, Wei	author	Y
10	WOS:001C	Taiwan	4	Tamkang U	Tamkang U	Tamkang University			Dept Chem		Ou-Yang,	author	
11	WOS:001C	Taiwan	4	Tamkang U	Tamkang U	Tamkang University			Dept Chem		Jao, Shih-	author	
12	WOS:001C	Taiwan	4	Tamkang U	Tamkang U	Tamkang University			Dept Chem		Chen, Yau	author	Y
13	WOS:001C	Taiwan	5	Natl Yang	Natl Yang	National Yang Ming Chiao Tung Unive			Inst Biochem & Mol Bio		Huang, Ch	author	
14	WOS:001C	Taiwan	6	Natl Cheng	Natl Cheng	National Cheng Kung University			Inst Basic Med Sci		Jao, Shih-	author	
15	WOS:001C	Taiwan	7	Chang Gur	Chang Gur	Chang Gung Memorial Hospital			Dept Ophthalmol		Chen, Hun	author	
16	WOS:001C	Taiwan	8	Chang Me	Chang Mem	Hosp			Ctr Tissue Engn		Chen, Hun	author	
17	WOS:001C	Taiwan	9	Chang Gur	Chang Gur	Chang Gung Memorial Hospital			Dept Nephrol		Cheng, Sh	author	
18	WOS:001C	USA	10	Columbia U	Columbia U	Columbia University			Edward S Harkness Eye		Wang, Nar	author	
19	WOS:0005	Japan	1	RIKEN Ct	RIKEN Ct	RIKEN					Butler, Ch	author	Y

Rawdata與API有何不同？

科睿唯安依照需求的不同提供多元化的資料交付方式

	APIs	Rawdata
資料來源/欄位	Web of Science/JCR/InCites/ESI	
訂購限制	基於現有資料庫的訂購狀態	無
資料量獲取限制	流量限制	根據需求制訂資料範圍
交付方式	金鑰	XML
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二級單位歸屬

從資料庫中無法直接對應二級單位，多以人工方式進行辨識，以至於降低效率



即時更新成果

收集整理大量教授的發表，在處理與管理需要更有效的方法來加快資訊的更新



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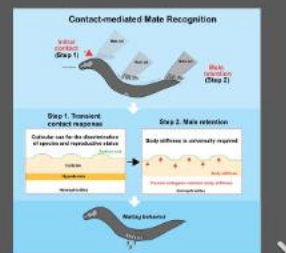
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Body stiffness is a mechanical property that facilitates contact-mediated mate recognition in *Caenorhabditis elegans*

Jen-Wei Weng, Heenam Park, Claire Valotteau, Rui-Tsung Chen, Clara L. Essmann, Nathalie Pujol, Paul W. Sternberg & Chun-Hao Chen

Current Biology, Volume 33, Issue 17, 2023

<https://doi.org/10.1016/j.cub.2023.07.020>



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作者: Liu, R. S.
Wu, P. T.
Wu, S. F.
Wang, W. N.
Edwards, P. P.
RU-SHI LIU

公開日期: 1990

卷: 165

期: 1

起(迄)頁: 111-114

來源出版物: Physica C

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Sasakura, J.; Akagi, Y. (...); Noguchi, S.
Dec 2020 | Aug 2020 (Early Access) |
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 33 (12) , pp.3667-3672

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院士, 清华大学化学系教授、博士生导师, 教育部长江特聘教授。现任无机化学研究所所长, 化学系学术委员会主任。研究方向: 纳米材料的合成、组装、结构、性能及其应用探索。主要研究领域: 先进功能...

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為利本校研究者發掘校內潛在合作對象，並協助校內外人員掌握本校作者及單位聚焦的研究議題，圖書館依據本校作者著作之主題建置視覺化網絡分析網站，呈現作者間的相似度與研究特色，資料範圍與分析方法詳見[服務說明](#)。為利使用者查詢，依需求提供3種檢視角度之平台，並建議以個人電腦瀏覽使用。



作者檢視

輸入作者姓名，查看臺大潛在合作對象或單一臺大作者之研究主題比率。



主題檢視

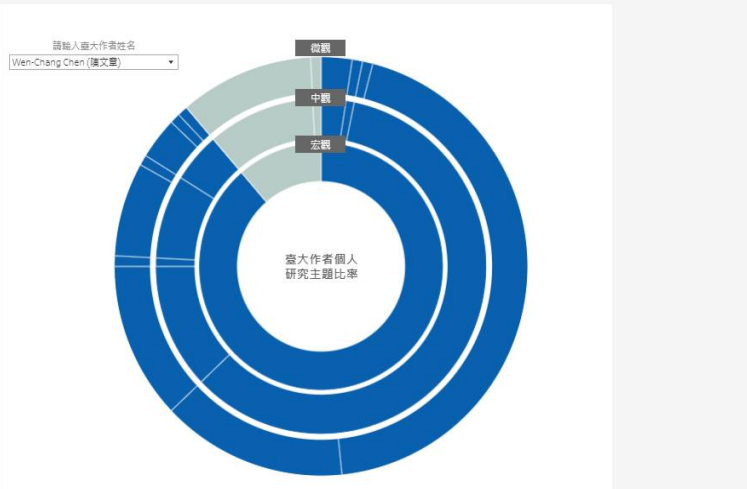
選擇研究主題，可以查看曾發表該主題著作之臺大作者。



單位檢視

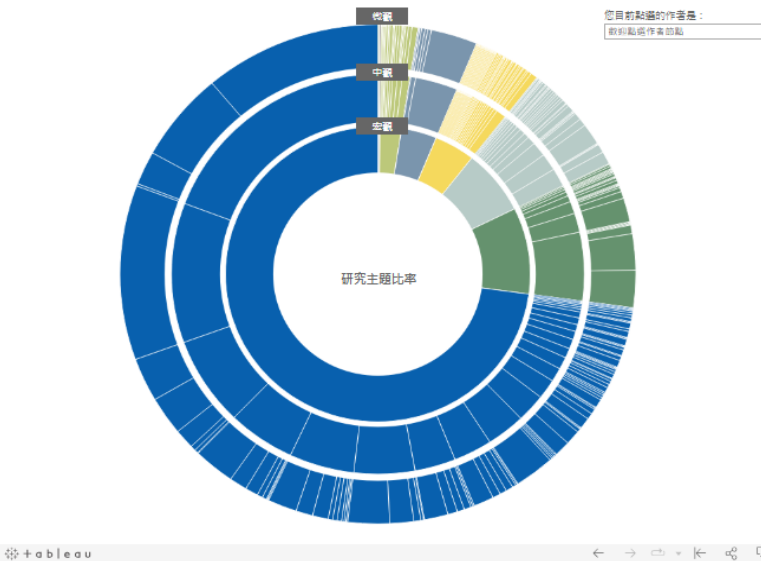
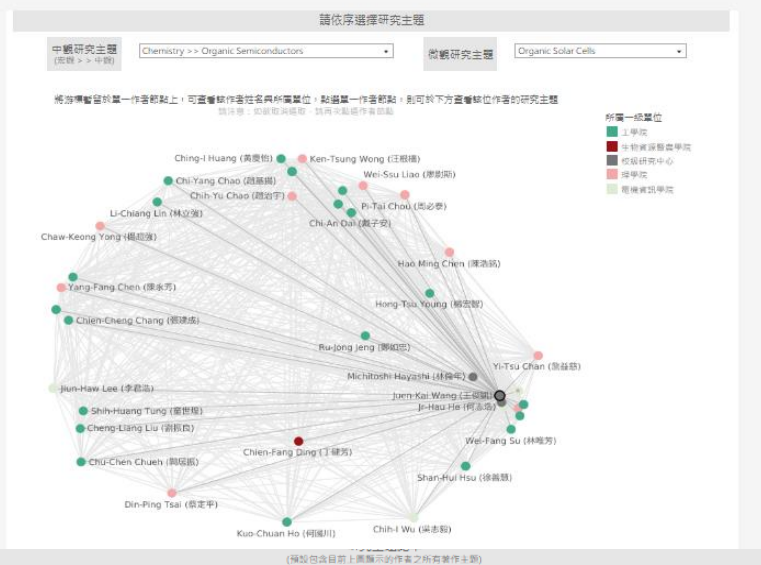
選擇系所、研究中心等臺大二級單位，查看所屬作者及研究主題比率。

本服務以 Incites 資料庫提供的三層 Citation Topics 架構界定著作主題，若您為臺大作者，開始使用前，歡迎於下方輸入您的姓名



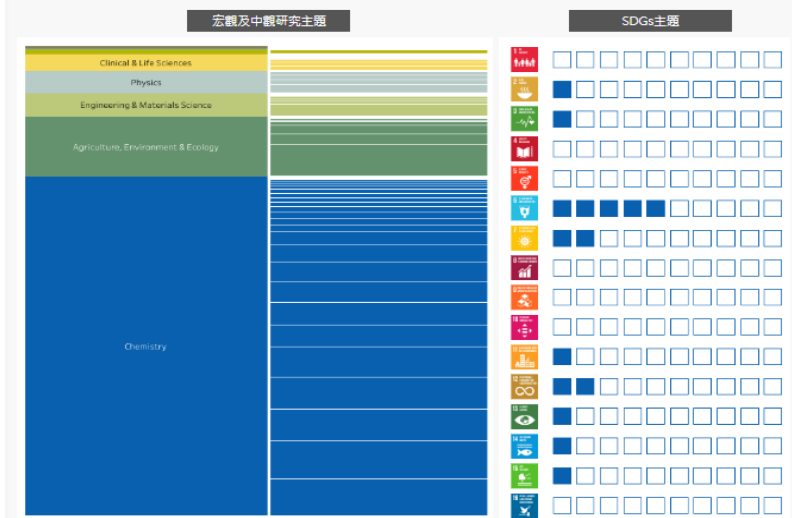
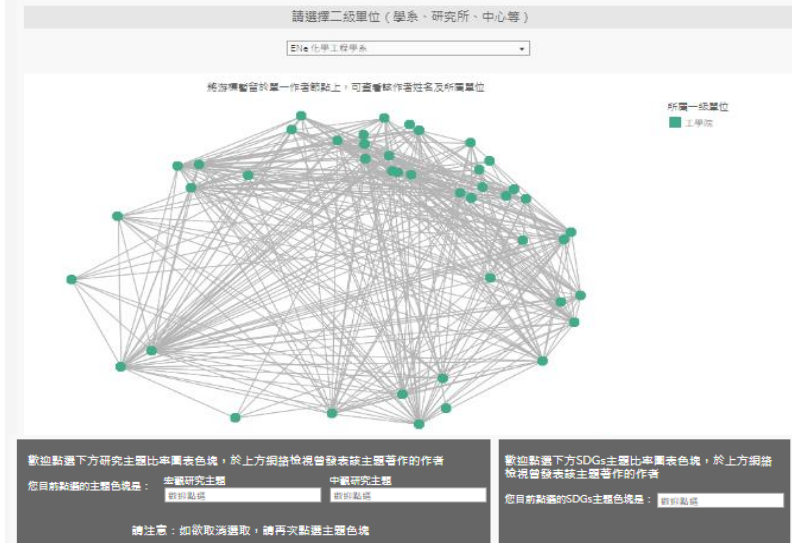
主題檢視

選擇研究主題，查看曾發表該主題著作之臺大作者。本服務分析資料量龐大，載入及運算時間較久，敬請耐心等待。



單位檢視

選擇系所、研究中心等臺大二級單位，查看所屬作者及研究主題比率。本服務分析資料量龐大，載入及運算時間較久，敬請耐心等待。



結論



機構知識庫是個多元收錄的典藏渠道，但以「學者」為推廣的出發目的，應該有更多不同的創意與發想可以延伸在系統上實現。



可依據不同的情境API與Rawdata的使用可以更彈性且創新。



學術指標不僅只有單一指標「Citation」，多元的指標(CNCI, Percentile, HCP, OA, 國際合作...)可同步展現在IR頁面當中，協助學者掌握自己研究影響力並拓展IR使用的場景。



科睿唯安持續發展更符合使用者需求的API，讓機構知識庫/學者庫可以豐富典藏內容之外，更可協助館藏發展或讀者服務。





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