



我的研究往哪兒走？



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Google



Google 搜尋

好手氣

沒有科睿唯安 就沒有現在的Google

Citation Indexes for Science

A New Dimension in Documentation
through Association of Ideas

Eugene Garfield

"The uncritical citation of disputed data by a writer, whether it be deliberate or not, is a serious matter. Of course, knowingly propagandizing unsubstantiated claims is particularly abhorrent, but just as many naive students may be swayed by unfounded assertions presented by a writer who is unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are discovered through the

approach to subject control of the literature of science. By virtue of its different construction, it tends to bring together material that would never be collated by the usual subject indexing. It is best described as an association-of-ideas index, and it gives the reader as much leeway as he requires. Suggestiveness through association-of-ideas is offered by conventional subject indexes but only within the limits of a particular subject heading.

If one considers the book as the macro unit of thought and the periodical article

Eugene Garfield, Pioneer of Scientific Indexing, 'Grandfather of Google,' Dies at 91

By Rachel Kurland - March 15, 2017

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Eugene Garfield, known for his scientific knowledge indexing system, died Feb. 26 at the age of 91 at Lankenau Medical Center after complications from a prior fall.

Originally from New York City and more recently a resident of Bryn Mawr, Garfield created the worldwide indexing system in 1955, which allowed scientists to easily find information rather than sifting through pages and pages in a library.

His index system contributed to data analytics by using chart connections between pieces of scientific literature, which later became electronically available.



引用 是科學活動的文獻印記



Dr. Eugene Garfield
(1925. 9.16–2017.2.26)
美國情報學家和科學計量學家
美國科學資訊研究所創始人

1955年，原美國情報資訊研究所（ ISI ）的Dr. Eugene Garfield在《 Science 》發表論文提出將引文索引（ Citation Index ）作為一種新的文獻檢索與分類工具。

與各政府及研究機構密切合作關注創新領域



機器人技術研發與專利分析

機器人技術是一項多學科研究領域，涉及機械設計、包括人工智慧、自動控制系統、生物材料和雷射技術。

Clarivate Analytics 科睿唯安



**中國人工智能發展報告
2018**

清華大學中國科技政策研究中心
2018年7月

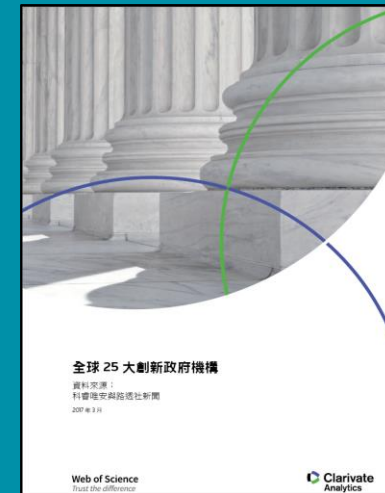
Clarivate Analytics 科睿唯安



人工智慧
下一代數位轉型的創新力與競爭力

工業 4.0：現在和未來

Clarivate Analytics 科睿唯安

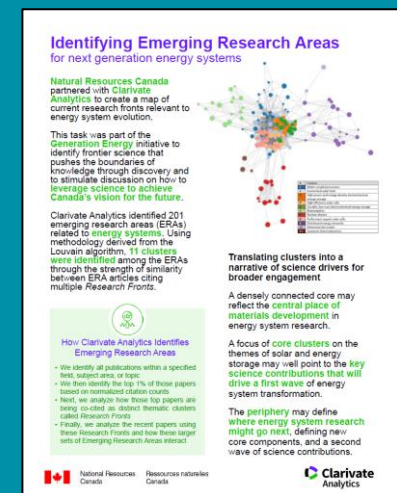


全球 25 大創新政府機構

資料來源：
科睿唯安與路透社新聞
2017 年 11 月

Web of Science
Find the difference

Clarivate Analytics 科睿唯安



Identifying Emerging Research Areas for next generation energy systems

Natural Resources Canada partnered with Clarivate Analytics to create a map of current research fronts relevant to energy system evolution.

This task was part of the Generation Energy initiative to identify frontier science that pushes the boundaries of knowledge through discovery and to stimulate discussion on how to leverage science to achieve Canada's vision for the future.

Clarivate Analytics identified 201 emerging research areas (ERAs) related to energy systems. Using methodology derived from the Louvain algorithm, 11 clusters were identified among the ERAs through the strength of similarity between ERA articles citing multiple Research Fronts.

How Clarivate Analytics Identifies Emerging Research Areas

- We identify all publications within a specified field, subject area or topic.
- We then identify the top 1% of those papers based on normalized citation counts.
- Next, we analyze how those top papers are being cited and we detect thematic clusters called Research Fronts.
- Finally, we analyze the recent papers using these Research Fronts and how those larger sets of Emerging Research Areas formed.

Translating clusters into a narrative of science drivers for broader engagement

A densely connected core may reflect the central place of materials development in energy system research.

A focus of core clusters on the themes of solar and energy storage may well point to the key science contributions that will drive a first wave of energy system transformation.

The periphery may define where energy system research might go next, defining new core components, and a second wave of science contributions.

Natural Resources Canada Resources network Canada

Clarivate Analytics 科睿唯安

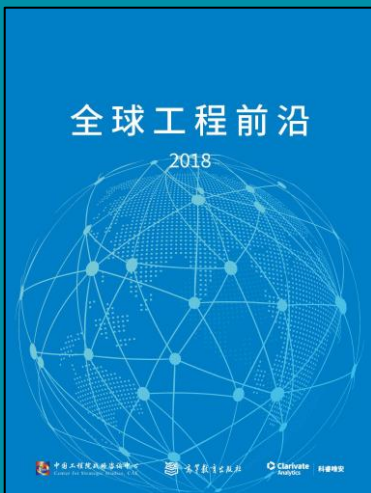


全球工程焦點 2017

機械與運程工程領域
物昂與電子工程領域
化工、冶金與材料工程領域
能源與礦業工程領域
土木、水利與建築工程領域
核能與船舶工程領域
安全領域
医药卫生领域
工程管理领域

中國工程院戰略研究中心
Tsinghua University Strategic Research Center

Clarivate Analytics 科睿唯安



**全球工程前沿
2018**

中國工程院戰略研究中心
Tsinghua University Strategic Research Center

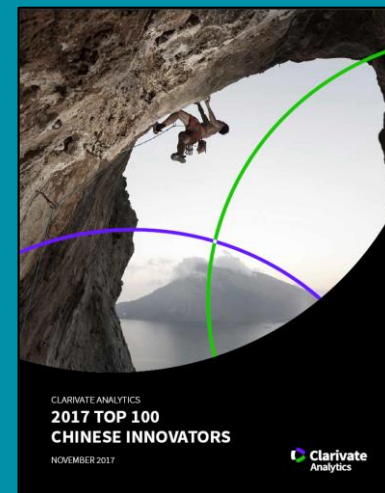
Clarivate Analytics 科睿唯安



能源科學領域之研究前沿分析
Analysis of Energy Research Fronts

中國工程院戰略研究中心 100 年度電子書

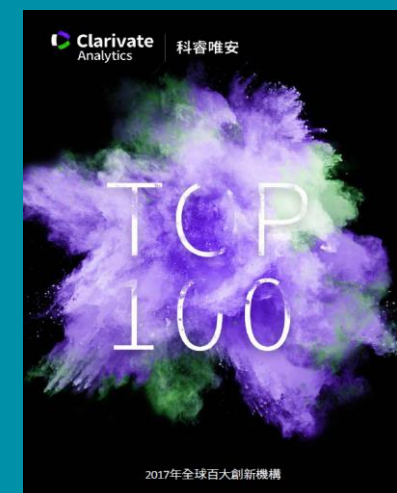
Clarivate Analytics 科睿唯安



2017 TOP 100 CHINESE INNOVATORS

NOVEMBER 2017

Clarivate Analytics 科睿唯安



TOP 100

2017年全球百大創新機構

Clarivate Analytics 科睿唯安

為什麼科睿唯安可以協助
這些國家機構分析研究熱點？

Web of Science 核心合輯

含蓋多學科與文獻的**廣度**

- 深度的**跨學科**綜合學術資訊
- 全球/區域**代表性**的研究成果
- 跨領域**前沿**的相關研究成果
- 全世界學術群體的合作與交流
- 潛在的合作研究者和深造機會
- 相關領域內的**核心學術期刊**

01

Science Citation Index Expanded

- 9,046種期刊
- 1900年-迄今

02

Social Science Index

- 3,330種期刊
- 1900年-迄今

03

Art & Humanity Citation Index

- 1,815種期刊
- 1975年-迄今

04

Emerging Sources Citation Index

- 7,280種期刊
- 2005年-迄今

05

Conference Proceedings Citation Index

- 超過191,000個會議錄
- 1990年-迄今

06

Book Citation Index

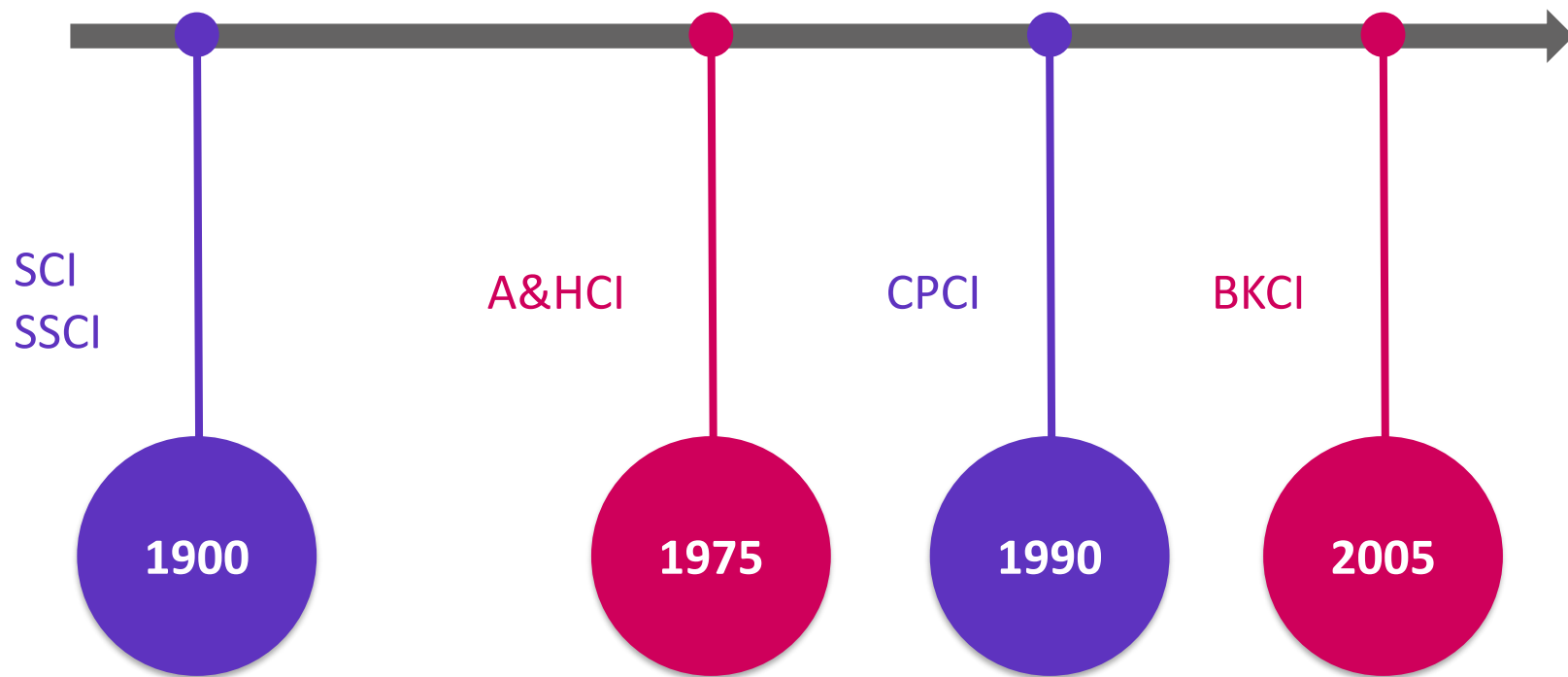
- 80,617種學術專著
- 2005年-迄今

Web of Science 核心合輯

百年文獻回溯的**深度**

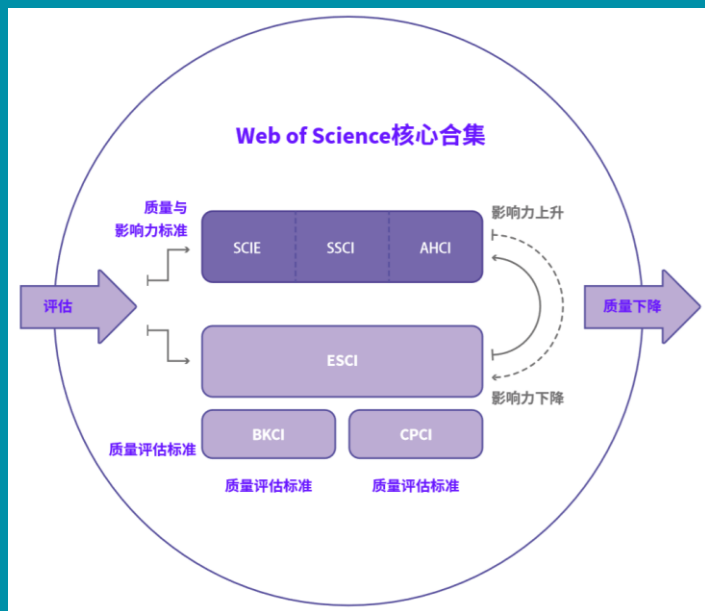
- 根據早期的期刊、報告、出版物來**定位當前研究**
- 追溯某一觀點從首次提出至今的**歷史脈絡與方法論**
- 進行更深入、更全面的檢索，並跟蹤百年的**研究發展趨勢**。

完整梳理理論脈絡 瞭解課題前世今生



Web of Science 核心合輯

深受科研界信任的品質



根據文獻計量學中的布萊德福定律

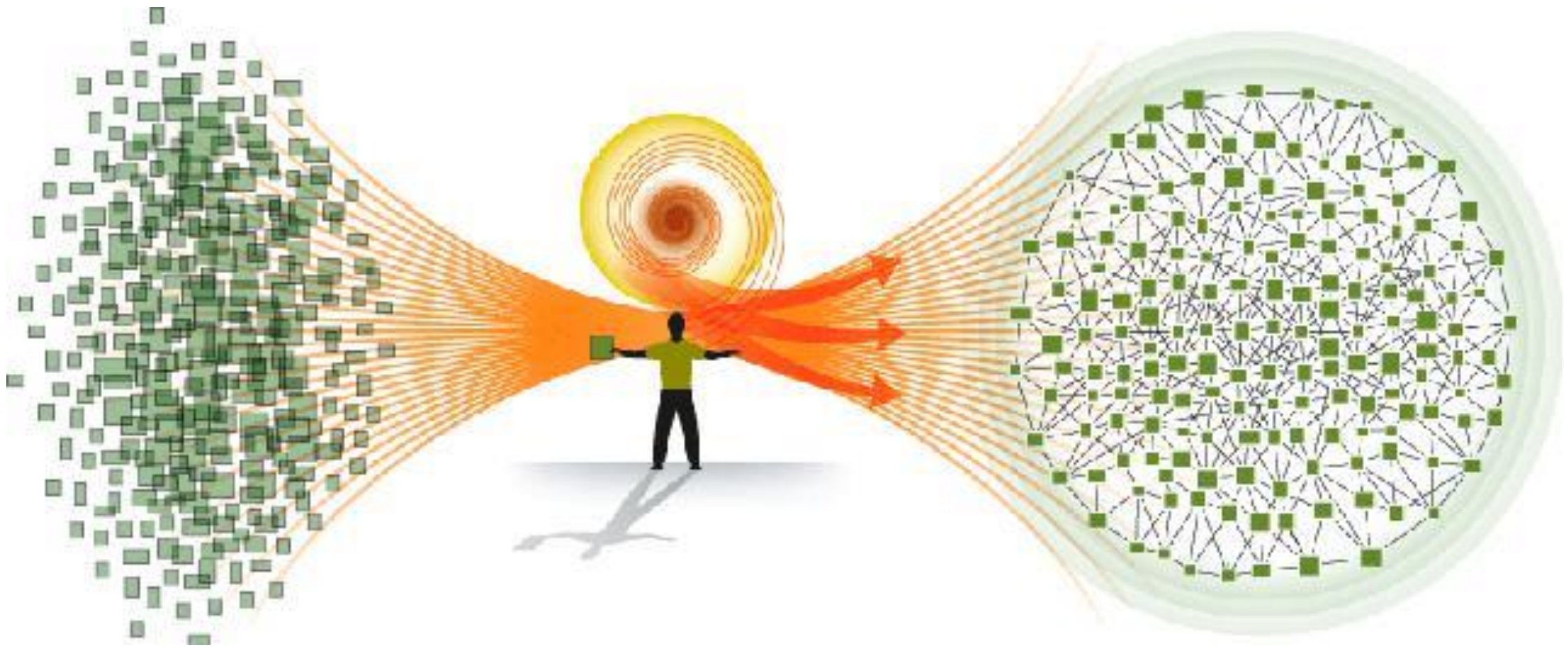
(Bradford's law)，在各個學科領域中，少數的核心期刊彙集了足夠的資訊，反映科學發展中最重要的成果與進展，因而WOS核心合集僅收錄各學科領域中的重要學術期刊。

- Web of Science核心合輯嚴格遵循50多年來一貫的選刊標準，**遴選全球最具學術影響力的高品質期刊**
- **完整收錄每一篇文章的全部資訊**，包括全面的引文資訊
- 前所未有的回溯深度，包含**1900年至今的共1.5億多萬條文獻和14億多條參考文獻**
- Web of Science核心合輯篩選全球優質的學術資源放到平臺上，**省去了我們大量閱讀文獻**，挑選優質文章的時間和精力

找研究方向？

停！ 看！ 聽！

Web of Science用引文將論文的關聯組織成巨大的知識網絡



研究前沿—尋找並描述科學的結構

研究前沿的分析提供了一個獨特的視角去洞悉科學研究是如何展開的，揭示了**不同研究者因探究科學問題產生的關聯性**。

科睿唯安持續跟蹤**全球最有影響力的學術文獻**，不斷豐富和提升分析方法以觀察和記錄科學研究的發展過程。為科學政策的制定者、管理者、以及需要對科學研究進展進行監測、提供支援、推動研究進步的人們提供客觀、詳實的分析資料與結果。

解析科技文獻的大數據掌握研究最焦點：研究前沿

剖析高被引論文的共被引文獻聚類能夠為我們提供一種全新的視角來探索科學的結構



2020 研究前沿

中國科學院科技戰略諮詢研究院
中國科學院文獻情報中心
科睿唯安

排名	熱點前沿	核心論文	被引次數	核心論文平均出版年
1	無人機無線通訊網路、傳輸保密和軌跡優化研究	24	2543	2017.4
2	基於混沌的圖像加密研究	45	3303	2016.9
3	無線移動邊緣計算研究	18	2294	2016.9
4	長距離連續變數量子金鑰分配	33	2927	2016.8
5	基於深度卷積神經網路的腦腫瘤圖像分割研究	13	2086	2016.7
6	基於智慧卡、密碼和生物特徵標識的使用者認證和金鑰協商方案	31	2502	2016.4
7	單一圖像去霧演算法與系統	12	1122	2016.4
8	用於人臉識別的局部二進位描述符的學習	17	1366	2016.1
9	使用 lme4 擬合線性混合效應模型	3	13035	2016
10	AlphaGo Zero 的增強式學習演算法	3	3081	2016

學科分類 11個大學科領域

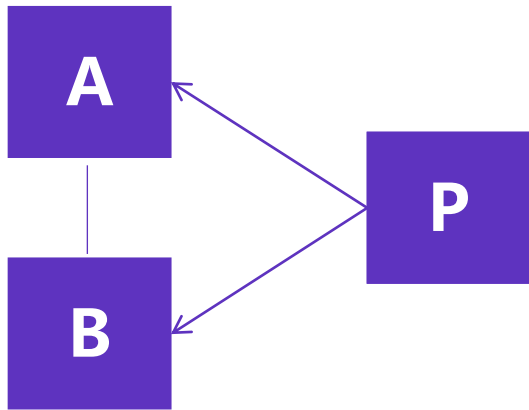
農業、植物學和動物學	生態與環境科學
地球科學	臨床醫學
生物科學	化學與材料科學
物理學	天文學與天體物理學
數學	經濟學、心理學及其他社會科學
資訊科學	

下載報告：<https://clarivate.com.tw/research-fronts>

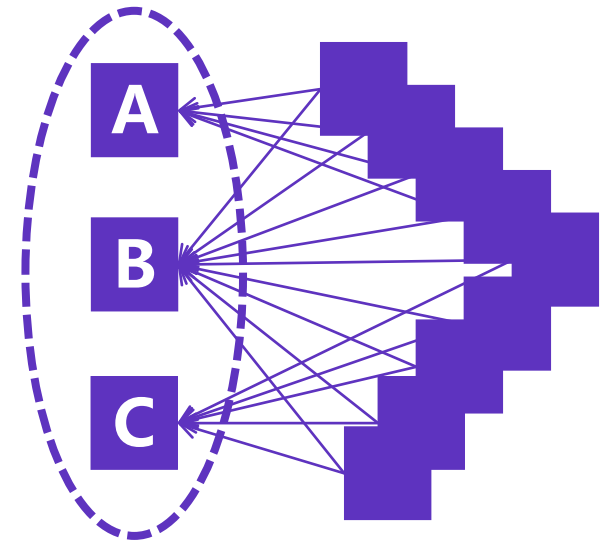
研究前沿Research Fronts

共被引(Co-Citation)原理：共被引是一種新的文獻耦合形式

計算一對文獻被同時引用的次數，越多的文獻引用這一對文獻，它們之間的相關性就越強。



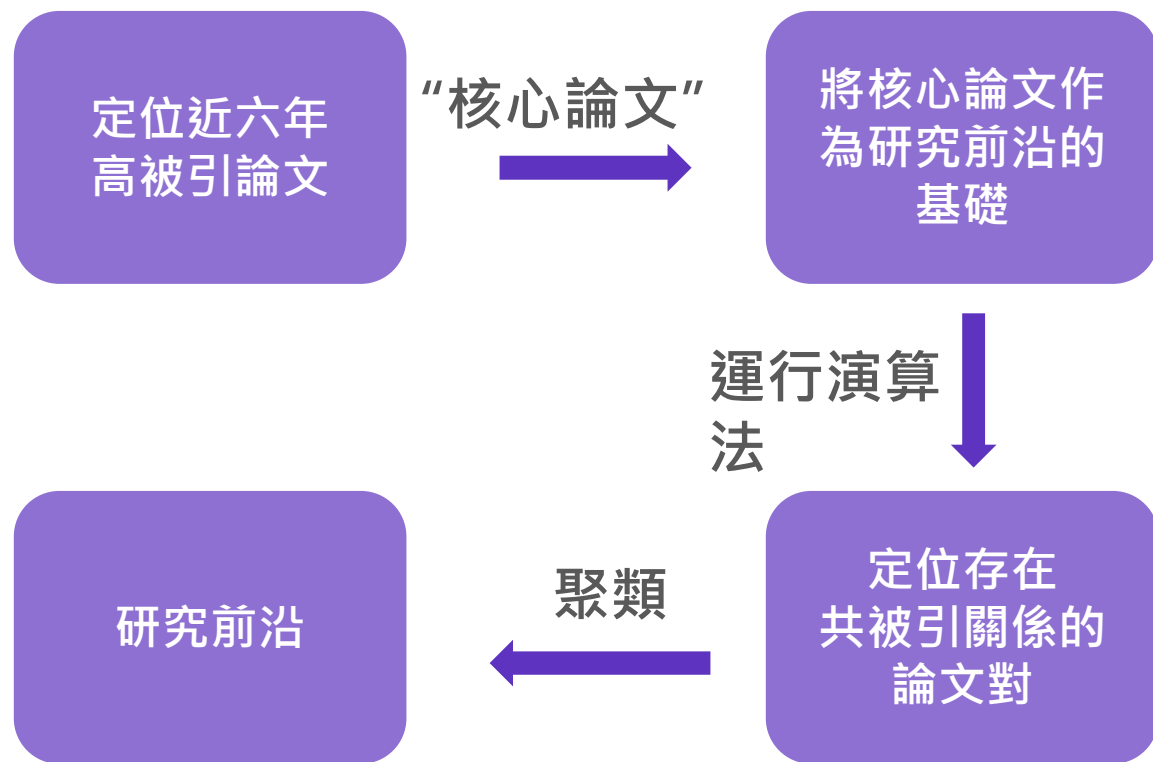
當論文A和論文B同時被論文P引用
A和B很有可能具有研究主題方面的相關性



當共被引頻率較高時，即形成了一組文獻
它們之間具有研究主題方面的相關性

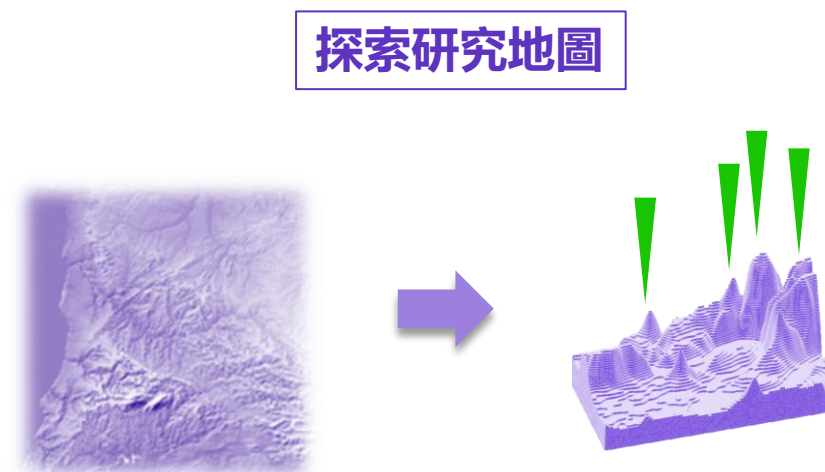
研究前沿Research Fronts

利用co-citation analysis對高被引論文進行分析，一組高被引論文的標題中的主要關鍵片語成研究前沿



ESI Research Fronts的生成過程

- ❖ 研究前沿的分析提供了一個獨特的視角去洞悉科學研究是如何展開的，揭示了不同研究者因探究科學問題產生的關聯性。



2020研究前沿：化學與材料科學



表35 化學與材料科學領域的 6 個新興前沿

序號	新興前沿	核心論文	被引次數	核心論文平均出版年
1	過渡金屬磷化物作為電催化劑用於析氫反應	9	213	2019
2	具有聚集誘導發射特性的奈米粒子用於細胞光聲成像	7	231	2018.9
3	可生物降解的感測器材料在生物醫學領域的應用	6	211	2018.8
4	三元共沸物萃取精餾工藝	9	243	2018.7
5	等離子體用於廢水處理	18	571	2018.6
6	可充電的鋅空氣電池	9	379	2018.6

研究前沿年代	內容	高效太陽能電池才料設計與備製	高效太陽能電池材料器件組裝	高效太陽能電池材料集成的光電轉換過程
2015熱點研究前沿	高能量轉換效率聚合物太陽能電池	Y	Y	
2015新興研究前沿	高效鈣鈦礦型太陽能電池及真空管傳輸材料	Y	Y	Y
2016熱點研究前沿				
2017熱點研究前沿				
2016熱點研究前沿	基於非富勒烯的有機太陽能電池	Y	Y	Y
2016新興研究前沿	高效單結聚合物太陽能電池	Y	Y	
2016新興研究前沿	用於染料敏化太陽能電池的新型染料	Y	Y	
2017熱點研究前沿	非富勒烯型聚合物太陽能電池	Y	Y	Y
2017熱點研究前沿	全聚合物太陽能電池	Y	Y	
2017新興研究前沿	基於無機吸光層的鈣鈦礦型太陽能電池	Y	Y	Y
2017新興研究前沿	無鉛的鈣鈦礦型太陽能電池吸光材料	Y	Y	
2019熱點研究前沿				
2018熱點研究前沿	鈣鈦礦太陽能電池	Y	Y	Y
2018熱點研究前沿	全無機鈣鈦礦奈米結晶光電材料		Y	

追蹤 前沿主題變化

- 以鈣鈦礦電池的例子，從歷年的熱點前沿與新興前沿可看出學科聚焦的轉移與主題的變遷。

臨床醫學領域的11個新興前沿



五、臨床醫學

1. 熱點前沿及重點熱點前沿解讀

1.1 臨床醫學領域 Top 10 熱點前沿發展趨勢

臨床醫學領域位居前 10 位的熱點前沿主要集中於慢性病管理及新技術應用、疾病新機制發現、影像診斷新技術與安全性、腫瘤免疫療法、生技醫藥臨床應用 5 個前沿群。「慢性病管理」前沿群重點關注降血壓治療與心血管疾病、人工胰臟應用於第 1 型糖尿病治療、藥物基因體學技術指引經皮冠狀動脈介入治療 (PCI) 術後抗血小板藥物選擇、以及成人支氣管擴張症臨床治療研究；「疾病新機制發現」前沿群包括長鏈非編碼 RNA PVI 在腫瘤中的功能和作用機制、外被細胞退化作用在阿茲海默症之角色等 2 個熱點前沿；「影像診斷新技術與安全性」前沿群包含藉由正子電腦斷層 (PET) 的 Tau 蛋白指示劑應用於神經退行疾病研究以及含釷對比例核磁共振檢查後腦部氫沉積；「腫瘤免疫療法」、「生

技醫藥臨床應用」則分別包含 PD-1/L1 抗體聯之腫瘤免疫治療副作用、英利昔單株抗體生物相似藥臨床療效和安全性熱點前沿。

與往年相比，2019 年臨床醫學 Top 10 熱點前沿體現出較明顯的持續性，其中：英利昔單株抗體生物相似藥臨床應用、神經退行疾病 Tau 蛋白指示劑成藥、人工胰臟治療糖尿病、高血壓降壓目標與風險、含釷造影劑沉積 5 個熱點前沿與 2018 年熱點前沿相同或相近，而兩個腫瘤相關的熱點前沿（長鏈非編碼 RNA PVI 在腫瘤中作用、PD-1/L1 腫瘤免疫治療副作用）則分別與 2018 年度（長鏈非編碼 RNA 與腫瘤進展及預後關係）、2017 年度（抗 PD-1 藥腫瘤免疫治療產生免疫相關不良反應）新興前沿具有較大的延續性。

表24 臨床醫學領域的 11 個新興前沿

排名	新興前沿	論文數	引用數	年份
1	穩定性冠			
2	前列腺癌特定抗原68			
3	新型口服降糖藥抑制劑			
4	彌			
5	溶			
6	代謝			
7	免疫檢查點抑制劑聯合化療治療腎細胞癌的臨床1/2期研究	4	89	2017.8
8	PD-L1表達分子調節機制及增強腫瘤免疫治療策略	6	137	2017.7
9	Non-statin降脂藥與心血管疾病風險	5	170	2017.6
10	Glecaprevir/Pibrentasvir複方治療伴有或不伴有肝硬化的慢性C型肝炎病患療效與安全性	5	164	2017.6
11	免疫治療輔助腫瘤免疫療效評估	5	147	2017.6



生物科學領域Top 10熱點前沿

六、生物科學

1. 熱點前沿及重點熱點前沿解讀

1.1 生物科學領域 Top 10 熱點前沿發展趨勢

生物科學領域位居前 10 位的熱點前沿包括：3 個藥物開發相關前沿，3 個衰老相關的前沿，2 個合成生物學熱點前沿，1 個探索細菌抗菌性機制的前沿，以及 1 個新發現的具有實體免疫的 T 細胞體系相關前沿。

其中 3 個藥物開發相關前沿分別是：「誘導蛋白降解的小分子 PROTACs」、「3D 列印醫療藥物」和「綠色合成奈米顆粒在防治蚊媒疾病和癌症中的應用」。3 個衰老相關的前沿分別是：「衰老和年齡相關疾病中的細胞衰老：從機制到治療」、「DNA 甲基化與衰老表觀遺傳時鐘理論」和「一種新的細胞死亡模式—鐵死亡」；2018 年與該類相關的有 2 個前沿分別是：「細胞衰老的分子機制」和「哺乳動物早期胚胎 DNA 甲基化的獨特调控階段」。2 個合成生物學熱點前沿「Cas13：一種針對 RNA 的新型 CRISPR 基因編輯系統」和「人工合成基因組」。1 個探索細菌抗菌性基因抗菌性機制的前沿為：「質體媒介的多點菌素抗菌性基因」。1 個新發現的具有實體免疫的 T 細胞體系相關前沿為：「組織駐留記憶 T 細胞及其腫瘤免疫保護機制」。

表25 生物科學領域 Top 10 熱點前沿

排名	熱點前沿	數量	引用數	年份
1	質體媒介的			
2	誘導蛋白降			
3	3D 列			
4	綠色合成奈米顆粒在防治蚊媒疾病和癌症中的應用	45	2949	2016.3
5	Cas13：一種針對 RNA 的新型 CRISPR 基因編輯系統	8	1394	2016.3
6	人工合成基因組	17	1736	2016
7	衰老和年齡相關疾病中的細胞衰老：從機制到治療	34	5312	2015.9
8	DNA 甲基化與衰老表觀遺傳時鐘理論	20	3011	2015.9
9	一種新的細胞死亡模式—鐵死亡	19	2354	2015.9
10	組織駐留記憶 T 細胞及其腫瘤免疫保護機制	25	2628	2015.8



天文學與天體物理學領域Top 10熱點前沿



表43 天文與天文物理學領域 Top 10 熱點前沿

排名	熱點前沿	數量	年份
1	對雙中子星併合引力波事件的觀測和理論研究	6	4614
2	標量 - 張量引力修正理論及引力波事件的影響	21	2273
3	基於「阿塔卡馬大型毫米波干涉陣」(ALMA) 和「甚大望遠鏡」(VLT) 對高紅移星系的觀測研究	15	3154
4	對雙黑洞併合引力波事件的觀測和理論研究	6	4614
5	快速射電暴的觀測和理論研究	21	2273
6	透過多種方法測量哈伯常數	15	3154
7	南極「冰立方微中子天文臺」(IceCube) 和「費米伽馬射線太空望遠鏡」(Fermi) 對高能微中子和伽馬射線的觀測研究	25	3896
8	對銀心伽馬射線超出現象的多種理論解釋	20	2903
9	利用宇宙流體動力學模擬方法研究星系形成演化	11	3094
10	利用「哈伯太空望遠鏡」(HST) 進行宇宙早期暗淡星系性質研究	16	2736



研究前沿：黑洞與望遠鏡

表 41 天文与天体物理学 Top 10 热点前沿

2016

排名	热点前沿
1	基于“普朗克”卫星 (Planck) 等射的探测
2	暗物质和星系形成及演化
3	基于“开普勒空间望远镜” (Kepler) 寻及性质研究
4	利用“哈勃空间望远镜” (HST) 研性质
5	系外行星的形成、演化和直接
6	基于太阳观测卫星数据 (Solar-B STEREO 等) 对太阳大气和磁
7	超新星及其对应前身星性
8	中子星和核物质对称能
9	基于“郭守敬望远镜” (LAMOST) “哈根巡天” (GCS)、“斯隆数字巡天”对星系结构、成分和演
10	基于“斯隆数字巡天” (SDSS) 等子声学振荡相关研究

排名	核心论文	被引频次	核心论文平均出版年
1	天文學與天文物理學		2017 研究前沿 59

表 42 天文學

序號	熱點前
1	南極 IceCube 和 Fermi 太空望遠鏡對高
2	基於 Planck 衛星、SPT 望遠鏡對宇宙微波背景輻射
3	基於 Kepler 望遠鏡開展系外行星
4	暗物質探測
5	利用 HST 望遠鏡探測
6	基於 SDSS 等多項巡天專案的
7	超新星及其對應前
8	SDSS 計畫第 3 期及第 3 期
9	SDO 任務及其儀器性能以
10	HST 望遠鏡開展的 CANDEIS

表 41 天文學與天體物理學

排名	熱點前沿
1	重力波和黑洞的探測與模
2	利用宇宙流體動力學模擬方法研究星
3	南極冰立方微中子天文臺 (IceCube) 和費米 (Fermi) 對高能微中子和伽馬射線
4	雙中子星合併過程及噴射物
5	基於普朗克 (Planck) 衛星、南極望遠鏡阿塔卡馬宇宙望遠鏡 (ACT) 等平臺
6	基於開普勒太空望遠鏡 (Kepler) 等開展系外
7	利用哈伯太空望遠鏡 (HST) 開展宇宙早期
8	基於普朗克探測器 (Planck) 和威爾金森衛星 (WMAP) 任務觀測資料開展宇宙
9	多種暗物質理論模型下的暗物
10	斯隆數位巡天 (SDSS) 計畫第 3 期重子振盪對中低紅移星系的測量結

研究前沿
天文學與天體物理學 2018

研究前沿
天文與天文物理 2019

表 43 天文與天文物理學領域 Top 10 熱點前沿

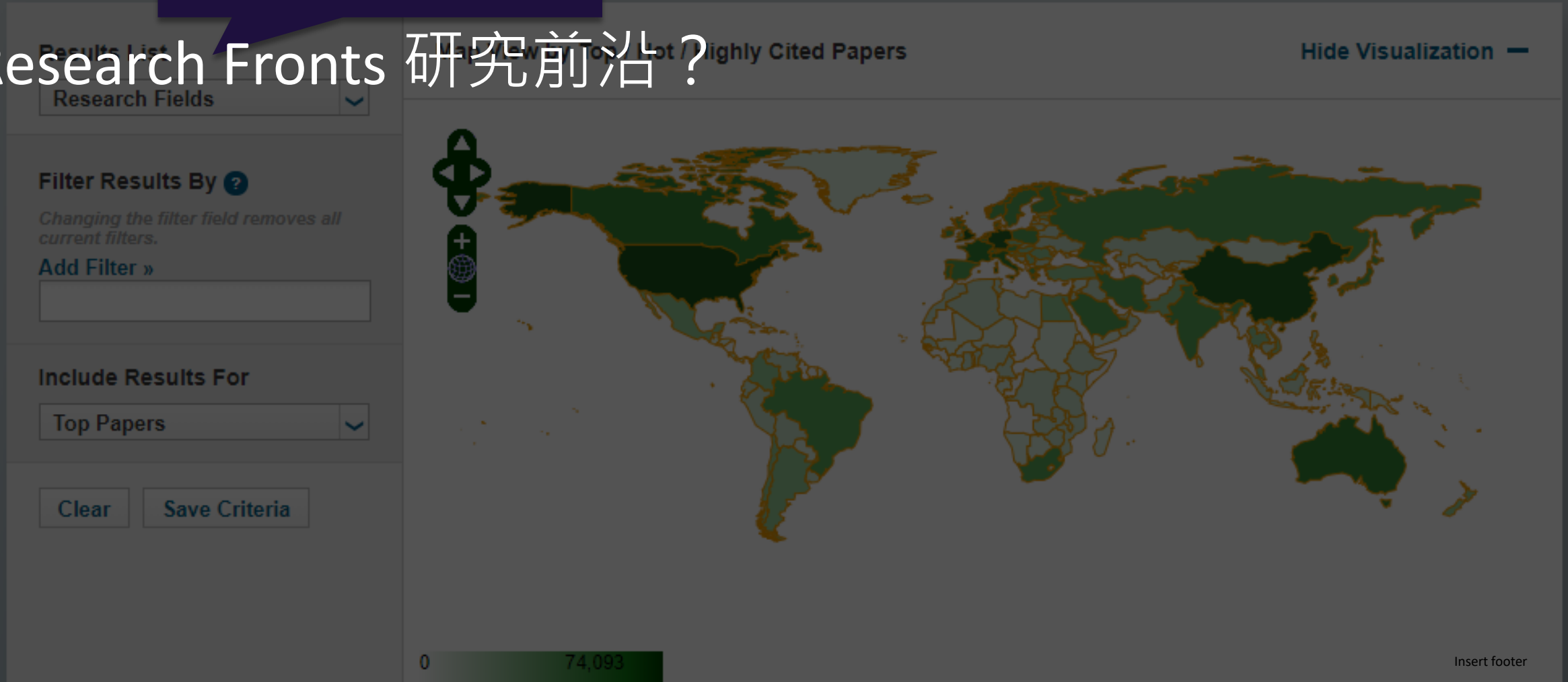
排名	熱點前沿	核心論文	被引次數	核心論文平均出版年
1	對雙中子星併合引力波事件 GW170817 的多信使觀測	37	2462	2017.3
2	標量 - 張量引力修正理論及引力波事件的影響	26	2030	2016.6
3	基於「阿塔卡馬大型毫米 / 亞毫米波陣列」 (ALMA)、「甚大望遠鏡」 (VLT) 等對原行星盤的觀測研究	20	1780	2016.1
4	對雙黑洞併合引力波事件的觀測和理論研究	6	4614	2016
5	快速射電暴的觀測和理論研究	21	2273	2016
6	透過多種方法測量哈伯常數	15	3154	2015.5
7	南極「冰立方微中子天文臺」 (IceCube) 和「費米伽馬射線太空望遠鏡」 (Fermi) 對高能微中子和伽馬射線的觀測研究	25	3896	2015.1
8	對銀心伽馬射線超出現象的多種理論解釋	20	2903	2014.8
9	利用宇宙流體動力學模擬方法研究星系形成演化	11	3094	2014.7
10	利用「哈伯太空望遠鏡」 (HST) 進行宇宙早期暗矮星系性質研究	16	2736	2014.6

如何即時追蹤研究前沿？

Essential Science Indicators 基礎科學指標？

Research Fronts 研究前沿

Research Fronts 研究前沿？



Essential Science Indicators

識別各研究領域中有影響力的研究前沿、個人、機構、論文、期刊和國家的研究分析工具

- ❖ 近10年滾動資料，每兩個月更新（10年2個月-11年）
- ❖ 22個ESI學科
- ❖ 高被引論文&熱點論文
- ❖ 研究前沿

文獻類型僅包括：Articles, Review

- Science Citation Index Expanded (科學引文索引)
- Social Sciences Citation Index (社會科學引文索引)



Essential Science Indicators

- Science Citation Index Expanded (科學引文索引)
- Social Sciences Citation Index (社會科學引文索引)
- Arts & Humanities Citation Index (藝術與人文引文索引)



數學	生物學與生物化學	材料科學	電腦科學	環境與生態學
化學	免疫學	化學	經濟與商學	精神病學與心理學
地球科學	農業科學	微生物學	植物學與動物學	生物學與生物化學
物理學	空間科學	社會科學	藥理學與毒理學	分子生物學與遺傳學
神經科學與行為科學			多學科 (Multidisciplinary) *	

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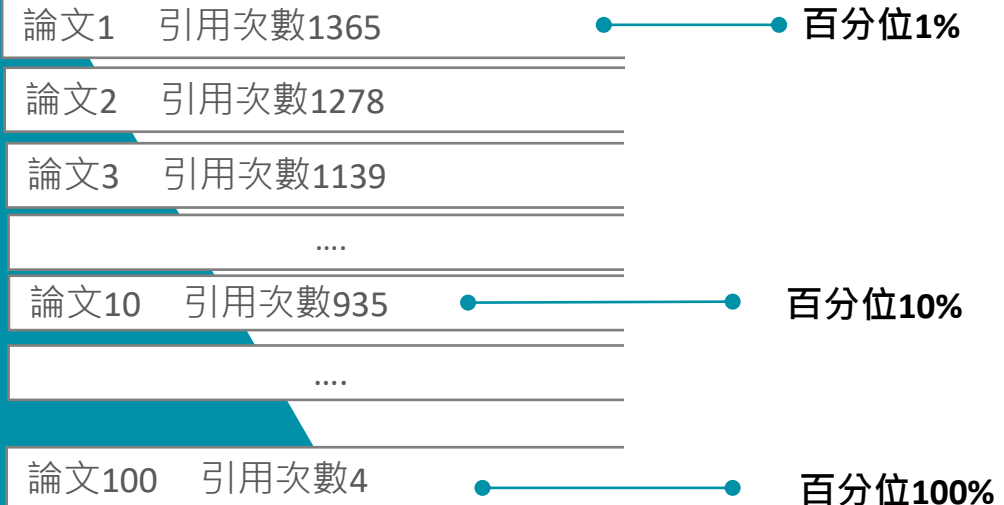
高被引論文
(Highly Cited Paper)

過去10年中發表的論文,被引用次數在同年同學科發表的論文中進入全球前1%

熱門論文
(Hot Paper)

過去2年中所發表的論文,在最近兩個月中其影響力排在某學科前0.1%的論文

論文平均百分位



論文集合 (如一個學科的論文) 中被引次數位於同學科、同出版年、同文獻類型論文中論文的百分比

借助ESI Research Fronts把握前沿熱點

持續更新

鎖定主題

The screenshot displays the Clarivate Analytics Research Fronts interface. At the top, navigation tabs include Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, EndNote, and Publons. The main header shows 'InCites Essential Science Indicators' and the Clarivate Analytics logo. A 'Search Fields' modal is open, listing various disciplines such as Agricultural Sciences, Biology & Biochemistry, Chemistry, Clinical Medicine, Computer Science, Economics & Business, Engineering, Environment/Ecology, Geosciences, Immunology, Materials Science, Mathematics, Microbiology, Molecular Biology & Genetics, Multidisciplinary, Neuroscience & Behavior, Pharmacology & Toxicology, Physics, Plant & Animal Science, Psychiatry/Psychology, Social Sciences, General, and Space Science. The 'Add Filter' button is highlighted with a red box, and the 'Economics & Business' filter is selected. The 'Results List' dropdown is also highlighted with a red box, showing 'Research Fronts' selected. The 'Filter Results By' section includes a note: 'Changing the filter field removes all current filters.' The 'Include Results' section has 'Top Papers' selected. The 'Citation Thresholds' section is visible on the right. The main results table shows a list of research fronts with their respective top papers and mean citation rates.

	Top Papers	Mean Year
PERFORMANCE; FONTES; PUBLIC SERVICE	43	2
L UNCERTAINTY; KETS; BITCOIN	39	2
LE SMART CITIES; IVE CITIES;	33	2
ONOMY BASED MMODATION; LISTINGS	33	2
TY G MARKET; NG PROJECTS	30	2
E HOTEL REVIEWS; L RATINGS; ONLINE REVIEWS	30	2

借助ESI Research Fronts把握前沿熱

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Indicators | Field Baselines | Citation Thresholds

Highly Cited Papers by Research Fronts

Results List: Research Fronts

Filter Results By: Changing the filter field removes all current filters.

Add Filter

- × SARS-COV-2 MAIN PROTEASE INHIBITORS; TARGETING HOST-SPECIFIC SARS-COV-2 STRUCTURALLY CONSERVED MAIN PROTEASE; CORONA VIRUS (SARS COV-2) MAIN PROTEASE (MPRO) INHIBITORS; INDIAN SPICES EXPLOITING SARS-COV-2 MAIN PROTEASE; SARS-COV-2 MAIN PROTEASE
- × SARS-COV-2 INFECTION MODEL; SARS-COV-2 INFECTION; SARS-COV-2 DISEASE OUTBREAKS; SARS-COV-2; DISEASE PATHOGENESIS
- × COVID-19 PHOBIA SCALE (C19P-S); COVID-19

Highly Cited Papers

Map View by Top / Hot / Highly Cited Papers Show Visualization +

Report View by Selection Customize

Total:	Research Fronts	Highly Cited Papers	Meal Year
12			
1	SARS-COV-2 MAIN PROTEASE INHIBITORS; TARGETING HOST-SPECIFIC SARS-COV-2 STRUCTURALLY CONSERVED MAIN PROTEASE; CORONA VIRUS (SARS COV-2) MAIN PROTEASE (MPRO) INHIBITORS; INDIAN SPICES EXPLOITING SARS-COV-2 MAIN PROTEASE; SARS-COV-2 MAIN PROTEASE	36	21
2	COVID-19 PHOBIA SCALE (C19P-S); COVID-19 SCALE; CORONAVIRUS ANXIETY SCALE; MOOD DISORDERS DIFFERENTIALLY IMPACT COVID-19 STRESS RESPONSES; COVID-19 PANDEMIC	31	21
3	CORONAVIRUS DISEASE 2019 (COVID-19) AFFECT; CORONAVIRUS DISEASE 2019 (COVID-19); CORONAVIRUS DISEASE 2019 (SARS-COV-2); CORONAVIRUS DISEASE 2019; CORONAVIRUS DISEASE	22	21
3	SARS-COV-2 INFECTION MODEL; SARS-COV-2 INFECTION; SARS-COV-2 DISEASE OUTBREAKS; SARS-COV-2; DISEASE PATHOGENESIS	22	21
3	INACTIVATED SARS-COV-2 VACCINE; CHADOX1 NCOV-19 VACCINE PREVENTS SARS-COV-2 PNEUMONIA; SARS-COV-2 RECOMBINANT SPIKE PROTEIN NANOPARTICLE VACCINE; SARS-COV-2 MRNA-1273 VACCINE; RECOMBINANT ADENOVIRUS TYPE-5 VECTORED COVID-19 VACCINE	22	21
	CORONAVIRUS DISEASE 2019 (COVID-19) PNEUMONIA; 2019 CORONAVIRUS DISEASE-ASSOCIATED SEVERE ACUTE		

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鎖定主題

ESI Research Fronts “冠狀病毒” top3研究前沿

SARS-COV-2主要蛋白酶抑制劑；靶向宿主特异性SARS-COV-2結構上保守的主蛋白酶；冠狀病毒 (SARS COV-2) 主要蛋白酶 (MPRO) 抑制劑；利用SARS-COV-2主要蛋白酶的印度香料；SARS-COV-2主要蛋白酶

COVID-19恐懼症量表 (C19P-S) ； COVID-19規模；冠狀病毒焦慮量表；情緒障礙對COVID-19壓力反應的影響不同；2019冠狀病毒病大流行

2019年冠狀病毒病 (COVID-19) 影響；2019年冠狀病毒病 (COVID-19) ； 2019年冠狀病毒病 (SARS-COV-2) ； 2019冠狀病毒病；冠狀病毒病

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Indicators

Highly Cited Papers by Research Front

Results List: Research Fronts

Filter Results By: Changing the filter field removes all current filters. Add Filter »

- × BLOCKCHAIN BASED DECENTRALIZED MANAGEMENT; PEER-TO-PEER ENERGY TRADING DRIVEN; FOG NODE BASED DISTRIBUTED BLOCKCHAIN CLOUD ARCHITECTURE; DECENTRALIZED P2P ENERGY TRADING
- × BLOCKCHAIN FOLK THEOREM; BLOCKCHAIN DISRUPTION; SMART CONTRACTS; ILLEGAL ACTIVITY; CRYPTOCURRENCY

Indicators Documents

Papers by Research Field

Sort By: Citations Customize Documents 1 - 10 of 42

Citation Trends

Documents

Filter Results By: Add Filter »

- × BLOCKCHAIN BASED DECENTRALIZED MANAGEMENT; PEER-TO-PEER ENERGY TRADING DRIVEN; FOG NODE BASED DISTRIBUTED BLOCKCHAIN CLOUD ARCHITECTURE; DECENTRALIZED P2P ENERGY TRADING

Include Results For: Highly Cited Papers

Rank	Research Fronts	Highly Cited Papers	Mean Year
1	BLOCKCHAIN BASED DECENTRALIZED MANAGEMENT; PEER-TO-PEER ENERGY TRADING DRIVEN; PEER-TO-PEER ENERGY TRADING; FOG NODE BASED DISTRIBUTED BLOCKCHAIN CLOUD ARCHITECTURE; DECENTRALIZED P2P ENERGY TRADING	42	2
2	SUSTAINABLE SUPPLY CHAIN MANAGEMENT; MEETING KEY SUPPLY CHAIN MANAGEMENT OBJECTIVES; SUPPLY CHAIN MANAGEMENT INTEGRATION; SUPPLY CHAIN MANAGEMENT; BLOCKCHAIN TECHNOLOGY ADOPTION	18	2
3	HEALTHCARE BLOCKCHAIN SYSTEM; BLOCKCHAIN DISTRIBUTED LEDGER TECHNOLOGIES; HEALTHCARE CLOUD-BASED DATA SECURITY; HEALTHCARE DATA GATEWAYS; BLOCKCHAIN TECHNOLOGY	9	2
4	INDUSTRIAL NETWORK INTRUSION DETECTION ALGORITHM BASED; SECURE FABRIC BLOCKCHAIN-BASED DATA TRANSMISSION TECHNIQUE; MULTIFEATURE DATA CLUSTERING OPTIMIZATION MODEL; INDUSTRIAL INTERNET-OF-THINGS; SMART CONTRACTS	4	2

Papers by Research Field

Sort By Citations Customize Documents 1 -

Citation Trends

Documents

Filter Results By ?
Add Filter »

- × SOLVING VARIATIONAL INEQUALITY PROBLEMS; VARIATIONAL INEQUALITY PROBLEMS; SPLIT COMMON FIXED POINT PROBLEM; SOLVING MONOTONE VARIATIONAL INEQUALITIES; SPLIT VARIATIONAL INEQUALITY

Include Results For
Top Papers

Clear Save Criteria

- PROJECTION SPLITTING ALGORITHMS FOR NONSELF OPERATORS**
By: QIN, XL; YAO, JC;
Source: JOURNAL OF NONLINEAR AND CONVEX ANALYSIS 18 (5): 925-935 SP. ISS. SI 2017
Research Fields: MATHEMATICS
Times Cited: 69
Research Front
- STRONG CONVERGENCE OF A SPLITTING ALGORITHM FOR TREATING MONOTONE OPERATORS**
By: CHO, SY; QIN, XL; WANG, L;
Source: FIXED POINT THEORY AND APPLICATIONS : - APR 9 2014
Research Fields: MATHEMATICS
Times Cited: 65
Research Front
- ON THE STRONG CONVERGENCE OF AN ITERATIVE PROCESS FOR ASYMPTOTICALLY STRICT PSEUDOCONTRACTIONS AND EQUILIBRIUM PROBLEMS**
By: CHO, SY; QIN, XL;
Source: APPLIED MATHEMATICS AND COMPUTATION 235 (3): 330-438 MAY 25 2014
Research Fields: MATHEMATICS
Times Cited: 64
Research Front
- ALGORITHMS WITH STRONG CONVERGENCE FOR THE SPLIT COMMON PROBLEM**
By: YAO, YH; AGARWAL, RP; POSTOLACHE, M; et.al
Source: FIXED POINT THEORY AND APPLICATIONS : - SEP 2014
Research Fields: MATHEMATICS
Times Cited: 63
Research Front
- WEAK AND STRONG CONVERGENCE OF ALGORITHMS FOR THE SUM OF SET-VALUED MONOTONE MAPPINGS**
By: BIN DEHAISH, BA; QIN, XL; LATIF, A; et.al
Source: JOURNAL OF NONLINEAR AND CONVEX ANALYSIS 16 (7): 1321-1335 SEP 2014
Research Fields: MATHEMATICS
Times Cited: 62
Research Front

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Strong convergence of a splitting algorithm for treating monotone operators

作者: Cho, SY (Cho, Sun Young)¹; Qin, XL (Qin, Xiaolong)^{2, 3}; Wang, L (Wang, Lin)⁴
FIXED POINT THEORY AND APPLICATIONS
文獻號碼: 94
DOI: 10.1186/1687-1812-2014-94
出版時間: APR 9 2014
文獻類型: Article

摘要
In this paper, we investigate a splitting algorithm for treating monotone operators. Strong convergence theorems are established in the framework of Hilbert spaces.

關鍵字
作者關鍵字: maximal monotone operator; fixed point; nonexpansive mapping; proximal point algorithm; zero point
Keywords Plus: ITERATIVE ALGORITHM; FIXED-POINTS; ZERO POINTS; EQUILIBRIUM PROBLEMS; APPROXIMATION; SEMIGROUPS; MAPPINGS; THEOREMS

作者資訊
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Yunnan Univ Finance & Econ, Coll Stat & Math, Kunming 650221, Peoples R China

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Electric Field Effect in Atomically Thin Carbon Films

K. S. Novoselov¹, A. K. Geim^{1,*}, S. V. Morozov², D. Jiang¹, Y. Zhang¹, S. V. Dubonos², I. V. Grigorieva¹, A...

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DOI: 10.1039/c5ee03874j
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Abstract
Today's best perovskite solar cells use a mixture of formamidinium and methylammonium as the monovalent cations. With the addition of inorganic cesium, the resulting triple cation perovskite compositions are thermally more stable, contain less phase impurities and are less sensitive to processing conditions. This enables more reproducible device performances to reach a stabilized power output of 21.1% and similar to 18% after 250 hours under operational conditions. These properties are key for the industrialization of perovskite photovoltaics.

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Volume: 4 Issue: 2 Page: 173-182

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Published: FEB 2018

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Abstract

IMPORTANCE If not promptly recognized, endocrine dysfunction can be life threatening. The incidence and risk of developing such adverse events (AEs) following the use of immune checkpoint inhibitor (ICI) regimens are unknown.

OBJECTIVE To compare the incidence and risk of endocrine AEs following treatment with US Food and Drug Administration-approved ICI regimens.

DATA SOURCES A PubMed search through July 18, 2016, using the following keywords was performed: "ipilimumab," "MDX-010," "nivolumab," "BMS-963558," "pembrolizumab," "MK-3475," "atezolizumab," "MPDL3280A," and "phase."

STUDY SELECTION Thirty-eight randomized clinical trials evaluating the usage of these ICIs for treatment of advanced solid tumors were identified, resulting in a total of 7551 patients who were eligible for meta-analysis. Regimens were categorized by class into monotherapy with a PD-1 (programmed cell death protein 1) inhibitor, a CTLA-4 (cytotoxic T lymphocyte-associated protein-4) inhibitor, or a PD-L1 (programmed cell death 1 ligand 1) inhibitor, and combination therapy with PD-1 plus CTLA-4 inhibitors.

DATA EXTRACTION AND SYNTHESIS The data were extracted by 1 primary reviewer (R.B.-S.) and then independently reviewed by 2 secondary reviewers (W.T.B. and A.C.G.-C.) following Preferred Reporting Items for Systematic Reviews and Meta-analyses guidelines. Inferences on the incidence of AEs were made using log-odds random effects models.

MAIN OUTCOMES AND MEASURES Incidence of all-grade hypothyroidism, hyperthyroidism, hypophysitis, primary adrenal insufficiency, and insulin-deficient diabetes.

RESULTS Overall, 38 randomized clinical trials comprising 7551 patients were included in this systematic review and meta-analysis. The incidence of both hypothyroidism and hyperthyroidism was highest in patients receiving combination therapy. Patients on the combination regimen were significantly more likely to experience hypothyroidism (odds ratio [OR], 3.81; 95% CI, 2.10-6.93, P < .001) and hyperthyroidism (OR, 4.27; 95% CI, 2.05-8.90, P < .001) than patients on ipilimumab. Compared with patients on ipilimumab, those on PD-1 inhibitors had a higher risk of developing hypothyroidism (OR, 1.89; 95% CI, 1.17-3.05, P = .03). The risk of hyperthyroidism, but not hypothyroidism, was significantly greater with PD-1 than with PD-L1 inhibitors (OR, 5.36; 95% CI, 2.04-14.08; P = .002). While patients who received PD-1 inhibitors were significantly less likely to experience hypophysitis than those receiving ipilimumab (OR, 0.29; 95% CI, 0.18-0.49; P < .001), those who received combination therapy were significantly more likely to develop it (OR, 7.79; 95% CI, 1.39-4.60; P = .001). For primary adrenal insufficiency and insulin-deficient diabetes, no statistical inferences were

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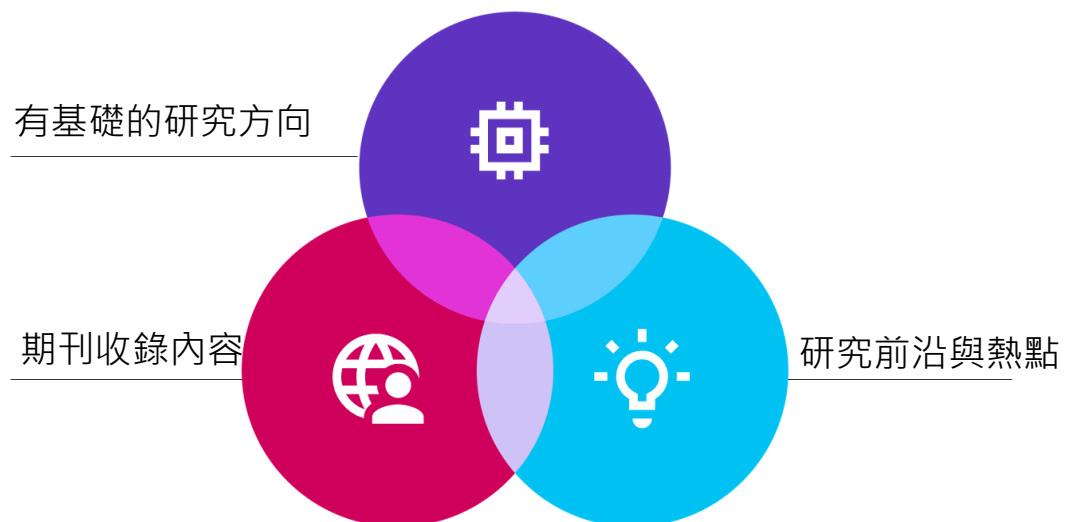
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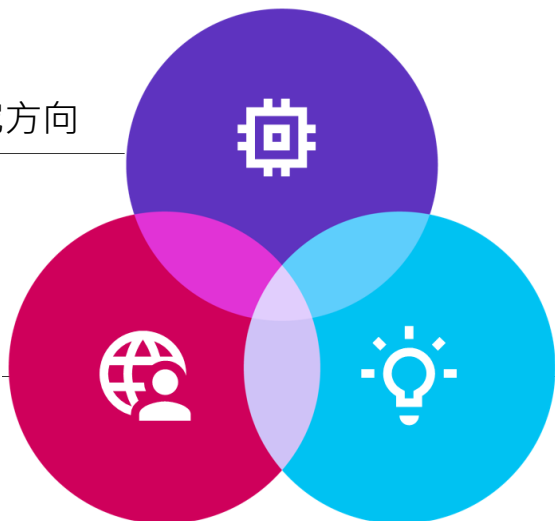
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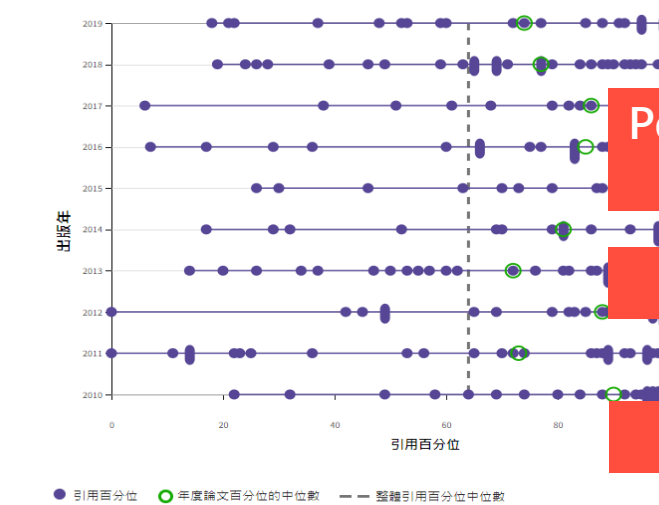
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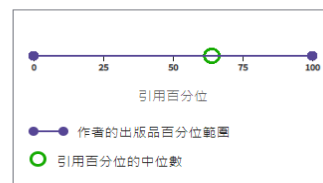
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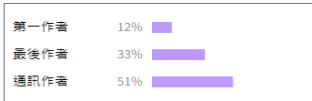
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5	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction Zhang, JQ; Zhao, YE; (...); Wang, GX Dec 2018 NATURE CATALYSIS 1 (12) , pp.985-992	0	0	70	201	200	118.75	475
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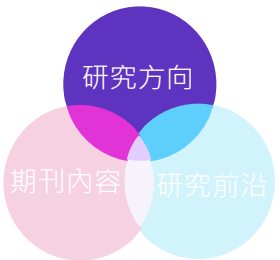
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作者: Song, YQ (Song, Yuanquan)^{1, 2}; Li, D (Li, Dan)^{1, 2}; Farrelly, O (Farrelly, Olivia)³; Miles, L (Miles, Leann)⁴; Li, F (Li, Feng)^{1, 2}; Kim, SE (Kim, Sung Eun)^{5, 6}; Lo, TY (Lo, Tsz Y.)¹; Wang, F (Wang, Fei)⁷; Li, T (Li, Tun)^{5, 6}; Thompson-Peer, KL (Thompson-Peer, Katherine L.)^{5, 6}; ...更多

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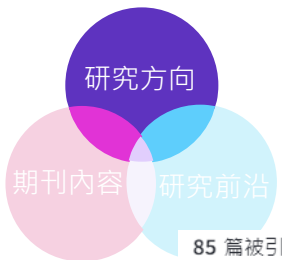
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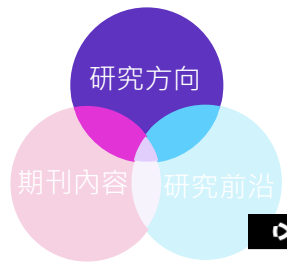
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- 2020 1,801
- 2019 1,760
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0/18,058 新增至勾選清單 匯出 > 相關性 < 1 / 362 >

1 Structure, kinetic properties and biological function of mechanosensitive Piezo channels 5 引用日期

Fang, XZ; Zhou, J.; Shang, Y
Jan 9 2021 | CELL AND BIOSCIENCE 11 (1)

Mechanotransduction couples mechanical stimulation with ion flux, which is critical for normal biological processes involved in neuronal cell development, pain sensation, and red blood cell volume regulation. Although they are key mechanotransducers, mechanosensitive ion channels in mammals have remained difficult to identify. In 2010, Coste and coll... 顯示更多

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2 Levering Mechanically Activated Piezo Channels for Potential Pharmacological Intervention 22 引用日期

Xiao, BL
2020 | ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY VOL 60 60 , pp.195-218

基於Piezo結構的藥物開發可能性 as key mechanotransducers for or the potential of Piezo channel drug discovery. First, both mouse and human genetic studies have unequivocally demonstrated the pr... 顯示更多

137 參考文獻 (24 共用的)

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3 Piezos thrive under pressure: mechanically activated ion channels in health and disease 133 引用日期

Murthy, SE; Dubin, AE and Patapoutian, A
Dec 2017 | NATURE REVIEWS MOLECULAR CELL BIOLOGY 18 (12), pp.771-+

Cellular mechanotransduction, the process of translating mechanical forces into biological signals, is crucial for a wide range of physiological processes. A role for ion channels in sensing mechanical forces has been proposed for decades, but their identity in mammals remained largely elusive until the discovery of Piezos. Recent research on Piezos has unde... 顯示更多

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1 Touch, Tension, and Transduction - The Function and Regulation of Piezo Ion Channels 171 引用日期
Wu, J; Lewis, AH and Grandl, J
Jan 2017 | TRENDS IN BIOCHEMICAL SCIENCES 42 (1), pp.57-71
83 參考文獻 (0 共用的)
In 2010, two proteins, Piezo1 and Piezo2, were identified as the long-sought molecular carriers of an excitatory mechanically activated current found in many cells. This discovery has opened the floodgates for studying a vast number of mechanotransduction pathways. This research has identified Piezos ... 顯示更多
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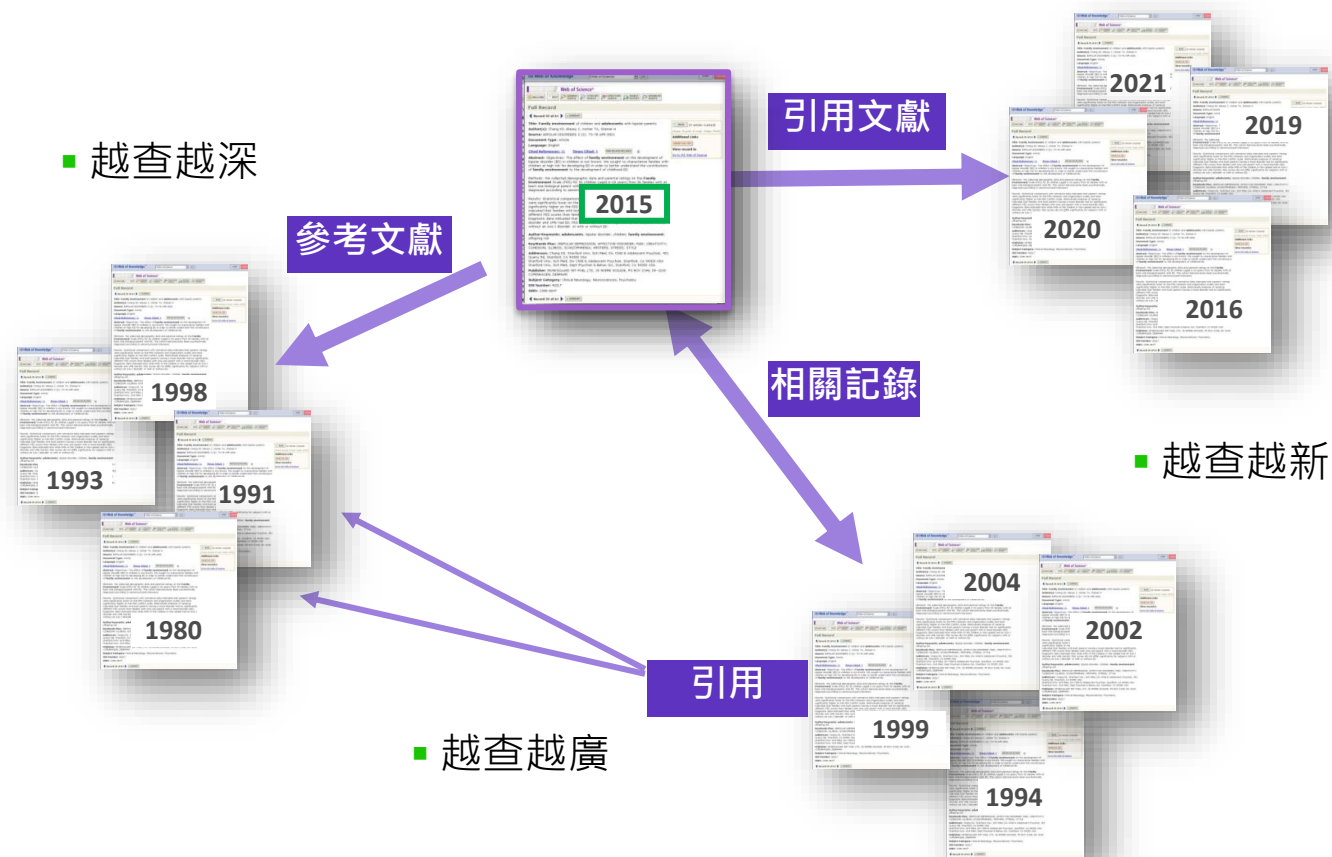
關於Piezo研究的綜述文獻

2 Structural Designs and Mechanogating Mechanisms of the Mechanosensitive Piezo Channels 8 引用日期
Jiang, Y; Yang, XZ; (...); Xiao, BL
Jun 2021 | TRENDS IN BIOCHEMICAL SCIENCES 46 (6), pp.472-488
140 參考文獻 (0 共用的)
The evolutionarily conserved Piezo channel family, including Piezo1 and Piezo2 in mammals, serves as versatile mechanotransducers in various cell types and consequently governs fundamental pathophysiological processes ranging from vascular development to the sense of gentle touch and tactile pain. Piezo1/2 possess a unique 38-tran: ... 顯示更多
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P蛋白抑制神經軸突再生

摘要: Neurons exhibit a limited ability of repair. Given that mechanical forces affect neuronal outgrowth, it is important to investigate whether mechanosensitive ion channels may regulate axon regeneration. Here, we show that DmPiezo, a Ca²⁺-permeable non-selective cation channel, functions as an intrinsic inhibitor for axon regeneration in Drosophila. DmPiezo activation during axon regeneration induces local Ca²⁺ transients at the growth cone, leading to activation of nitric oxide synthase and the downstream cGMP kinase Forging or PKG to restrict axon outgrowth. Loss of DmPiezo enhances axon regeneration of sensory neurons in the peripheral and CNS. Conditional knockout of its mammalian homolog Piezo1 in vivo accelerates regeneration, while its pharmacological activation in vitro inhibits regeneration, suggesting the role of Piezo1 in inhibiting regeneration may be evolutionarily conserved. These findings provide a precedent for the involvement of mechanosensitive channels in axon regeneration and add a potential target for modulating nervous system repair.

參考文獻

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發現P蛋白啟動劑

摘要: Piezo ion channels are activated by various types of mechanical stimuli and function as biological pressure sensors in both vertebrates and invertebrates. To date, mechanical stimuli are the only means to activate Piezo ion channels and whether other modes of activation exist is not known. In this study, we screened similar to 3.25 million compounds using a cell-based fluorescence assay and identified a synthetic small molecule we termed Yoda1 that acts as an agonist for both human and mouse Piezo1. Functional studies in cells revealed that Yoda1 affects the sensitivity and the inactivation kinetics of mechanically induced responses. Characterization of Yoda1 in artificial lipid bilayer showed that Piezo1 activates purified Piezo1 channels in the absence of other cellular components. Our studies demonstrate that Piezo1 is amenable to chemical activation and raise the possibility that endogenous Piezo1 agonists might exist. Yoda1 will serve as a key tool compound to study Piezo1 regulation and function.

引用

基於P蛋白結構的藥物開發可能性

摘要: The mechanically activated Piezo channels, including Piezo1 and Piezo2 in mammals, function as key mechanotransducers for converting mechanical force into electrochemical signals. This review highlights key evidence for the potential of Piezo channel drug discovery. First, both mouse and human genetic studies have unequivocally demonstrated the prominent role of Piezo channels in various mammalian physiologies and pathophysiologies, validating their potential as novel therapeutic targets. Second, the cryo-electron microscopy structure of the 2,547-residue mouse Piezo1 trimer has been determined, providing a solid foundation for studying its structure-function relationship and drug action mechanisms, and conducting virtual drug screening. Third, Piezo1 chemical activators, named Yoda1 and Jd012, have been identifying through high-throughput screening assays, demonstrating the druggability of Piezo channels. However, the pharmacology of Piezo channels is in its infancy. By establishing an integrated drug discovery platform, we may hopefully discover and develop a best-of-class masters for battling Piezo-related human diseases.

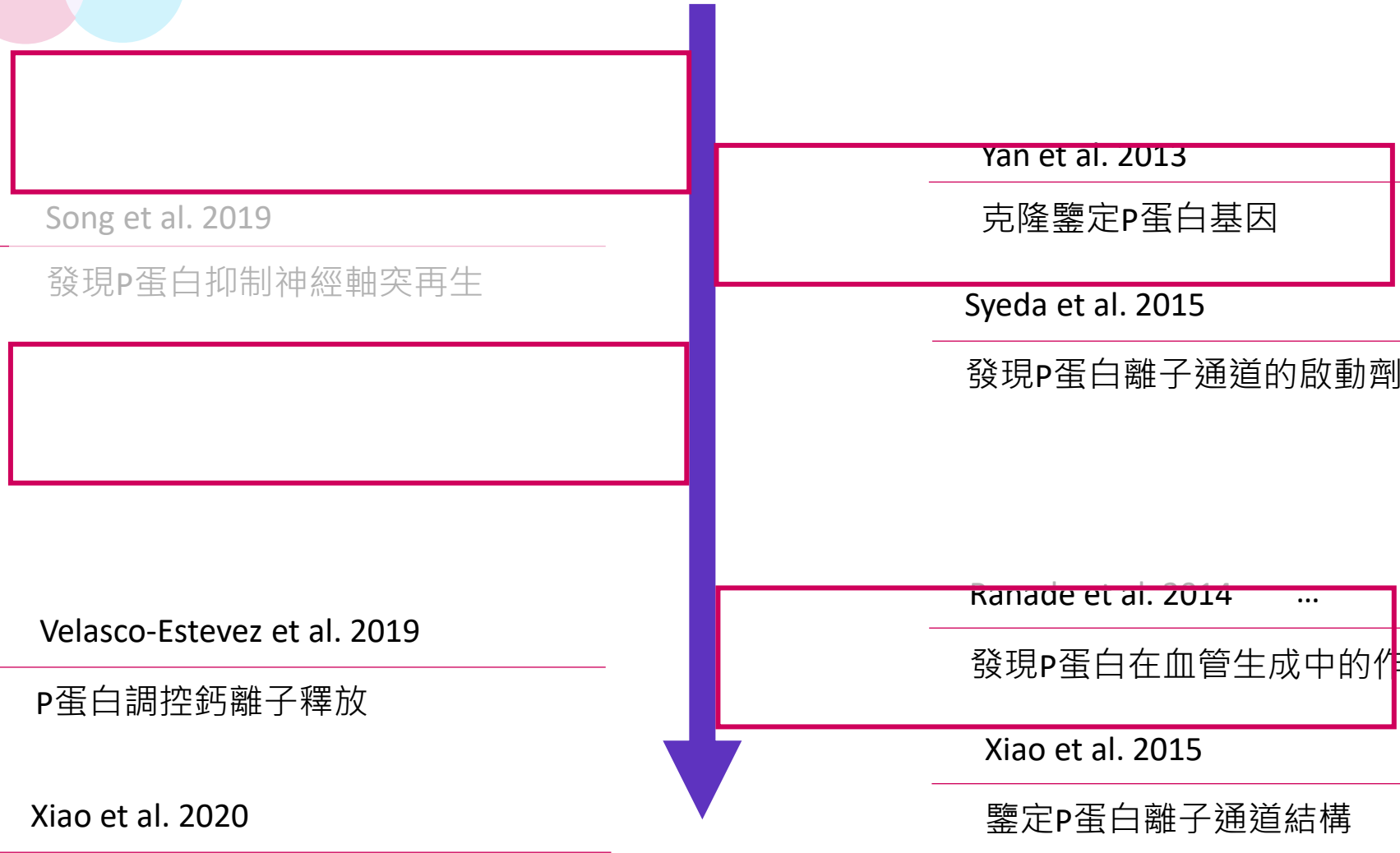
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摘要: Piezo proteins are evolutionarily conserved and functionally diverse mechanosensitive cation channels. However, the overall structural architecture and gating mechanisms of Piezo channels have remained unknown. Here we determine the cryo-electron microscopy structures of the full-length (2,547 amino acids) mouse Piezo1 (Piezo1) at a resolution of 4.8 angstrom. Piezo1 forms a trimeric propeller-like structure (about 900 kilodalton), with the extracellular domains resembling three distal blades and a central cap. The transmembrane region has 14 apparently resolved segments per subunit. These segments form three peripheral wings and a central pore module that endows a potential ion-conducting pore. The other flexible extracellular blade domains are connected to the central intracellular domain by three long-beam-like structures. This trimetric architecture suggests that Piezo1 may use its peripheral regions as force sensors to gate the central ion-conducting pore.



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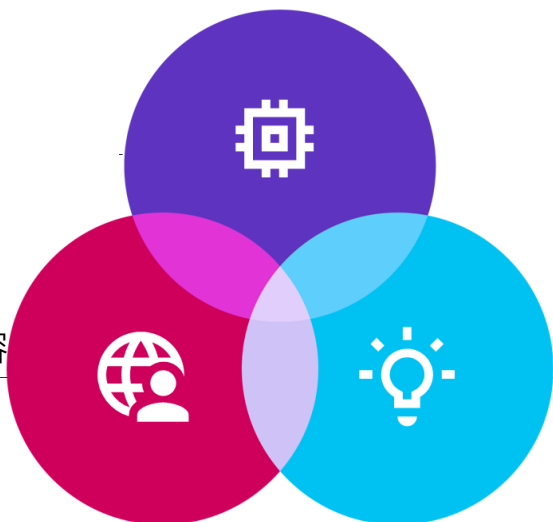
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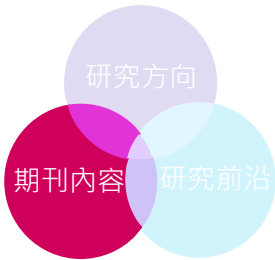
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1 Influence of Sox protein SUMOylation on neural development and regeneration
Chang, KC
Mar 2022 | NEURAL REGENERATION RESEARCH 17 (3), pp.477-481
70 參考文獻
SRV-related HMG-box (Sox) transcription factors are known to regulate central nervous system development and are involved in several neurological diseases. Post-translational modification of Sox proteins is known to alter their functions in the central nervous system. Among the different types of post-translational modification, small ubiquitin-like mod ... 顯示更多
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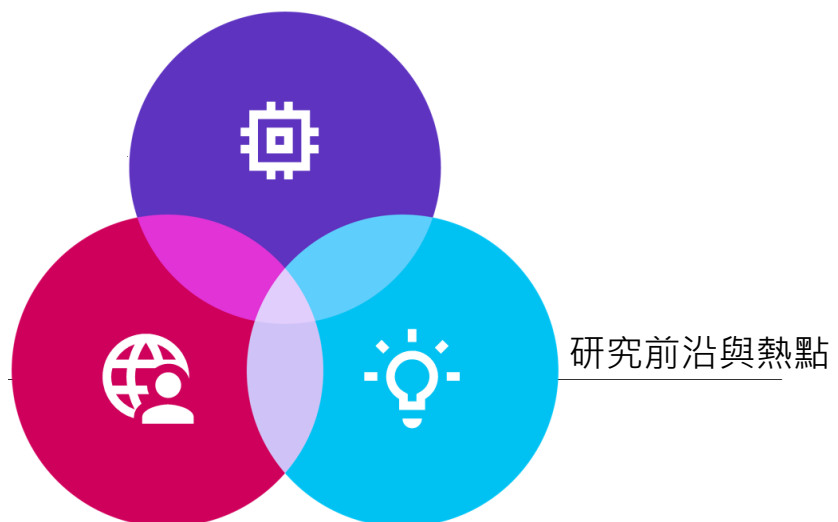
2 The role of miRNA in retinal ganglion cell health and disease
Mead, B and Tomarev, S
Mar 2022 | NEURAL REGENERATION RESEARCH 17 (3), pp.516-522
119 參考文獻
miRNA are short non-coding RNA responsible for the knockdown of proteins through their targeting and silencing of complementary mRNA sequences. The miRNA landscape of a cell thus affects the levels of its proteins and has significant consequences to its health. Deviations in this miRNA landscape have been implicated in a variety of ne ... 顯示更多
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3 Kruppel-like factor 7 attenuates hippocampal neuronal injury after traumatic brain injury
Li, WY; Fu, XM; (...); Wang, Y
Mar 2022 | NEURAL REGENERATION RESEARCH 17 (3), pp.661-672
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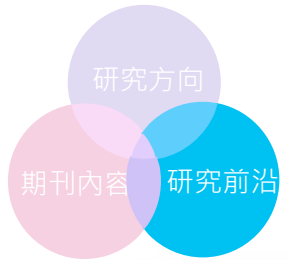
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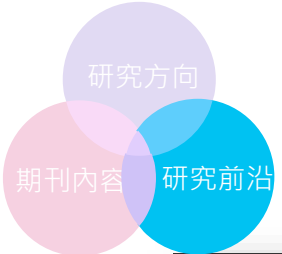
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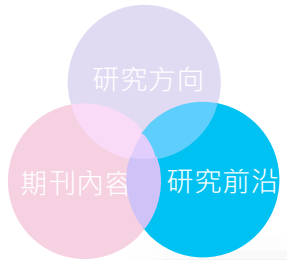
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	SEVERE TRAUMATIC BRAIN INJURY; TRAUMATIC BRAIN INJURY; TRAUMATIC INTRACRANIAL HYPERTENSION; INTRACRANIAL HYPERTENSION; EARLY SUSTAINED PROPHYLACTIC HYPOTHERMIA	4	201
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	PERIPHERAL NERVE INTRINSIC AXONAL GROWTH PROGRAM; INTRINSIC CONTROL; AXON REGENERATION; SYSTEMS-LEVEL ANALYSIS	2	20

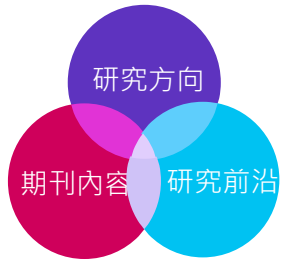
機械張力促進細胞分裂

創傷性顱內高壓

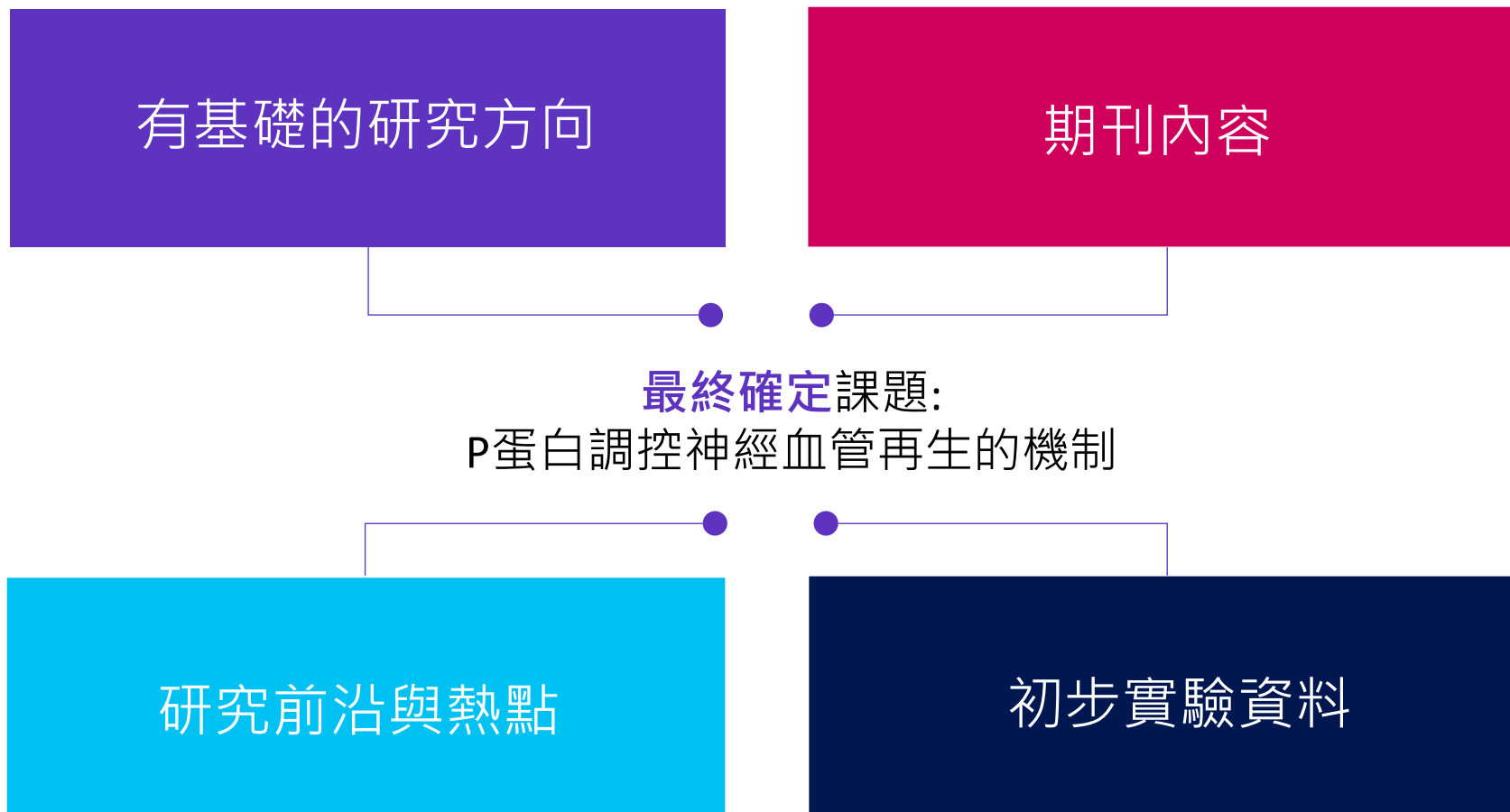
神經軸突再生的內在因數

利用Essential Science Indicators發現研究前沿

- 獲取與我申請基金選題方向相關的研究前沿與熱點
- 利用研究前沿與熱點預測我的研究領域未來發展趨勢

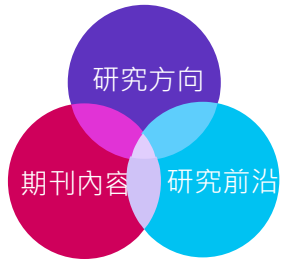


綜合個人研究基礎、期刊內容及全球研究前沿與熱點及初步實驗資料確定課題選題



最終確定基金申請的選題

1. 利用Web of Science梳理申請基金的研究基礎
2. 結合期刊內容調整主題方向
3. 參考Essential Science Indicators (ESI)研究前沿進行前瞻性思考



小結：利用WOS獲取研究基礎及現狀，利用ESI把握全球相關研究熱點。期刊內容和實驗資料最終確定選題

現有研究方向與研究基礎:

P蛋白調控神經再生

從引文網路獲得的啟示:

P蛋白調控血管生成、開發P蛋白相關的藥物

期刊內容

關注脊髓損傷修復

尤其關注神經血管損傷修復

鼓勵利用多種模式動物

最終確定課題:

P蛋白調控神經血管再生的機制

ESI研究前沿與熱點:

P蛋白感受機械張力促進細胞分裂

創傷性顱內高壓

神經再生的外在因素和內在因數

初步實驗資料:

未發表的實驗資料

從文獻調研獲取已報導的實驗資料

最終確定基金申請的選題

1. 利用Web of Science梳理申請基金的研究基礎
2. 結合期刊內容調整主題方向
3. 參考Essential Science Indicators (ESI)研究前沿進行前瞻性思考

測試你對主題背景的掌握度如何？

透過Web of Science掌握研究主題概況

近____年來，關於_____的研究方向，全球呈現_____趨勢，其中較多的論文成果來自於_____(國家/地區)。發表課題相關論文較多的研究機構有_____。

全球的研究人員主要從_____等領域對相關課題進行研究，同時我們也注意到_____等領域的研究可能會給我們帶來不一樣的視角和靈感。

相關課題的研究成果目前主要發表在_____等期刊上。在相關研究領域中，_____等幾位學者有較多的論文產出。

影響力較高的幾篇論文分別來自於__(國家/地區)的__(機構)的__學者。

近半年來_____方向引起了較多科研人員的關注。

選擇_____綜述文獻作為快速瞭解這個主題的切入點。

最新的研究進展指出，該研究方向目前發展_____。

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- 從該領域國內外研究現狀、發展動態與趨勢、存在的問題與挑戰來論述科學意義

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文獻 作者 參考文獻檢索 化學結構

主題 axon regeneration

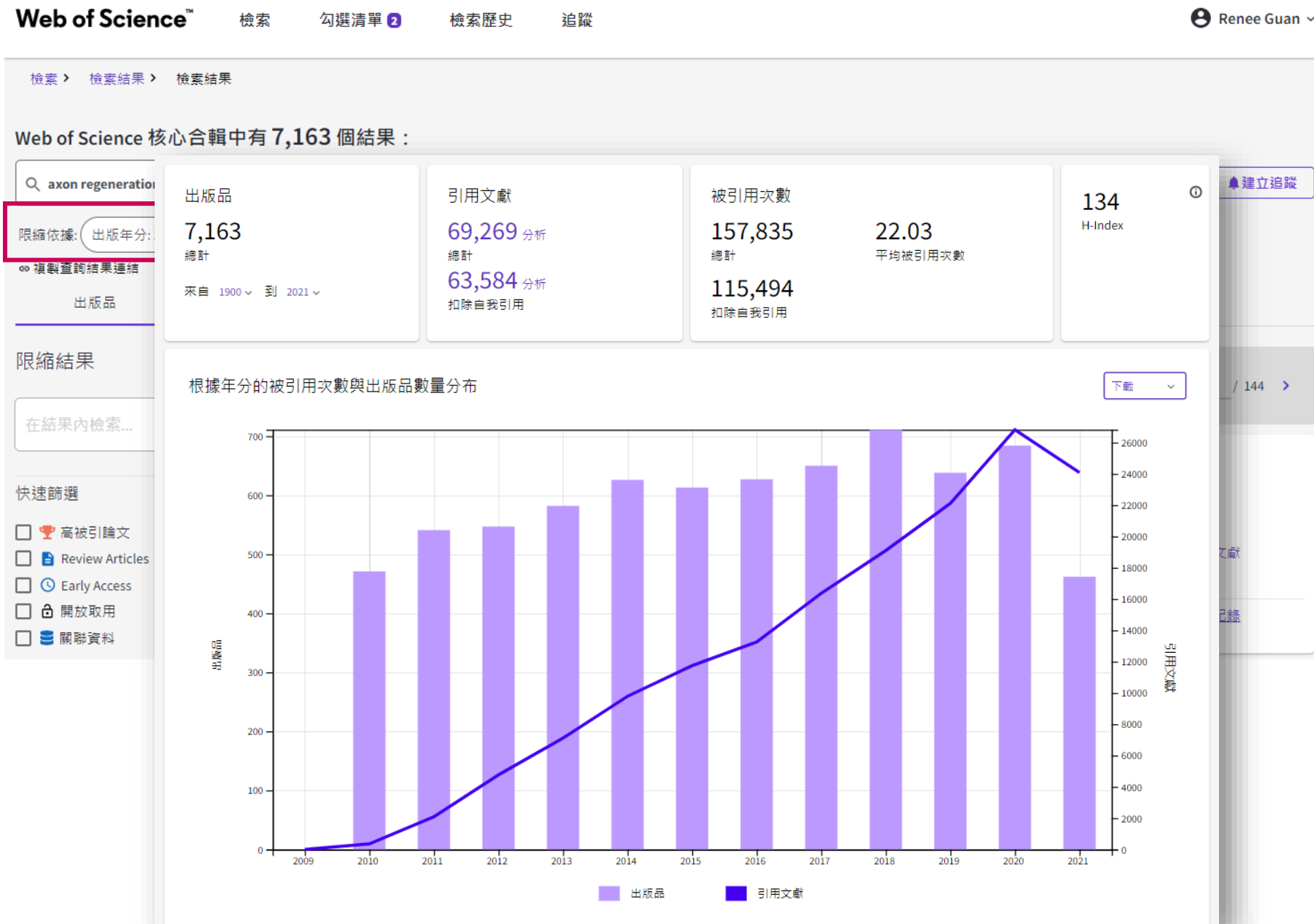
+ 新增列 + 新增日期範圍 進階檢索

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檢索查詢神經軸突再生領域國內外研究現狀

利用Web of Science 檢索依據所需要的 資料及資訊

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利用Web of Science 檢索依據所需要的 資料及資訊

- 從該領域國內外研究現狀、發展動態與趨勢、存在的問題與挑戰來論述科學意義

The screenshot shows the Web of Science search results page for the query "axon regeneration". The page is in Chinese and displays 7,163 results. The search bar contains "axon regeneration (主題)". The results are filtered by "出版年分" (Publication Year) from 2010 to 2022. The first result is highlighted, showing the title "Influence of Sox protein SUMOylation on neural development and regeneration" by Chang, KC, published in NEURAL REGENERATION RESEARCH in March 2022. The article has 70 references and is available in full text. The page also includes navigation options like "分析結果" (Analyze Results), "引用文獻報告" (Citation Report), and "建立追蹤" (Build Tracking).

Web of Science™ 檢索 勾選清單 2 檢索歷史 追蹤

Web of Science 領域 相關學科研究

Renee Guan

檢索 > 檢索結果 > 檢索結果

Web of Science 核心合輯中有 7,163 個結果：

axon regeneration (主題) 分析結果 引用文獻報告 建立追蹤

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- Review Articles 1,004
- Early Access 33
- 開放取用 4,112
- 關聯資料 157

0/7,163 新增至勾選清單 匯出

出版日期: 最新優先 < 1 / 144 >

1 Influence of Sox protein SUMOylation on neural development and regeneration
Chang, KC
Mar 2022 | NEURAL REGENERATION RESEARCH 17 (3), pp.477-481
70 參考文獻
SRY-related HMG-box (Sox) transcription factors are known to regulate central nervous system development and are involved in several neurological diseases. Post-translational modification of Sox proteins is known to alter their functions in the central nervous system. Among the different types of post-translational modification, small ubiquitin-like mod ... 顯示更多
檢視全文 *** 相關記錄

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文獻類型

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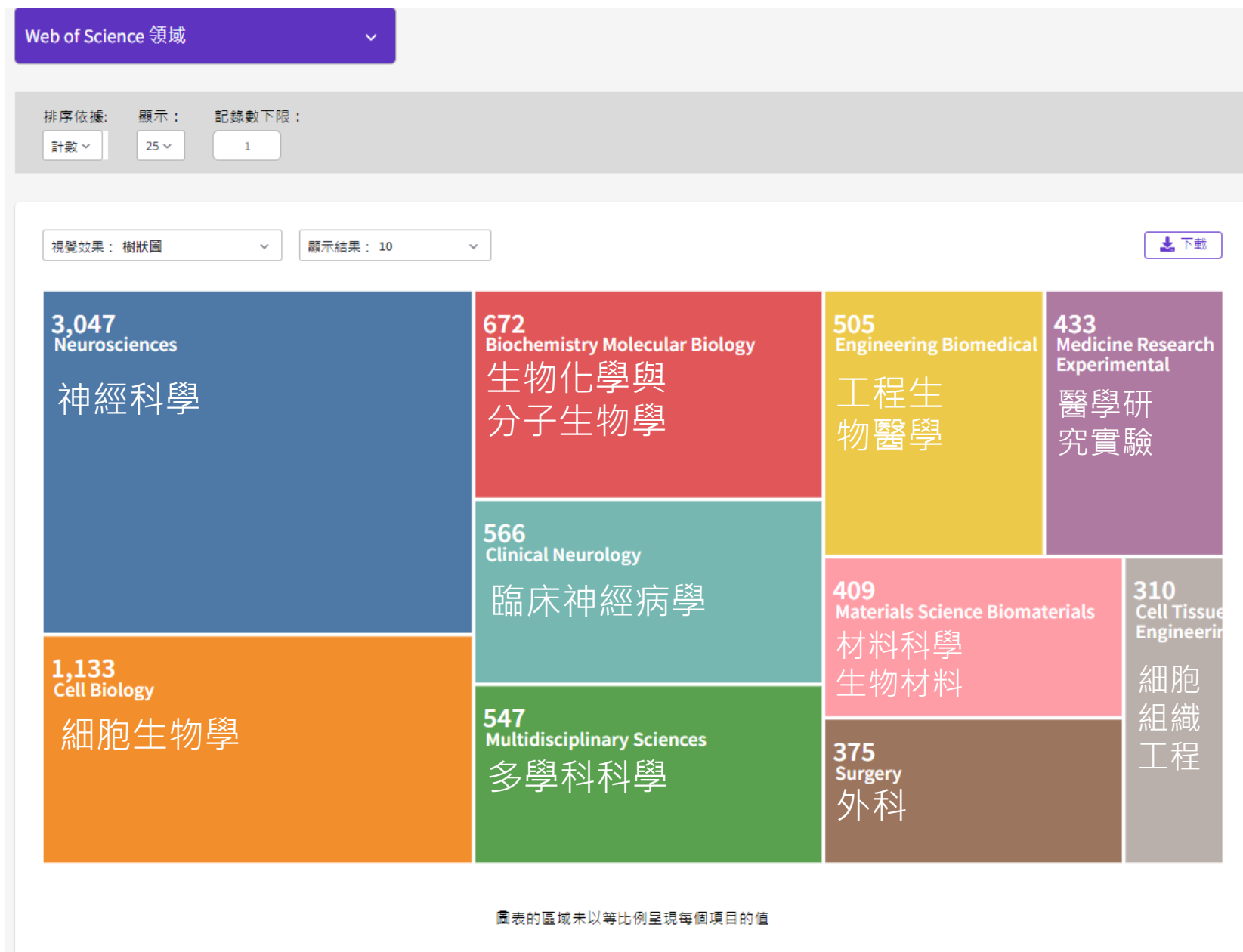
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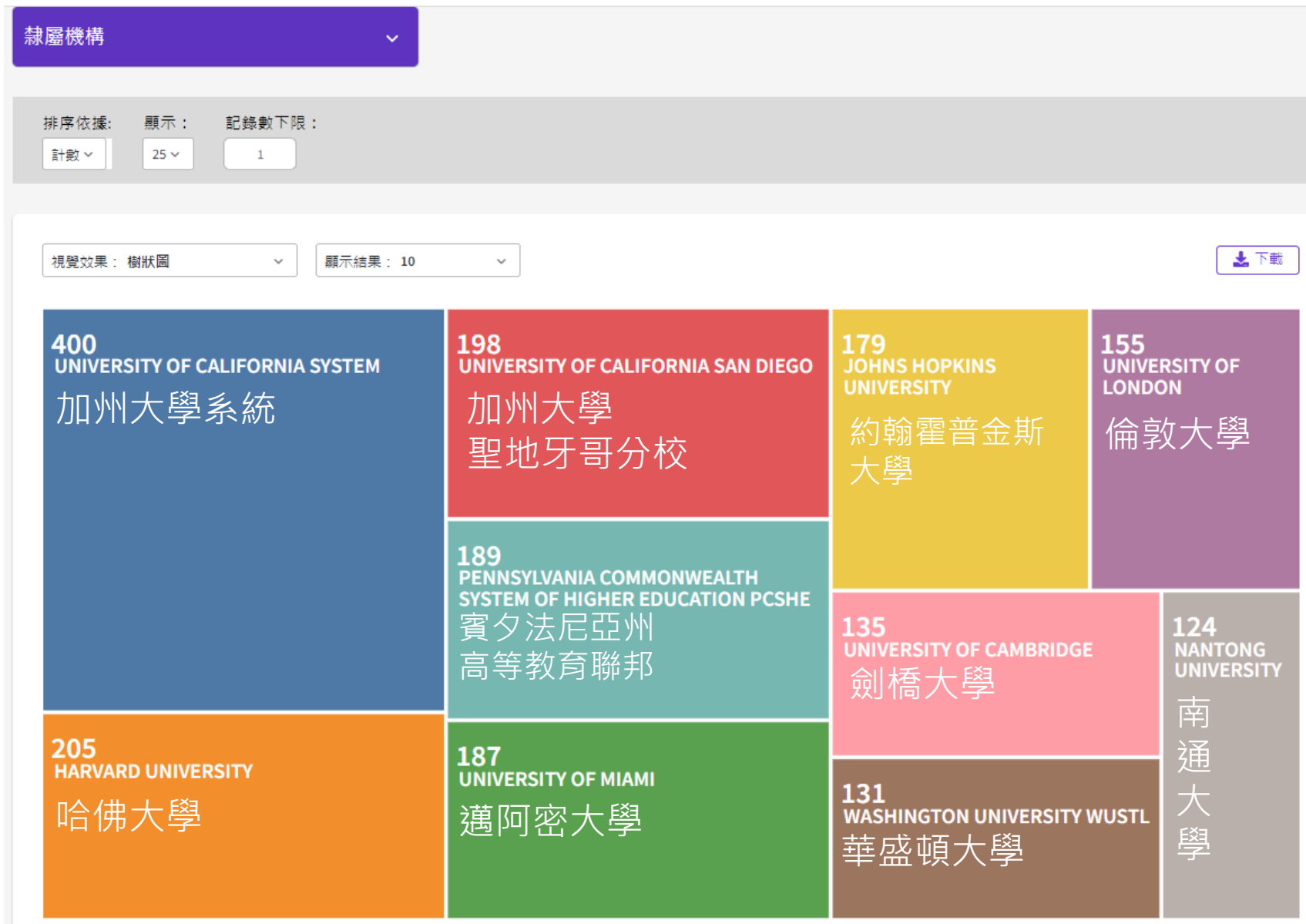


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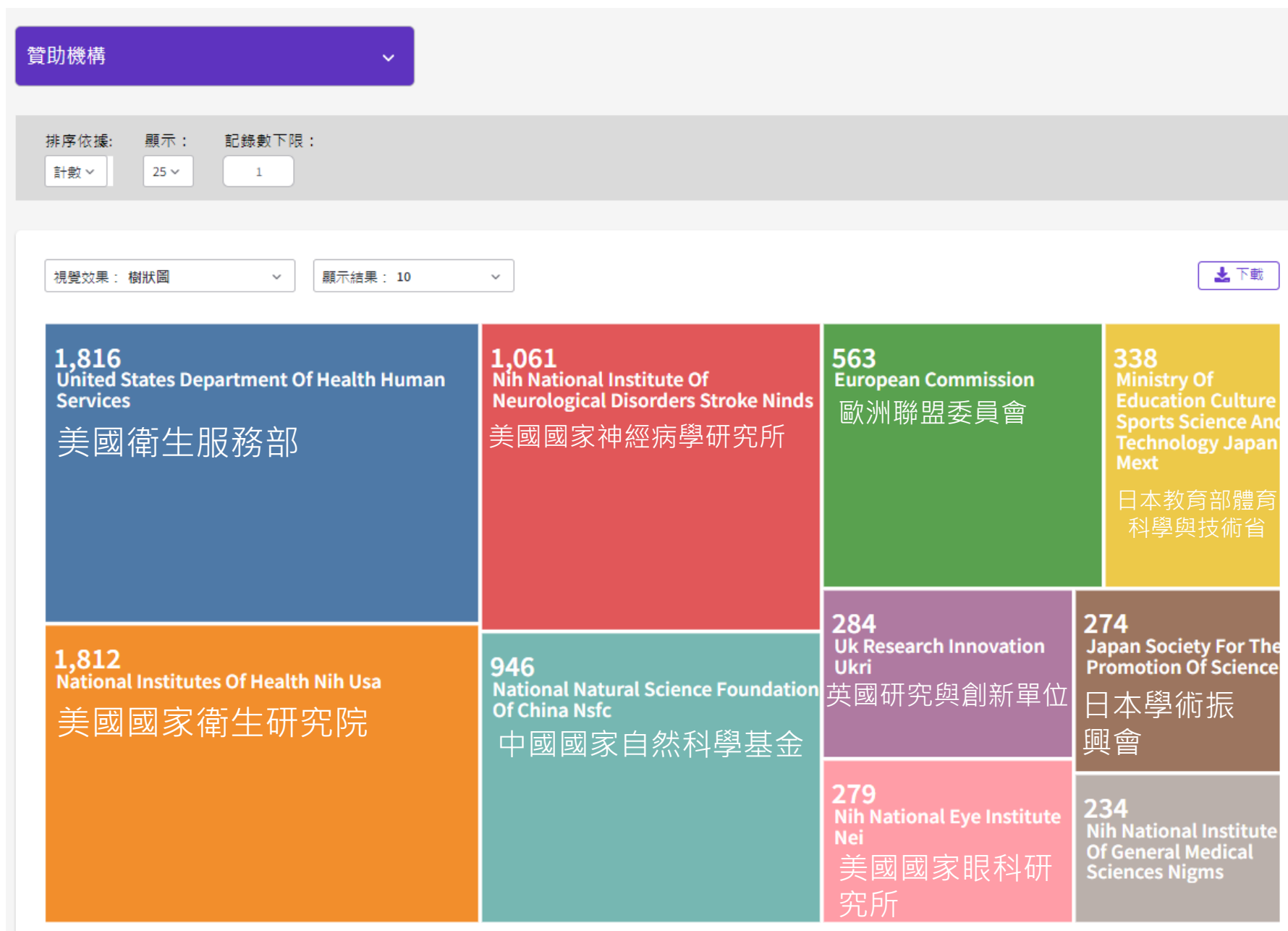
89 Wang Y	62 Li Y Ying Li UCL 	54 Gordon T Tessa Gordon U of Toronto 	49 He ZG Zhigang He Harvard U 	48 Lemmon VP Vance Lemmon U of Miami 
67 Wang J	60 Fawcett JW James Fawcett U of Cambridge 	47 Goldberg JL Jeffrey Goldberg Stanford U 	46 Schachner M Melitta Schachner Rutgers State U 	

利用Web of Science 檢索依據所需要的 資料及資訊

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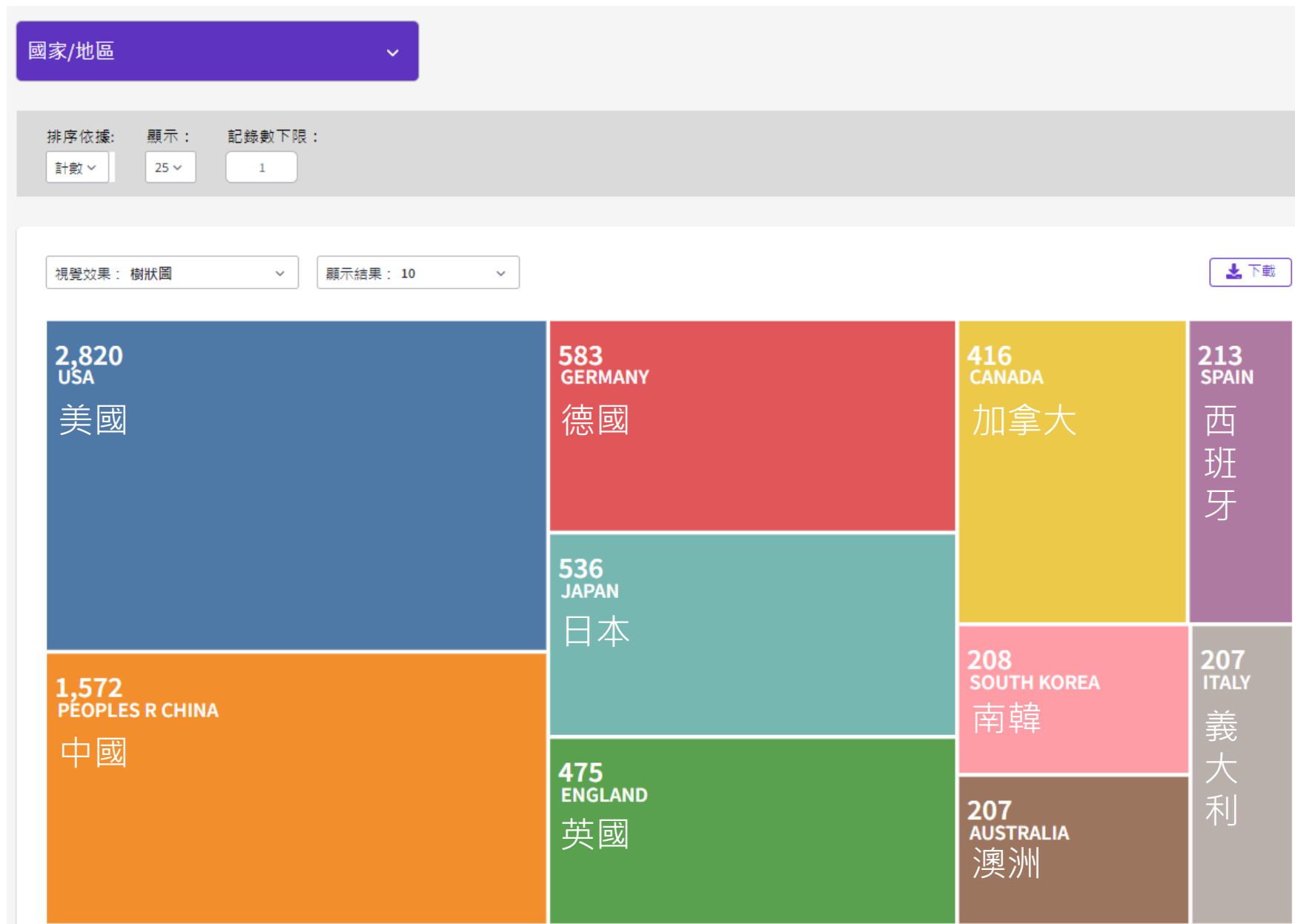


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- 語言
- 研討會名稱
- 叢書名稱
- Web of Science 專輯

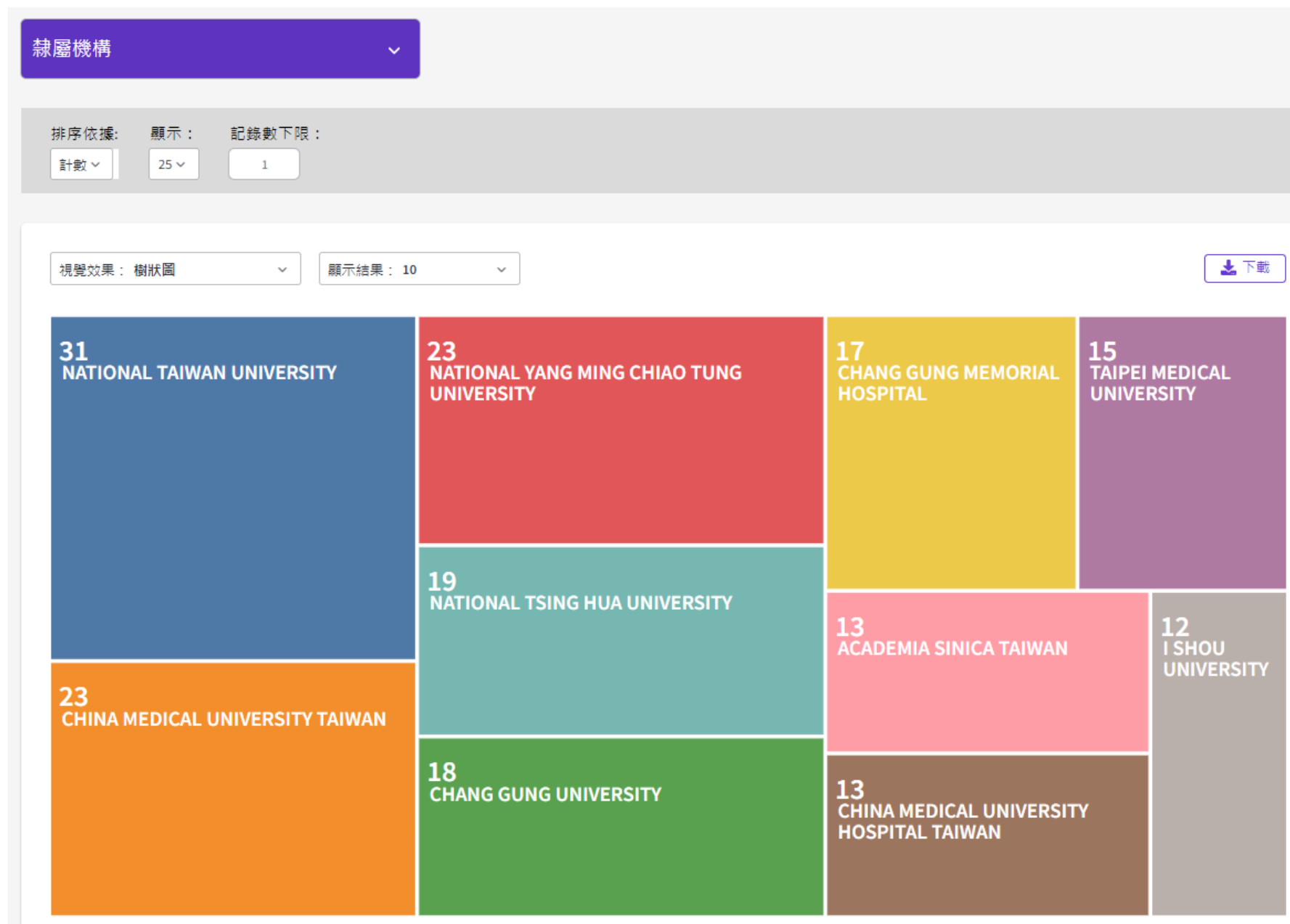


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WOS助力課題分析

近____年來，關於_____的研究方向，全球呈現_____趨勢，其中較多的論文成果來自於_____(國家/地區)。發表課題相關論文較多的研究機構有_____。

機構擴展

全球的研究人員主要從_____等領域對相關課題進行研究，同時我們也注意到_____等領域的研究可能會給我們帶來不一樣的視角和靈感。

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追蹤單一篇文章被引用的後續，以利掌握論文影響力

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類型	檢查查詢和結果	檢索結果	動作
目前工作階段			
文獻	Ahmed et al. 2022, Artificial Intelligence Opportunities, Challenges, and Future 2:15 PM		鏈接
檢索	#4 OR #5 and 開放取用 2:12 PM	633,243	鏈接
文獻	Wang et al. 2021, Enhanced quality m and computer vision 1:58 PM		鏈接
文獻	Xiang et al. 2021, Flexible and Waterp for Electromagnetic Wave Absorption, EMI Shielding, and Photothermal Conversion 1:56 PM		鏈接

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檢索 > 檢索結果

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- 熱門論文 205
- Review Articles 21,726
- Early Access 5,218
- 開放取用 633,243
- 關聯資料 8,976

出版日期: 最新優先 < 1 / 2,000 >

0/633,243 新增至勾選清單 匯出 ▾

1 **Artificial** Intelligence for the Novel Corona Virus (COVID-19) Pandemic: Opportunities, Challenges, and Future Directions
Ahmed, A; Boopathy, P and Rajan, SS
Jul-dec 2022 | INTERNATIONAL JOURNAL OF E-HEALTH AND MEDICAL COMMUNICATIONS 13 (2) 65 參考文獻

The COVID-19 outbreak has created havoc around the world and has brought life to a disturbing halt claiming thousands of lives worldwide with the infected cases rising every day. With technological advancements in **artificial** intelligence (AI), AI-based platforms can be used to deal with the COVID-19 pandemic and accelerate the processes ranging from (... [顯示更多](#))

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2 **Binary Classification** of COVID-19 CT Images Using CNN: COVID Diagnosis Using CT
Shambhu, S; Koundal, D; (...); Sharma, C
Jul-dec 2022 | INTERNATIONAL JOURNAL OF E-HEALTH AND MEDICAL COMMUNICATIONS 13 (2) 21

可即時追蹤某課題、某作者、某機構、某期刊等的最新研究進展

引文追蹤：隨時掌握最新引用

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Deep learning

作者: LeCun, Y (LeCun, Yann)^{1, 2}; Bengio, Y (Bengio, Yoshua)
檢視 Web of Science ResearcherID 和 ORCID (Clarivate)

NATURE
卷冊: 521 期: 7553 頁面: 436-444
DOI: 10.1038/nature14539
出版時間: MAY 28 2015
文獻類型: Review

摘要
Deep learning allows computational models that are capable of learning to perform a task from example data without any task-specific instructions. These methods have dramatically improved performance in many applications such as image recognition and machine translation. Deep learning is based on a class of machine learning algorithms called artificial neural networks, which are inspired by the structure and function of the human brain. Deep learning has been applied to a wide range of tasks, including image recognition, machine translation, speech recognition, and video classification. Deep learning has also been used to discover new drugs and to understand the structure of proteins. Deep learning is a powerful tool for many applications and is expected to continue to play a major role in the development of artificial intelligence.

關鍵字
Keywords Plus: NEURAL-NETWORK; ARCHITECTURE; RECOGNITION; ALGORITHM

作者資訊
通訊地址: LeCun, Yann (通訊作者)
Facebook AI Res, 770 Broadway, New York, NY 10003 USA

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103
[檢視相關記錄](#)

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Schmidhuber, J;
[Deep learning in neural networks: An overview](#)

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- 頻率

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檢索追蹤

追蹤名稱 - 遞增

< 1 / 1 >

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期刊追蹤

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"cultur* tour*" (All Fields)

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檢索詳細資料

資料庫: Web of Science 核心合輯

建立日期: 9月 10, 2021

說明 (選用):

說明

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電子郵件收件人: renee.guan@clarivate.com 編輯

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The main content area shows search results for the query '"heavy metal*" AND fish* (主题)'. It indicates 7,987 results from the Web of Science Core Collection. A search bar contains the query, and buttons for '分析检索结果', '引文报告', and '创建跟踪服务' are present.

On the left, there are filters for '快速过滤' (Highly cited, Hot, Review, Online, Open Access, Related Data) and '出版年' (2021, 2020).

The search results list includes two entries:

- 1. Effects of heavy metal accumulation in tench Tinca tinca L., 1758. Shah, SL and Altindag, A. 2005 | Turkish Journal Of Veterinary Medicine and Small Animal Clinician. The effects of already accumulated heavy metals were studied. The bioaccumulation and their 96-h LC50 values were 1.59 and 0.011 mg/g respectively. (35 citations)
- 2. Indicator tissues for heavy metal monitoring in marine ecosystems were documented 30 years ago. Rayment, GE and Barry, GA. Jul-dec 2000 | Marine Pollution Bulletin. Preferred characteristics of biological indicators for heavy metal monitoring in marine ecosystems were documented 30 years ago. Heavy metal data from Raine Island on the outer-northern Great Barrier Reef are presented to introduce additional attributes for consideration, including a widened choice of biological tissues due to advances in trace h... (27 citations)

An '导出' (Export) dropdown menu is open, showing options: EndNote Online, EndNote Desktop (highlighted with a red box), 添加到我的 Publons 个人信息, 纯文本文件, RIS, Excel, InCites, FECYT CVN, and 更多导出选项.

清晰的分組文獻檔案管理

The screenshot displays the EndNote software interface. On the left, a sidebar shows a hierarchical view of groups, with 'MY GROUPS' expanded to show 'My Publications', 'Nano', 'share', 'Tsia CC', 'Unreading', 'My Groups', '5G', 'LED all', and 'Share with ...'. The main window shows a list of references under the 'All References' tab. The selected reference is 'Yu, 2013 #78' with the title 'Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing'. The right pane shows the full text of this reference, including the authors (J. C. Yu, Y. J. Cui, H. Xu, Y. Yang, Z. Y. Wang, B. L. Chen, et al.), the journal (Nature Communications 2013 Vol. 4 Pages 7), and the abstract. A red box highlights the reference title in the list, and a red callout box points to it with the text '夾帶全文檔案' (Attached full-text file).

Year	Author	Title
2013	Yu, J. C.; Cui, ...	Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing
2010	Sarli, C. C.; D...	Beyond citation analysis: a model for
2006	Cheng, I. C.; ...	Self-aligned amorphous-silicon TFT
	官欣瑩	
2011	Zhu, M. N.; Y...	Money demand function with asym
2014	Zhou, Z. C.; Li...	Curvature Induced Discontinuous Tr
2016	Zhou, Y.; Gua...	Strongly correlated perovskite fuel
2017	Zhou, J. D.; Li...	Large-Area and High-Quality 2D Tr
2017	Zhou, H.; Yua...	Vapor Growth and Tunable Lasing c
2018	Zhou, H.; Wa...	Empagliflozin rescues diabetic myc
2017	Zhou, H.; Li, ...	Melatonin suppresses platelet activ

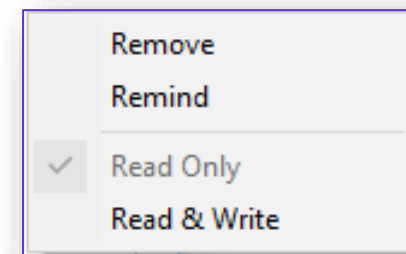
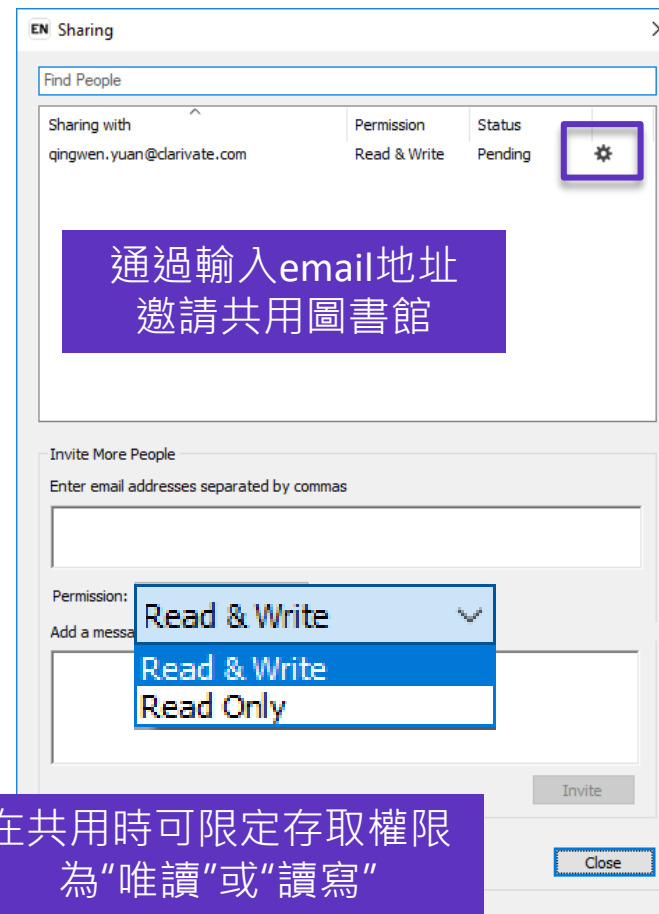
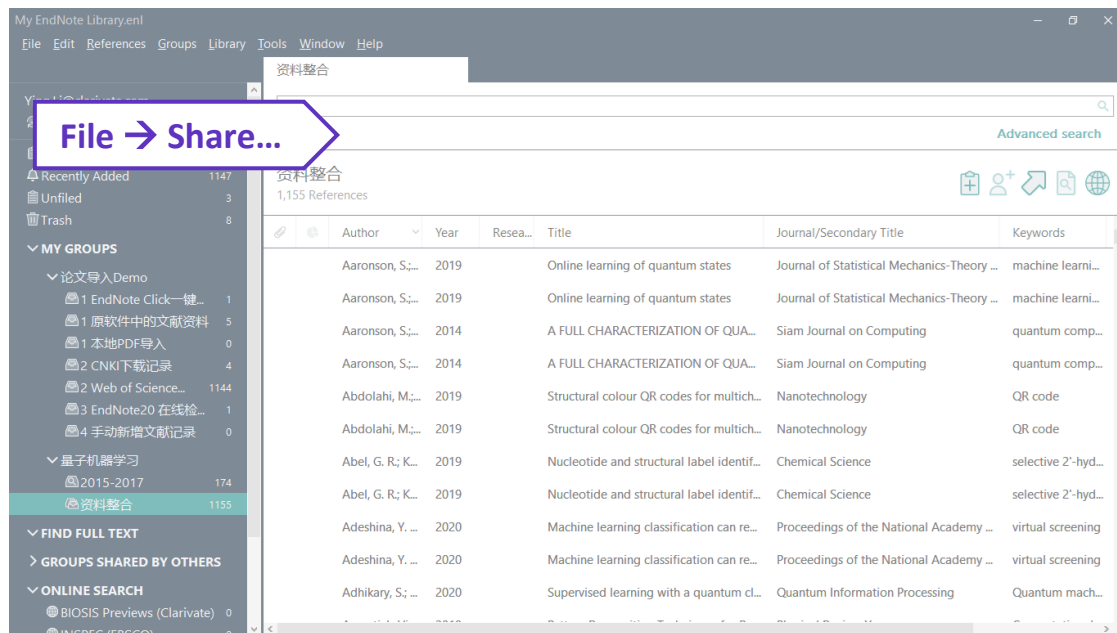
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- ✓ 最多可與**200位**成員共用一個文獻資料庫！

Endnote 與Word的完美寫作應用

參考文獻

The screenshot shows the EndNote 'My EndNote Library-Converted' interface. On the left is a sidebar with navigation options like 'All References' (1442), 'Recently Added', 'Unfiled', and 'MY GROUPS'. The main area displays a list of references with columns for Year, Author, and Title. A reference from 2013 by Yu, J. C.; Cui, ... is selected. On the right, a detailed view of this reference is shown, including the title 'Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing', authors 'J. C. Yu, Y. J. Cui, H. Xu, Y. Yang, Z. Y. Wang, B. L. Chen, et al.', and the journal 'Nature Communications 2013 Vol. 4 Pages 7'. There are also buttons for 'Attach file', 'APA 7th', 'Insert', and 'Copy'.

Three overlapping screenshots of the EndNote reference details window, showing the same reference information as the main screenshot, illustrating the data flow from the library to the citation in a document.

論文寫作

The screenshot shows a Microsoft Word document with the following text:

3.5.1 Endnote Web 的工作机理

在具體使用 EndnoteWeb 前，我想請大家和我一塊思考一下它的工作机理，我們說 endnote Web 就實現我們在 word 寫作時，邊寫作邊插入參考文獻，而且寫作完成後可再文後參考文獻按我們學校圖書館的要求做統一格式處理。如何能辦到？我們知道，Endnote Web 是只能在 VICE 平台上的，而我的寫作是在我自己的電腦上，兩者之間怎麼能實現合作？真正存在困難。

- 第一，把我們寫作時可能用到的參考文獻的題錄信息導入 endnote Web 中，大家會不會覺得麻煩，其實非常簡單，因為它支持對參考文獻的自動導入。
- 第二，我們的電腦上安裝一個插件，實現 endnote Web 和我的 word 文檔之間的對接。

論文撰寫：插入參考文獻

The screenshot illustrates the steps to insert a reference from EndNote into a Microsoft Word document. The document content includes:

Structure and Properties of M...

ZHANG Zhijie
(State Key Laboratory of Polymer Physics and Chemistry, Chinese Academy of Sciences)

Abstract Oleic acid modified Fe₃O₄ nanoparticles of different sizes and surface charges were blended with polystyrene by a solvent evaporation/mixing/evaporation drying method. The resulting nanoparticles exhibited superparamagnetic property.

Keywords Polystyrene; Fe₃O₄; Nanoparticles

The EndNote Find & Insert My References dialog box shows the following search results:

Author	Year	Title
Schulz	2018	Biocompatible bacteria-derived vesicles show inherent antimicrobial activity
Patois	2012	Evaluation of nanoparticle tracking analysis (NTA) in the characterization of therapeutic antibodies and seasonal influenza vaccines
Meermann	2018	ICP-MS for the analysis at the nanoscale - a tutorial review
Stavis	2018	Nanoparticle Manufacturing - Heterogeneity through Processes to Products
Wu	2011	Potential role of gold nanoparticles for improved analytical methods: an introduction to characterizations and applications
Zarei	2019	Profiling of nanoparticle-protein interactions by electrophoresis techniques
Treuel	2015	Protein corona - from molecular adsorption to physiological complexity
Pedro	2008	Purification of bionanoparticles
Raak	2018	Size Separation Techniques for the Characterisation of Cross-Linked Casein: A Review of Methods and Their Applications

The selected reference details are:

Reference Type: Journal Article
Author: Schulz, E., Goes, A., Garcia, R., Panter, F., Koch, M., Muller, R., Fuhrmann, K., Fuhrmann, G.
Year: 2018
Title: Biocompatible bacteria-derived vesicles show inherent antimicrobial activity
Journal: Journal of Controlled Release

參考文獻格式一鍵式修改

Cell

選擇Nature Reviews

References

Hafren, A., Ustun, S., Hochmuth, A., Svenning, S., Johansen, T., and Hofius, D. (2018). Turnip Mosaic Virus Counteracts Selective Autophagy of the Viral Silencing Suppressor HCpro. *Plant Physiology* 176, 649-662.

Hay, M., Thomas, D.W., Craighead, J.L., Economides, C., and Rosenthal, J. (2014). Clinical development success rates for investigational drugs. *Nat Biotechnol* 32, 40-51.

Ouyang, D., and Smith, S.C. (2015). Computational Pharmaceutics: Application of Molecular Modeling in Drug Delivery. John Wiley & Sons: London, UK.

Park, K. (2016). Drug delivery of the future: Chasing the invisible gorilla. *J Control Release* 240, 2-8.

Raemdonck, K., and De Smedt, S.C. (2015). Lessons in simplicity that should shape the future of drug delivery. *Nat Biotechnol* 33, 1026-1027.

Rowland, M., Noe, C.R., Smith, D.A., Tucker, G.T., Crommelin, D.J., Peck, C.C., Rocci Jr, M.L., Besançon, L., and Shah, V.P. (2012). Impact of the pharmaceutical sciences on health care: a reflection over the past 50 years. *J Pharm Sci-us* 101, 4075-4099.

Smietana, K., Siatkowski, M., and Møller, M. (2016). Trends in clinical success rates. *Nat Rev Drug Discov* 15, 379-390.

Thakur, S.S., Parekh, H.S., Schwable, C.H., Gan, Y., and Ouyang, D. (2015). Solubilization of Poorly Soluble Drugs: Cyclodextrin-Based Formulations. *Computational Pharmaceutics: Application of Molecular Modeling in Drug Delivery*, John Wiley & Sons, Chichester, 31-51.

Yin, H., Kanasty, R.L., Eltoukhy, A.A., Vegas, A.J., Dorkin, J.R., and Anderson, D.G. (2014). Non-viral vectors for gene-based therapy. *Nat Rev Genet* 15, 541-555.

Nature Reviews

References

- 1 Hafren, A. et al. Turnip Mosaic Virus Counteracts Selective Autophagy of the Viral Silencing Suppressor HCpro. *Plant Physiology* 176, 649-662, doi:10.1104/pp.17.01198 (2018).
- 2 Hay, M., Thomas, D. W., Craighead, J. L., Economides, C. & Rosenthal, J. Clinical development success rates for investigational drugs. *Nat Biotechnol* 32, 40-51 (2014).
- 3 Smietana, K., Siatkowski, M. & Møller, M. Trends in clinical success rates. *Nat Rev Drug Discov* 15, 379-390 (2016).
- 4 Rowland, M. et al. Impact of the pharmaceutical sciences on health care: a reflection over the past 50 years. *J Pharm Sci-us* 101, 4075-4099 (2012).
- 5 Zhang, W. et al. Big data analysis of global advances in pharmaceutics and drug delivery 1980-2014. *Drug Discov Today*, doi:10.1016/j.drudis.2017.05.012 (2017).
- 6 Park, K. Drug delivery of the future: Chasing the invisible gorilla. *J. Control. Release* 240, 2-8 (2016).
- 7 Thakur, S. S., Parekh, H. S., Schwable, C. H., Gan, Y. & Ouyang, D. Solubilization of Poorly Soluble Drugs: Cyclodextrin-Based Formulations. *Computational Pharmaceutics: Application of Molecular Modeling in Drug Delivery*, John Wiley & Sons, Chichester, 31-51 (2015).
- 8 Yun, Y. H., Lee, B. K. & Park, K. Controlled drug delivery: historical perspective for the next generation. *J. Control. Release* 219, 2-7 (2015).
- 9 Yin, H. et al. Non-viral vectors for gene-based therapy. *Nat Rev Genet* 15, 541-555 (2014).
- 10 Time to deliver. *Nat Biotechnol* 32, 961, doi:10.1038/nbt.3045 (2014).
- 11 Raemdonck, K. & De Smedt, S. C. Lessons in simplicity that should shape the future of drug

Endnote文獻的管理和寫作工具

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- 匹配適合的投稿期刊
 - 根據標題、摘要、參考文獻, 匹配適合投稿的期刊

學術期刊多似海，要投哪本好呢？

日曜劇場

ブラックペアン



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JCR YEAR: 2020

VETERINARY MICROBIOLOGY

ISSN: 0378-1135

EISSN: 1873-2542

JCR ABBREVIATION: VET MICROBIOL

ISO ABBREVIATION: Vet. Microbiol.

2020 JOURNAL IMPACT FACTOR: **3.293**

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS: 3.009

Journal Impact Factor Trend 2020

Journal information

EDITION: Science Citation Index Expanded (SCIE)

CATEGORY: MICROBIOLOGY - SCIE

VETERINARY SCIENCES - SCIE

LANGUAGES: English

REGION: NETHERLANDS

1ST ELECTRONIC JCR YEAR: 1997

Publisher information

PUBLISHER: ELSEVIER

ADDRESS: RADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS

PUBLICATION FREQUENCY: 12 Issues/year

Journal Impact Factor contributing items

TITLE	CITATION COUNT
The nucleoside analog GS-441524 strongly inhibits feline infectious peritonitis (FIP) virus in tissue culture and	30
Porcine circovirus type 3 (PCV3) infection in grower pigs from a Thai farm suffering from porcine respiratory disease	24
Antimicrobial resistance, multilocus sequence types and virulence profiles of ESBL producing and non-ESBL	20
Distinct bacterial metacommunities inhabit the upper and lower respiratory tracts of healthy feedlot cattle and those	16
Proposal of serovars 17 and 18 of Actinobacillus pleuropneumoniae based on serological and genotypic	16
Novel variant strains of infectious bursal disease virus isolated in China	15
Semen as a source of Mycoplasma bovis mastitis in dairy herds	15
Monitoring of antimicrobial susceptibility of udder	15

2020 JOURNAL IMPACT FACTOR: **3.293**

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS: 3.009

View calculation

Journal Citation Indicator (JCI): **1.38**

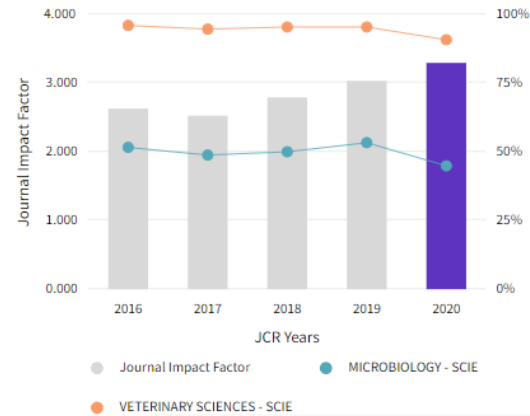
View calculation

Export items

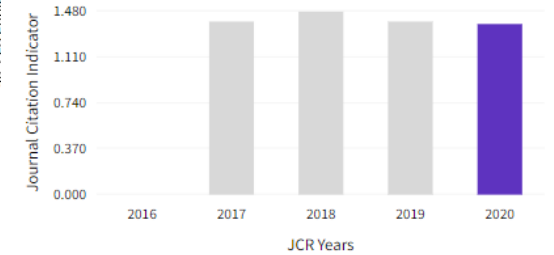
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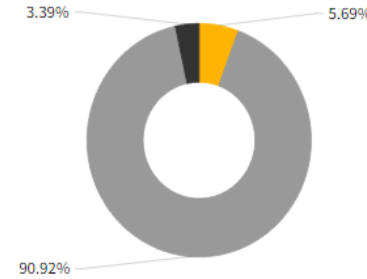
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2	NANJING AGRICULTURAL UNIVERSITY	46
3	YANGZHOU UNIVERSITY	40
4	CHINA AGRICULTURAL UNIVERSITY	34
-	JIANGSU COINNOVAT CTR PREVENT & CONTROL IMPORTANT	34
6	FREE UNIVERSITY OF BERLIN	31
7	SHANDONG AGRICULTURAL UNIVERSITY	29

Contributions by country/region

Countries or Regions that have contributed the most papers to the journal in the most recent three-year period. [Learn more](#)

RANK	COUNTRY / REGION	COUNT
1	CHINA MAINLAND	374
2	USA	157
3	GERMANY (FED REP GER)	82
4	Italy	64
5	Australia	62
6	France	55
-	Spain	55
8	Brazil	45
9	South Korea	37
10	Canada	36

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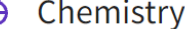
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NUMBER OF CATEGORIES

7

NUMBER OF JOURNALS

419

NUMBER OF CITABLE ITEMS

55,280



Arts & Humanities, Interdisciplinary

NUMBER OF CATEGORIES

8

NUMBER OF JOURNALS

957

NUMBER OF CITABLE ITEMS

33,877



Biology & Biochemistry

NUMBER OF CATEGORIES

34

NUMBER OF JOURNALS

3,881

NUMBER OF CITABLE ITEMS

704,523



Chemistry

NUMBER OF CATEGORIES

21

NUMBER OF JOURNALS

2,315

NUMBER OF CITABLE ITEMS

636,925



AI幫你找期刊-Master Journal List

The screenshot shows the 'Master Journal List' interface on the Web of Science Group platform. The top navigation bar includes 'Search Journals', 'Match Manuscript', 'Downloads', 'Scope Notes', and 'Help Center'. A user is logged in as 'Sin Ying Guan'. A 'Manuscript Matcher' modal is open, prompting the user to provide manuscript details to find related journals. The modal contains two text input fields: 'Title' and 'Abstract'. Below the inputs are 'Cancel' and 'Find Journals' buttons. A cookie consent banner is visible at the bottom of the page.

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The manuscript title or relevant part(s) of the title

Abstract

The manuscript abstract or relevant part(s) of the abstract

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- 01** 只要找對方向，小題也可以大做!
- 02** Web of Science適合各種領域研究人員進行快速聚焦重要文獻與下載全文
- 03** 維持對領域的敏感度!
多聽、多看才是增加寫作靈感與方向
- 04** 靈活運用數據、工具才能讓研究讓研究更完整更有效率



Thank you!

