

打造世界級學府、展現學術實力之
世界大學排名座談會

Building World-Class Universities: Strategies for
Institutional Capacity Building

Research intelligence solutions SciVal and Pure

Rita Ho

Research Management Solution Manager, Elsevier Taiwan

台灣愛思唯爾 研究管理解決方案經理 何蕙菩

r.ho@elsevier.com

How Elsevier support your university research

Elsevier Research Intelligence

Promotion of
academic research
加強學術研究

- Understand **research capabilities** of your university comparing peers
- Achieving **outstanding research** of the world's highest level in specific areas
- Retain & hire **best-in-class researchers**

SciVal
學術競爭力

Increase of
international
collaboration
增加國際合作

- Identify **collaborators** and evaluate academic results
- **Promote** your university research for researchers and departments

Efficiency of
university research
management
有效研究管理

- **Aggregate** your organization's research information from numerous sources
- Understand research status for **departments and researchers**

Pure
學校專家人才庫

Scopus

The largest abstract and citation database of peer-reviewed research literature from around the world.

Scopus

**The broadest source of global
scientific research: SCOPUS**

What's the difference THE changed data source?

Scopus

~22K titles

>5,000 publishers

Updated daily

Scopus

22,000

(+76%)

**THE
NOW**

Web of Science

12,491

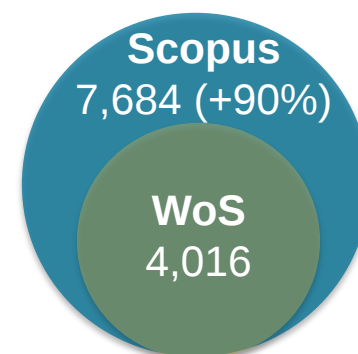
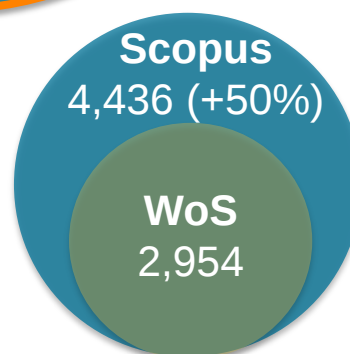
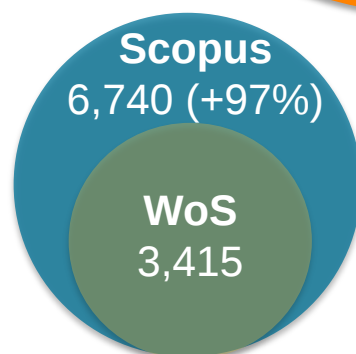
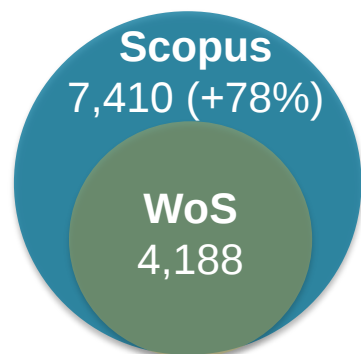
**THE in the past
SCIE,SSCI**

WEB OF SCIENCE™

~12K titles

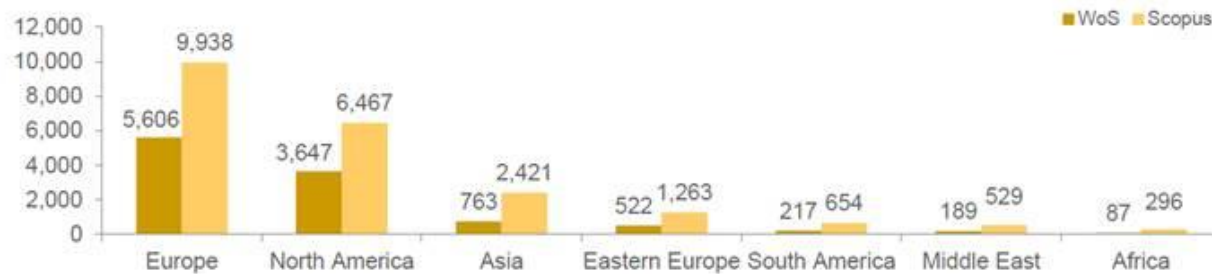
3,300 publishers

Updated weekly



Added value of Scopus' broad coverage: more accurate view of the Global research landscape

Scopus vs. WoS article indexing



Regions	% more articles Indexed by Scopus vs. WoS
Europe	77%
North America	77%
Asia	217%
Eastern Europe	142%
South America	201%
Middle East	180%
Africa	240%
Total	96%

Significantly high indexing
of research articles in
emerging research hubs

- 美國地區以外的資料，「非英語系」國家高品質研究文獻
- 涵蓋範圍廣，較具全球代表性；紀錄各校學術產出的研究質量脈絡
- 來自5000個出版社；105個國家地區，40種當地語言文獻

Broad coverage does not mean poor standards

同儕審查機制，獨立的内容審查與諮詢委員會

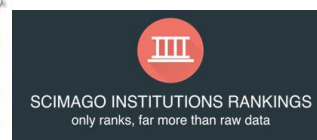


- Titles are selected by the independent Content Selection & Advisory Board (CSAB)
- The CSAB is chosen for their expertise in specific subject areas; many have (journal) Editor experience

Focus on quality through content selection by the independent CSAB, because:

- Provide accurate and relevant search results for users
- No dilution of search results by irrelevant or low quality content
- Support that Scopus is recognized as authoritative
- Support confidence that Scopus “reflects the truth”

What content does Scopus include?



Physical Sciences
7,410

Health Sciences
6,740

Social Sciences
7,684

Life Sciences
4,436

JOURNALS
同儕審查期刊

20,874 peer-reviewed journals
367 trade journals

- Full metadata, abstracts and cited references (references for post-1996 only)
- >2,800 fully Open Access titles
- Going back to 1823
- Funding data from acknowledgements

CONFERENCES
會議論文

77K events
6.4M records (12%)

Conf. expansion:
1,000 conferences
6,000 conf. events
400k conf. papers
5M citations

Mainly Engineering and Physical Sciences

BOOKS
叢書

421 book series
- **28K** Volumes
- 925K items

50,114 books
- 462K items

Books expansion:
75K books by 2015
- Focus on Social Sciences and A&H

PATENTS
專利

24M patents from 5 major patent offices

WO
USPTO
EPO
JPO
IPO(UK)

科技部已將**Scopus**加入計畫學術著作資料(C302)的資料庫
研究人員可採用Scopus數據作為其發表文章引用之依據

學術研究完整性，協助學者了解其研究領域發展現況

Scopus

TITLE-ABS-KEY (ebola virus) 編輯 儲存 設定通知 設定傳送

3,035 個文獻搜尋結果 查看次要文獻 查看 262 個專利搜尋結果 分析搜尋結果 排序對象: 日期 施引

在搜尋結果內搜尋...

查看引文概覽 查看「施引文獻」 更多...

Emerging infectious diseases of wildlife - Threats to biodiversity and human health Daszak, P., Cunningham, A.A., Hyatt, A.D. 2000 Science

View at Publisher

分析搜尋結果

TITLE-ABS-KEY (ebola virus) 返回您的搜尋結果

3035 文獻搜尋結果 選擇要分析的日期範圍: 1977 到 2015 分析

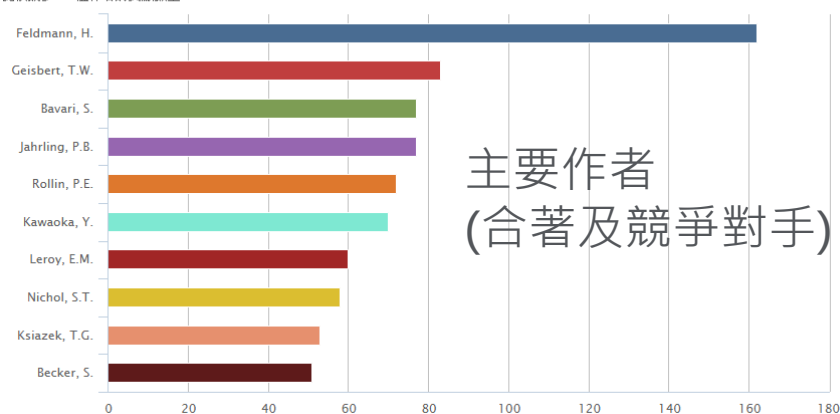
年份	來源出版物	作者	機構	國家	文獻類型	學科類別
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按年份劃分的文獻



按作者劃分的文獻

比較最多 15 位作者的文獻數量



主要作者
(合著及競爭對手)

- 多元資料類型(期刊、會議論文、專書)
- 追蹤新的技術應用及研究發現(專利引用、學術文章引用)
- 了解研究領域發展現況

作者主要投稿期刊及其影響力

Scopus

Search

Alerts

My list

My Scopus

Weber, Wolfgang Andreas

[Back to author details page](#)

Memorial Sloan-Kettering Cancer Center, Molecular Imaging and Therapy Service, New York, United States

Author ID:7402748205

Documents (199)

[h-index \(64\)](#)[Citations \(13728\)](#)[Co-authors \(150\)](#)

圖像化分析學者文獻產量：投稿期刊、文獻類型、年代、跨學科領域與共同作者

by source

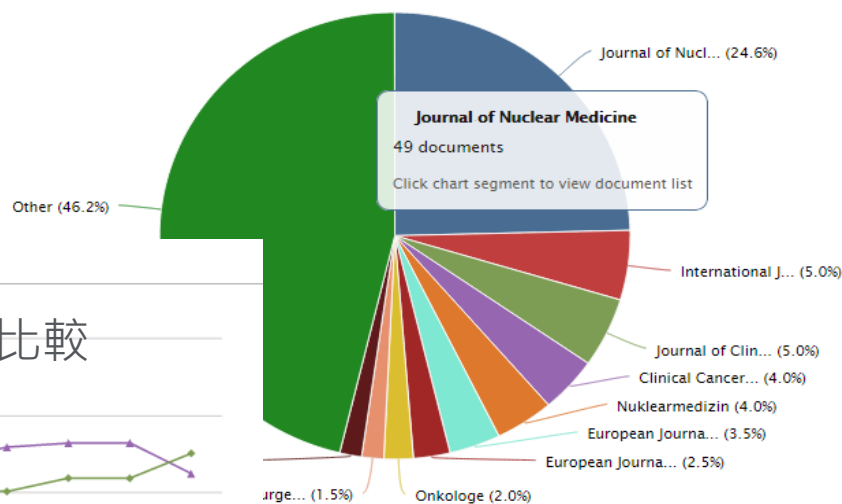
by type

by year

by subject area

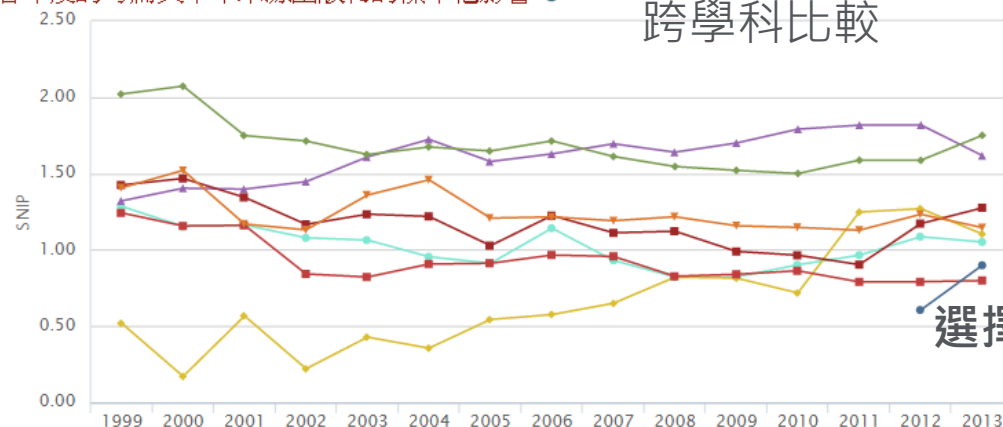
Source	Documents ▾
Journal of Nuclear Medicine	49
International Journal of Radiation O...	10
Journal of Clinical Oncology	10
Clinical Cancer Research	8
Nuklearmedizin	8
European Journal of Nuclear Medic...	7
European Journal of Nuclear Medic...	5

Documents by source



各年度的每篇文章中來源出版物的標準化影響

跨學科比較



- ☒ Journal of Applied Polymer Science
- ☒ Journal of Polymer Research
- ☒ Polymer
- ☒ Journal of Polymer Science, Part B: Polymer Physics
- ☒ Macromolecular Chemistry and Physics
- ☒ Macromolecular Rapid Communications
- ☒ Macromolecules
- ☒ RSC Advances

註釋：Scopus 不含 1996 年之前出版論文的完整引文資訊。

上次更新計算的時間：2014/6/13

選擇投稿期刊評估指標參考依據

IPP 三年影響指數

SNIP 標準化影響指數

SJR 期刊聲望指標

SciVal

**Research performance
visualization tool: SciVal**

學校研究競爭力檢視 Science eValuation

SciVal

以Scopus為資料來源，提供全球4600個機構的學術表現，分析學校研究產出於世界的表現，並比較其他學校的差異

Welcome to SciVal



Overview



Benchmarking



Collaboration



Trends **NEW**

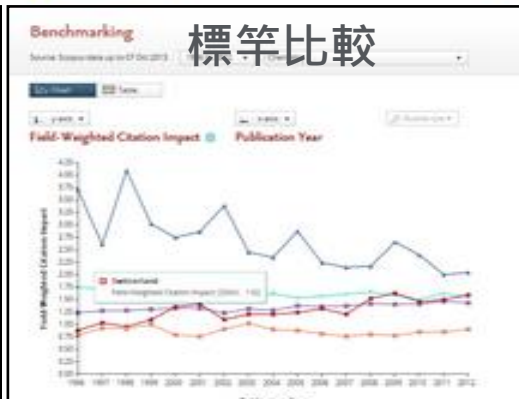


Analyze research trends with usage and citation data

學術產出及優勢領域



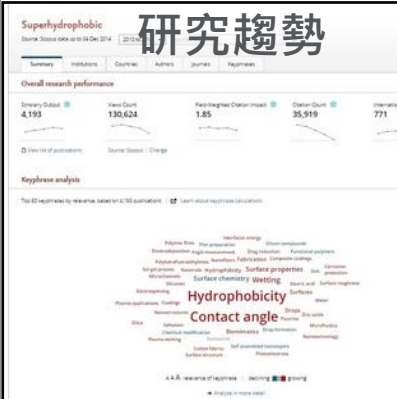
標竿比較



國際合著



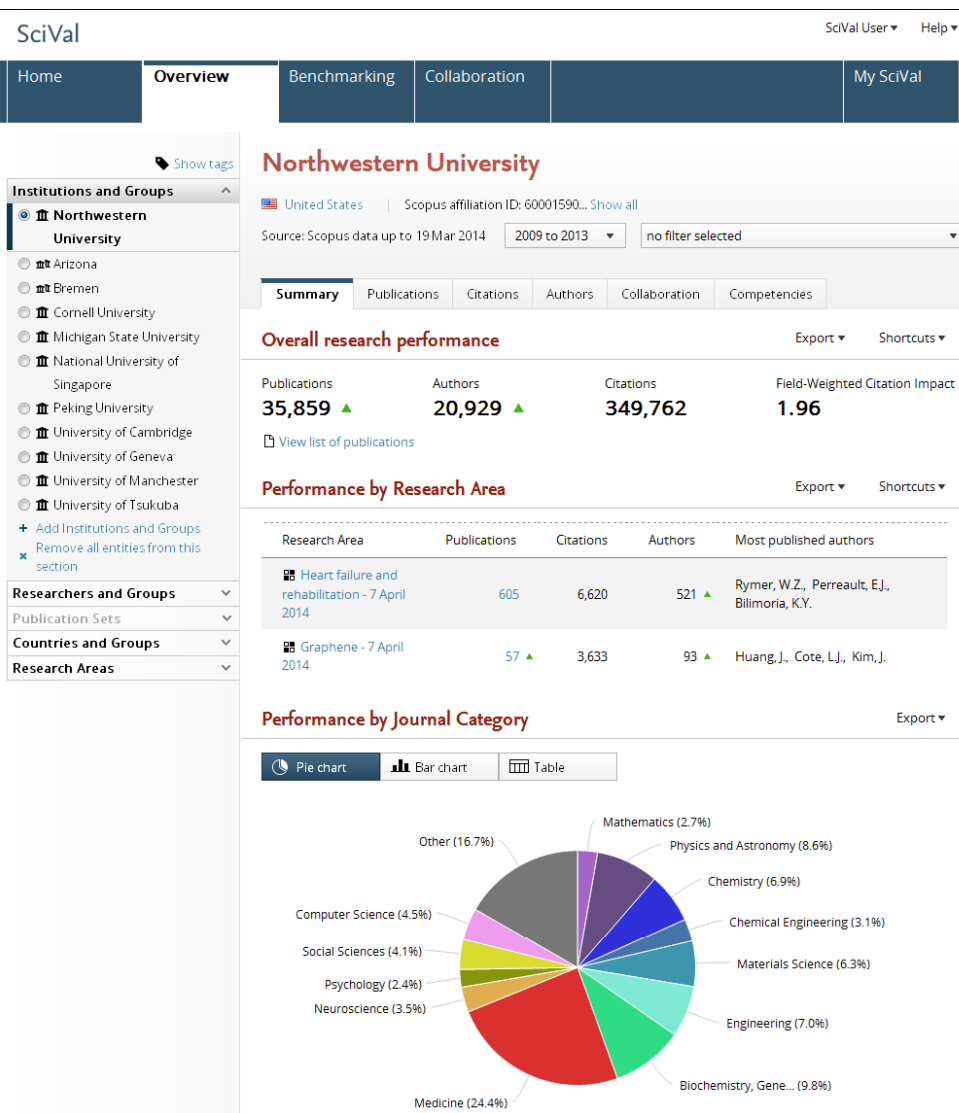
研究趨勢



How SciVal help you measure/manage your RESEARCH performance?

- Research volume: **Productivity metrics** (學術生產力指標)
 - Scholarly output (論文數) → **SCOPUS coverage**
- Research influence: **Citation Impact metrics** (引用影響力指標)
 - Field-Weighted Citation Impact, FWCI (領域權重引用影響力) → **NORMALIZED CITATION IMPACT** FWCI=1 世界平均水準
 - Publications in Top Percentiles (高被引文章) → **TOP PAPERS**
 - Publications in Top Journal Percentiles (頂尖期刊) → **TOP JOURNALS**
 - H-index, FWCI → (高質量學者) → **TOP AUTHORS**
- Research reputation: **Collaboration metrics** (共同合作指標)
 - International collaboration (國際合作) → **GOOD COLLABORATORS**
 - Academic-Corporate Collaboration (產學合作)

機構學術表現一覽



27個主學科領域、334個子學科領域

Outputs in Top Percentiles

高被引文章

Publications in Top Journal Percentiles

發表頂尖期刊

Collaboration

國際合作

Harvard University

View the top authors and see their performance

United States | More details on this Institution

Source: Scopus data up to 16 Mar 2015

2010 to 2014

no filter selected

Summary

Publications

Citations

Authors

Collaboration

Competencies

Authors

Export ▾

Top 100 authors, by number of publications at Harvard University over the period 2010 to 2014.

Note that some authors may no longer be affiliated with Harvard University.

Name	Publications	Most recent publication	Field-We	h-index
1. Willett, Walter Churchill	352	2014	5.26	192
2. Manson, Joann E E	204	2014	4.78	161
3. Stampfer, Meir J.				
4. Whitesides, George M.				
5. Kessler, Ronald C.				
6. Ridker, Paul M.				
7. Giovannucci, Edward L.				
8. Hunter, David John				
9. Hu, Frank				

Willett, Walter Churchill

Scopus author ID: 36042830300

[View in Scopus](#)

作者研究檔案

Publications

1,385

Citations

131,979

Citations per Publication

95.3

h-index

192

[View list of publications](#)

Publications by Institution



■ Harvard University
■ Unknown institution (5.6%)
■ Boston University
■ Other (5.6%)

Willett, Walter Churchill

Brigham and Women's Hospital, Department of Medicine, Boston, United States

作者 ID: 36042830300

文獻: 1775

引文: 總共 202104 次引用, 來自 112106 篇文獻

h-index: 233 ?

合著作者: 150 (最多可以顯示 150 名合著作者)

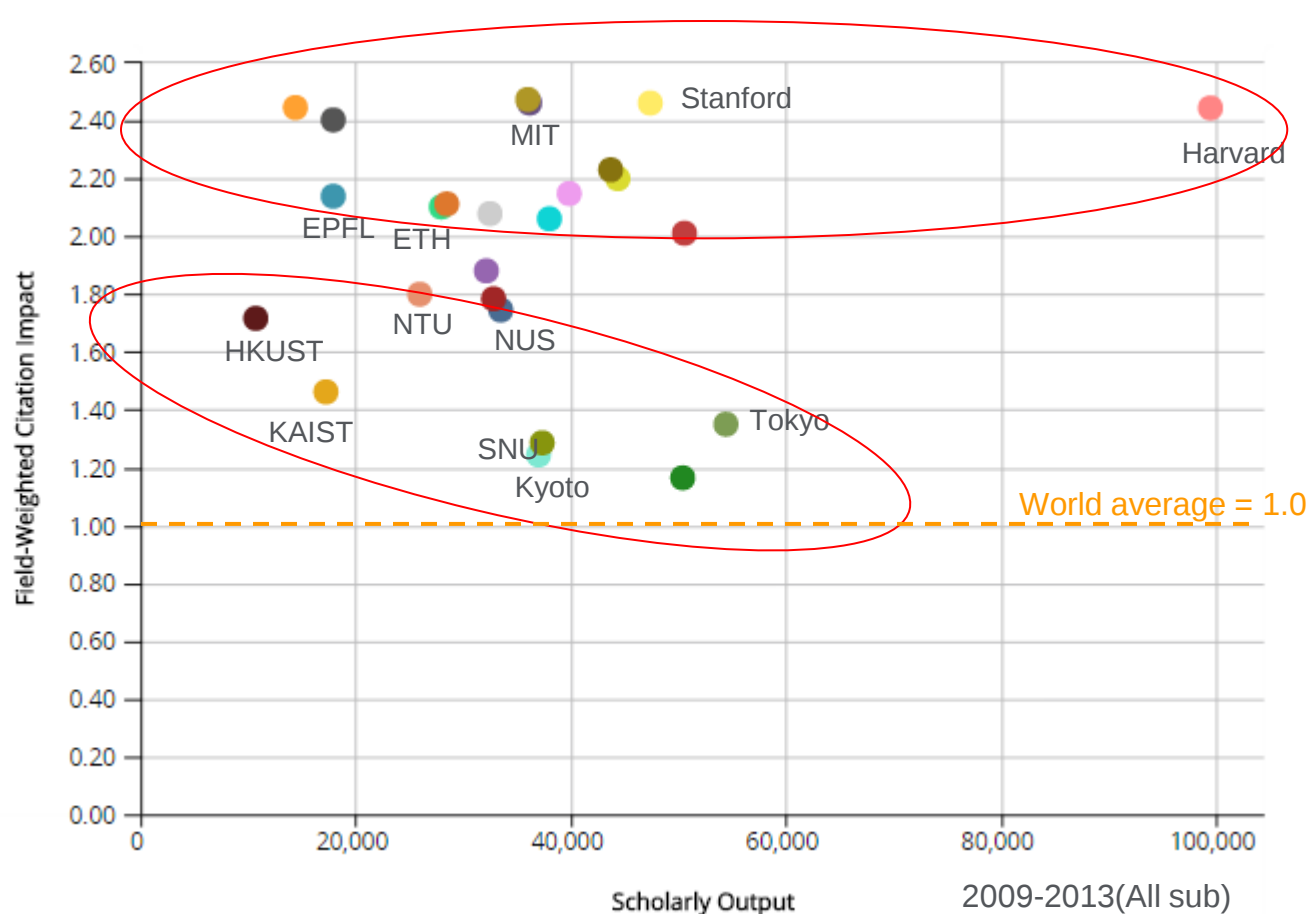
學科類別: Medicine, Biochemistry, Genetics and Molecular Biology 查看更多

分析作者的產出

查看 h-graph

了解自己與其他學校的位置

Benchmark your progress



Benchmarking

Source: Scopus data up to 16 Mar 2015

no filter selected

2009 to 2013

Chart

Table

y-axis

Field-Weighted Citation Impact

x-axis

Scholarly Output

Bubble size

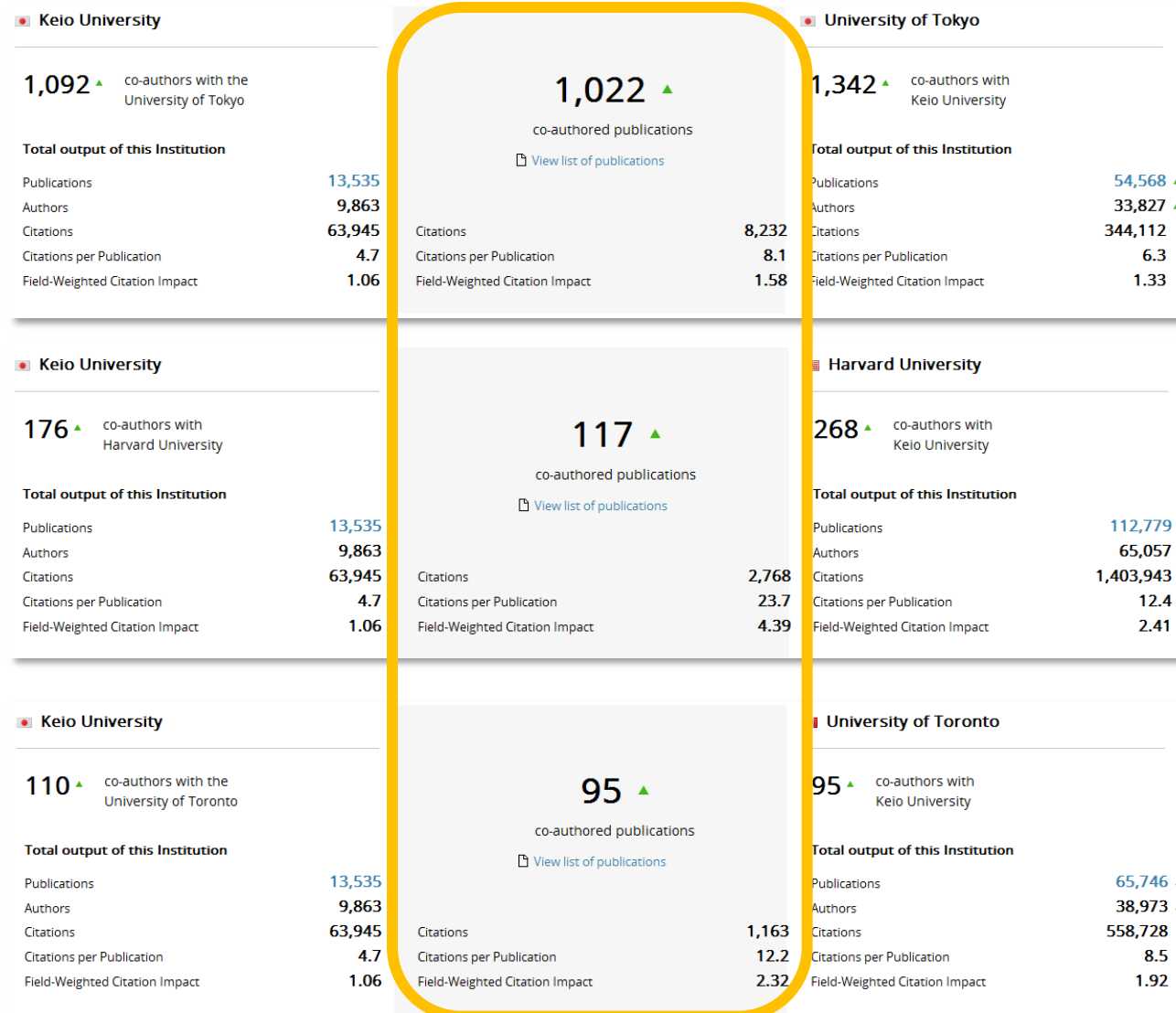
View a third metric

Institutions and Groups

- California Institute of Technology
- Cornell University
- ETH Zurich
- Ecole Polytechnique Federale de Lausanne (EPFL)
- Harvard University
- Hong Kong University of Science and Technology
- Imperial College London
- Korea Advanced Institute of Science and Technology
- Kyoto University
- Massachusetts Institute of Technology
- Nanyang Technological University
- National University of Singapore
- Northwestern University
- Princeton University
- Seoul National University
- Stanford University
- Tsinghua University
- University of California at Berkeley
- University of California at Los Angeles
- University of Cambridge
- University of Melbourne
- University of Michigan
- University of Oxford
- University of Sydney
- University of Tokyo

Very top univs in US or EU show high FWCI, around 2.0 or higher. Top Asian univs are among 1.2 – 1.8.

Keio University and International Collaboration

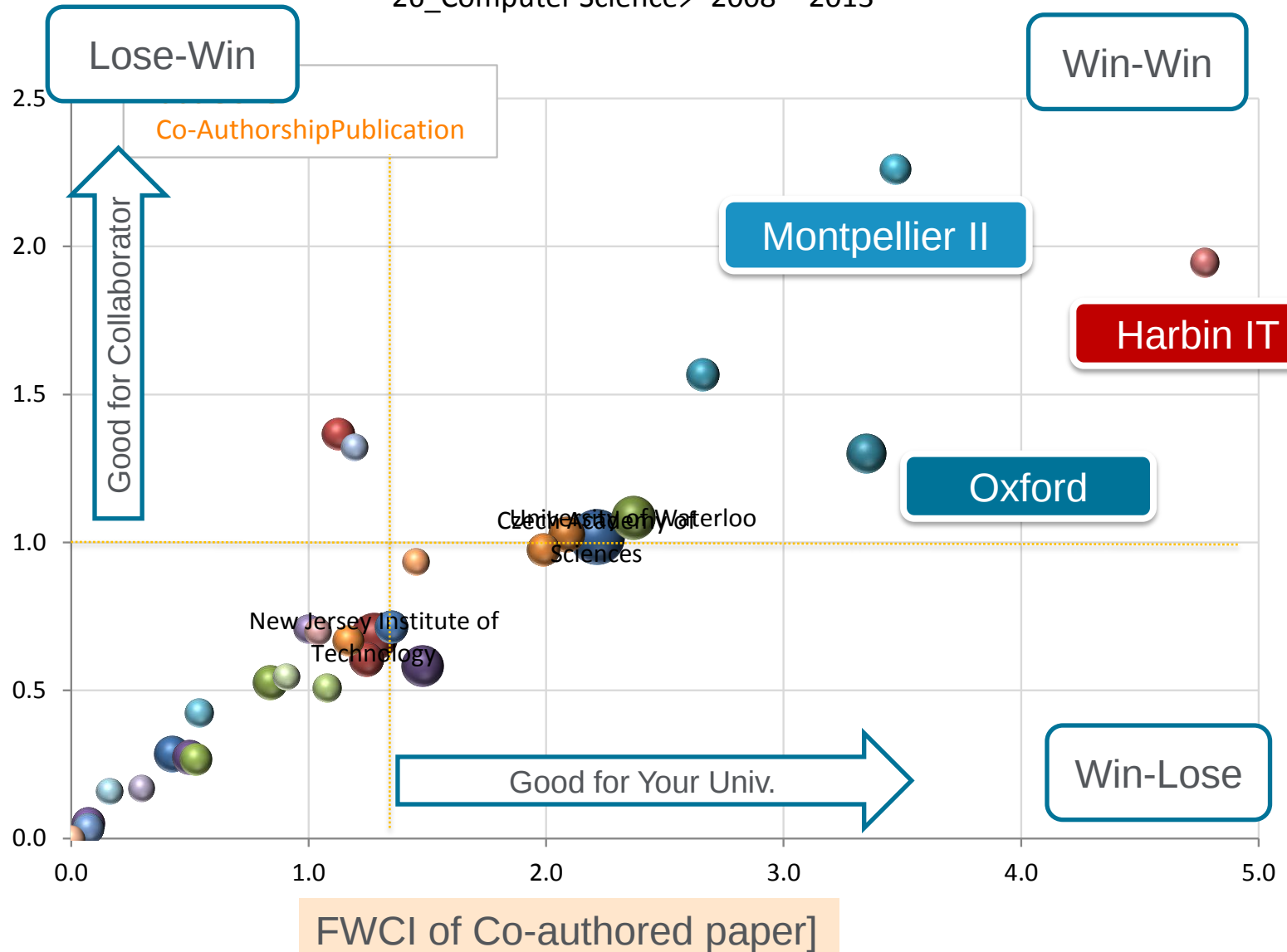


Keio-UTokyo
1.5 times
citation impact

Keio-Harvard
4.3 times
citation impact

Keio-Toronto
2.3 times
citation impact

26_Computer Science／2008～2013



Promoting your research: Pure Expert system

Pure Expert 學校專家人才庫

- **Demonstrate your researchers' accomplishments** to the global research community

提高國際能見度，展示學者研究成果

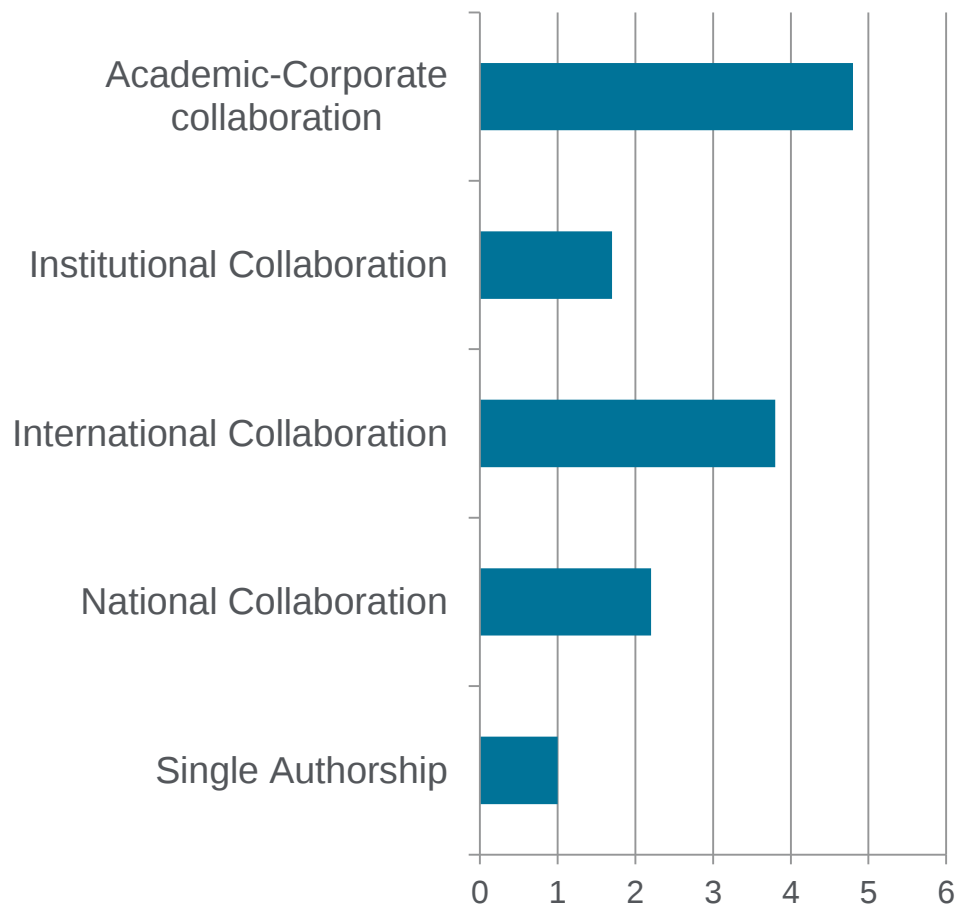
- Identify **subject experts** and **stimulate collaboration** within your institution or across organizations

將校內主題領域專家進行比對，促進彼此合作(內部及外部)

- Centrally **manage content from multiple databases** and people

整合學校內部資料，整理老師研究著作，減少老師維護資料及行政管理的負擔

Enable Collaboration



Citations per paper over the past five years

Source: SciVal

Pure opens your expertise to the world

Increasing “contact surface”

REACHNC
research, engagement, and capabilities hub of north carolina

Research, Engagement and Capabilities Hub of North Carolina

HOME ABOUT PARTNERS TUTORIALS CONTACTS PROFILES

REACH NC is a Web portal that enables users to find experts and assets within North Carolina higher education and research institutions. [Read More](#)

[CLICK TO VIEW REACH NC PROFILES](#)

REACH NEWS FEED

Statewide transitional care program cuts hospital readmissions for Medicaid patients [READ STORY](#)

Battery Design Gets Boost from Aligned Carbon Nanotubes [READ STORY](#)

Battery Design Gets Boost from Aligned Carbon Nanotubes [READ STORY](#)

UPCOMING EVENTS

Wed 14 Aug 4th annual VIVO Conference

Sun 8 Sep 2013 ASE/IEEE International Conference on Big Data

[VIEW ALL EVENTS](#)

ABOUT REACH NC

REACH NC began in 2011 as a way for North Carolina to tap into and showcase its research talent and resources. As a result, REACH NC is also the home for engineers, artists, and researchers.

[LEARN MORE](#)

M MICHIGAN EXPERTS
UNIVERSITY OF MICHIGAN

Welcome!

Michigan Experts is a searchable database of research expertise across disciplines from several schools/colleges or institutes at the University of Michigan. It has been developed to foster intramural and extramural collaborations, and interdisciplinary research to expand knowledge. While this tool is not comprehensive of all faculty members, nor exhaustive of individual productivity or expertise, it offers a rich representation of research talent and knowledge within the preeminent research enterprise at the University of Michigan. We invite you to search the database by concept, individual name, or “free text” excerpt (such as an abstract or RFA) to discover researchers, understand research expertise, and visualize connections among researchers.

Home

[Recent Publications](#)

[Recent Grants](#)

[Recent Patents](#)

[Most Frequent Journals](#)

[SciVal Experts Community](#)

[DIRECT2Experts](#)

[Profiling Overview](#)

Organizations

Centers

- C Cancer Center
- I Institute for Healthcare Policy and Innovation
- S Samuel and Jean Frankel Cardiovascular Center

College of Engineering

- A Aerospace Engineering

School of Dentistry

- A Academic Affairs
- B Biologic and Materials Science
- C Cariology, Restorative Sciences and Endodontics
- Community Dentistry
- D Dean's Office and Faculty Affairs
- Dental Hygiene

Training Resources



Office of Research

Recent Grants

[more >](#)

1. Dinesh Khanna
ACT12339: Double-blind, randomized, 8-week placebo-controlled, and 16-week open label extension Study investigating the Safety, Pharmacokinetics and Pharmacodynamics of SAR100842 Given Orally to Patients with Diffuse Cutaneous Systemic Sclerosis
11/2014 - 03/2015

REACH North Carolina

<http://reachnc.org/>

- **Example from United States:** REACH NC is an external Web portal to find thousands of experts and assets within North Carolina higher education and research institutions.
- The **Pure Expert** system aggregates **publishing, patents, and funding** information & create expert profiles for internal or external use

Pure Experts Portal

- Showcase and increase discoverability of researchers
- Automatically create profile for each researchers
- His expertise is analyzed by semantic technology (Finger Print)
- Easy to understand his research network (other researchers, other institutions)
- Find and match Funding opportunities
- 學者研究成果展示
- 根據研究主題比對類似專家
- 檢視共同合作對象
- 提供國際資金贊助機會



Waseda University
School of Advanced Science and Engineering

research profiles

Home > Department of Advanced Science and Engineering > Yasuhiro HAYASHI

Yasuhiro HAYASHI

Graduate School of Advanced Science and Engineering, Department of Electrical Engineering and Bioscience

Home

Expert Overview

Fingerprint

Publications

Similar Experts

Journals

Fingerprint Trends

Institutional Network

Coauthor Network

Research Network

Curriculum Vitae



Yasuhiro HAYASHI

林 泰弘

Departments

Graduate School of Advanced Science and Engineering
先進理工学研究所

Department of Electrical Engineering and Bioscience
電気・情報生命専攻

Graduate School of Advanced Science and Engineering
先進理工学研究所

Department of Advanced Science and Engineering
先進理工学専攻

Job Title
Professor
教授

研究主題

Fingerprint

- Voltage control
- Electric power distribution
- Distributed power generation
- Gas generators
- Wind power
- Tabu search
- Electric generators
- Voltage regulators
- Switches
- Computer simulation

Fingerprint Trends

Explore the Fingerprint Trends

Research Network

Explore the Expert Network

Publications

- Junya Matsuki; Hisao Taoka; Yasuhiro Hayashi; Shigeru Iwamoto; Akhiro Daikoku
Improvement of three-phase unbalance due to connection of dispersed generator by damper windings of synchronous generator
Electrical Engineering in Japan (English translation of Denki Gakkai Ronbunshi). 2014;186(1):43-50.
- Takeru Inoue; Keiji Takano; Takayuki Watanabe; Jun Kawahara; Ryo Yoshinaka; Akhiro Kishimoto; Koji Tsuda; Shin-Ichi Minato; Yasuhiro Hayashi
Distribution loss minimization with guaranteed error bound
IEEE Transactions on Smart Grid. 2014;5(1):102-111.
- Shoji Kawasaki; Kazuki Shimoda; Motohiro Tanaka; Hisao Taoka; Junya Matsuki; Yasuhiro Hayashi
Restraint method of voltage total harmonic distortion in distribution network by power conditioner systems using measured data from IT switches
Electrical Engineering in Japan (English translation of Denki Gakkai Ronbunshi). 2013;182(3):19-29.

Similar Experts

Expert	Publications
Shinichi IWAMOTO	132
Shinji WAKAO	129
Atsushi ISHIYAMA	166
Kenko UCHIDA	122
Atsuo TAKANISHI	410

Journals

Journal	Publications
IEEJ Transactions on ...	38
Electrical Engineering I...	18
IEEE PES Innovative S...	4
IEEE Transactions on ...	3
PECon 2012 - 2012 IE...	3

Institutional Network

Non-Profiled Organizations	Shared Pub.
National University Co...	54
Tokyo Electric Power	22
Ibaraki University	14
Mitsubishi Electric Cor...	7
Gifu National College o...	6
University of Tokyo	5

Coauthor Network

Profiled Coauthors	Shared Pub.
Shinji WAKAO	5
Shinichi IWAMOTO	3
Noboru MURATA	2

Non-Profiled Coauthors	Shared Pub.
Junya Matsuki	53
Shoji Kawasaki	16
Koichi Nara	12



Identify expertise within and across institutions

Share your institution's data with others

- Search across the Experts Community and DIRECT2Experts which includes 160+ global institutions, containing more than **160,000 researcher profiles**.

Pure Experts Portal

Home Experts Research outputs Research units Projects Activities Journals

Refine and narrow down result by adding related concepts

Engineering & Materials Science

- Phosphors
- Sapphire
- Nanorods
- Quantum efficiency
- Luminescence
- Semiconductor quantum wells
- Toll collection
- Substrates
- Wet etching
- Electroluminescence
- Silicon oxides
- Oxides
- Metals

Selected concepts

Engineering & Materials Science

Light emitting diodes

Concept: Light emitting diodes
Weight: 100%
Domain: Engineering & Materials Science
Semantic group: Electrical Engineering

Internal experts ? Experts community ? DIRECT2Experts ?

11 experts found with research output relating to all selected concepts

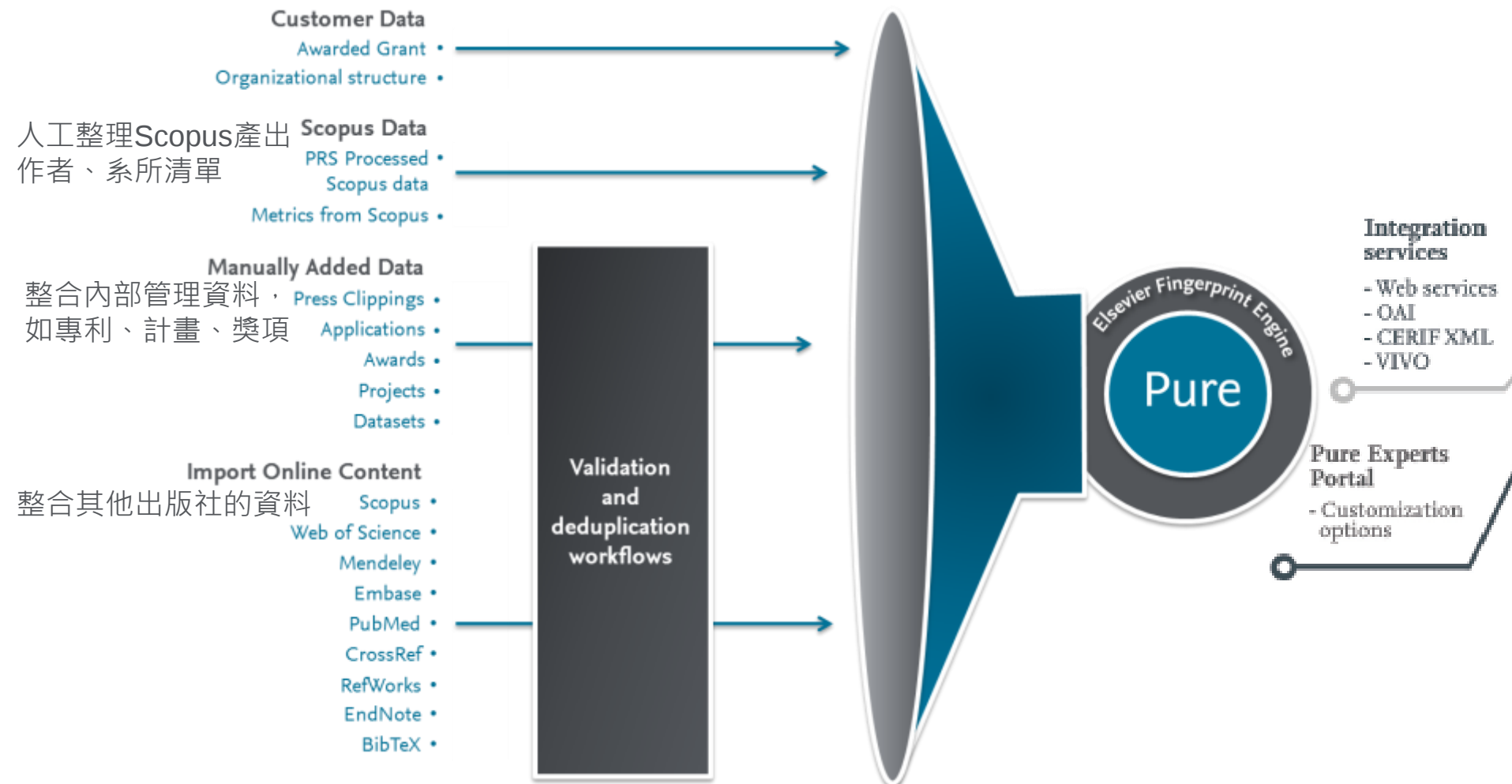
Research Output range No Limit

1	亞儒 李	光電科技研究所	38 out of 63
2	淑芬 胡	物理學系	14 out of 122
3	敏鴻 李	光電科技研究所	7 out of 115
4	陳鑑 許	電機工程學系	3 out of 78



Pure能整合多種資料來源，包含內部及外部

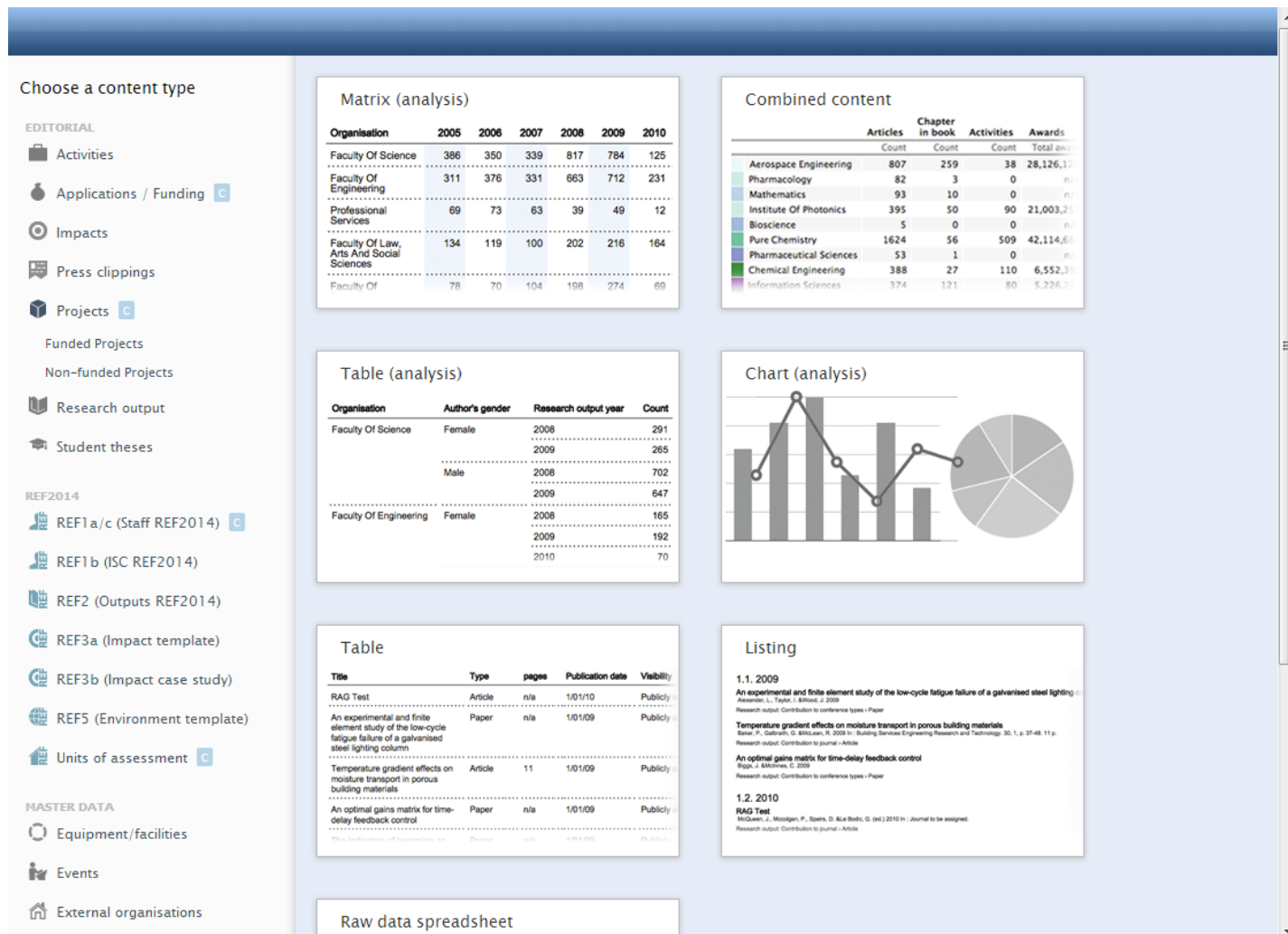
A comprehensive research information management system



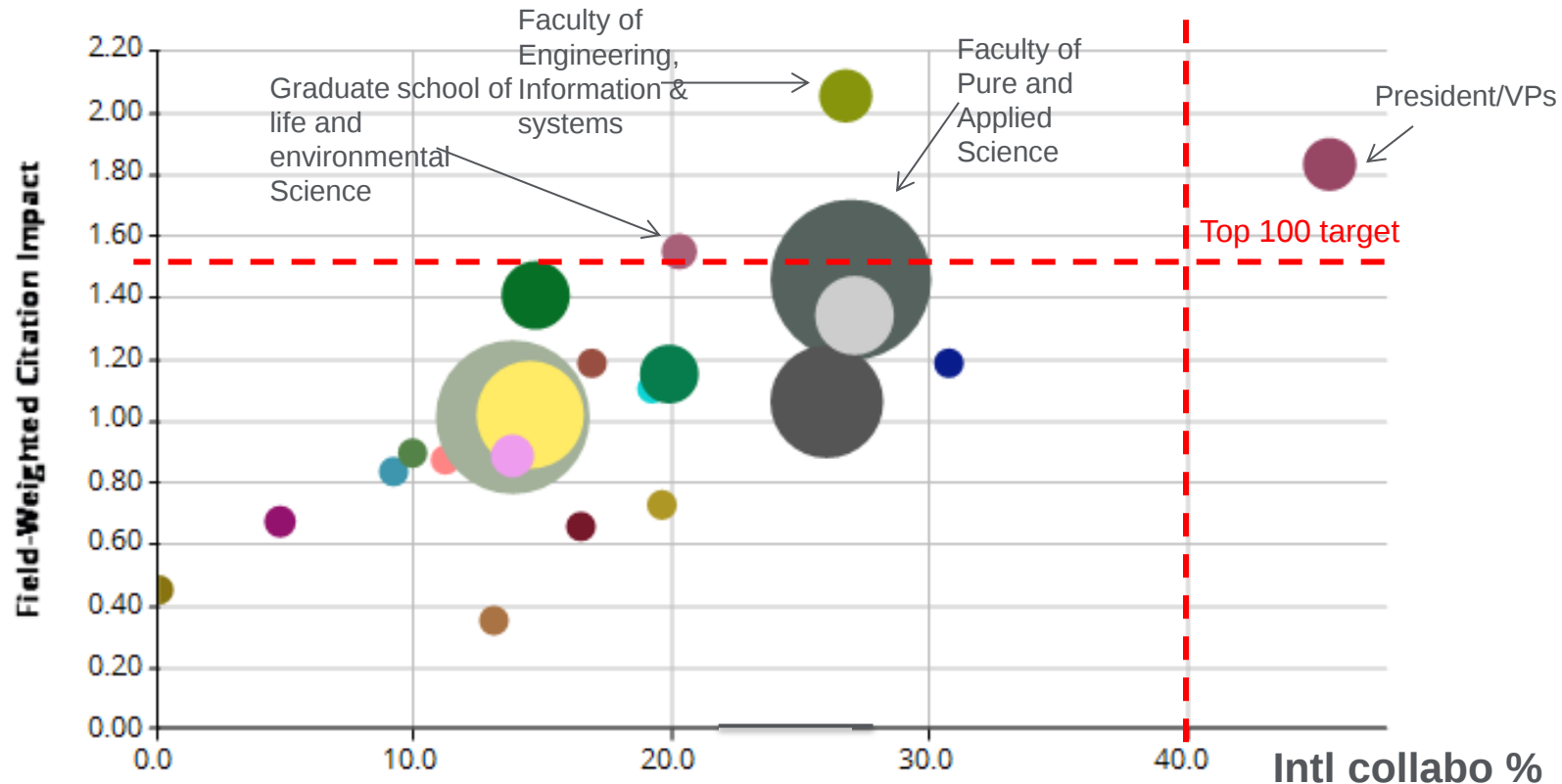
Analyze – View progress at-a-glance of key milestones through Pure's powerful dashboards



Access controls ensure users can only view and report on the content relevant to them



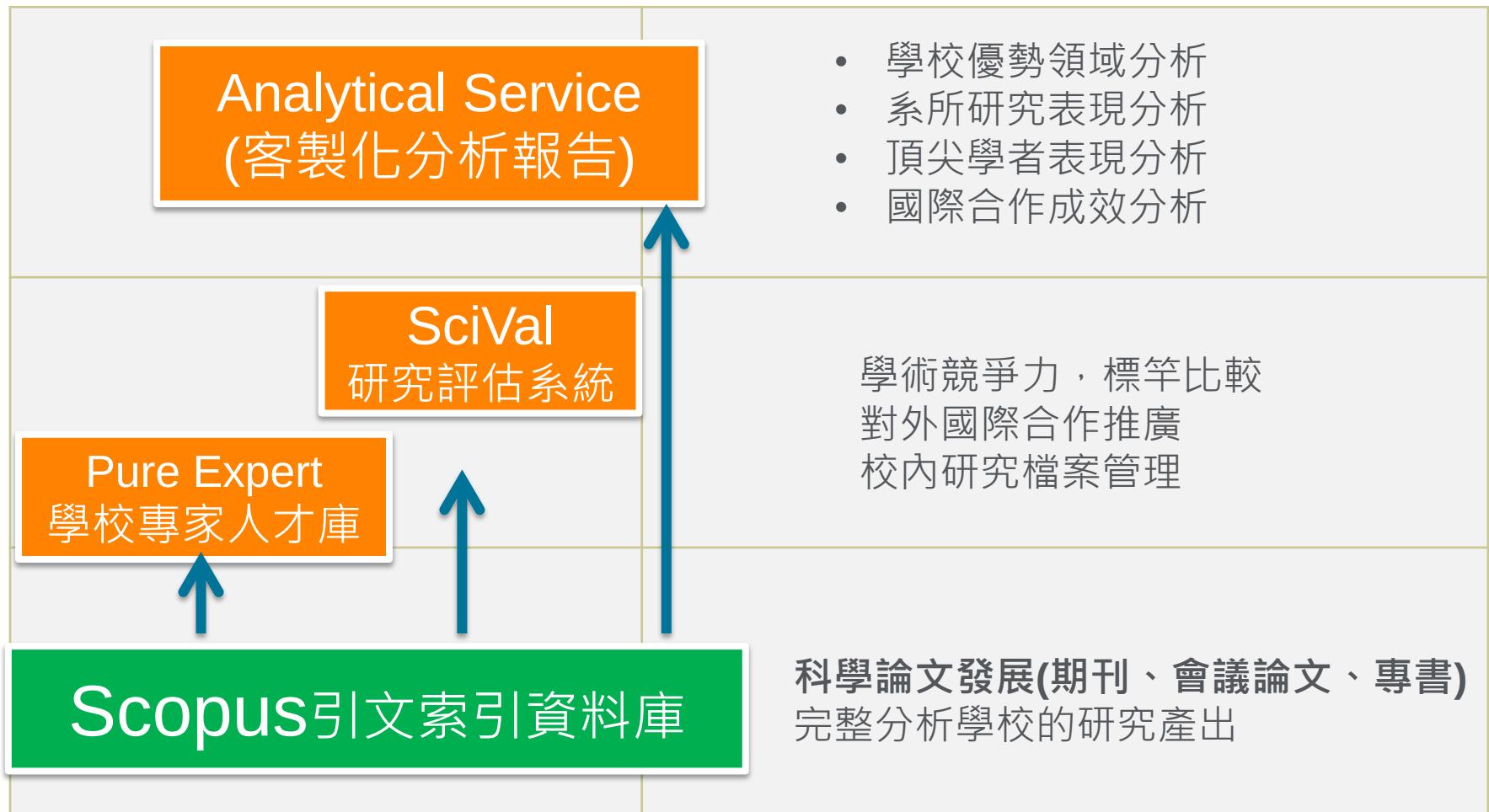
Comparison of each profiled dept in a univ

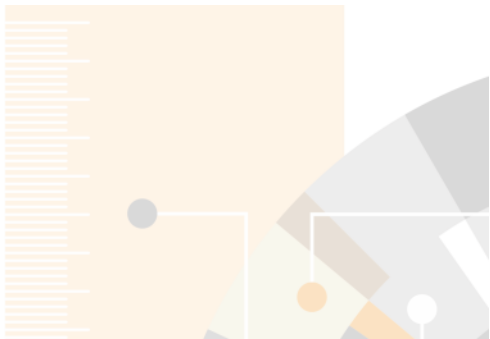


By profiling all researchers and dept info, each depts can be compared with same measurement.

Product lineup of Elsevier Research Intelligence:

Elsevier Offers





Thank you

