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- Strengths of Scopus
- How to use Scopus to facilitate your research
 - Information gathering for research topics and proposal
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- Conclusion

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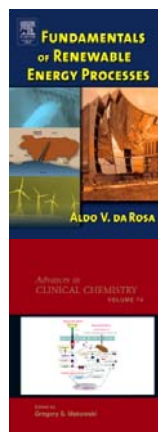
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Comparison of NMR structural and dynamics features of the urea and guanidine-denatured states of GED

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ABSTRACT

Denatured states of proteins, the starting points as well as the intermediates of folding *in vivo*, play important roles in biological function. In this context, we describe here urea unfolding and characteristics of the denatured state of CTPase effector domain (GED) of dynamin created by 9.7 M urea. These are compared with similar data for guanidine induced denaturation reported earlier. The unfolding characteristics in the two cases, as measured by the optical probes, are significantly different, urea unfolding proceeding via an intermediate. The structural and motional characteristics, determined by NMR, of the two denatured states are also strikingly different. The urea-denatured state shows a combination of α - and β -preferences in contrast to the entirely β -preferences in the guanidine-denatured state. Higher transverse relaxation rates suggest higher folding propensities in the urea-denatured state. The implications of these to GED folding are discussed.

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Denatured states of proteins are beginning to be recognized as important entities in the biological world—a denatured state of a protein is defined as the lowest energy ‘non-native’ state under a given set of conditions [1]. Inside a living cell, the environmental conditions like the local intracellular concentrations, interaction with various ligands etc. can vary significantly from organelle to organelle [2], and even within the same organelle there can be variations due to signaling processes and interactions with different molecules. All these processes tightly regulate the translational and post-translational processes which decide the fate of the newly synthesized polypeptide chain. Thus a particular protein may see different environments which lead to different denatured states during the course of its function. Some of the denatured states may lead to soluble aggregates, which occasionally lead to diseases [3].

When a polypeptide chain begins to fold starting from a denatured ensemble, each molecule can, in-principle, fold along a different path. In this scenario, the starting state in terms of the conformational preferences across the polypeptide chain will have a significant influence on the path the molecule adopts; different denaturing environments inside a cell can create different initial states for the protein to fold from. If the chain already has some structure, that may form the nucleus for additional structure to build upon, and this will reduce the search options for the polypeptide chain in the multi-dimensional conformational space. It can also happen that the existing structure may have to

be removed for a new structure to get formed for the protein to move towards the native state. Thus the number of folding paths for a given protein would be dictated by the number and nature of structural preferences across the length of the chain.

In view of all these, it is important to understand the characteristics of the various denatured states, with regard to their topologies, heterogeneities and motional characteristics, their modulation due to changes in environmental conditions, etc. at atomic level detail. *In vitro*, different denatured states can be created by use of different denaturants, such as, Gdn-HCl, urea, SDS, extreme pH conditions, etc. Although these may not exactly represent the denatured states, *in vivo*, they help sample the ensemble quite widely and thus allow investigation of the folding processes, in general.

In this background, we present here a comparison study of the structural and dynamics characteristics of urea-denatured and Gdn-HCl-denatured states of the CTPase effector domain (GED)² of dynamin, a crucial protein in clathrin mediated endocytosis. GED plays important roles both in dynamin assembly around the neck of the clathrin coated vesicles, and assists the N-terminal CTPase domain in GTP hydrolysis required for dynamin function [4,5]. The recombinant form of GED has been shown to self-assemble and form large megadalton-sized oligomers *in vitro* [6,7] even at micro-molar concentrations. We first describe the global characteristics of urea-mediated unfolding of GED, as studied by optical techniques including CD and fluorescence and then the residue-level

Fluorescence measurements

Bi-ANS [4,4'-bis(1-anilino)phthalene 8-sulfonate] Molecular Probes, OR, USA) was prepared and the concentration was determined using the extinction coefficient, $\epsilon_{490} = 23,000 \text{ cm}^2 \text{ M}^{-1}$. Steady-state fluorescence emission spectra were recorded with $\lambda_{\text{exc}} = 395 \text{ nm}$ on a Spex Fluorolog-DM300F spectrofluorimeter at 27 °C using a 1 cm path length cuvette with a band pass of 1.5 nm for both excitation and emission. The emission spectra were measured from 450 to 550 nm at a scan rate of 1 nm s^{-1} . The denaturation profiles of 10 μM protein in Tris buffer (20 mM, pH 7.4), pre-equilibrated with varying concentration of the denaturant and bi-ANS (4 μM) for 12 h, were measured by monitoring the emission at 491 nm. The data were smoothed by three-point averaging to minimize errors due to denaturant concentration adjustments and were normalized using the following equation [10]:

$$F_{\text{app}} = \frac{F - F_{\text{den}}}{F - F_{\text{u}}}$$

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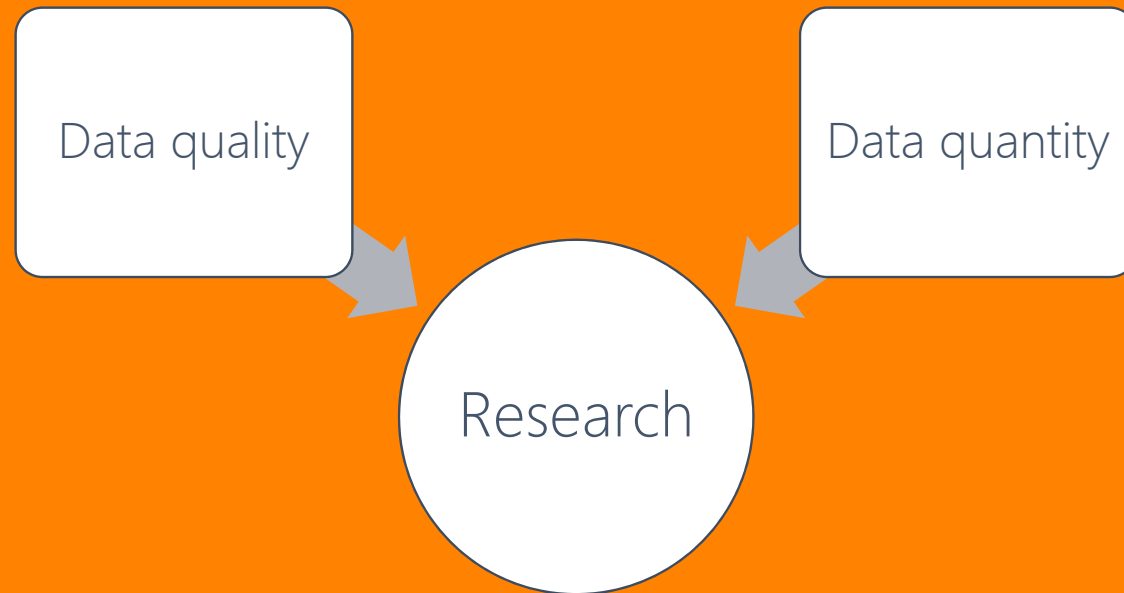
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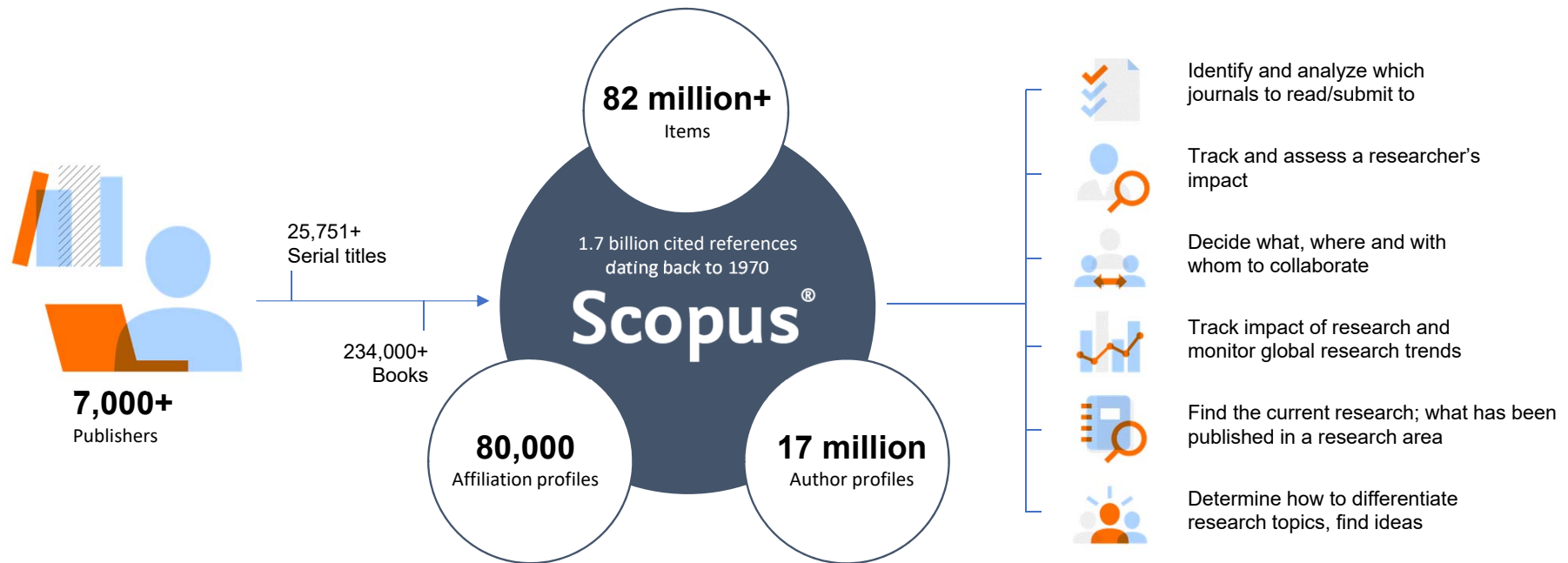
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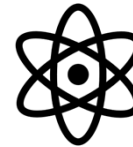
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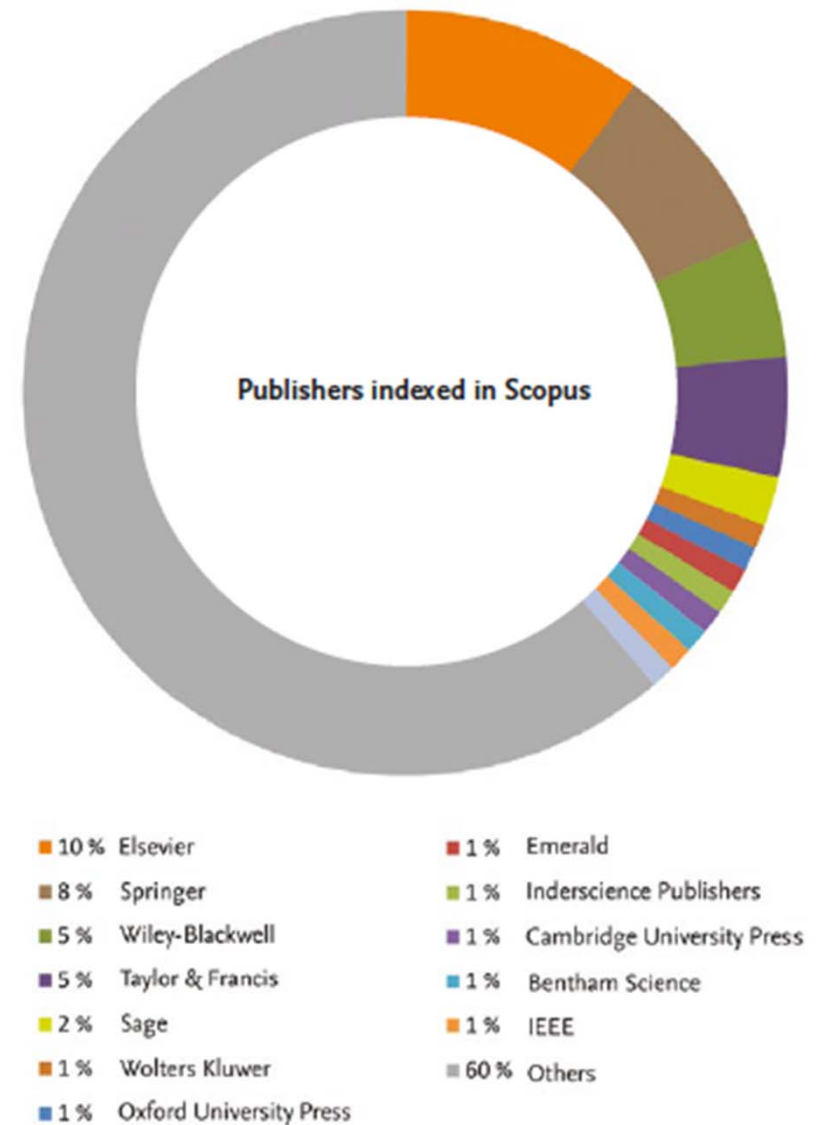
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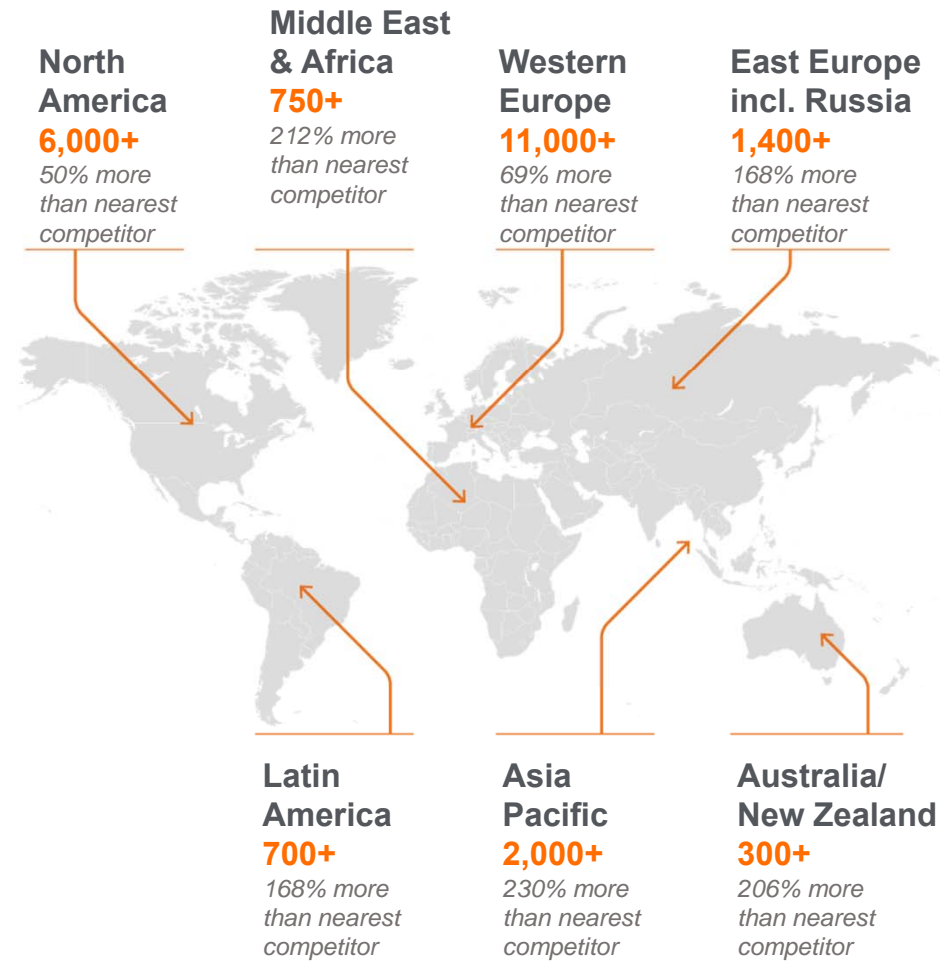
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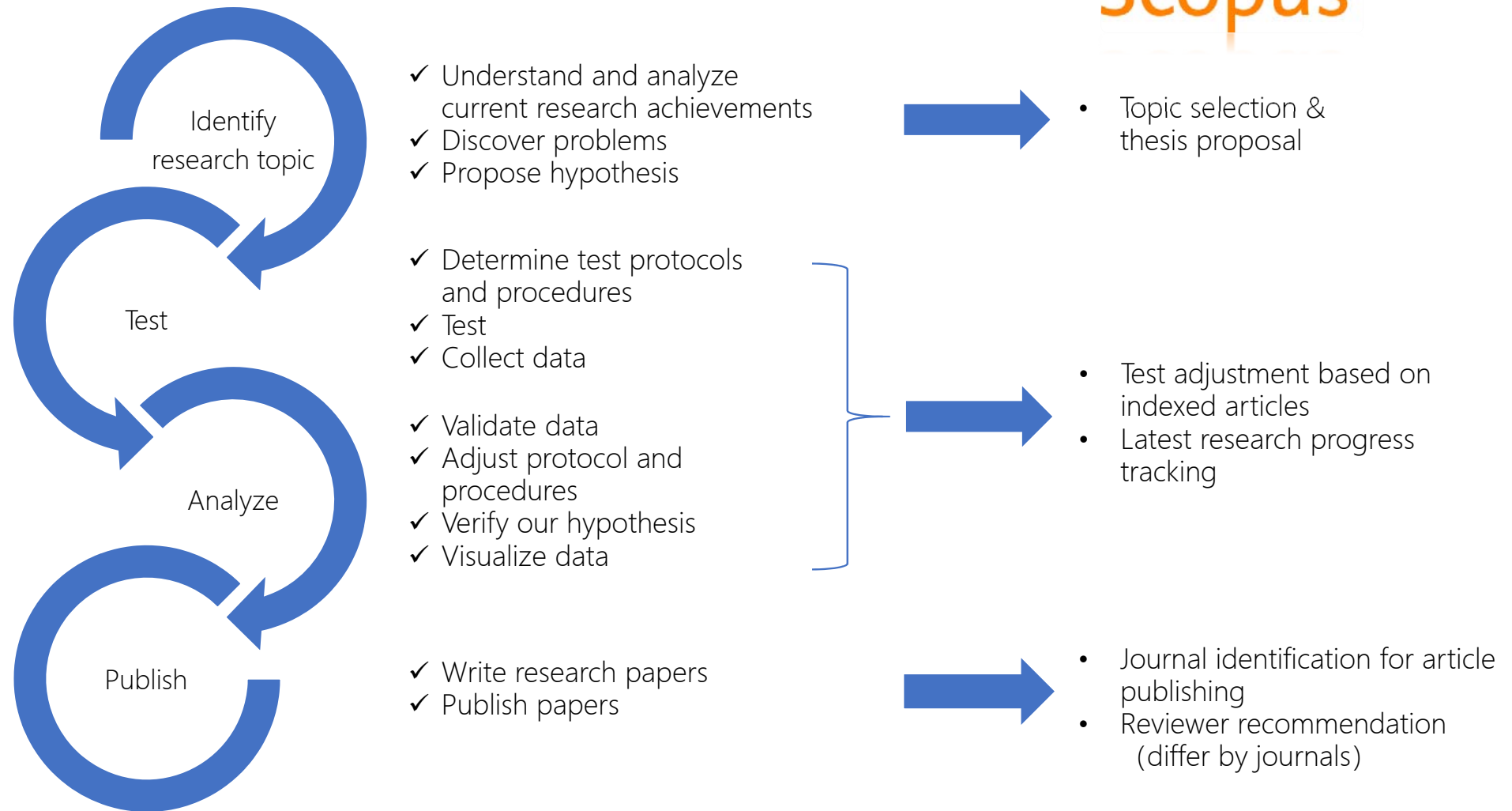
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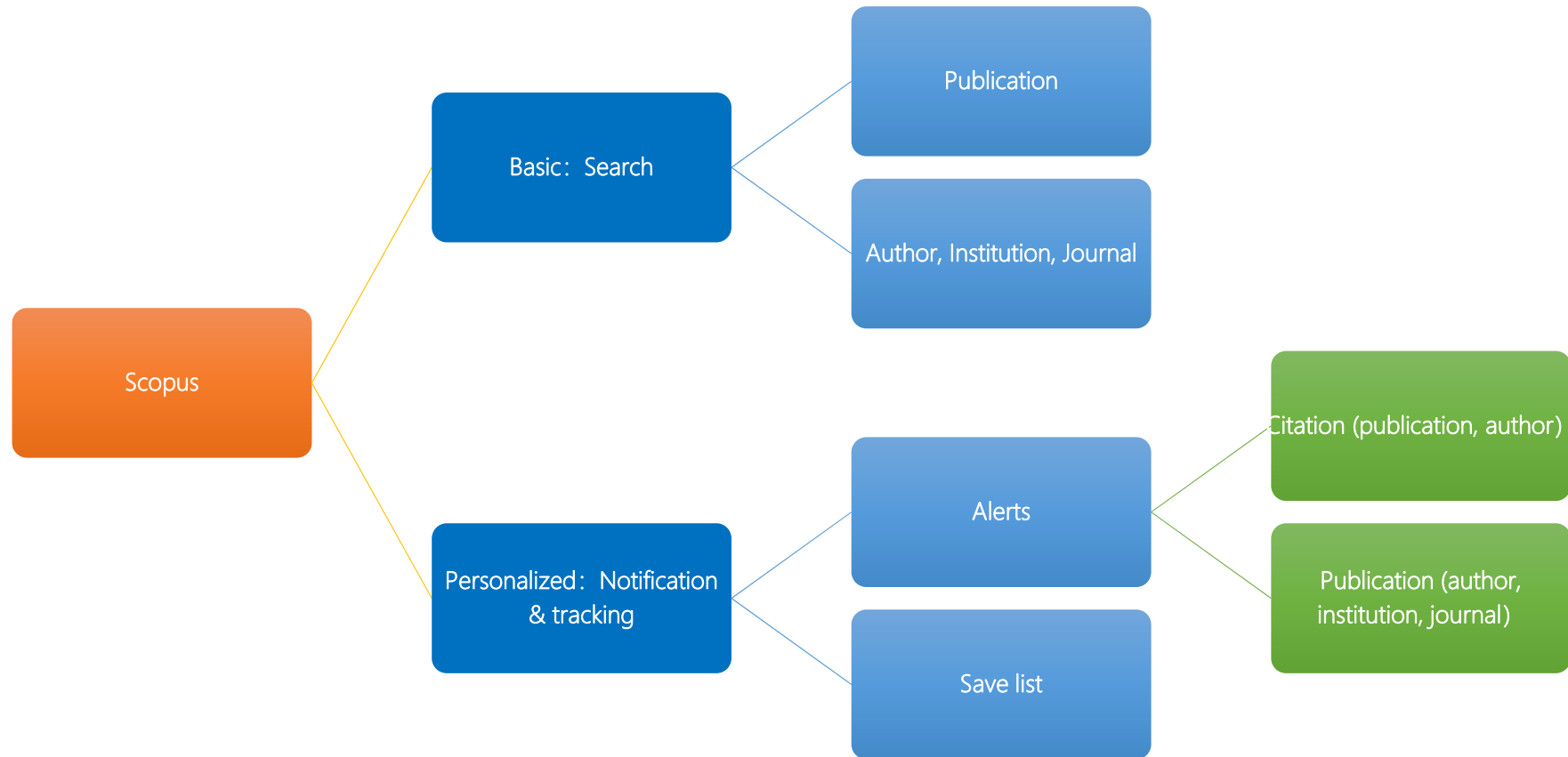


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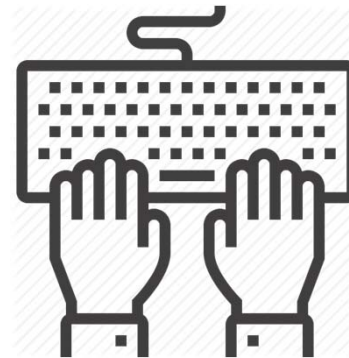
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The most widely used online searching strategy



The “building blocks”
approach

Scopus Search Strategies-Search operators and retrieval rules

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OR	Results must include one or more of the terms
And not	To exclude specific terms
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Wildcards "*"	Replace any letter in a search term. e.g. "transplant*" returns results containing "transplant, transplanted, transplanting..."
""	Loose/approximate phrases search. e.g. "heart attack" searches for documents where heart attack appear together in the title, abstract, or keywords.
{ }	Exact phrases search. e.g. {health care?} returns results such as: Who pays for health care?

Scopus Search Strategies

General starting points, whatever strategy you choose:

- Think before you type
- Make some conceptual analysis:
 1. write your problem down in a sentence
 2. what words represent the constituting elements for your subject?
 3. which element is most vital?
- think about some proper search terms (other than those words jotted down already)

Scopus Search Strategies

The “building blocks” approach

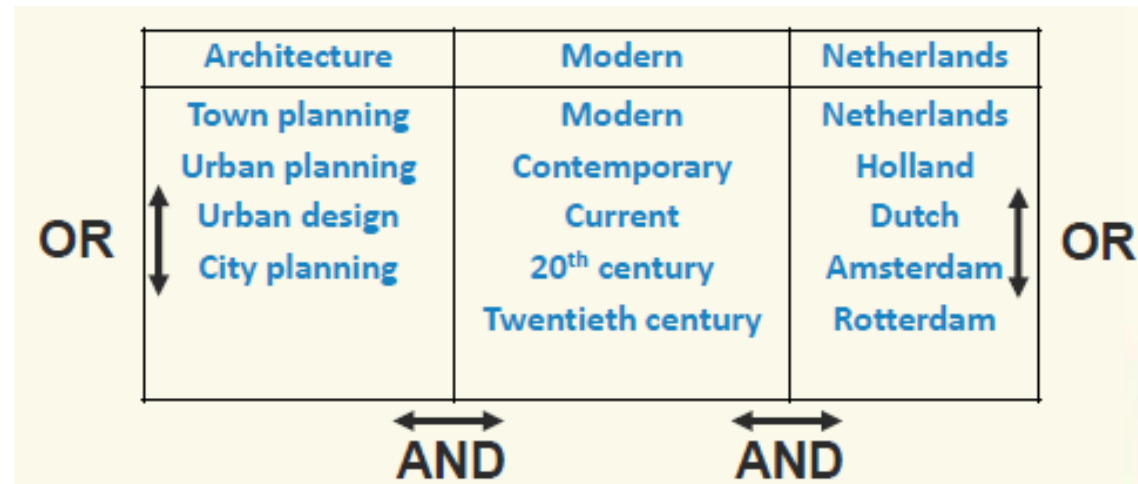
- Determine the main elements or concepts associated with your problem (in somewhat more detail than before)
- Write characteristic words for them, next to each other
- Think of synonyms or alternatives for these words
- Write these words under the corresponding concept

Sample: Find articles on modern town planning in The Netherlands:

Town planning	Modern	Netherlands
Town planning	Modern	Netherlands
Urban planning	Contemporary	Holland
Urban design	Current	Dutch
City planning	20th century	Amsterdam
	Twentieth century	Rotterdam

Content based on Scopus Search Strategies by Dr. Eric Sieverts & Arthur Eger MSc

Scopus Search Strategies



- Formulate queries based on the elements or concept groups, "OR" synonyms
- Retrieve individual result sets for each element or concept group
- Combine systematically retrieved sets with Boolean operators (mostly AND) to build a solution set for the whole problem

Scopus Search Strategies

- Retrieve individual result sets and combine

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AND ▼

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"building blocks"



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
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



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<input type="checkbox"/> 1	Early Cardiac Remodeling Promotes Tumor Growth and Metastasis	Avraham, S., Abu-Sharki, S., Shofti, R., (...), Shaked, Y., Aronheim, A.	2020	Circulation 142(7), pp. 670-683	0
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<input type="checkbox"/> 2	Cardiac Amyloidosis: Evolving Diagnosis and Management: A Scientific Statement From the American Heart Association	Kittleson, M.M., Maurer, M.S., Ambardekar, A.V., (...), Nativi-Nicolau, J., Ruberg, F.L.	2020	Circulation 142(1), pp. e7-e22	1
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<input type="checkbox"/> Middle Aged	(7,643) >	<input type="checkbox"/> Heart Muscle Ischemia	(2,363) >	<input type="checkbox"/> Blood	(1,446) >
<input type="checkbox"/> Heart	(6,463) >	<input type="checkbox"/> Adolescent	(2,316) >	<input checked="" type="checkbox"/> Congestive Heart Failure	(1,438) >
<input type="checkbox"/> Heart Infarction	(5,972) >	<input type="checkbox"/> Prognosis	(2,308) >	<input type="checkbox"/> Inflammation	(1,435) >
<input type="checkbox"/> Animal Experiment	(5,536) >	<input type="checkbox"/> Cardiovascular Diseases	(2,275) >	<input type="checkbox"/> Coronary Artery Blood Flow	(1,432) >
<input type="checkbox"/> Animals	(5,226) >	<input type="checkbox"/> Note	(2,213) >	<input type="checkbox"/> Genetics	(1,416) >
<input type="checkbox"/> Clinical Article	(4,339) >	<input type="checkbox"/> Heart Catheterization	(2,140) >	<input type="checkbox"/> Electrocardiogram	(1,400) >
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<input type="checkbox"/> Treatment Outcome	(3,951) >	<input type="checkbox"/> Drug Effect	(2,024) >	<input type="checkbox"/> Epidemiology	(1,310) >
<input type="checkbox"/> Mortality	(3,815) >	<input type="checkbox"/> Risk Assessment	(2,003) >	<input type="checkbox"/> Nuclear Magnetic Resonance Imaging	(1,310) >
<input type="checkbox"/> Animal Model	(3,808) >	<input type="checkbox"/> United States	(1,999) >	<input type="checkbox"/> Prospective Studies	(1,303) >
<input type="checkbox"/> Clinical Trial	(3,749) >	<input type="checkbox"/> Myocardium	(1,996) >		
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1 Heart Repair With Myocytes Eschenhagen, T., Weinberger, F. 2019 Circulation research 124(6), pp. 843-845 0

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2 DNA Damage Response/TP53 Pathway Is Activated and Contributes to the Pathogenesis of Dilated Cardiomyopathy Associated With LMNA (Lamin A/C) Mutations Chen, S.N., Lombardi, R., Karmouch, J., (...), Gurha, P., Marian, A.J. 2019 Circulation research 124(6), pp. 856-873 0

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1 Preskripce a dávkování inhibitorů RAAS u pacientů s chronickým srdečním selháním v registru FAR NHL [Prescription and dosage of RAAS inhibitors in patients with chronic heart failure in the FAR NHL registry]	Špinarová, M., Špinar, J., Pařenica, J., (...), Ludka, O., Jarkovský, J.	2019	Vnitřní lékařství 65(1), pp. 13-14	0
2 A selective inhibitor of mitofusin 1-βIIIPKC association improves heart failure outcome in rats	Ferreira, J.C.B., Campos, J.C., Qvit, N., (...), Kowaltowski, A.J., Mochly-Rosen, D.	2019	Nature Communications 10(1),329	0

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<input type="checkbox"/> 1	Comparison of combined hemodialysis and hemoperfusion with hemoperfusion alone in 106 patients with diabetic ketoacidosis and acute	Wang, G., Li, Z., Zhang, Y., Pan, Y., Chen, L.	2021	Medical Science Monitor	0



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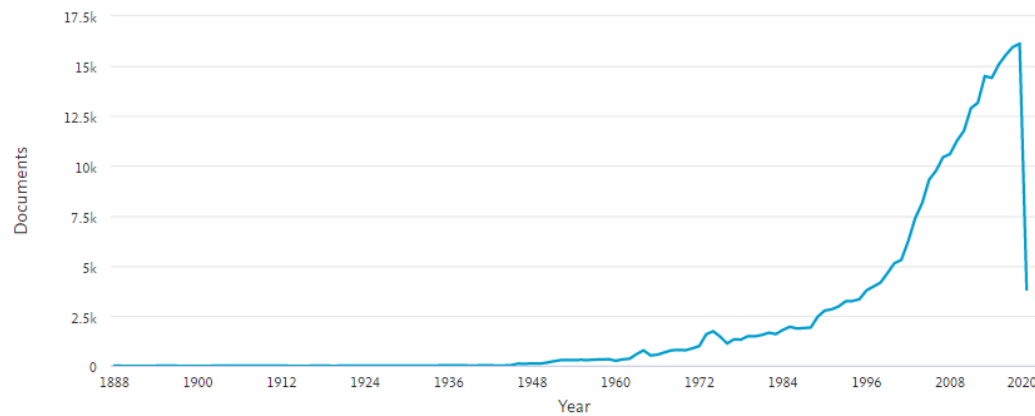
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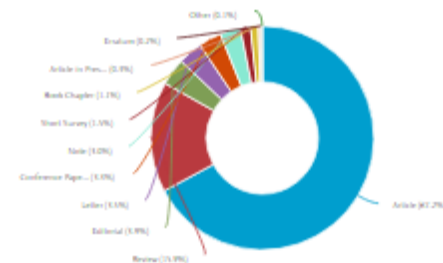
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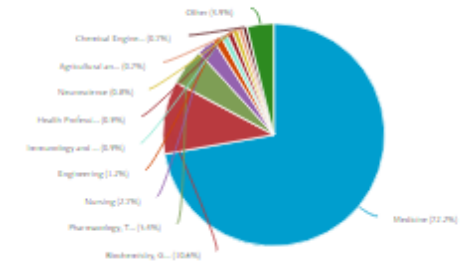
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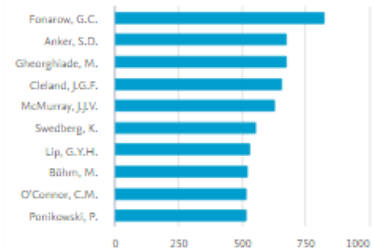


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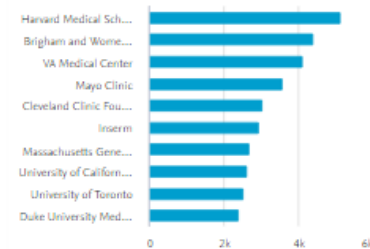
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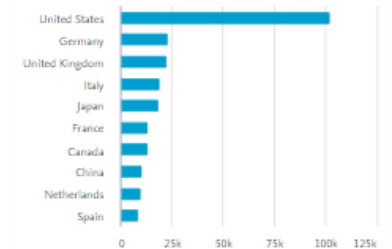
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1	Ezetimibe added to statin therapy after acute coronary syndromes	Cannon, C.P., Blazing, M.A., Giugliano, R.P., (...), Sullivan, P., Rodriguez-Ospina, L.	2015	New England Journal of Medicine 372(25), pp. 2387-2397	1437
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Effects of an angiotensin-converting-enzyme inhibitor, ramipril, on cardiovascular events in high-risk patients (Article)

Yusuf, S. ✉ 👤

Can. Cardiovasc. Collaboration P., Hamilton General Hospital, 237 Barton St. E., Hamilton, Ont. L8L 2X2, Canada

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☐ 1 Lonn, E.M., Yusuf, S., Jha, P., Montague, T.J., Teo, K.K., Benedict, C.R., Pitt, B.

Emerging role of angiotensin-converting enzyme inhibitors in cardiac and vascular protection (C)

(1994) *Circulation*, 90 (4 I), pp. 2056-2069. Cited 433 times.

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Teo, K.K. , Mitchell, L.B. , Pogue, J.
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(2000) *Cleveland Clinic Journal of Medicine*

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Grubic, N. , Colledanchise, K.N. , Liblik, K.
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Effects of an angiotensin-converting-enzyme inhibitor, ramipril, on cardiovascular events in high-risk patients (Article)

Yusuf, S. ✉ 👤

Can. Cardiovasc. Collaboration P., Hamilton General Hospital, 237 Barton St. E., Hamilton, Ont. L8L 2X2, Canada

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2018 ESC/ESH Guidelines for the management of arterial hypertension

Williams, B., Mancia, G., Spiering, W....

(2018) *European Heart Journal*

Cited 1458 times

2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines

Whelton, P.K., Carey, R.M., Aronow, W.S....

(2018) *Journal of the American College of Cardiology*

Cited 1140 times

Treatment with multiple blood pressure medications, achieved blood pressure, and mortality in older nursing home residents: The PARTAGE study

Benetos, A., Labat, C., Rossignol, P....

(2015) *JAMA Internal Medicine*

Cited 139 times

Effects of blood pressure lowering on outcome incidence in hypertension: 4. effects of various classes of antihypertensive drugs -

Overview and meta-analyses

Thomopoulos, C., Parati, G., Zanchetti, A....

(2015) *Journal of Hypertension*

Cited 101 times

Top authors

Thomopoulos, Costas G.

Mancia, Giuseppe

Parati, Gianfranco

Oparil, Suzanne

Aronow, Wilbert S.

Scholarly Output

16

15

14

13

13

Keyphrase analysis



AA relevance of keyphrase | declining AA Growth

Analyze in SciVal >

Topic selection & thesis proposal

Understand research history and background – Grasp the context of a certain research topic

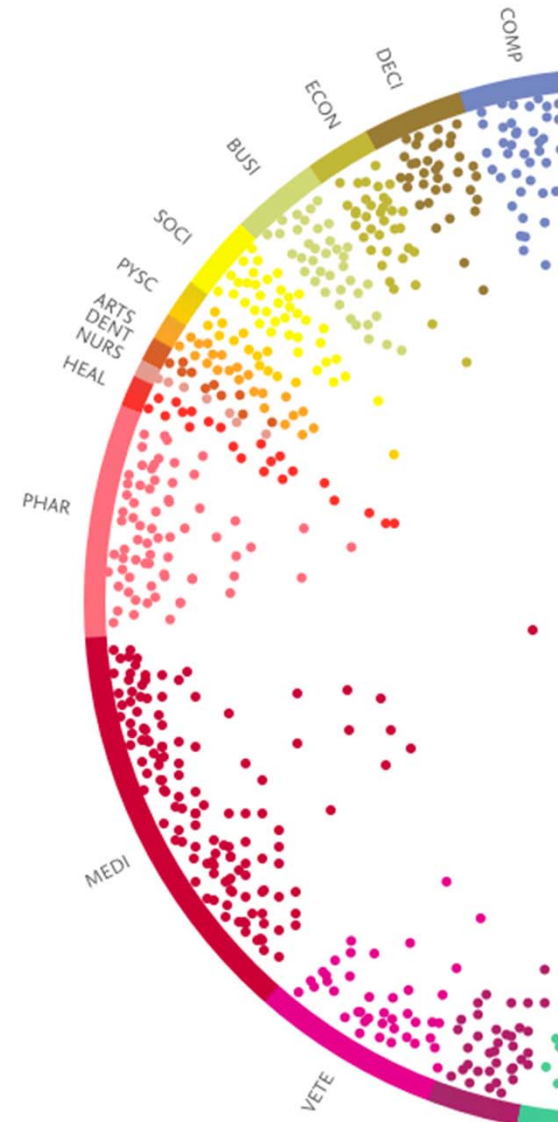
- We have identified ~97.000 global research topics by clustering all of Scopus and ranked them by Prominence.
- Prominence is a new indicator that shows the current momentum of a topic by looking at **very recent** citations, views and CiteScore values.
- **Prominence = momentum (not the same as importance!).**
- Prominence predicts funding – helps researchers and research managers identify topics in which funding will increase.
- Going way beyond what the competition can do...

Prominence combines 3 metrics to indicate the momentum of the topic

Citation Count in year

Scopus **Views Count**

Average **CiteScore**



Practice

1. Combine different terms to refine the results
2. Analyze the results summarize the research history and background.
3. Select at least one publications to grasp the context of one certain topic



Research progress tracking


Obtain the latest research progress, ensure the innovation of the research



- Research topic tracking
- Researcher and journal focusing

Research progress tracking

Personalized function. Registration needed.




Register with email within institution's IP range

 Scopus

Search Sources Lists SciVal Library catalogue ?   FH

Start exploring

Discover the most reliable, relevant, up-to-date research. All in one place.

 Documents  Authors  Affiliations



Search within
Article title, Abstract, Keywords











Search documents *

[+ Add search field](#) [+ Add date range](#) [Advanced document search >](#)

Search

Search history

Combine queries... *e.g. #1 AND NOT #3*  

2	TITLE-ABS-KEY ("heart AND failure")	461,691 document results	    
1	TITLE-ABS-KEY ("heart AND failure")	461,691 document results	    

[^ Top of page](#)

Research progress tracking

Scopus

[Search](#) [Sources](#) [Alerts](#) [Lists](#) [Help](#) [SciVal](#) [Tingting Du](#)

291,844 document results

[View secondary documents](#) [View 123062 patent results](#) [Search your library](#) [View 1109 Mendeley Data](#)

TITLE-ABS-KEY ("Heart Failure")

[Edit](#) [Save](#) [Set alert](#) [Set feed](#)

Research tracking

Search within results...

Refine results

[Limit to](#) [Exclude](#)

Access type

Year

☐ 2019 (3,936) >
☐ 2018 (16,131) >
☐ 2017 (15,945) >
☐ 2016 (15,557) >
☐ 2015 (15,081) >

Analyze search results

[Show all abstracts](#) Sort on: [Cited by \(highest\)](#)

☐ All [CSV export](#) [Download](#) [View citation overview](#) [View cited by](#) [Save to list](#) [Print](#) [Email](#) [Share](#)

	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Intensive blood-glucose control with sulphonylureas or insulin compared with conventional treatment and risk of complications in patients with type 2 diabetes (UKPDS 33)	Turner, R.	1998	Lancet 352(9131), pp. 837-853	16004
	View abstract Full Text View at Publisher Related documents				
<input type="checkbox"/> 2	Effects of an angiotensin-converting-enzyme inhibitor, ramipril, on cardiovascular events in high-risk patients	Yusuf, S.	2000	New England Journal of Medicine 342(3), pp. 145-153	7538

Research progress tracking

The image shows the Scopus website interface. At the top left is the Scopus logo. To the right are navigation links: Search, Sources, Lists, SciVal, and Library catalogue. Further right are icons for help, notifications, and a user profile. The user profile dropdown menu is open, showing the user's name (Fianna Hua) and email (fianna.hua@elsevier.com). Below this, the menu lists: Dashboard, Saved searches, Alerts (highlighted with a red box), Saved lists, Export and reference management settings, and Privacy center. At the bottom of the menu are buttons for 'View account' and 'Sign out'. A red box labeled 'Manage tracking functions' points to the 'Alerts' option. Below the navigation bar, there is a 'Start exploring' section with the text 'Discover the most reliable, relevant, up-to-date research. All in one place.' and tabs for Documents, Authors, and Affiliations. Below this is a search bar with a dropdown menu for 'Search within' (Article title, Abstract, Keywords) and a 'Search documents' button. Below the search bar are links for '+ Add search field', '+ Add date range', and 'Advanced document search'. At the bottom, there is a 'Search history' section with two entries, each showing a search query and the number of document results (461,691). To the right of the search history is a 'Combine queries...' link and a search bar with a dropdown menu for 'e.g. #1 AND NOT #3'.

Scopus

Search Sources Lists SciVal Library catalogue

Start exploring

Discover the most reliable, relevant, up-to-date research. All in one place.

Documents Authors Affiliations

Search within
Article title, Abstract, Keywords

Search documents *

+ Add search field + Add date range Advanced document search >

Search history

Combine queries...

e.g. #1 AND NOT #3

2 TITLE-ABS-KEY ("heart AND failure") 461,691 document results

1 TITLE-ABS-KEY ("heart AND failure") 461,691 document results

Manage tracking functions

Fianna Hua
fianna.hua@elsevier.com

Dashboard

Saved searches

Alerts

Saved lists

Export and reference management settings

Privacy center

View account Sign out

Research progress tracking

Set alert

Set email address &
alert frequency

TITLE-ABS-KEY ("Heart Failure")

Edit Save **Set alert** Set feed

Search within results...

Refine results

Limit to Exclude

Access type ⓘ

Year

☐ 2019

☐ 2018

☐ 2017

☐ 2016

☐ 2015

☐ 2014

☐ 2013

☐ 2012

☐ 2011

☐ 2010

View less

Author name

Set alert

E-mail search alert

If the email address you input belongs to another individual, ensure you have their permission to sign them up for this alert. Your email address will be included on subsequent email alerts.

Search terms

{Mathematical Sciences} W/15 {Fudan University}

Edit

* Required fields

Name of alert *

"heart failure"

Email address(es) *

t.du@elsevier.com

E.g., j.smith@mail.com, p.smith@mail.com

Separate multiple email addresses by a semicolon, comma, space or enter.

Frequency

Every week on Saturday

Status

☒ Active ☐ Inactive

Set alert

Research progress tracking

Set alert



Thu 1/24/2019 5:29 AM

Scopus <scopus@notifications.elsevier.com>

Scopus – 检索通知, "heart failure"

To Du, Tingting (ELS-SHG)

If there are problems with how this message is displayed, click here to view it in a web browser.
Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Scopus

搜索通知: "heart failure"

您名为 ""heart failure"" 的搜索通知已发现 210 个新搜索结果。

文献标题	作者	年份	来源出版物
1. Noninvasive Quantification of Pressure-Volume Loops From Brachial Pressure and Cardiovascular Magnetic Resonance	Seemann, F., Arvidsson, P., Nordlund, D., (...), Arheden, H., Heiberg, E.	2019	<i>Circulation. Cardiovascular imaging</i> , 12(1), p. e008493.
2. Adiponectin promotes muscle regeneration through binding to T-cadherin	Tanaka, Y., Kita, S., Nishizawa, H., (...), Maeda, N., Shimomura, I.	2019	<i>Scientific Reports</i> , 9(1), art. no. 16.

Research progress tracking

Save to list

Scopus

Search Sources Alerts Lists Help ▾ SciVal ⌵ Tingting Du ▾

291,844 document results

View secondary documents View 123062 patent results Search your library View 1109 Mendeley Data

TITLE-ABS-KEY ("Heart Failure")

Edit Save Set alert Set feed

Search within results...

Analyze search results

Show all abstracts Sort on: Cited by (highest)

All CSV export Download View citation overview View cited by Save to list

	Document title	Authors	Year	Source	Cited by
1	Intensive blood-glucose control with sulphonylureas or insulin compared with conventional treatment and risk of complications in patients with type 2 diabetes (UKPDS 33)	Turner, R.	1998	Lancet 352(9131), pp. 837-853	16004
View abstract ▾ Full Text View at Publisher Related documents					
2	Effects of an angiotensin-converting-enzyme inhibitor, ramipril, on cardiovascular events in high-risk patients	Yusuf, S.	2000	New England Journal of Medicine 342(3), pp. 145-153	7538

Refine results

Limit to Exclude

Access type ①

Year

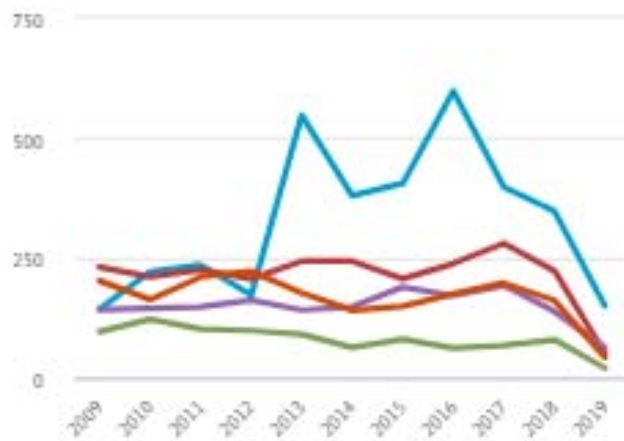
- 2019 (3,936) >
- 2018 (16,131) >
- 2017 (15,945) >
- 2016 (15,557) >
- 2015 (15,081) >
- 2014 (14,407) >

Go through the list first, and save for reading later

Research progress tracking

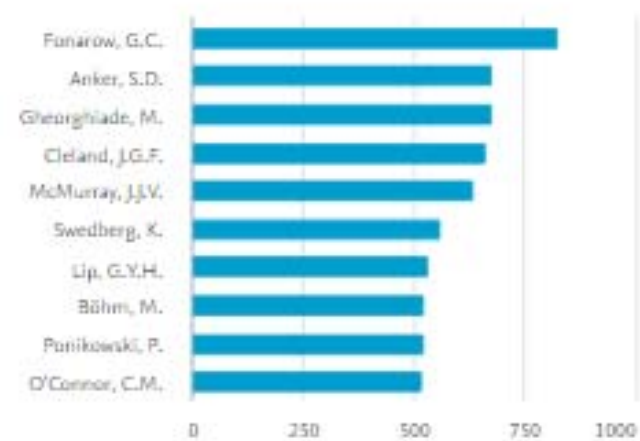
Track researchers & journals from result analysis

Documents per year by source



Journals

Documents by author



Researchers

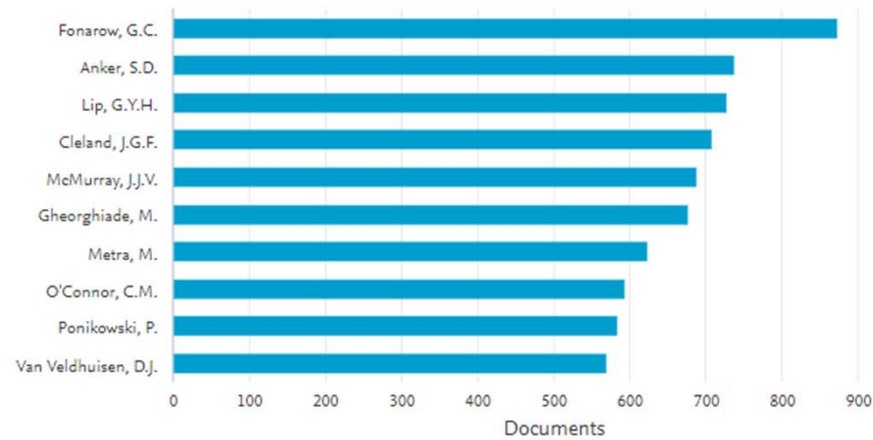
Research progress tracking

Track researchers & journals from result analysis

Author ↑	Documents ↓
Fonarow, G.C.	871
Anker, S.D.	736
Lip, G.Y.H.	726
Cleland, J.G.F.	706
McMurray, J.J.V.	687
Gheorghiade, M.	675
Metra, M.	622
O'Connor, C.M.	593

Documents by author

Compare the document counts for up to 15 authors.



Locate journals and authors through search results analysis

Source ↓	Documents ↑
Circulation	6210
American Journal Of Cardiology	5646
International Journal Of Cardiology	5261
Journal Of The American College Of Cardiology	5187
European Heart Journal	3686
European Journal Of Heart Failure	3682
American Heart Journal	3636
Journal Of Cardiac Failure	2643

Research progress tracking

Track researchers & journals from result analysis

Source details

Circulation

Scopus coverage years: from 1950 to Present

Publisher: Wolters Kluwer Health

ISSN: 0009-7322 E-ISSN: 1524-4539

Subject area: [Medicine: Cardiology and Cardiovascular Medicine](#) [Medicine: Physiology \(medical\)](#)

[View all documents >](#)

[Set document alert](#)

Author details

Fonarow, Gregg C.

[View potential author matches](#)

Author ID: 7004451284 [i](#)

[id](#) <http://orcid.org/0000-0002-3192-8093>

Affiliation(s): [i](#)

[University of California, Los Angeles, Los Angeles, United States](#) [View more](#) [v](#)

Other name formats: [FONAROW, GREGG C.](#) [Fonarow, G. C.](#) [Fonarow, Gregg](#) [Fonarow, C. G.](#) [Fonarow, Gregg C.](#) [Fonarow, Gregory](#) [Fonarow, G.](#) [Fonarow, Greg](#) [Fonarow, Gregg G.](#) [Fonarow, Greg C.](#)

Subject area: [Medicine](#) [Nursing](#) [Biochemistry, Genetics and Molecular Biology](#) [Neuroscience](#) [Pharmacology, Toxicology and Pharmaceuticals](#) [Health Professions](#) [Immunology and Microbiology](#) [Agricultural and Biological Sciences](#) [Social Sciences](#) [Arts and Humanities](#)

Profile actions

[Edit author profile](#)

[id](#) [Connect to ORCID](#) [i](#)

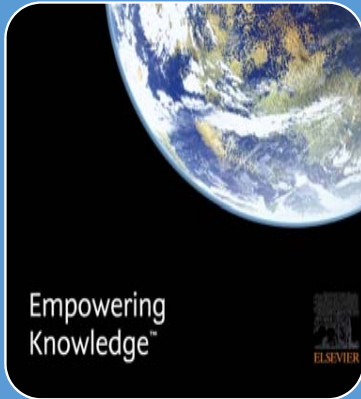
[Alerts](#)
[Set citation alert](#)
[Set document alert](#)

[Save to author list](#)

[Export profile to SciVal](#)

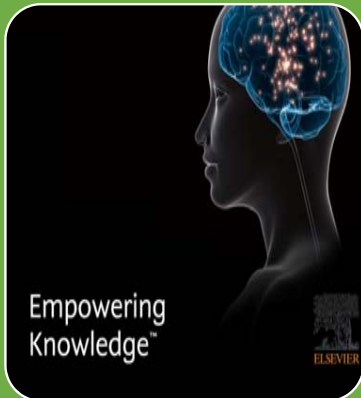
[Learn more about Scopus Profiles](#) [7](#)

Conclusions



Topic selection & thesis proposal

- Quickly understand research history & background
- Obtain cutting-edge research development information



Research progress tracking

- Obtain the latest research progress
- Ensure the innovation of the research

More resources

<https://service.elsevier.com/app/overview/scopus/>

Scopus tutorials

Scopus tutorials

"Scopus tutorials provide a visual guide to using the product. The tutorials below are also found in the relevant FAQs in the Scopus Support center."

▶ Searching for documents

This tutorial demonstrates how to use key terms to create a Document search, make your searches more specific, and work with previous searches.

Tutorial text only

▶ Searching for authors

This tutorial demonstrates how to find publications for a specific author, set up an alert to follow an author, how to provide feedback on author details, and also create an author group.

Tutorial text only

▶ Using Scopus article metrics

This tutorial demonstrates how Article Metrics are used in Scopus, how they are used to evaluate citation impact and levels of community engagement, plus an introduction to PlumX Metrics.

Tutorial text only

> View all tutorials

Help



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[Help ↗](#)
[Tutorials ↗](#)
[Contact us ↗](#)

Document search

☒ Documents ☐ Authors ☐ Affiliations [Advanced](#)

Search

Article title, Abstract, Keywords



E.g., "Cognitive architectures" AND robots

Request changes:

I want to request changes to an author/affiliation profile or Scopus content

[View more](#)

Top 5 FAQs

1. How do I use the Author Feedback Wizard?
2. How do I correct my author profile?
3. How do I request to add a missing document?
4. How can I add missing citations?
5. How do I create or correct an affiliation profile?

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Contact us

[✉ Email](#)

Practice

1. Search by Affiliation

2. Have an overview of scholarly outputs of USTC

3. Filter to one subject and analyze search results

4. Identify the top journal with the largest scholarly output from USTC

Scopus

Search Sources Lists SciVal Library catalogue

Start exploring

Discover the most reliable, relevant, up-to-date research. All in one place.

Documents Authors Affiliations

Search tips

Search affiliations *
University of Science and Technology of China

Huazhong University of Science and Technology

University of Science and Technology of China

No.96, JinZhai Road Baohe District, Hefei
Anhui, China
Affiliation ID: 60019118

Other name formats: University Of Science And Technology Of China Univ. Of Sci. And Technol. Of China Univ. Of Sci./technology Of China Ustc
University Of Science And Technology Of China (ustc) State Key Laboratory Of Particle Detection And Electronics
Univ Of Science And Technology Of

Affiliation profile actions

- Give feedback
- Set feed
- Set document alert
- Export subject area data

Documents, whole institution 111,038

Documents, affiliation only 110,750

Authors 37,860 Save to author list

Documents by subject area Affiliation hierarchy Collaborating affiliations Documents by source

Sort by: Document count (high-low)

Physics and Astronomy	41509	Social Sciences	1487
Engineering	30690	Agricultural and Biological Sciences	1390
Materials Science	26985	Pharmacology, Toxicology and Pharmaceutics	1151
Chemistry	25222	Business, Management and Accounting	1150
Computer Science	18358	Neuroscience	982
Mathematics	11848	Immunology and Microbiology	923

University of Science and Technology of China

20.1 %
14.8 %
8.9 %
5.7 %
4.7 %
3.8 %
3.8 %
3.4 %
9.5 %

Content

- SciVal -Brief introduction
- SciVal Metrics(Partial)
- Research Performance overview
- Tracking and benchmarking research performance
- Analyzing research trends by Topics

What is SciVal?

SciVal enables you to navigate the world of research and devise an optimal plan to drive and analyze your performance.

- Scopus data from 1996 to current date
- Access to research performance of over 17,000 research institutions and 230 nations worldwide
- Top of Prominence - ~96000 topics for a complete portfolio analysis
- Broad spectrum of metrics covering publication, funding, patent, media, etc.

SciVal



Overview



Benchmarking



Collaboration



Trends

Overview

- Access comprehensive research performance summaries of any desired research entities.
- Identify their unique research strengths and multidisciplinary research areas.



Benchmarking

- Compare the performance of institutions, countries, and pre-defined groups, or create your own research areas and monitor progress over time.

Collaboration

- Identify and analyze existing and potential collaboration opportunities based on publication output and citation impact.



Trends

- Analyze the research trends of any Research Area, Topic or Topic Cluster. Use this to discover key researchers, rising stars and current developments in fields of interest.

Topic selection & thesis proposal

More results with initial search and then narrow down

Scopus

[Search](#)[Sources](#)[Alerts](#)[Lists](#)[Help](#)

SciVal

Tingting Du

Document search

[Compare sources](#)

DocumentsAuthorsAffiliationsAdvanced

Search

"Heart Failure"

E.g., "Cognitive architectures" AND robots

×

Article title, Abstract, Keywords

▼


+

[Limit](#)

Reset form

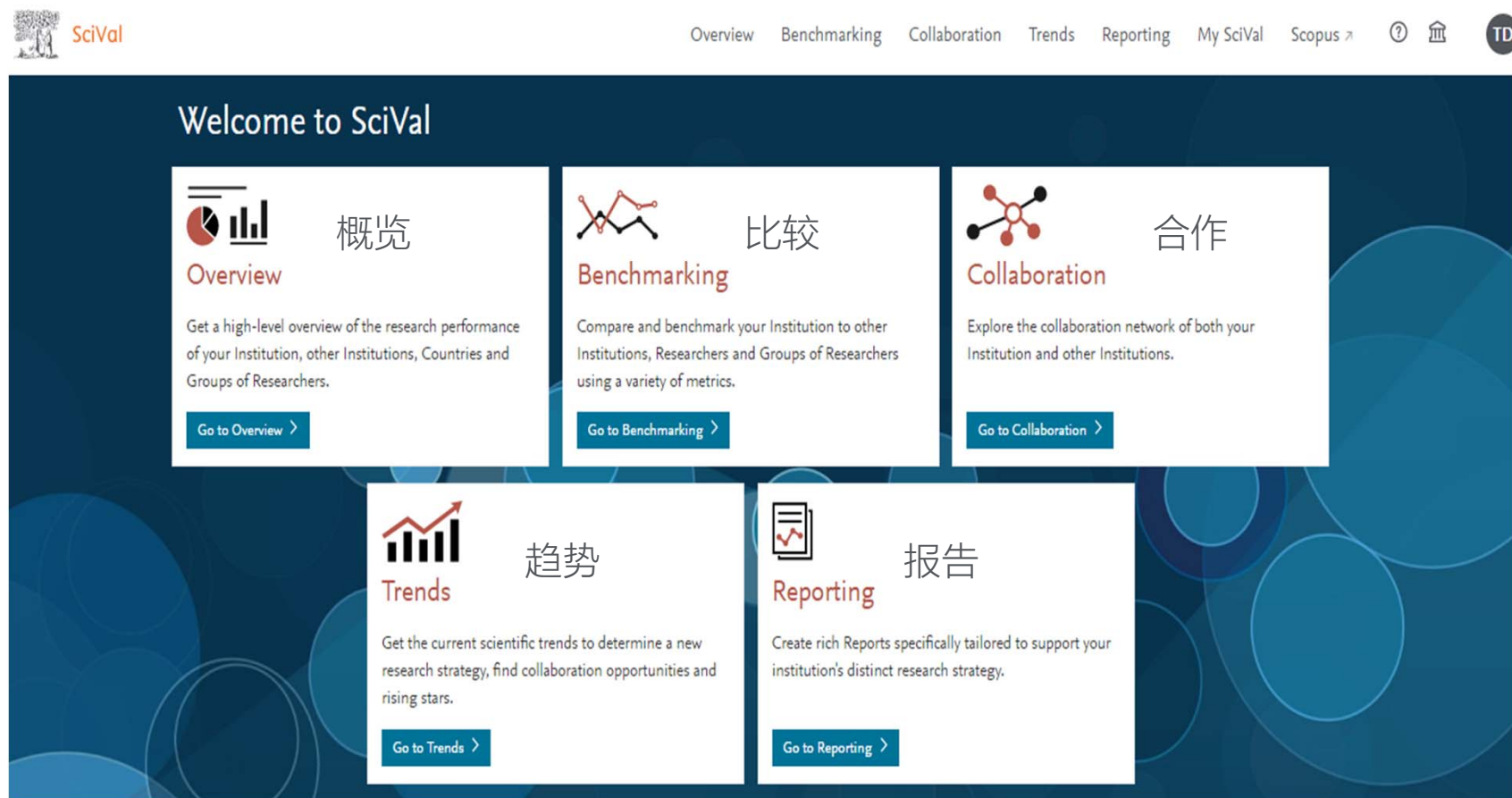
Search

Brought to you by
The Scopus Team

 Help improve Scopus

SciVal home page

Click any module to enter the user interface

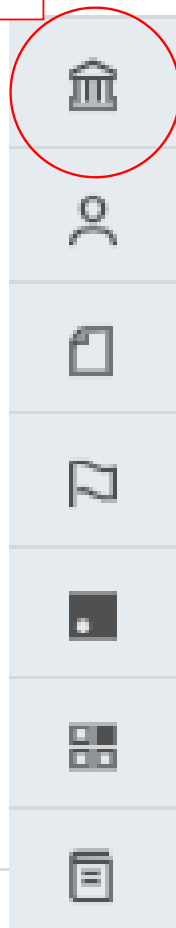


The screenshot shows the SciVal home page. At the top left is the SciVal logo. To its right is a navigation bar with links: Overview, Benchmarking, Collaboration, Trends, Reporting, My SciVal, and Scopus. Further right are icons for help, a building, and a user profile labeled 'TD'. The main content area has a dark blue header with the text 'Welcome to SciVal'. Below this are five white cards arranged in two rows. Each card features an icon, a title in English and Chinese, a brief description, and a 'Go to' button.

Module	Icon	Chinese Title	English Title	Description	Action
Overview	Bar chart and pie chart	概览	Overview	Get a high-level overview of the research performance of your Institution, other Institutions, Countries and Groups of Researchers.	Go to Overview >
Benchmarking	Line graph with multiple series	比较	Benchmarking	Compare and benchmark your Institution to other Institutions, Researchers and Groups of Researchers using a variety of metrics.	Go to Benchmarking >
Collaboration	Network diagram	合作	Collaboration	Explore the collaboration network of both your Institution and other Institutions.	Go to Collaboration >
Trends	Bar chart with an upward arrow	趋势	Trends	Get the current scientific trends to determine a new research strategy, find collaboration opportunities and rising stars.	Go to Trends >
Reporting	Document icon with a line graph	报告	Reporting	Create rich Reports specifically tailored to support your institution's distinct research strategy.	Go to Reporting >

SciVal user interface

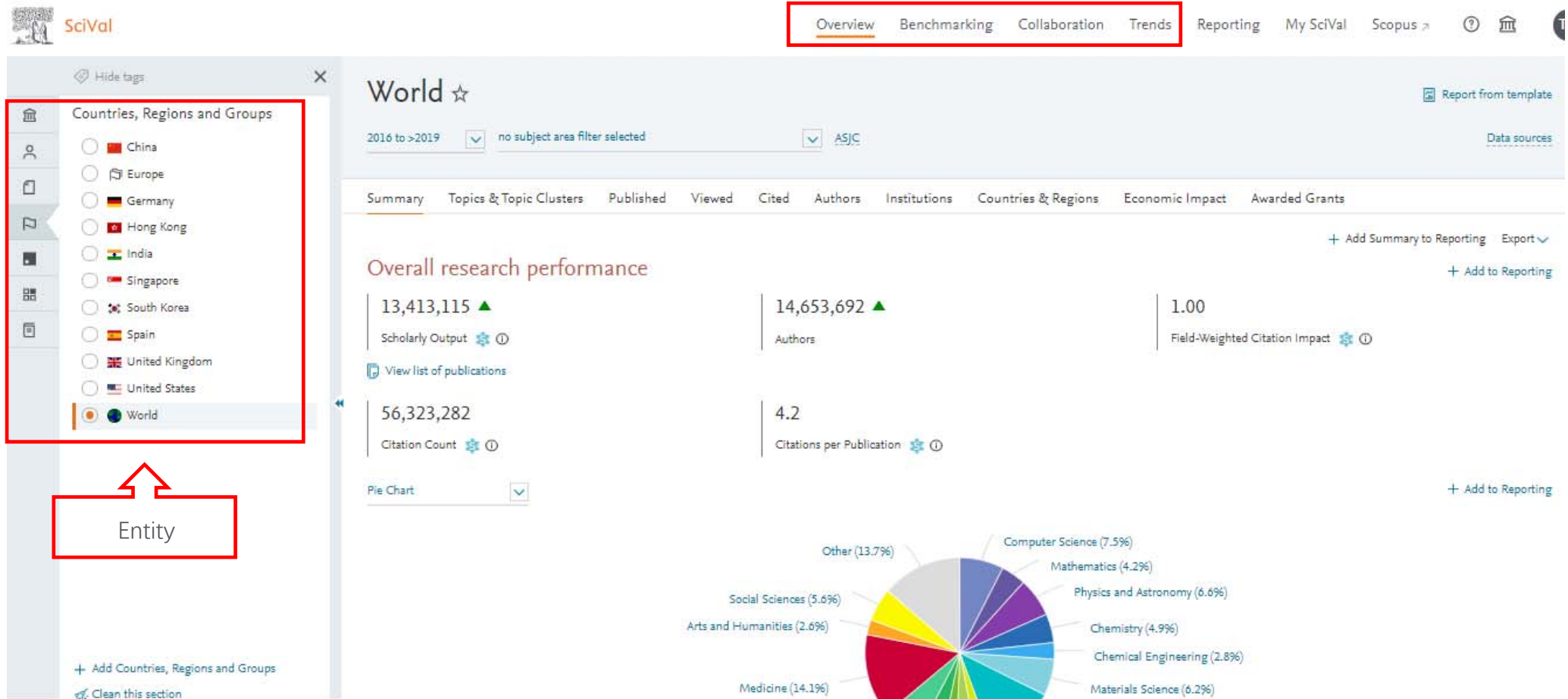
Entity for analysis



- Institutions & group:** university, research institute, corporate, university league, province(city)
- Researcher & group:** individual researcher, research team, institutional hierarchy
- Publication sets**
- Country, region & group**
- Topic & topic cluster**
- Research area**
- Scopus source**

SciVal user interface

Module

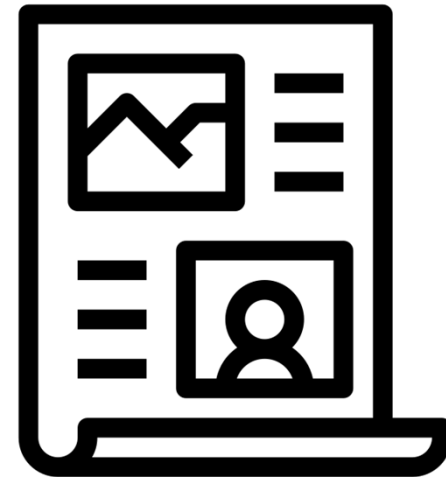




SciVal Metrics(Partial)

SciVal metrics (Partial)

- Field-Weighted Citation Impact, FWCI
- Outputs in Top Citation Percentiles
- Publications in Top Journal Percentiles
- Economic Impact
- Topic / Topic Clusters

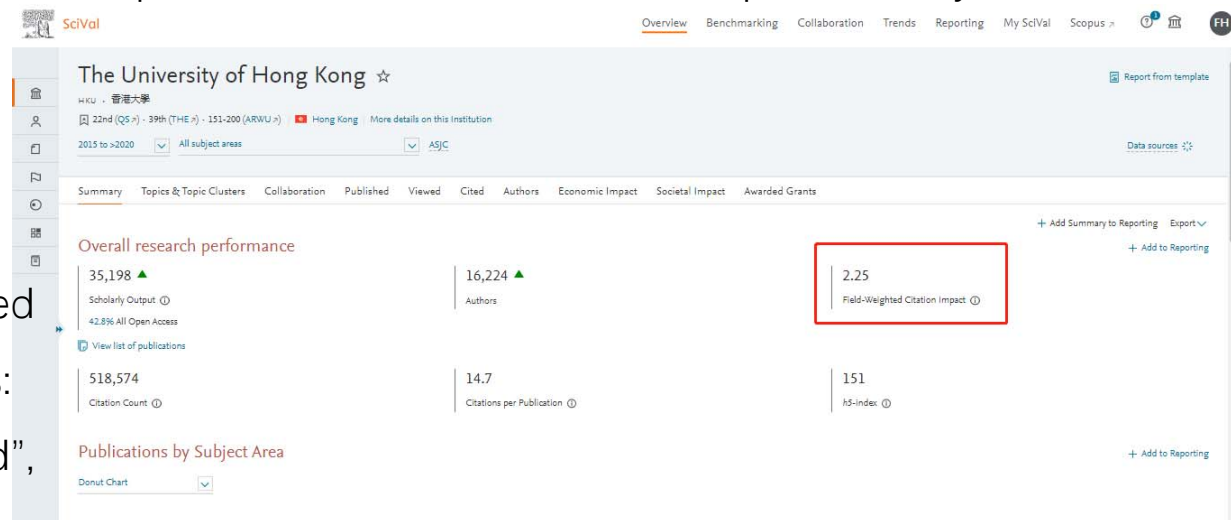


Field-Weighted Citation Impact, FWCI

Field-Weighted Citation Impact in SciVal indicates how the number of citations received by an entity's publications compares with the average number of citations received by all other similar publications in the data universe: how do the citations received by this entity's publications compare with the world average?

Similar publications are those publications in the Scopus database that have the same publication year, publication type, and discipline.

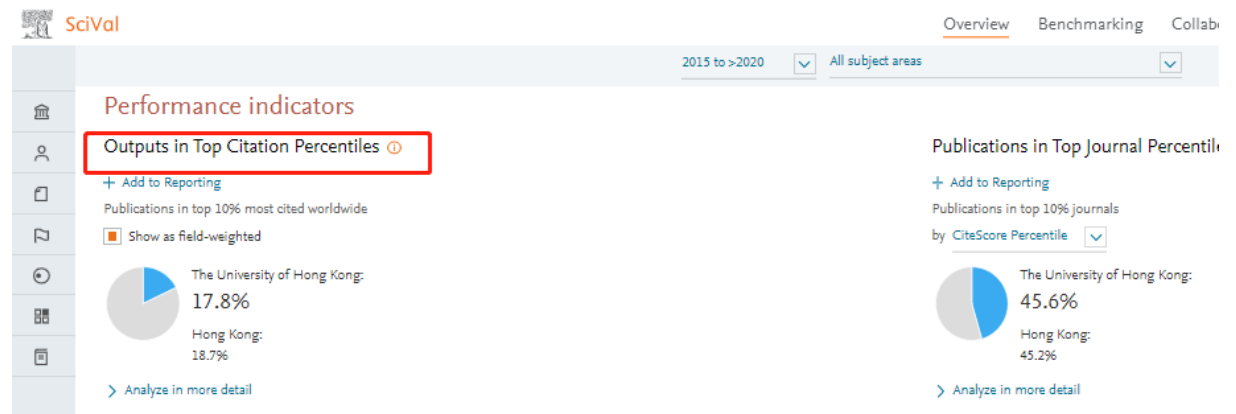
A Field-Weighted Citation Impact of 1.00 indicates that the entity's publications have been cited exactly as would be expected based on the global average for similar publications: the Field-Weighted Citation Impact of “World”, or the entire Scopus database, is 1.00.



Outputs in Top Citation Percentiles

Outputs in Top Citation Percentiles in SciVal indicates the extent to which an entity's publications are present in the **most-cited percentiles** of a data universe: how many publications are in the top 1%, 5%, 10% or 25% of the **most-cited publications**?

The citation counts that represent the thresholds of the 1%, 5%, 10% and 25% most-cited papers in Scopus per Publication Year are calculated. SciVal uses these citation thresholds to calculate the number of an entity's publications that fall within each percentile range.



Publications in Top Journal Percentiles

Publications in Top Journal Percentiles in SciVal indicates the extent to which an entity's publications are present in the **most-cited journals** in the data universe: how many publications are in the top 1%, 5%, 10% or 25% of the **most-cited journals** indexed by Scopus?

The CiteScore, SNIP or SJR values at the thresholds of the top 1%, 5%, 10% and 25% most-cited journals in Scopus per Publication Year are calculated. SciVal uses these journal metric thresholds to calculate the number of an entity's publications within indexed items that fall within each percentile range.



Economic Impact

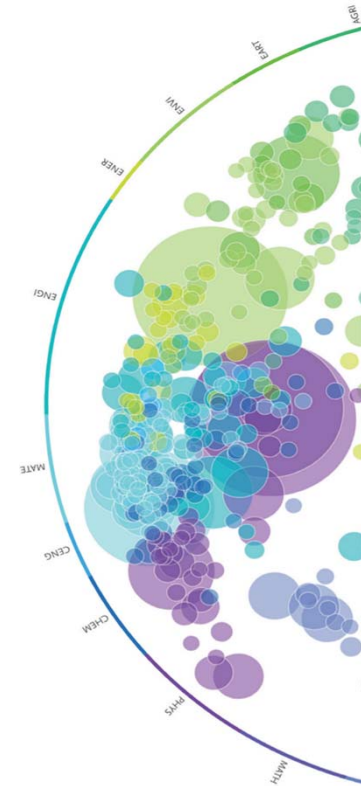
Citations from patents to scholarly outputs indicate a link between academia and industry, in other words knowledge flows. It is a strong indicator of the relevance that research could have to industry.

The indicators commonly used in SciVal to measure economic impact are:

- Patent-Cited Scholarly Output: The count of scholarly output published by an entity (e.g. a university) that have been cited in patents.
- Citing-Patents Count: The count of patents citing the scholarly output published by an entity (e.g. a university).

Topic / Topic Clusters

- Cover the contents of Scopus since 1996. ~96,000 research topics are generated based on direct citation links between documents.
- Prominence as a new indicator that shows the current momentum/visibility of a topic by looking at very recent citations, views and CiteScore values.
- Topic Cluster is an intermediate level that aggregates from Topics.



Topic / Topic Clusters

- A topic is a collection of documents with a common intellectual interest - a “research problem”
- Topics can be large or small, new or old, growing or declining
- Topics are dynamic and can evolve

Topic / Topic Clusters

Calculating a Topic's Prominence combines three metrics which indicate the momentum of the Topic.


- Citation Count in year n to papers published in n and $n-1$
- Scopus View Count in year n to papers published in n and $n-1$
- Average Journal CiteScore for year n



Research Performance overview

To start– register & log in before use within University IP ranges

Share account with other Elsevier products, e.g. Scopus & SD



Scopus [Scopus](#)


Create account **Sign in**

↓


Welcome to SciVal

SciVal offers quick, easy access to research performance of more than 18,500 research institutions and their associated researchers from 231 nations worldwide.


Don't have access? [Request a consultation](#)



Find
Find collaborators to spur innovative solutions to complex problems.

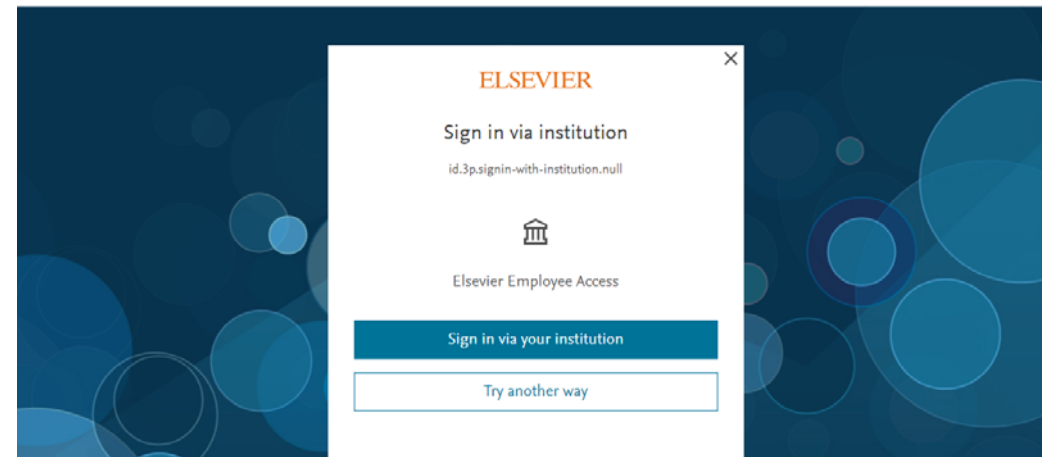


Demonstrate
Demonstrate my impact for promotion and funding applications.



Discover
Discover relevant cross-disciplinary areas of research.


SciVal



ELSEVIER

Sign in via institution

id.3p.signin-with-institution.null



Elsevier Employee Access

Sign in via your institution

Try another way

Research Performance Overview

Understand overall research performance

The screenshot displays the SciVal Research Performance Overview for The University of Hong Kong. The interface includes a sidebar with a list of institutions, a main panel with filters for time range and subject areas, and a right panel for selecting a subject classification system.

Time range and discipline can be selected as needed

Entity for analysis

Choose different discipline system

Select Subject Classification

This will be used to categorize Scopus Sources (and the publications in those Scopus Sources) into scientific disciplines.

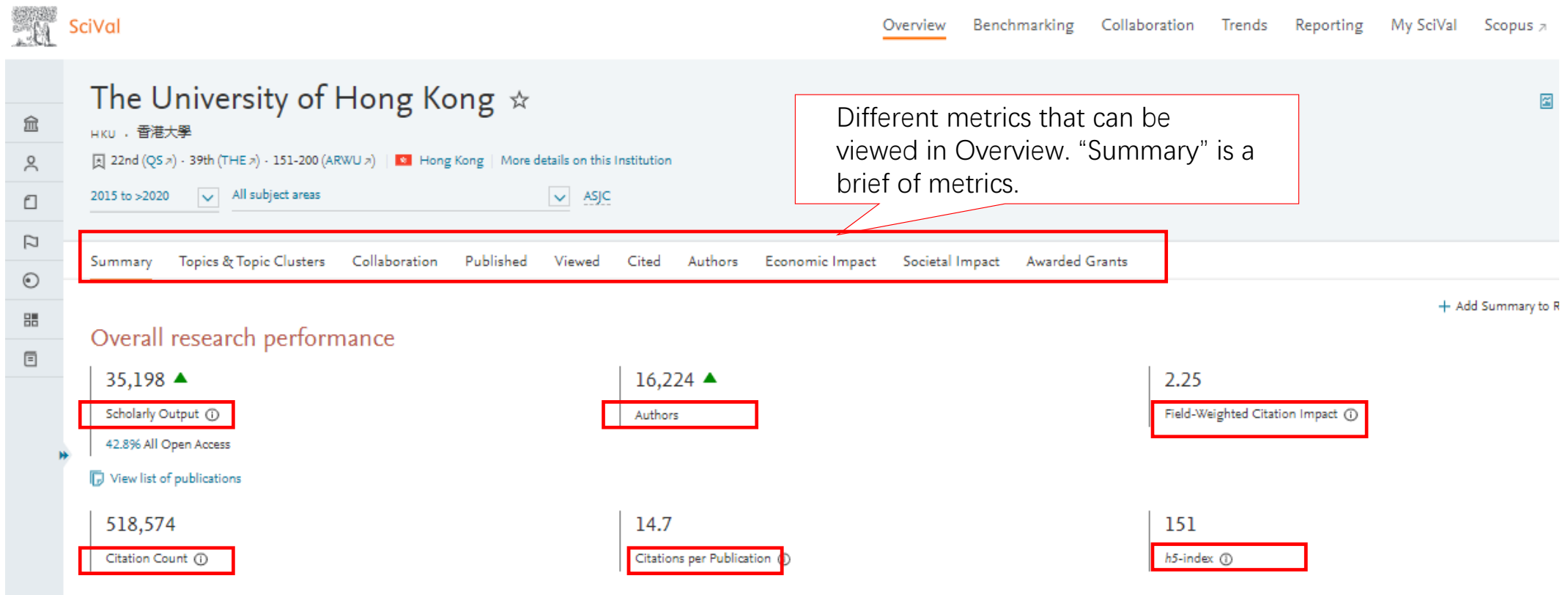
Change subject classifications in Settings

- ☒ ASJC – All Science Journal Classification
Used in Scopus. This is the default scheme in SciVal.
[View more details](#)
- ☐ FOS – Field of Science and Technology (FOS) Classification
Used in the Frascati Manual of the Organisation for Economic Co-operation and Development (OECD).
[View more details](#)

Note: if in a certain module the entity is gray, it cannot be analyzed in that module

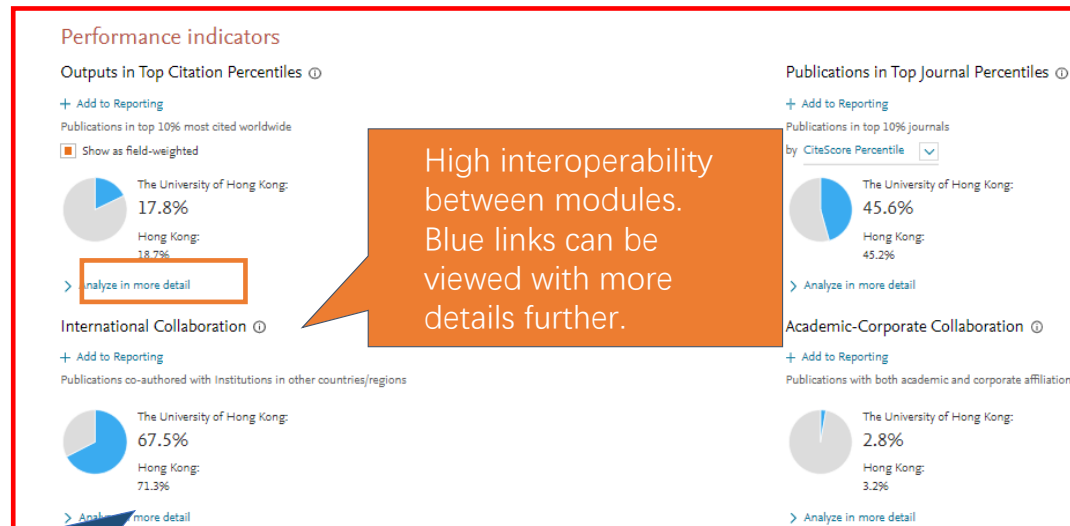
Research Performance Overview

Understand overall research performance

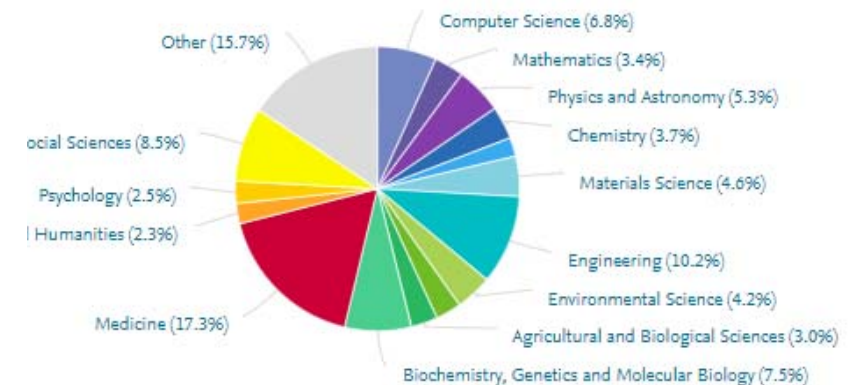


Research Performance Overview

Understand overall research performance – metrics in “Summary” (partial)



Disciplinary classification of scholar output



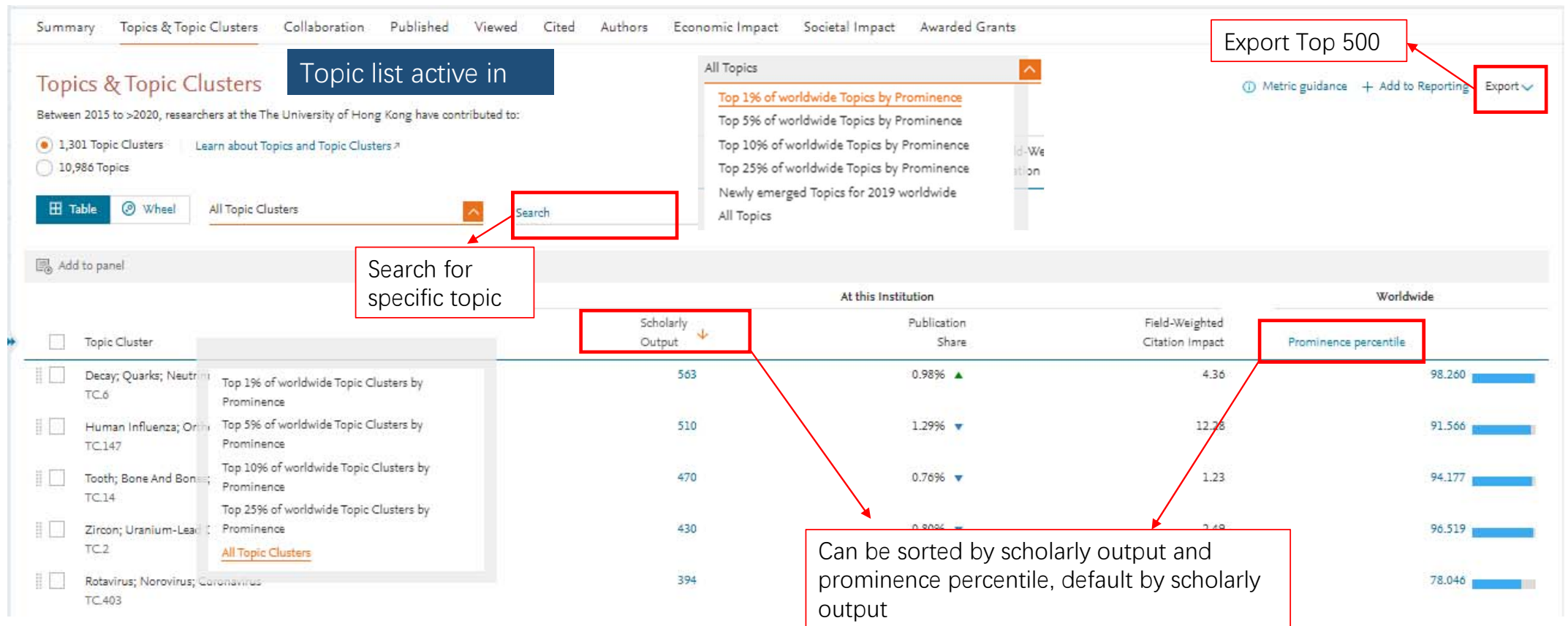
- Outputs in Top Citation Percentiles
- Publications in Top Journal Percentiles
- International Collaboration
- Academic-Corporate Collaboration

Topic	At this Institution			Worldwide	
	Scholarly Output	Publication Share	Field-Weighted Citation Impact	Prominence percentile	
Immunotherapy; Neoplasms; Checkpoint inhibitor ... T.403 Analyze at Institution Analyze worldwide	511	4.84% ▼	6.91	99.995	
Planet; Planets; Planet candidates ... T.131	331	15.31% ▼	2.02	99.781	
Brain; Magnetic Resonance Imaging; Network DMN ... T.219	301	5.85% ▼	1.92	99.951	
Collisions; Jets; Proton-proton collisions ... T.1026	295	14.16% ▲	4.29	99.939	
Analgesics; Opioid; Prescriptions; Long-term opioid ... T.248			3.71	99.878	

Top5 Topics & Topic Clusters (according to number of scholarly output)

Research Performance Overview

Understand overall research performance – metrics: Topics & Topic Clusters



Research Performance Overview

Understand overall research performance – metrics: Topics & Topic Clusters

Topic list active in

The screenshot displays the SciVal interface for The University of Hong Kong. The top navigation bar includes 'Overview', 'Benchmarking', 'Collaboration', and 'Trends'. The main header shows the institution's name, 'The University of Hong Kong', along with its ranking (22nd QS, 39th THE, 151-200 ARWU) and location (Hong Kong). Below this, filters for '2015 to >2020' and 'All subject areas' are visible, along with the 'ASJC' classification. The 'Topics & Topic Clusters' tab is selected, showing a summary of contributions between 2015 and 2020. Two radio buttons allow filtering by '1,301 Topic Clusters' or '10,986 Topics'. A red box highlights the filter 'only show the 1,549 Key Topics for this Institution', with an arrow pointing to a text box explaining its function. Below the filter, there are options to view the data as a 'Table' or 'Wheel', and a search bar. At the bottom, there are checkboxes for 'Only show top 100 by Scholarly Output' and 'Bubble size: Scholarly Output of this Institution', along with a note about bubble position based on dominant ASJC categories.

SciVal

Overview Benchmarking Collaboration Trends

The University of Hong Kong ☆

HKU · 香港大學

22nd (QS) · 39th (THE) · 151-200 (ARWU) · Hong Kong · [More details on this Institution](#)

2015 to >2020 All subject areas ASJC

Summary Topics & Topic Clusters Collaboration Published Viewed Cited Authors Economic Impact Societal Impact Awarded Grants

Topics & Topic Clusters

Between 2015 to >2020, researchers at the The University of Hong Kong have contributed to:

☐ 1,301 Topic Clusters [Learn about Topics and Topic Clusters](#)

☒ 10,986 Topics

☐ only show the 1,549 Key Topics for this Institution

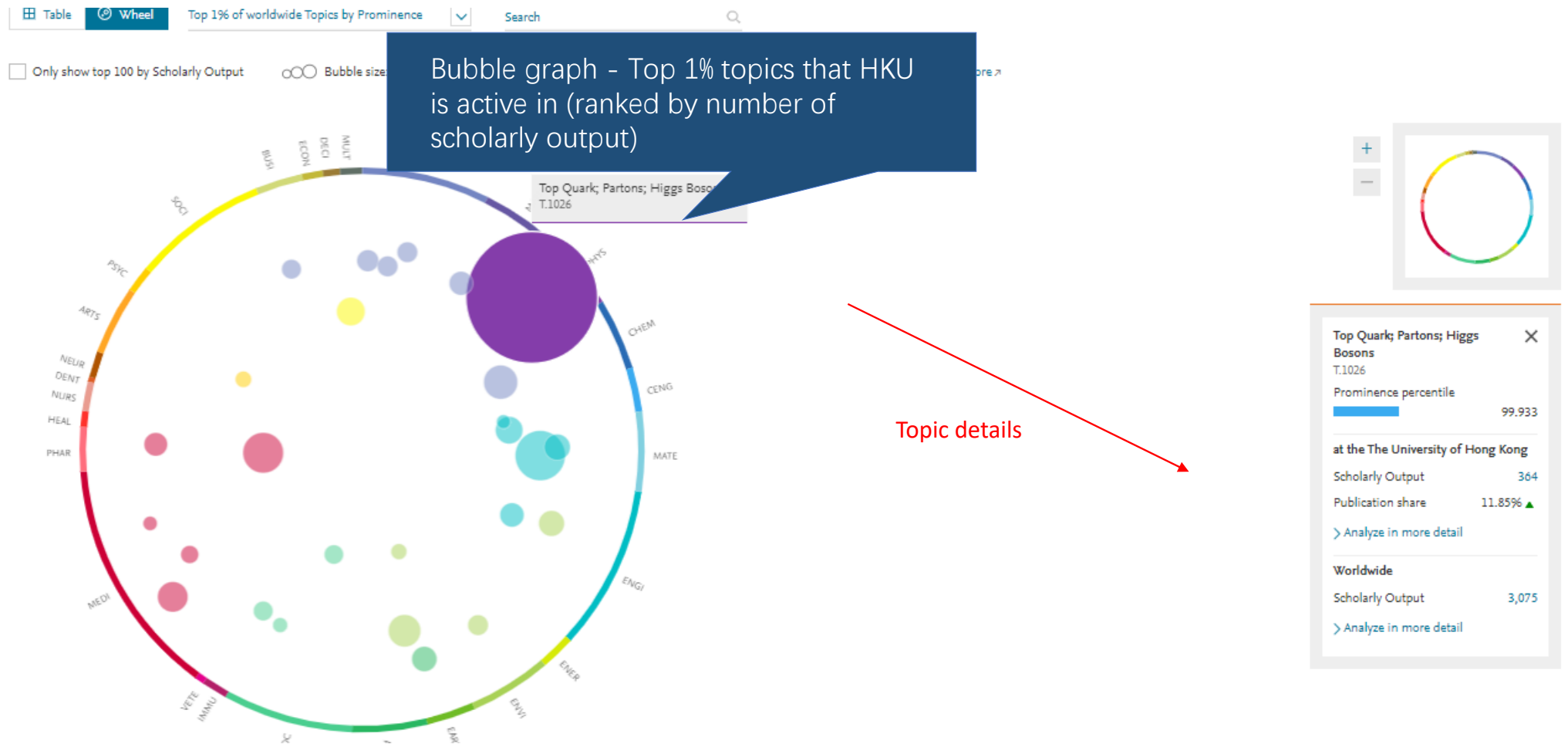
Filter to check topics which institution is active in as a key contributor

Table Wheel All Topics Search

☐ Only show top 100 by Scholarly Output ☐ Bubble size: Scholarly Output of this Institution ☐ Bubble position is based on dominant ASJC categories. [Learn more](#)

Research Performance Overview

Understand overall research performance – metrics: Topics & Topic Clusters



✓ Practice

1. Overview for USTC

timerange:2015-2020

ASJC Subject: Engineering

2. Who are the top performing researchers and rising stars active in this subject?

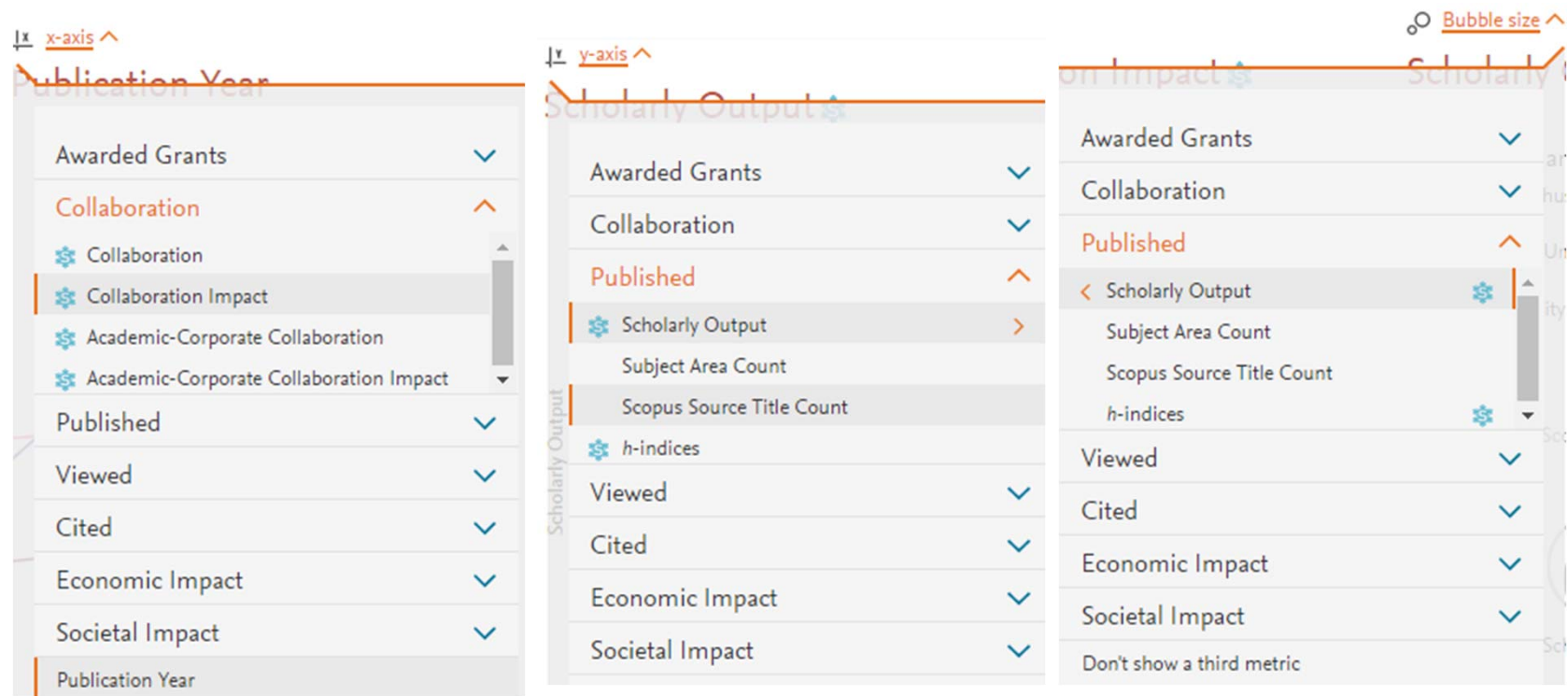
3. Which forward-momentum Topics are our peers and competitors currently active in?





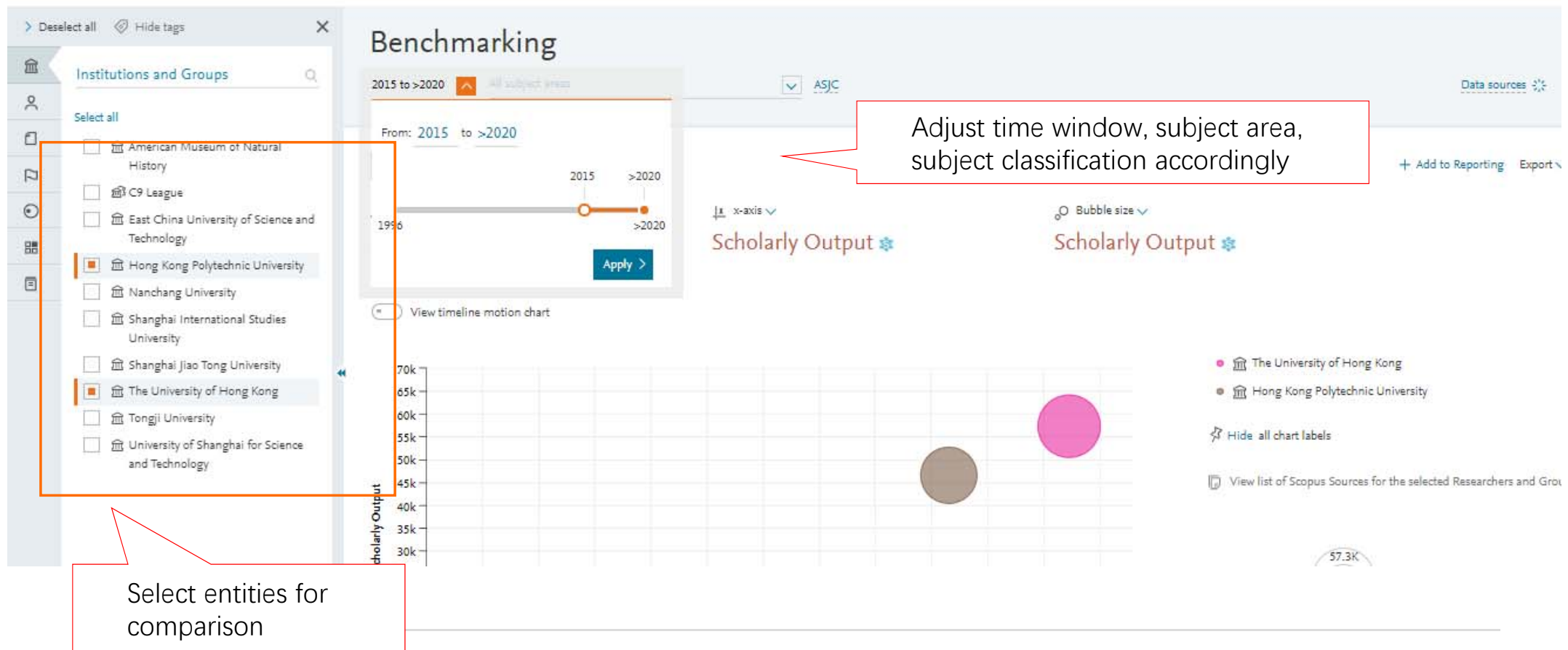
Tracking and benchmarking research performance

Benchmarking to know the stand



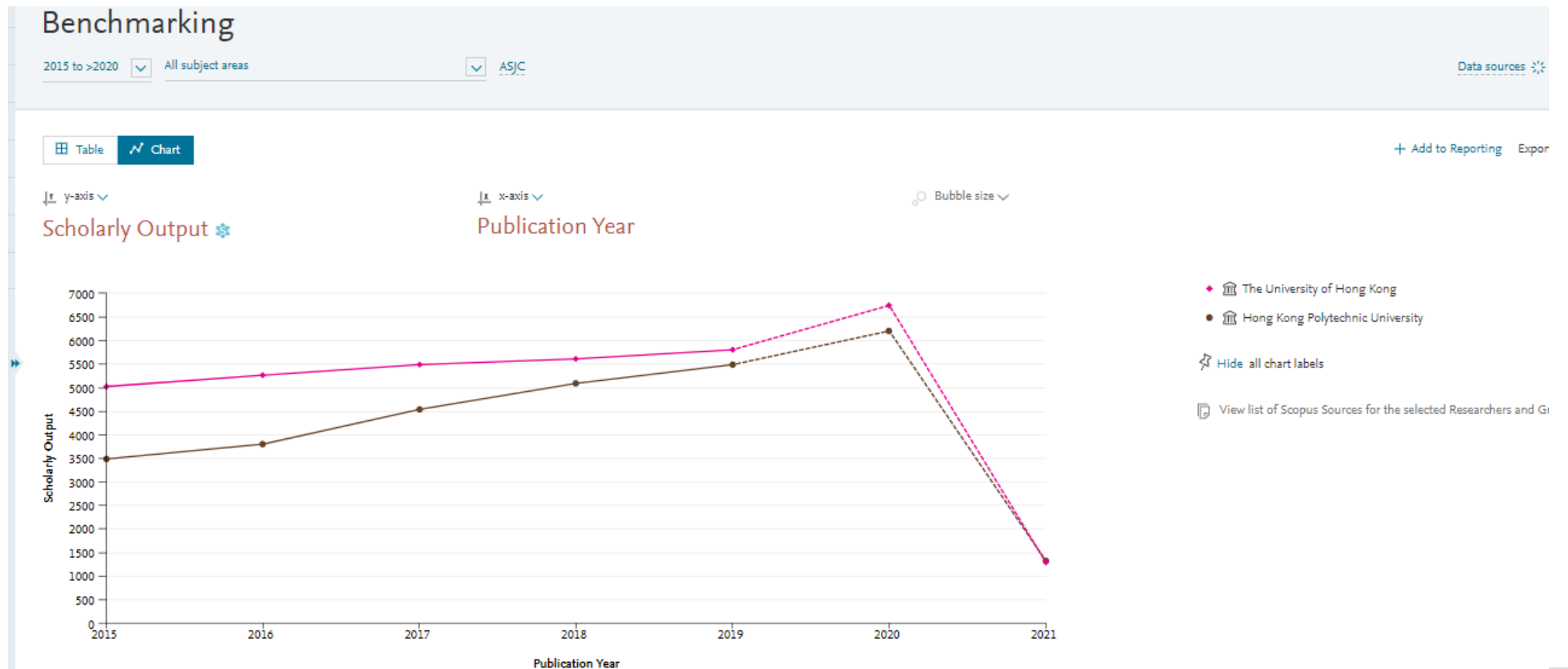
30+ metrics for reference

Benchmarking to know the stand



Benchmarking to know the stand

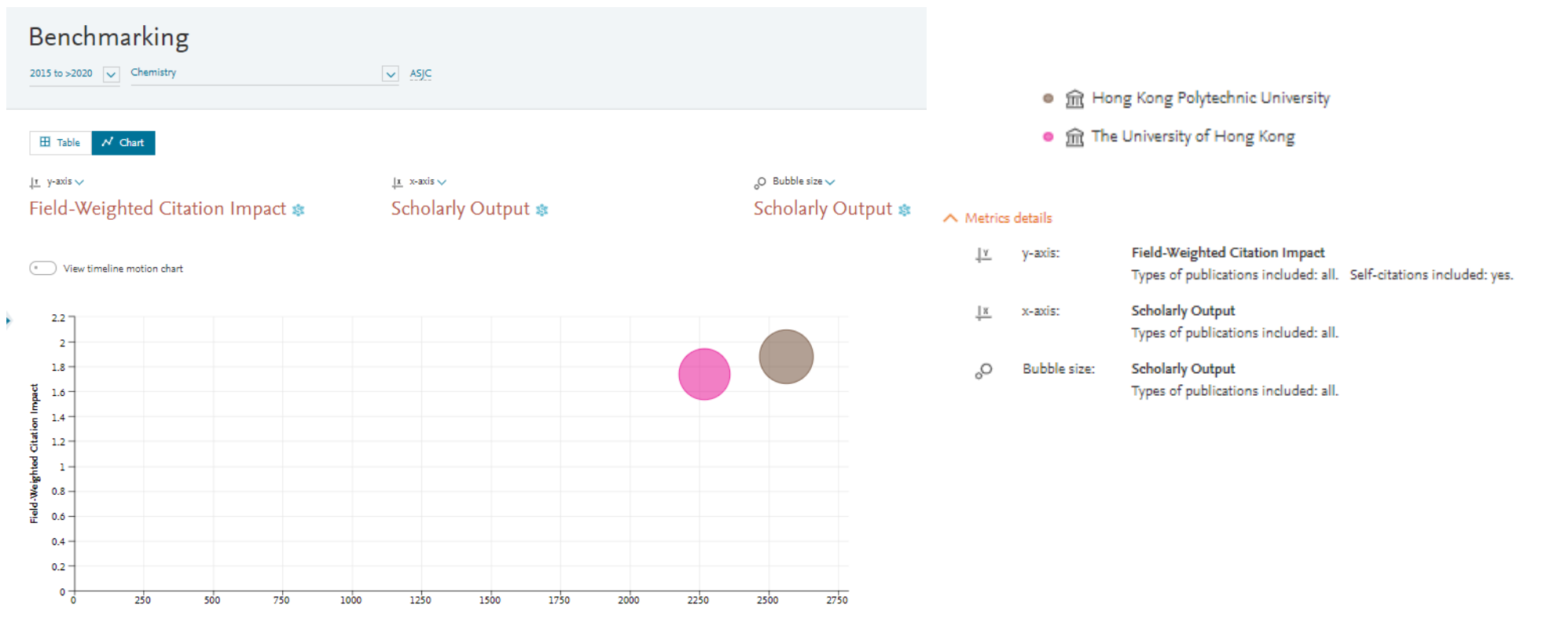
Know the stand as well as the trend



20.04.2021

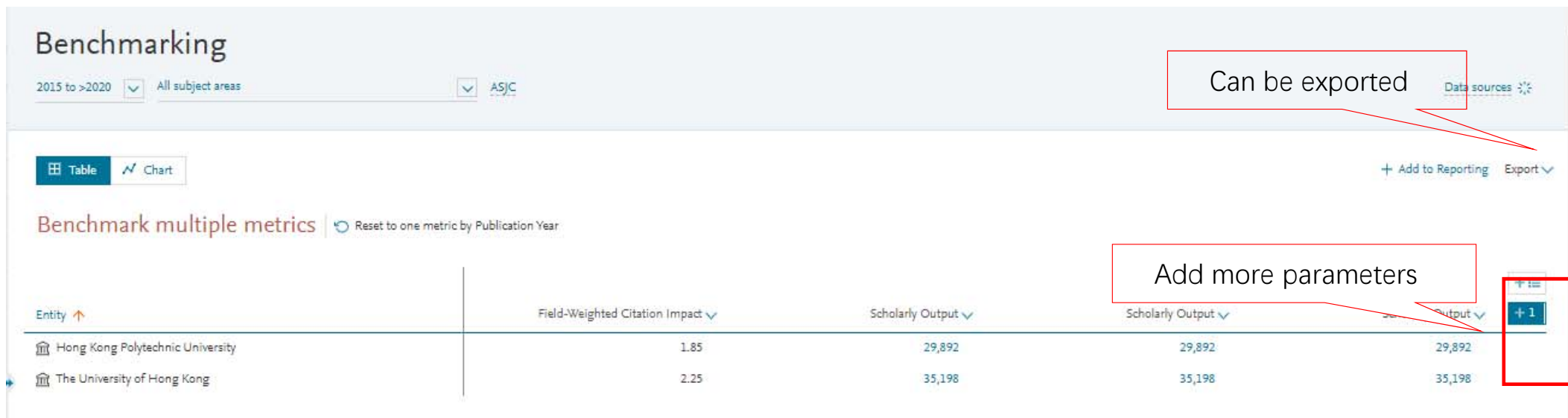
Benchmarking to know the stand

Research performance comparison within appointed time range



20.04.2021

Benchmarking to know the stand

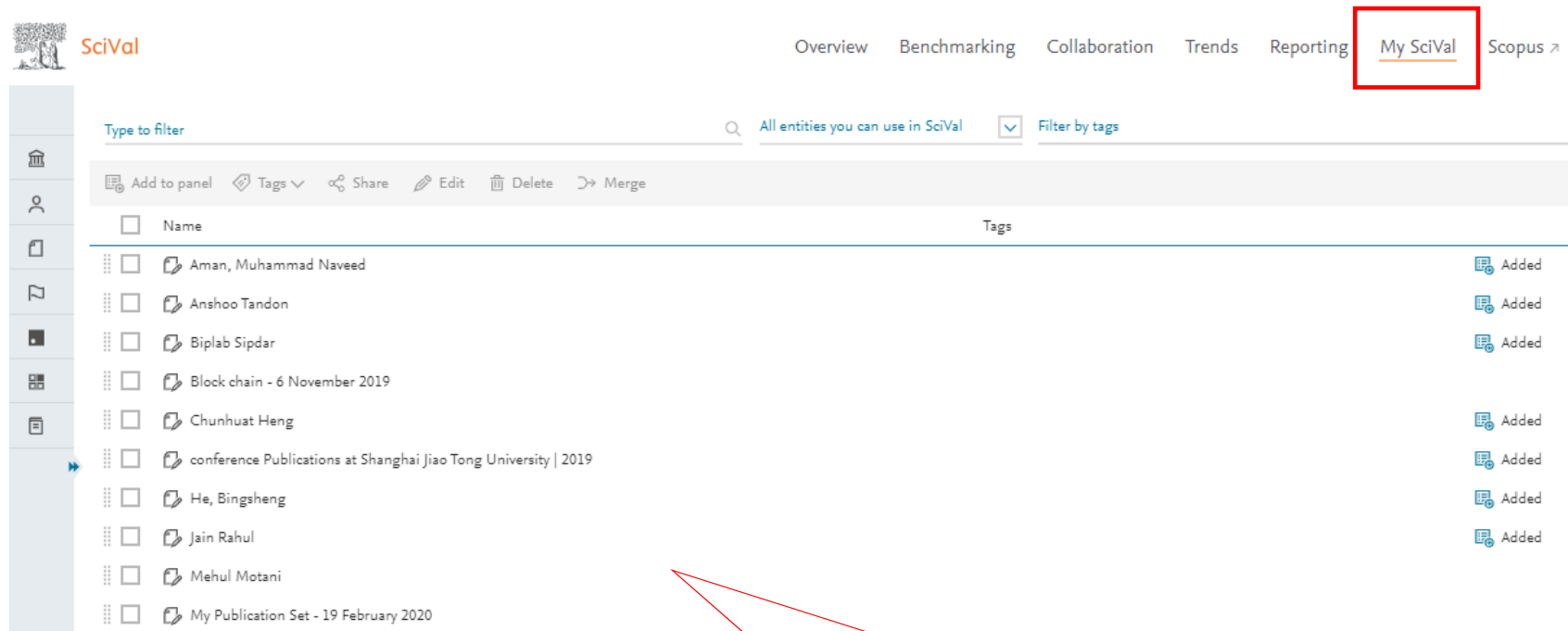


Create your own entities

- The analysis is based on the entity created in SciVal analysis.
- Creating entities can have the following two ways:
 - ✓ Import pre-defined entities
 - ✓ Define your own entities: When the pre-defined entities in SciVal cannot meet the needs of analysis, you can create entities by yourself. This function makes the analysis more flexible and with a wider scope.

How to create entities in SciVal – My SciVal

Entities created can be viewed and edited in My SciVal



The screenshot displays the SciVal 'My SciVal' interface. At the top, the SciVal logo is on the left, and navigation tabs for Overview, Benchmarking, Collaboration, Trends, Reporting, My SciVal (highlighted with a red box), and Scopus are on the right. Below the navigation bar, there is a search bar with the placeholder 'Type to filter' and a dropdown menu set to 'All entities you can use in SciVal'. A toolbar contains icons for 'Add to panel', 'Tags', 'Share', 'Edit', 'Delete', and 'Merge'. The main content area is a table with columns for 'Name' and 'Tags'. The table lists ten entities, each with a checkbox, a document icon, and a name. To the right of each entity name is an 'Added' status with a document icon. The entities are categorized by type, as indicated by the red box and arrow pointing to the table.

Name	Tags
<input type="checkbox"/> Aman, Muhammad Naveed	Added
<input type="checkbox"/> Anshoo Tandon	Added
<input type="checkbox"/> Biplab Sipdar	Added
<input type="checkbox"/> Block chain - 6 November 2019	
<input type="checkbox"/> Chunhuat Heng	Added
<input type="checkbox"/> conference Publications at Shanghai Jiao Tong University 2019	Added
<input type="checkbox"/> He, Bingsheng	Added
<input type="checkbox"/> Jain Rahul	Added
<input type="checkbox"/> Mehul Motani	
<input type="checkbox"/> My Publication Set - 19 February 2020	

Categorized by entity type



Analyzing research trends by Topics

Going beyond evaluation and benchmarking-Trends Module

...Help Researchers

Identify topics with high momentum and most likely high funding success rates.

Showcase that they are active in topics with high momentum.

Find the best potential co-authors in those topics.

Identify emerging & related topics with high momentum they should be aware of.



...Help Research managers

- Identify pockets of well funded research topics in research portfolio.
- Find the **top performers** and **rising stars** in those areas for recruitment, tenure and collaboration.
- **Showcase** that their institution is active in topics with high momentum
- **Identify which topics other universities** are active in that have high momentum.



Solution

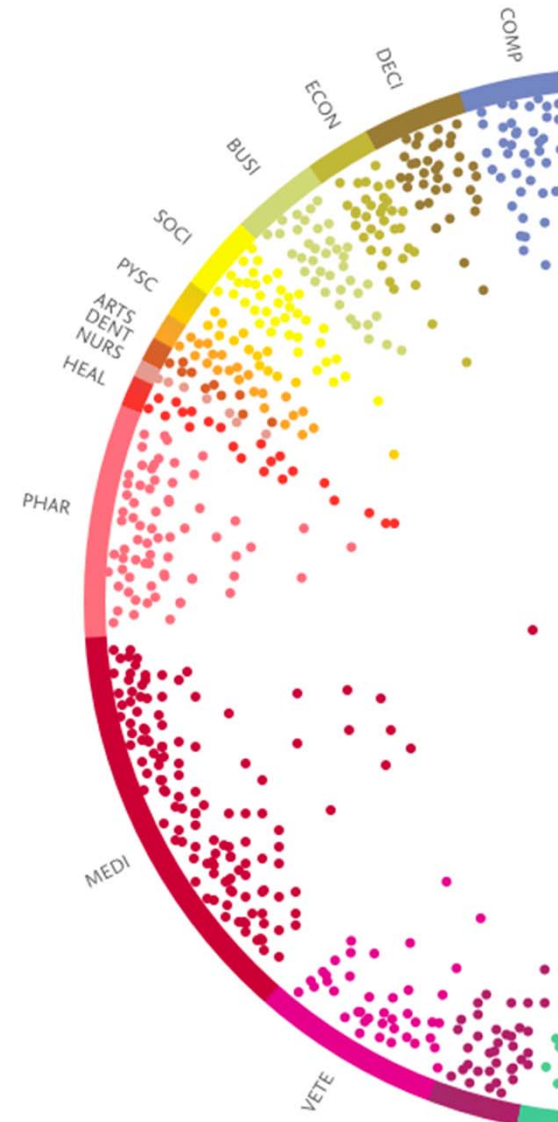
- We have identified ~97.000 global research topics by clustering all of Scopus and ranked them by Prominence.
- Prominence is a new indicator that shows the current momentum of a topic by looking at **very recent** citations, views and CiteScore values.
- **Prominence = momentum (not the same as importance!).**
- Prominence predicts funding – helps researchers and research managers identify topics in which funding will increase.
- Going way beyond what the competition can do...

Prominence combines 3 metrics to indicate the momentum of the topic

Citation Count in year

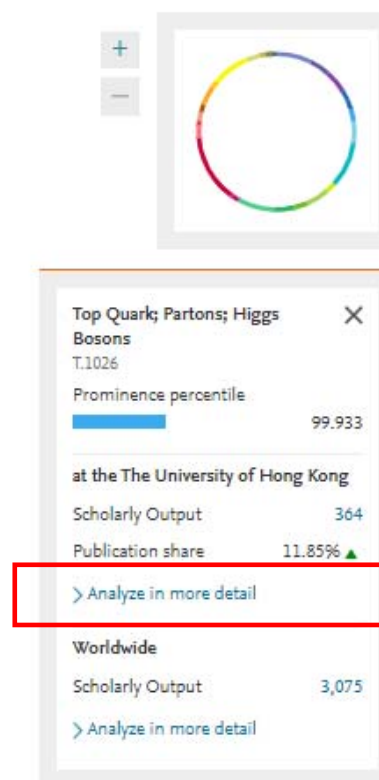
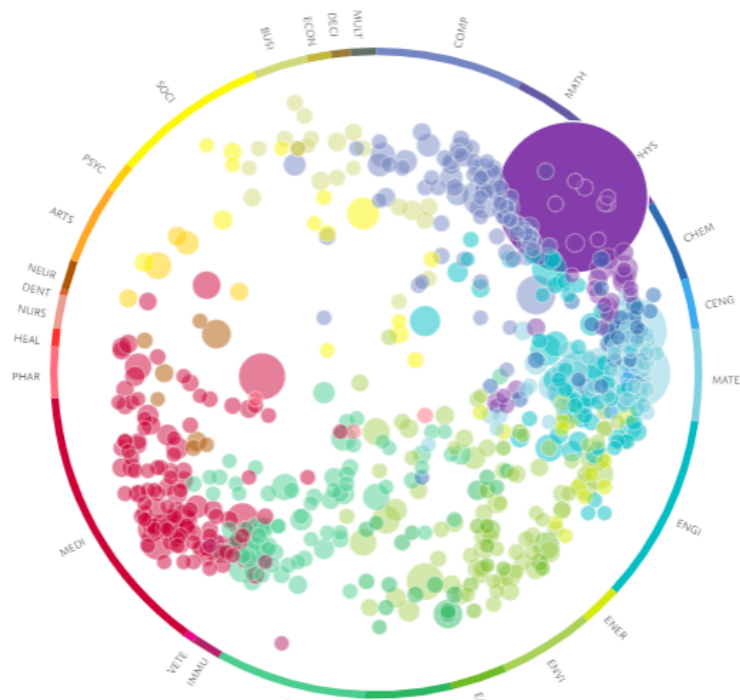
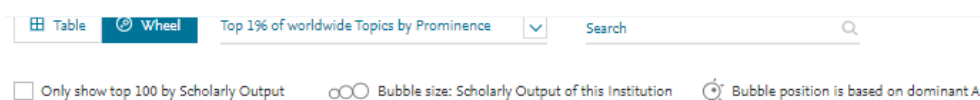
Scopus **Views Count**

Average **CiteScore**



Analyzing research trends by Topics

Identify 1% of worldwide Topics by Prominence



Check within HKU

Analyzing research trends by Topics

Analyze more detail in HKU

Activity of the The University of Hong Kong

Within: Top Quark; Partons; Higgs Bosons T.1026 | Year range used for metrics: 2015 to 2021 [Analyze Topic worldwide](#)


Summary Authors

Performance

+ Add Summary to Reporting

+ Add to Reporting

364

Scholarly Output  ⓘ




 [View list of publications](#)

4.15

Field-Weighted Citation Impact  ⓘ



363

International Collaboration  ⓘ



70,584

Views Count ⓘ

11,431

Citation Count  ⓘ

99.933



Worldwide Topic Prominence

Analyzing research trends by Topics

Analyze more detail in HKU-Identify top 10 authors in this Topic by Scholarly Output

Activity of the The University of Hong Kong

Within: Top Quark; Partons; Higgs Bosons T.1026 | Year range used for metrics: 2015 to 2021 | Analyze Topic worldwide

Summary **Authors**

Most active Authors

Metric guidance + Add to Reporting

Top 10 Authors at the The University of Hong Kong in this Topic, by Scholarly Output

Add to panel

<input type="checkbox"/> Author	Scholarly Output
1. <input type="checkbox"/> Tu, Y.	279
2. <input type="checkbox"/> Salvucci, Antonio	267
3. <input type="checkbox"/> Lo, C. Y.	249
4. <input type="checkbox"/> Orlando, Nicola	237
5. <input type="checkbox"/> Bortolotto, Valerio	177
6. <input type="checkbox"/> Paredes Hernandez, Daniela K.	139
7. <input type="checkbox"/> Hernandez, D. Paredes	23
8. <input type="checkbox"/> Tam, K. C.	21
9. <input type="checkbox"/> Lo, C. Y.	3
10. <input type="checkbox"/> Tu, Y.	3

Click the number to have output details

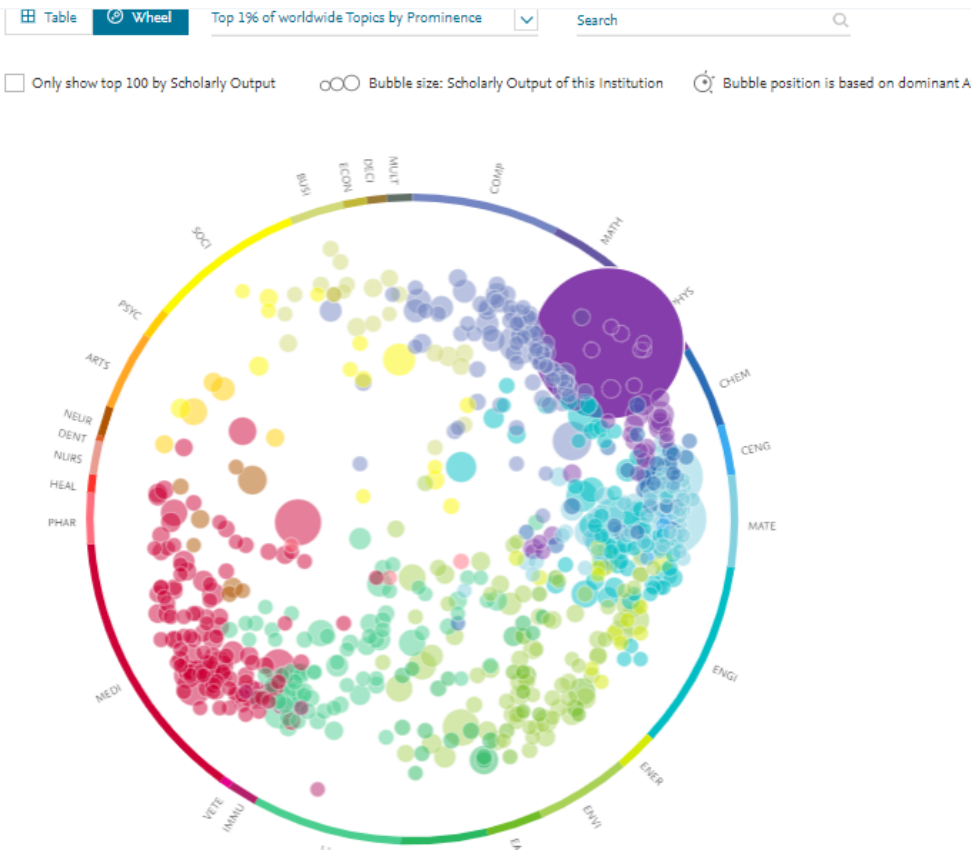
Publications at the The University of Hong Kong

Within: Top Quark; Partons; Higgs Bosons T.1026 | Year range: 2015 to 2021

Authors		283 publications Save as Publication Set					
<input type="checkbox"/>		283	Title	Authors	Year	Scopus Source	Citations
<input type="checkbox"/>	Abraham, N.L.	283	Performance of the ATLAS trigger system in 2015 Open Access View abstract View in Scopus	Aaboud, M., Aad, G., Abbott, B. and 2,856 more	2017	European Physical Journal C	255
<input type="checkbox"/>	Avolio, G.	283					
<input type="checkbox"/>	Bachas, K.	283					
<input type="checkbox"/>	Bawa, H.S.	283					
<input type="checkbox"/>	Bloch, I.	283					
Show more			Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector Open Access View abstract View in Scopus	, Aaboud, M., Aad, G. and 2,879 more	2017	Journal of High Energy Physics	194
Institutions							
<input type="checkbox"/>	Azerbaijan National Academy of Sciences	283	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $s=13$ TeV with the ATLAS detector Open Access View abstract View in Scopus	Aaboud, M., Aad, G., Abbott, B. and 2,849 more	2017	Physical Review D	190
<input type="checkbox"/>	Belarus Academy of Sciences	283					
<input type="checkbox"/>	Belarusian State University	283					
<input type="checkbox"/>	CERN	283					
<input type="checkbox"/>	CSIC	283					
Show more			Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector Open Access View abstract View in Scopus	Aaboud, M., Aad, G., Abbott, B. and 2,902 more	2018	Journal of High Energy Physics	152
Publication years							
<input type="checkbox"/>	2020	49	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector Aaboud, M., Aad, G., Abbott, B. and 2,917 more	Aaboud, M., Aad, G., Abbott, B. and 2,917 more	2018	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	146
<input type="checkbox"/>	2019	70					
<input type="checkbox"/>	2018	94					
<input type="checkbox"/>	2017	61					
<input type="checkbox"/>	2016	9					

Analyzing research trends by Topics

Identify 1% of worldwide Topics by Prominence



Top Quark; Partons; Higgs Bosons

T.1026

Prominence percentile

99.933

at the The University of Hong Kong

Scholarly Output

364

Publication share

11.85%▲

> Analyze in more detail

Worldwide

Scholarly Output

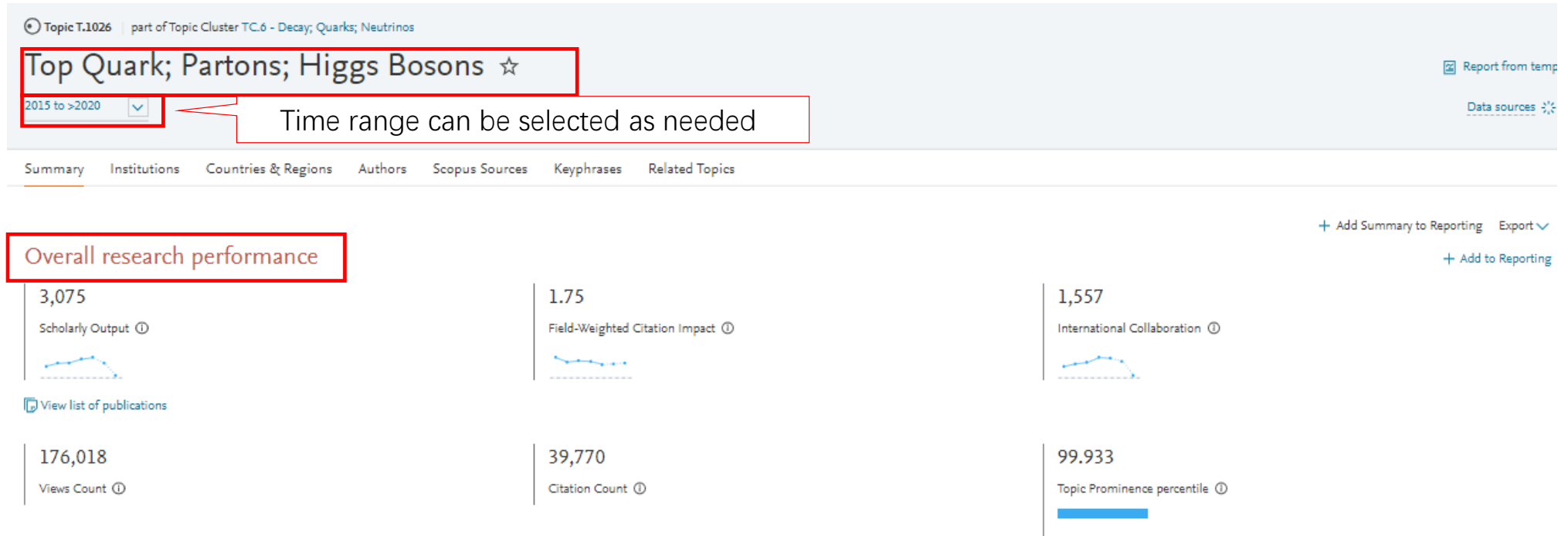
3,075

> Analyze in more detail

Check from a global perspective

Analyzing research trends by Topics

Analyze more detail worldwide



Analyzing research trends by Topics

Analyze more detail by Institutions worldwide

Topic T.1026 | part of Topic Cluster TC.6 - Decay; Quarks; Neutrinos

Top Quark; Partons; Higgs Bosons ☆

2015 to >2020

Summary Institutions Countries & Regions Authors Scopus Sources Keyphrases R

Top Institutions

Worldwide

Table Visualization

Top 100 Institutions in this Topic, 1

View on Chart

All sectors

- All sectors
- Academic
- Corporate
- Government
- Medical
- Other

Views Count

Total views received by publications of the selected entities.

Show as:

☒ Total value

The total value for the selected year range.

☐ Percentage growth or decline

The value in 2019 relative to the value in 2015.

Choose metric >

Collaborat

Published

Viewed

Views Cou

Field-Weig

Cited

Awarded C

Field-Weighted Citation Impact

The ratio of citations received relative to the expected world average for the subject field, publication type and publication year.

Show as:

☒ Total value

The total value for the selected year range.

☐ Percentage growth or decline

The value in 2019 relative to the

Choose metric >

Collaboration

Published

Viewed

Cited

Citation Count

Field-Weighted Citation Impact

Outputs in Top Citation Percentiles

Publications in Top Journal Percentiles

Citations per Publication

Awarded Grants

+ Add to Reporting

Export

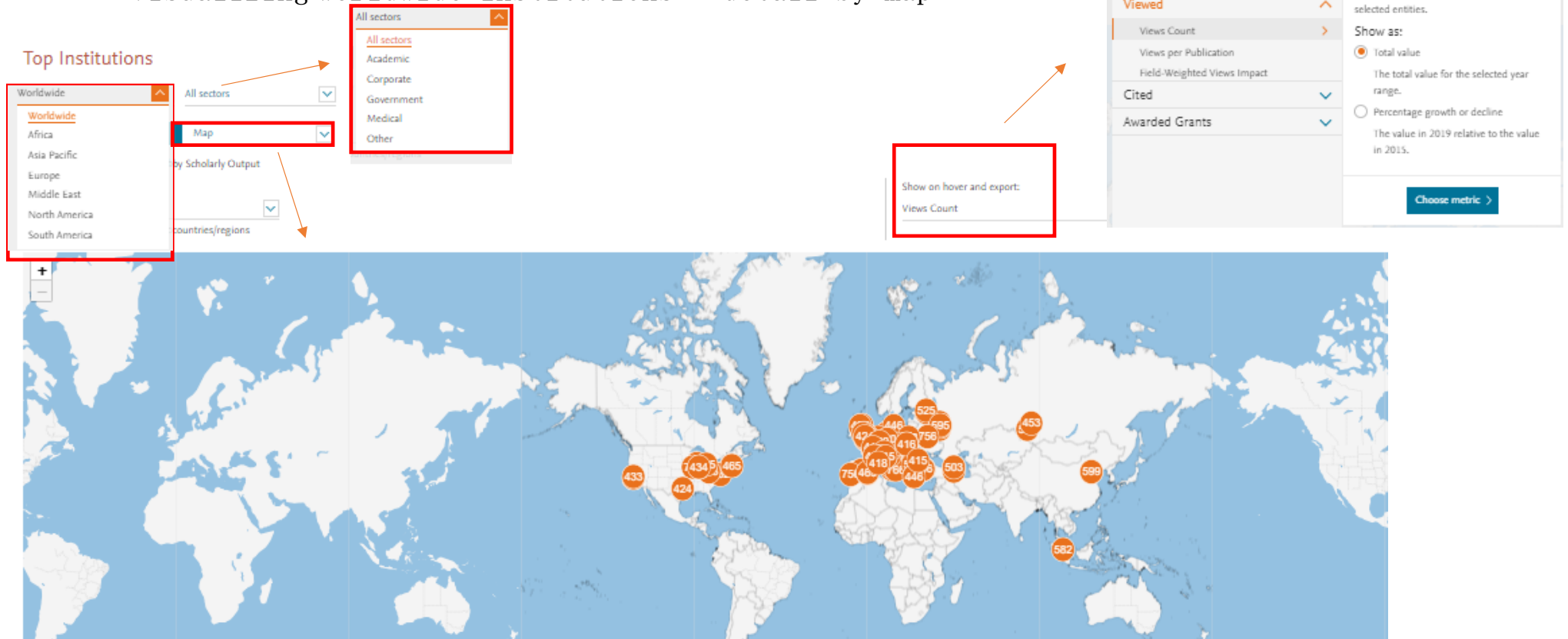
Choose all or specific institutions' performance to be exported

Change the order or metrics as needed

	Scholarly Output	Views Count	Field-Weighted Citation Impact	Citation Count
1. National Institute for Nuclear Physics	1,061	162,414	3.30	26,128
2. CERN	1,035	162,594	3.52	28,780
3. German Electron Synchrotron		158,309	3.69	25,195
4. CNRS		160,845	3.55	23,629
5. United States Department of Energy	882	159,029	3.81	26,835
6. Institut national de physique nucléaire et de physique des particules	845	160,933	3.64	22,734

Analyzing research trends by Topics

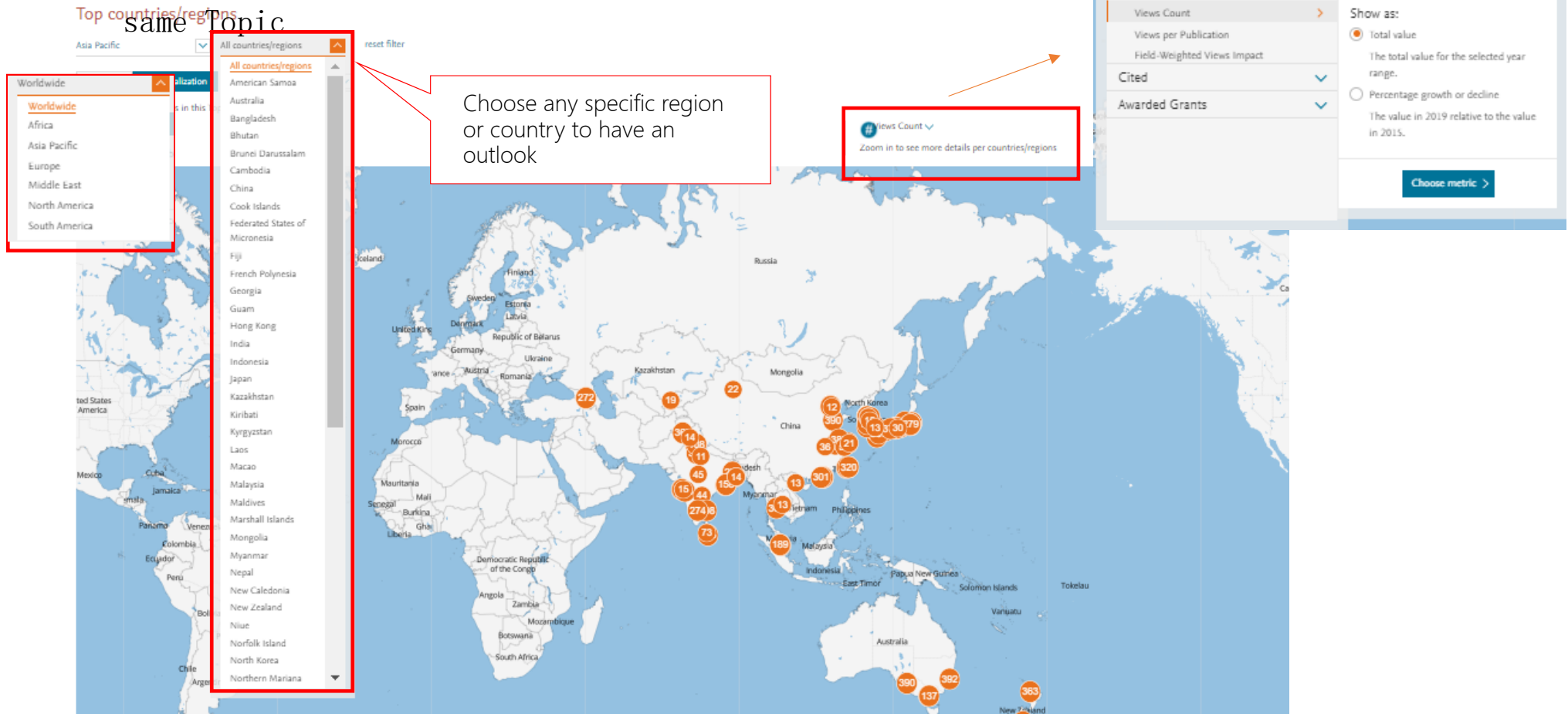
Visualizing worldwide Institutions' detail by map



Analyzing research trends by Topics

Identify the active research countries/regions in the

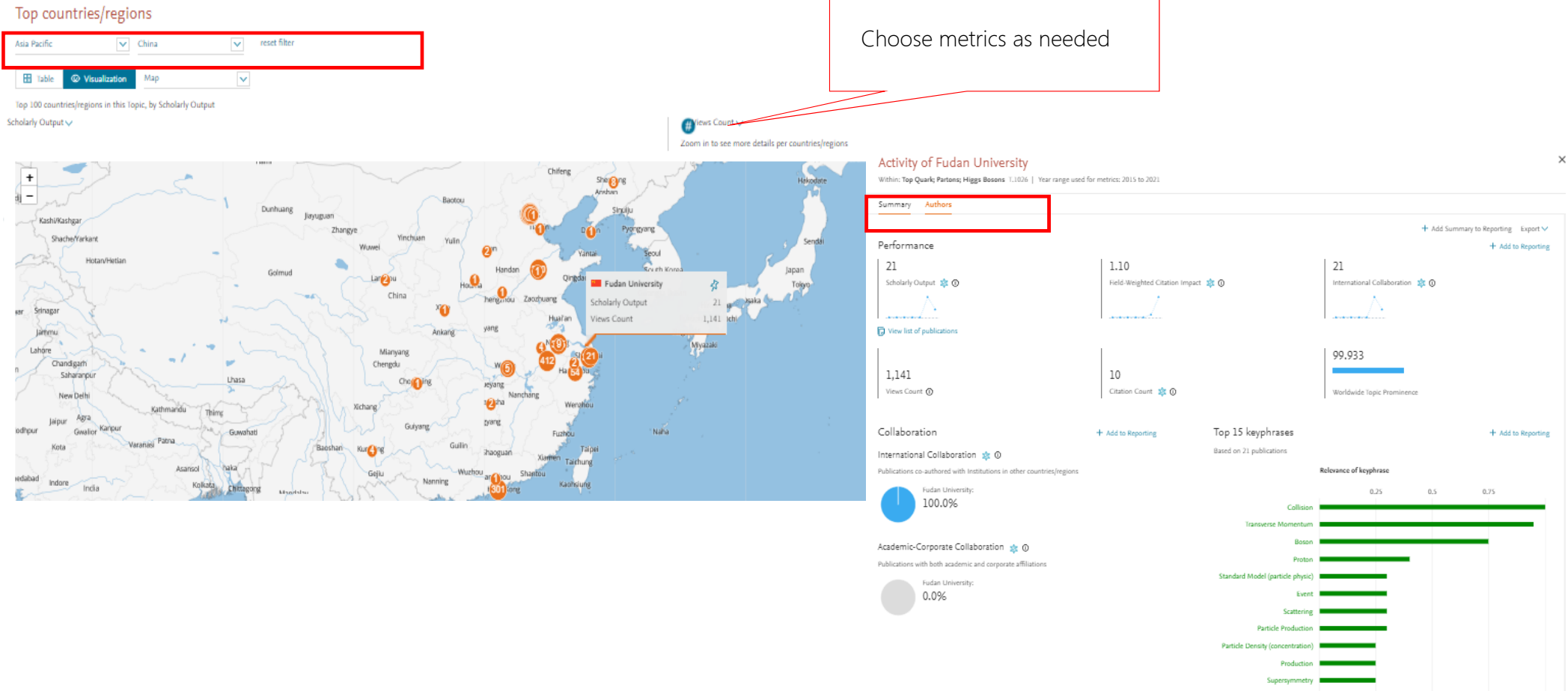
same Topic



Analyzing research trends by Topics

Have an overview of potential collaborative institution

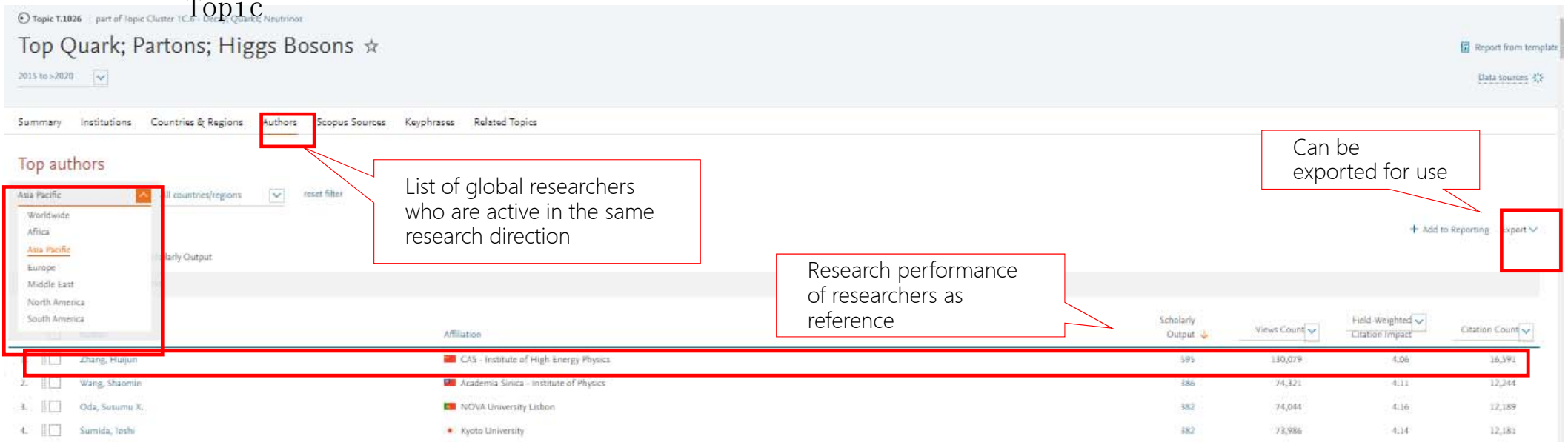
Choose metrics as needed



Analyzing research trends by Topics

Identify the most active researchers in the same

Topic



Analyzing research trends by Topics

Make use of topics to identify potential collaborator

The screenshot displays a research analysis interface. On the left, a sidebar titled 'Topics and Topic Clusters' lists several topic clusters. The cluster 'Top Quark; Partons; Higgs Bosons T.1026' is selected and highlighted with an orange bar. A red callout box points to this cluster with the text: 'Know potential collaborator with a comprehensive view in Overview module'.

The main panel shows the details for 'Topic T.1026 | part of Topic Cluster TC.6 - Decay; Quarks; Neutrinos'. The title is 'Top Quark; Partons; Higgs Bosons' with a star icon. Below the title, there is a filter for '2015 to >2020'. A horizontal menu at the top of the main panel includes 'Summary', 'Institutions', 'Countries & Regions', 'Authors', 'Scopus Sources', 'Keyphrases', and 'Related Topics'. The 'Authors' tab is currently active.

Under the 'Authors' tab, the title 'Top authors' is displayed. There are filters for 'Asia Pacific' and 'China', and a 'reset filter' button. Below the filters, there are buttons for 'Table' and 'Chart'. The text 'Top 500 authors in this Topic, by Scholarly Output' is shown. Below this, there are buttons for 'View on Chart' and 'Add to panel'. A red callout box points to the 'Add to panel' button with the text: 'Select researcher and add to panel for overview'.

A table of top authors is displayed below the buttons. The table has columns for 'Author', 'Affiliation', and 'Scholarly Output'. The first three authors are listed:

	Author	Affiliation	Scholarly Output
1.	Zhang, Huijun	CAS - Institute of High Energy Physics	595
2.	Ouyang, Qun	University of Chinese Academy of Sciences	381
3.	Feng, C.	NOVA University Lisbon	375

A red box highlights the first author, 'Zhang, Huijun', and a red arrow points from the 'Add to panel' button to this row.

Analyzing research trends by Topics

Which journal to submit?

Top Scopus Sources

Worldwide

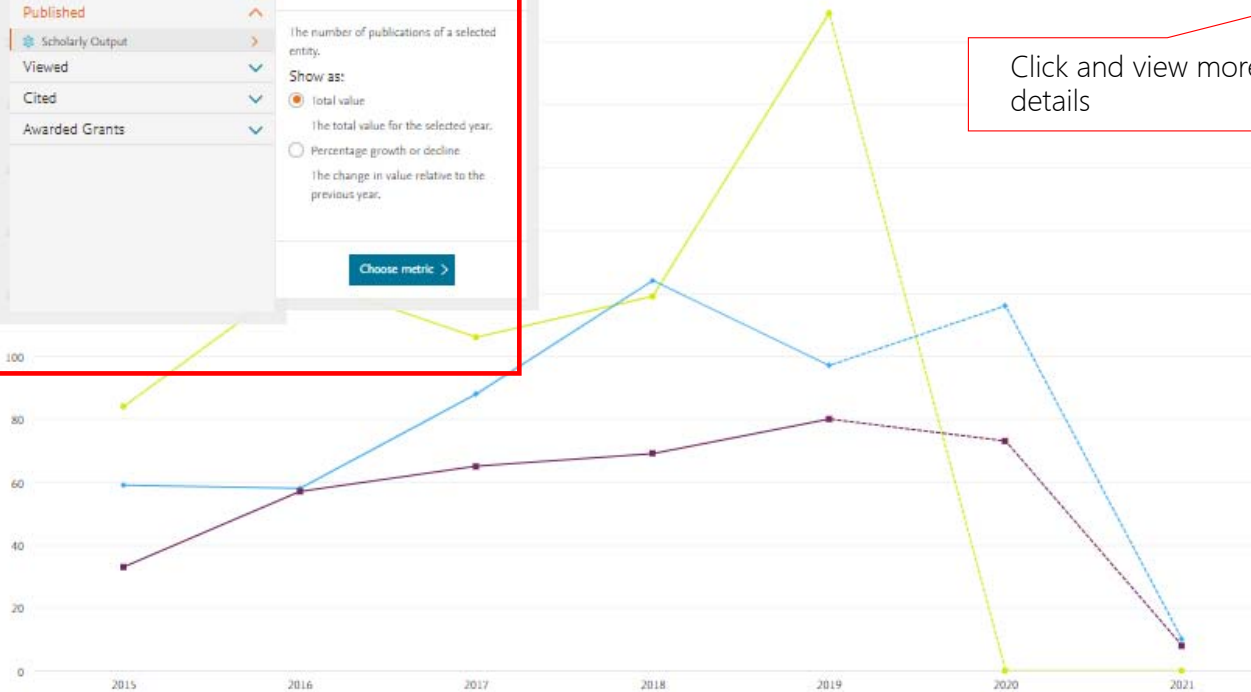
Change metrics as needed to have a performance overview of the most active journals from by year

Scholarly Output

Collaboration
Published
Scholarly Output
Viewed
Cited
Awarded Grants

Scholarly Output
The number of publications of a selected entity.
Show as:
☒ Total value
The total value for the selected year.
☐ Percentage growth or decline
The change in value relative to the previous year.

Scholarly Output [total value]



Click and view more details

Can be exported for use

Top 100 Scopus Sources in this Topic

1.	<input checked="" type="checkbox"/>	Proceedings of Science
2.	<input checked="" type="checkbox"/>	Journal of High Energy Physics
3.	<input checked="" type="checkbox"/>	European Physical Journal C
4.	<input type="checkbox"/>	Physical Review D
5.	<input type="checkbox"/>	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics
6.	<input type="checkbox"/>	Journal of Physics: Conference Series
7.	<input type="checkbox"/>	Nuclear and Particle Physics Proceedings
8.	<input type="checkbox"/>	EPJ Web of Conferences
9.	<input type="checkbox"/>	Physical Review Letters
10.	<input type="checkbox"/>	Acta Physica Polonica B
11.	<input type="checkbox"/>	Nuovo Cimento della Societa Italiana di Fisica C
12.	<input type="checkbox"/>	Computer Physics Communications
13.	<input type="checkbox"/>	Journal of Instrumentation
14.	<input type="checkbox"/>	Physical Review D - Particles, Fields, Gravitation and Cosmology
15.	<input type="checkbox"/>	International Journal of Modern Physics A
16.	<input type="checkbox"/>	Modern Physics Letters A
17.	<input type="checkbox"/>	Journal of Physics G: Nuclear and Particle Physics
18.	<input type="checkbox"/>	Nuclear Physics A
19.	<input type="checkbox"/>	Acta Physica Polonica B, Proceedings Supplement
20.	<input type="checkbox"/>	Springer Proceedings in Physics
21.	<input type="checkbox"/>	Proceedings of the 54th Rencontres de Moriond - 2019 QCD and High Energy Interactions
22.	<input type="checkbox"/>	Frascati Physics Series
23.	<input type="checkbox"/>	Proceedings of the 52nd Rencontres de Moriond - 2017 QCD and High Energy Interactions
24.	<input type="checkbox"/>	4th Conference Proceedings

Analyzing research trends by Topics

Make use Keyphrases to identify top contributors

Keyphrases

Top 50 keyphrases in this Topic by relevance, based on 3,075 publications | [Learn about keyphrase calculations](#)

Keyphrase color legend: declining A A A growing (2015-2019)

- ☒ Boson
- ☒ First Cervical Vertebra
- ☐ Parton
- ☐ Top Quark
- ☐ Higgs Boson
- ☐ Quantum Chromodynamic
- ☐ Proton
- ☐ Collision
- ☐ Hadron
- ☐ Cross Section

[Chart](#) [Top contributors](#)

Top contributors to the Topic for the selected keyphrases:

Institutions

Top 5 by Sc

- ☒ National Institute for Nuclear Physics
- ☒ CERN
- ☒ German Electron Synchrotron
- ☒ University of Oxford
- ☒ Institut national de physique nucléaire et de physique des particules

Countries/Regions

Top 5 by Scholarly Output

 Germany	820
 United States	759
 Switzerland	730
 United Kingdom	722
 Italy	686

Authors

Top 5 by Scholarly Output

Bocci, Alessio	535
Wang, F. W.	528
Costa, Maria Jose	516
Hansen, P. H.	513
Zhang, Jianrong	512

Scopus Sources

Top 5 by Scholarly Output

Proceedings of Science	340
Journal of High Energy Physics	293
European Physical Journal C	196
Physics Letters, Section B: Nuclear, Elementary Particle and High-Ener	143
Physical Review D	137

Analyzing research trends by Topics

Make use of Related Topics to identify the research trend

Related Topics

Top 50 related Topics ⓘ by keyphrase match

Table Bubble Chart

Related Topics, grouped by Topic Cluster

Highlight top 10 by

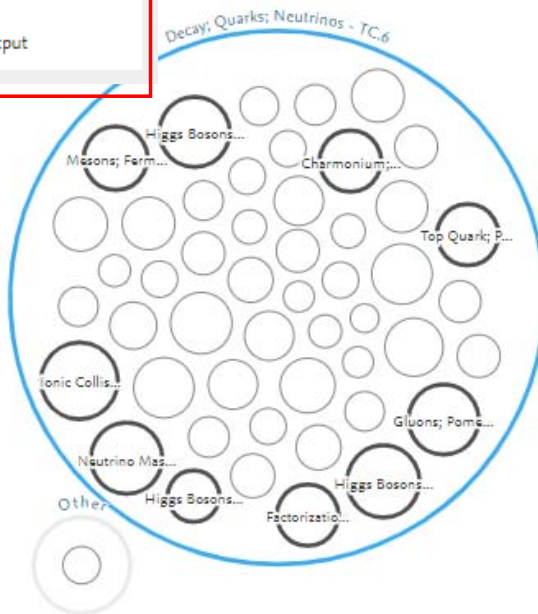
Prominence

Relatedness

Prominence

Scholarly Output

Topic bubble size: Scholarly Output worldwide



+ Add to Reporting Export

Topic Cluster	Related Topics
■ Decay; Quarks; Neutrinos TC.6	49
■ Other	1

What is my next research project?

Summary and Review

- View the research performance of individual researchers & researcher groups
- Compare research performance to know the stand
- Identify potential collaborators via Topics

Practice

Time Range:2015-2020

Subject: Engineering-ASJC

Benchmark: University of Science and Technology of China

Shanghai Jiaotong University

Hefei University of Technology

One with your own interest

Identify : Which Institution's FWCI is the highest one in 2020?

Further research: the most active author and check his/her

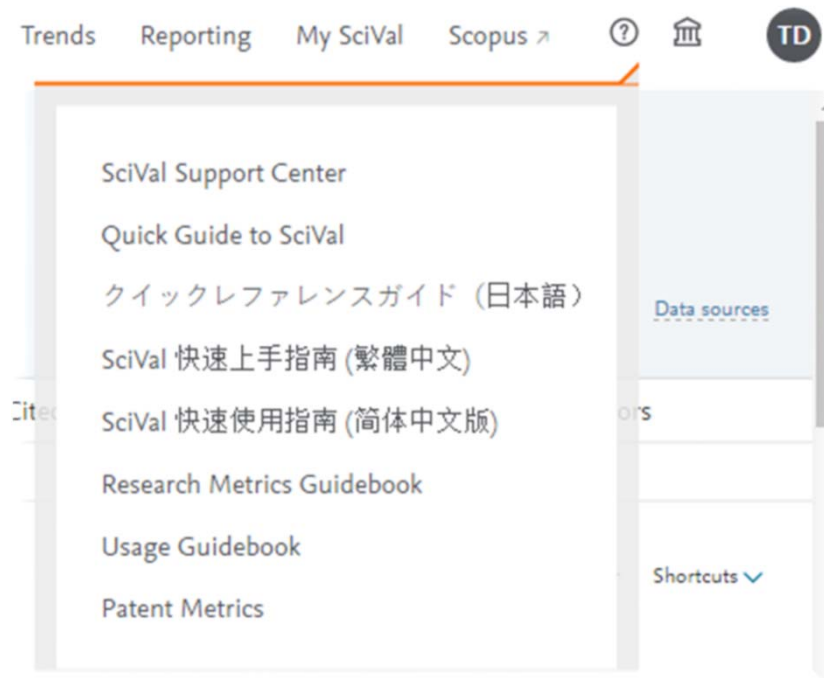
Scopus author profile



Need help?

SciVal Support Center

<https://service.elsevier.com/app/home/supporthub/scival/>



If you can not find an answer in support center, please email us with your question.

For further assistance:



Email



Thank You

Fianna Hua
Research Intelligence Elsevier
Fianna.hua@elsevier.com



Appendix

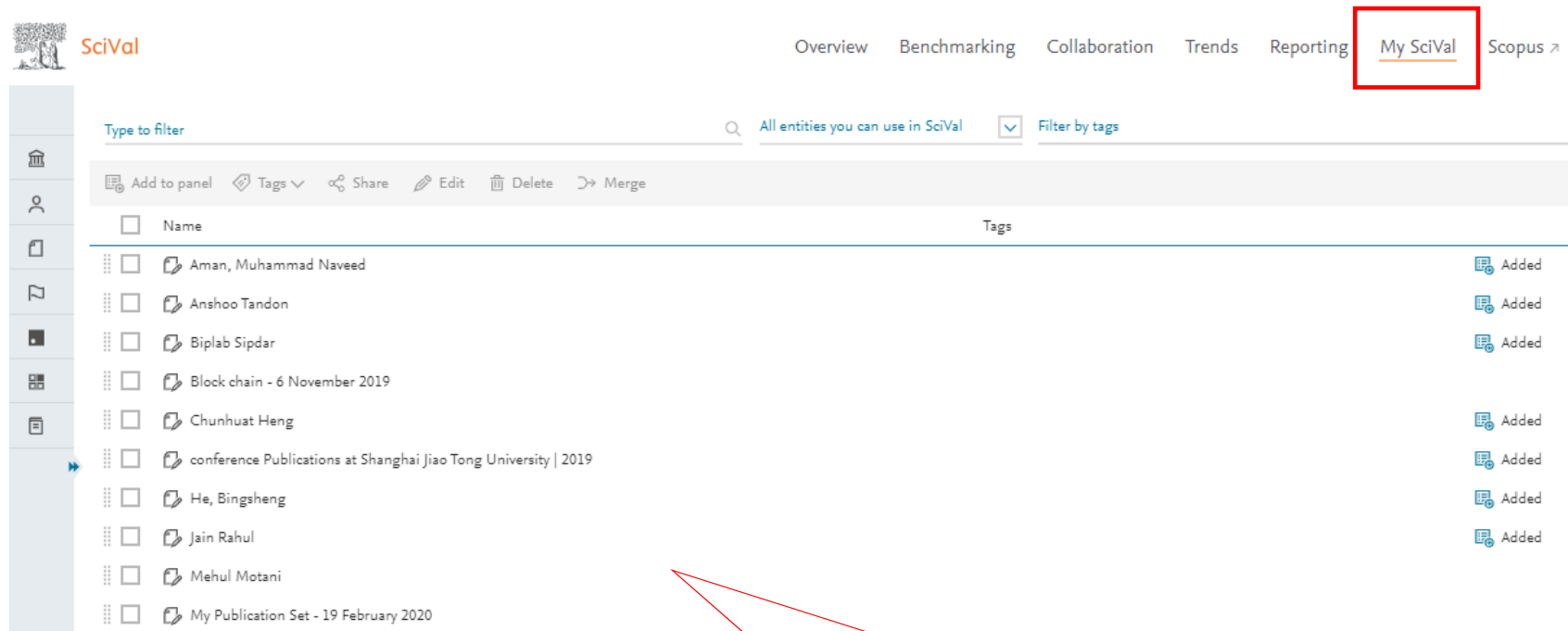
How to create entities in SciVal

How to create entities in SciVal – why important?

- The analysis is based on the entity created in SciVal analysis.
- Creating entities can have the following two ways:
 - ✓ Import pre-defined entities
 - ✓ Define your own entities: When the pre-defined entities in SciVal cannot meet the needs of analysis, you can create entities by yourself. This function makes the analysis more flexible and with a wider scope.

How to create entities in SciVal - My SciVal

Entities created can be viewed and edited in My SciVal



The screenshot displays the SciVal 'My SciVal' interface. At the top, the SciVal logo is on the left, and navigation tabs for Overview, Benchmarking, Collaboration, Trends, Reporting, My SciVal (highlighted with a red box), and Scopus are on the right. Below the navigation bar, there is a search bar with the placeholder 'Type to filter' and a dropdown menu set to 'All entities you can use in SciVal'. A toolbar contains icons for 'Add to panel', 'Tags', 'Share', 'Edit', 'Delete', and 'Merge'. The main content area is a table with a 'Name' column and a 'Tags' column. The table lists several entities, each with a checkbox in the 'Name' column and an 'Added' status in the 'Tags' column. The entities are categorized by type, as indicated by the red box and arrow pointing to the table.

Name	Tags
<input type="checkbox"/> Aman, Muhammad Naveed	Added
<input type="checkbox"/> Anshoo Tandon	Added
<input type="checkbox"/> Biplab Sipdar	Added
<input type="checkbox"/> Block chain - 6 November 2019	
<input type="checkbox"/> Chunhuat Heng	Added
<input type="checkbox"/> conference Publications at Shanghai Jiao Tong University 2019	Added
<input type="checkbox"/> He, Bingsheng	Added
<input type="checkbox"/> Jain Rahul	Added
<input type="checkbox"/> Mehul Motani	
<input type="checkbox"/> My Publication Set - 19 February 2020	

Categorized by entity type

How to create entities in SciVal - Institutions and Groups

- ✓ Create Institutions and Groups

The screenshot displays the SciVal interface. On the left, a sidebar titled 'Institutions and Groups' contains a 'Favorites' section with an 'Unknown institution' button and an 'Others' section listing various institutions. The 'Shanghai Jiao Tong University' is selected. At the bottom of the sidebar, a red box highlights the '+ Add Institutions and Groups' button. A callout box points to this button with the text 'Click \"Add Institutions and Groups\"'. The main content area shows the profile for Shanghai Jiao Tong University, including its name in English and Chinese, its ranking (60th in QS, 157th in THE, 82nd in ARWU, 4th in RUANKE), and its location (China). Below this, there are tabs for 'Summary', 'Topics & Topic Clusters', 'Collaboration', 'Published', 'Viewed', 'Cited', 'Authors', 'Economic Impact', 'Societal Impact', and 'Awarded Grants'. The 'Summary' tab is active, showing 'Overall research performance' metrics: 71,309 Scholarly Output, 59,615 Authors, and 1.26 Field-Weighted Citation Impact. Below these are 444,723 Citation Count, 6.2 Citations per Publication, and 151 h5-index. At the bottom, a pie chart shows the distribution of research topics: Other (14.7%) and Computer Science (8.5%).

SciVal

Overview Benchmarking Collaboration Trends Reporting My SciVal Scopus ? TD

Hide tags

Institutions and Groups

★ Favorites

Unknown institution

Others

Beijing

City University of Hong Kong

Fudan University

Huawei Technologies Co., Ltd.

Shanghai Jiao Tong University

Sun Yat-Sen University

Tongji University

+ Add Institutions and Groups

Shanghai Jiao Tong University ☆

SJTU · 上海交通大学

60th (QS) · 157 (THE) · 82nd (ARWU) · 4th (RUANKE) · China · More details on this Institution

2016 to >2019 no subject area filter selected ASJC Data sources

Summary Topics & Topic Clusters Collaboration Published Viewed Cited Authors Economic Impact Societal Impact Awarded Grants

Overall research performance

+ Add Summary to Reporting Export

+ Add to Reporting

71,309 ▲ Scholarly Output

59,615 ▲ Authors

1.26 Field-Weighted Citation Impact

View list of publications

444,723 Citation Count

6.2 Citations per Publication

151 h5-index

Pie Chart

+ Add to Reporting

Other (14.7%) Computer Science (8.5%)

How to create entities in SciVal - Institutions and Groups

- ✓ Create Institutions and Groups – search to add

The screenshot shows the SciVal interface. On the left, the 'Institutions and Groups' sidebar is active, showing a search bar with '上海交通' (Shanghai Jiao Tong University) entered. Below the search bar, a list of suggestions includes 'Shanghai Jiao Tong University - SJTU' and '上海交通大学'. The main panel displays the profile for 'Shanghai Jiao Tong University' (上海交通大学). The profile includes a summary of research performance metrics:

Metric	Value	Change
Scholarly Output	71,309	▲
Authors	59,615	▲
Field-Weighted Citation Impact	1.26	
Citation Count	444,723	
Citations per Publication	6.2	
h5-index	151	

Input the name and search for the institution or group (Currently, SciVal supports to use Chinese name to query individual Chinese institution)

How to create entities in SciVal - Institutions and Groups

- ✓ Create Institutions and Groups – view to add

The screenshot shows the SciVal 'Add Institutions and Groups' interface. The left sidebar contains a search bar and a list of institutions. The main panel displays a list of institutions with a filter bar at the top. Annotations highlight key features:

- Advanced search:** A red box highlights the 'Advanced search' link in the left sidebar. A callout points to it with the text: "Click 'advanced search' under 'add institutions and groups' to browse through pre-defined entities."
- Filter by tags:** A red box highlights the 'Filter by tags' dropdown in the main panel. A callout points to it with the text: "Use filter to narrow down".
- Add button:** A red box highlights the 'Add' button next to the 'Shanghai Business School' entry. A callout points to it with the text: "Click to add".

The main panel shows a list of institutions with the following details:

Name	Tags
International Center for Wireless Collaborative Research 上海无线通信研究中心	
New York University Shanghai 上海纽约大学	
SAIC Motor Corporation Limited 上海汽车集团股份有限公司	
Shanghai Academy of Social Sciences 上海社会科学院	
Shanghai Business School 上海商学院	
Shanghai Cancer Institute	

How to create entities in SciVal - Institutions and Groups

- ✓ Self-define groups

The screenshot shows the SciVal interface. On the left, the 'Institutions and Groups' sidebar is open, displaying a list of institutions and a search bar. A red box highlights the button '+ Define a new Group of Institutions' at the bottom of the sidebar. A red arrow points from this button to a text box below the screenshot. The main content area displays the profile for 'Shanghai Jiao Tong University' (SJTU), including its ranking (60th QS, 157th THE, 82nd ARWU, 4th RUANKE), location (China), and various research performance metrics.

Overall research performance

Metric	Value	Change
Scholarly Output	71,309	▲
Authors	59,615	▲
Field-Weighted Citation Impact	1.26	
Citation Count	444,723	
Citations per Publication	6.2	
h5-index	151	

Click "define a new group of institutions" under "add institutions and group"

How to create entities in SciVal - Institutions and Groups

- ✓ Self-define groups

Define a new Group of Institutions

1. Check existing Groups

2. Select Institutions

3. Save Groups

Is your Group already in SciVal?

Select it from the list below:

Type to filter

All Groups you can use in SciVal

> Ningxia

> Qinghai

> Shaanxi

> Shandong

> Shanghai

> Shanxi

> Sichuan

> Taiwan

> Tianjin

> Xinjiang

> Yunnan

> Zhejiang

Can't find the Group you want?

Then you can submit a request to have it added to SciVal.
Please note that a new Group of Institutions could take about 6 hours to be computed.

The pre-defined group can meet the analysis requirements

Select this Group >

The pre-defined group can't meet the analysis requirements

Define a new Group >

How to create entities in SciVal - Institutions and Groups

- ✓ Self-define groups

Define a new Group of Institutions

1. Check existing Groups

2. Select Institutions

3. Save Groups

Select the Institutions that will form your new Group

All Institutions and Groups

All tags

+

Copy selected to my new Group

Type to filter
Peking

Peking Union Medical College

Peking University

Drag to form a group

-

Remove selected from my new Group

Drag and drop at least one entity from the list on the left to define your Group of Institutions

< Previous step

Next step >

How to create entities in SciVal - Institutions and Groups

- ✓ Self-define groups

Define a new Group of Institutions



1. Check existing Groups

2. Select Institutions

3. Save Groups

Select the Institutions that will form your new Group

All Institutions and Groups

All tags

Type to filter

ts

+ Copy selected to my new Group

Tshwane University of Technology

Tsinghua University

Tsurumi University

A.V.Bogatsky Physico-Chemical Institute of the National Academy of Sciences of Ukraine

Aber Instruments Ltd

AFSSA Agence Francaise de Securite Sanitaire des Aliments

Air Products and Chemicals, Inc.

Akademie der Bildenden Kuste Wien - Academy of Fine Arts Vienna

Applied Ground Engineering Consultants Ltd

Arts et Metiers ParisTech

- Remove selected from my new Group

Peking University

University of Science and Technology of China

Tsinghua University

< Previous step

Follow the instructions

Next step >