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Web of Science™

InCites Part I: Developing a comprehensive view of a research organization

Dju-Lyn Chng, Regional Solution Consultant

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Agenda

Commonly Used InCites Indicators

Common Used InCites Research Area Schemas

Retrieving Country and Institution Data from InCites

A look at an Institution’s Research Strengths

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Increasingly competitive global research landscape

Are you missing opportunities to strengthen your institution's standing?

- **Benchmark your research against peer institutions to strengthen your position**
- **Demonstrate successful outcomes to funders to secure revenue streams**
- **Quickly identify high performing researchers to recruit or retain**
- **Assess your existing and potential collaborations to find the best partners**
- **Measure your progress towards Open Research goals to fulfill mandates**
- **Identify your institution's essential journals to maximize your library budget**

InCites Benchmarking & Analytics

Assess your position using data from the world's largest curated citation index of research publications

Reliable citation indicators

Confidently measure citation impact and reputation with normalized indicators derived from data used in major research evaluation initiatives worldwide

Collaboration indicators

Save time identifying academic, industry and government partners worldwide with pre-built indicators and filters for international and industry collaboration

Open access indicators

Save money, assess compliance with mandates, and identify where your authors are likely paying APCs using pre-built indicators and filters for gold, green and hybrid publications

Flexible evaluation schema

Assess your research using the same lens as your evaluators with over 13 localized regional assessment classifications used in national research assessment exercises

Multiple ways to view data

Quickly assess the research landscape on any topic to identify star researchers, centers of excellence, and major funders– worldwide or in your region of choice

Assess your research with trusted data used in major research evaluation initiatives

Web of Science Core Collection: the InCites data source

- **1.69B+ linked citations**
- **100% of author names and affiliations**
- **14K+ disambiguated organizations**
- **21K+ high quality journals**
- **15M+ records with funding data**
- **Publisher-neutral journal selection**
- **254 subject categories**
- **220K+ conference proceedings**
- **119K+ books**

Web of Science Core Collection data underpin many of the world's leading rankings and assessments

Commonly Used InCites Indicators

Productivity

Total WOS Docs

Number of documents published in the Web of Science.

Publications in JIF

Documents published in a journal found in Journal Citation Reports in a given year.

Quality and Impact

Publications in Q1-Q4 or JIF Journals
Number of documents that appear in a Quartile 1/2/3/4 journal in a given year.

Category Normalized Citation Impact (CNCI)
CNCI is a valuable and unbiased indicator of impact irrespective of age, subject focus of document type. CNCI value of 1 represents performance at par with the global average, values above 1 are considered above average and values below 1 are considered below average.

Performance

% Documents in Top 1% (Excellent) and % Documents in Top 10% (High Performing)

The % Documents in Top 1% and Top 10% indicator is the top one percent and top ten percent most cited documents in a given subject category, year and publication type divided by the total number of documents in a given set of documents, displayed as a percentage. A higher value is considered to be higher performance.

% Hot Papers (Elite)

The Hot Papers indicator shows the number of papers in the top 0.1 percent worldwide that were published in the last two years, based on citation activity in the most recent two-month period, per subject field. This is an indicator of emerging scientific impact as they reveal which recent papers are currently attracting the attention of the global research community. % Hot Papers is the number of Hot Papers divided by the total number of documents produced times 100.

Collaboration

% International Collaboration

The International Collaborations indicator shows the number of publications that have been found with at least two different countries among the affiliations of the co-authors. The International Collaborations indicator can be applied to any level of aggregation (author, institution, national, journal, or field).

The % of International Collaborations is the number of International Collaborations for an entity (as described above) divided by the total number of documents for the same entity represented as a percentage.

% Industry Collaboration

An industry collaborative publication is one that lists its organization type as “corporate” for one or more of the co-author’s affiliations.

The % of Industry Collaborations is the number of industry collaborative publications for an entity (as described above) divided by the total number of documents for the same entity represented as a percentage.

% Domestic Collaboration

Papers with 2 or more authors, 2 or more distinct addresses & Organizations and all addresses in the same country.

The number of Domestic collaborations for an entity divided by the total number of documents for the same entity represented as a percentage.

Author Positions

- Indicators for Author Positions

- First Author
- Corresponding Author
- Last Author

- Author Position is a new group type added in Manage Indicators panel for Researcher, Organization, and Location entities.

▲ Author Position	
% Corresponding Author (2008-2020)	Percentage of publications where the author is in reprint aka corresponding position for documents published on or after 2008
% First Author (2008-2020)	Percentage of publications where the author is in first position in documents published on or after 2008
% Last Author (2008-2020)	Percentage of publications where the author is in last position in documents published on or after 2008
Corresponding Author (2008-2020)	This indicator calculates the total number of publications where the said author is in reprint or corresponding position for documents published on or after 2008
First Author (2008-2020)	This indicator calculates the total number of publications where the said author is in first position for documents published on or after 2008
Last Author (2008-2020)	This indicator calculates the total number of publications where the said author is in last position for documents published on or after 2008

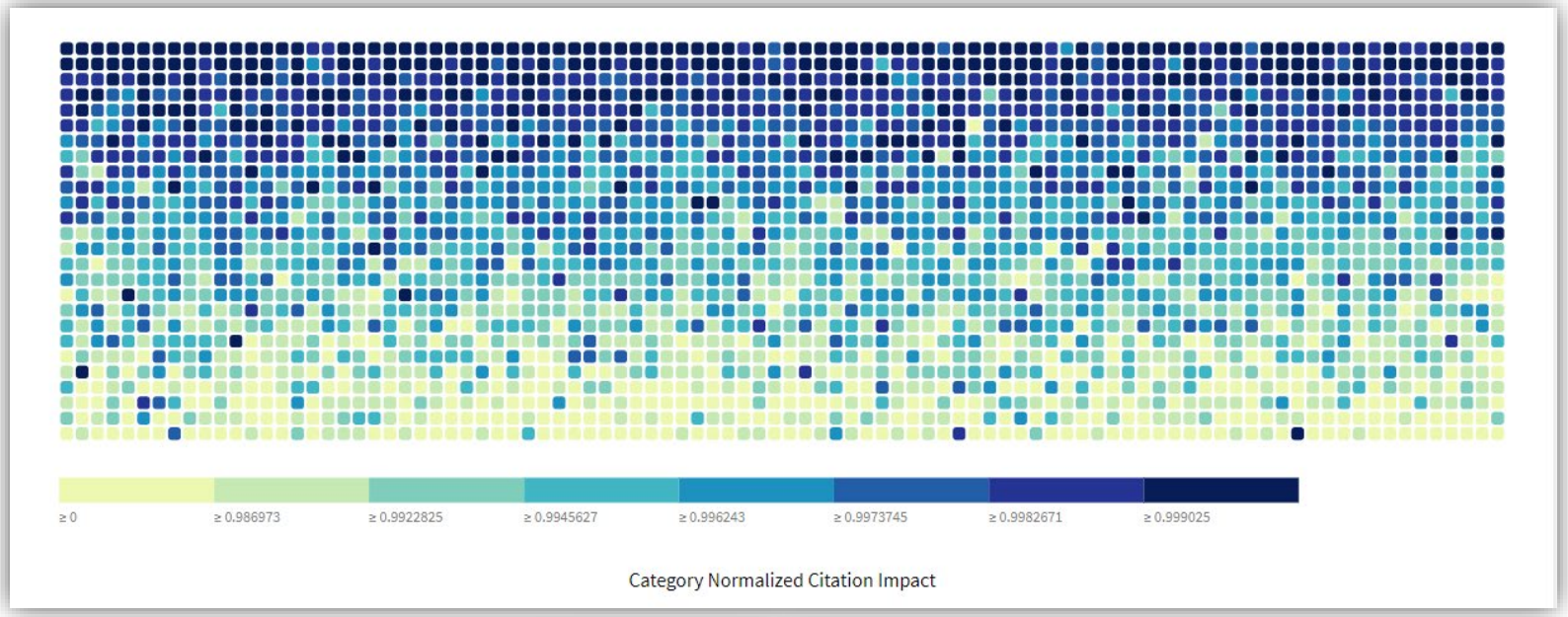
Commonly Used InCites Research Area Schemas

Web of Science Subject Categories Schema

- 254 categories
- Classification by subject of source type
- Multidisciplinary journals will have the individual articles reclassified by algorithm
- Journals can be assigned to more than 1 subject category

Citation Topics Schema

Dig deeper using document level classifications developed by CWTS (Leiden) and Clarivate's Institute for Scientific Information **based on the citation relationships between documents**.



2.298 Perovskite Solar Cells	17,487
1.196 Micro & Long Noncoding RNA	61,425
2.62 Electrochemistry	118,095
2.145 Biosensors	40,267
2.74 Photocatalysts	82,367

2.53 Polymers & Macromolecules	64,986
1.25 Molecular & Cell Biology - Cancer, Autophagy & Apoptosis	75,427
2.41 Catalysts	59,951
2.59 Pigments, Sensors & Probes	50,976
2.1 Synthesis	129,471

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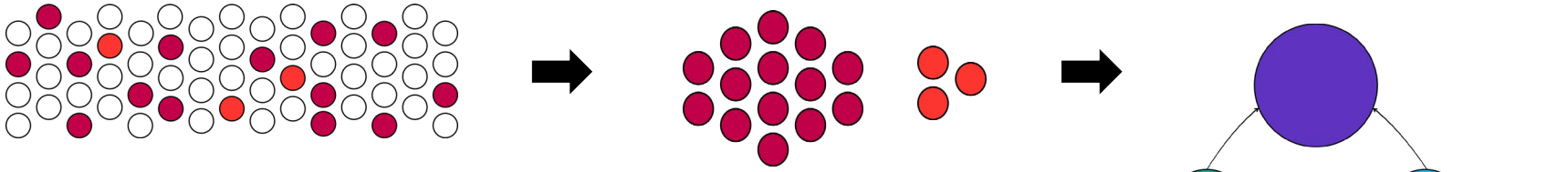
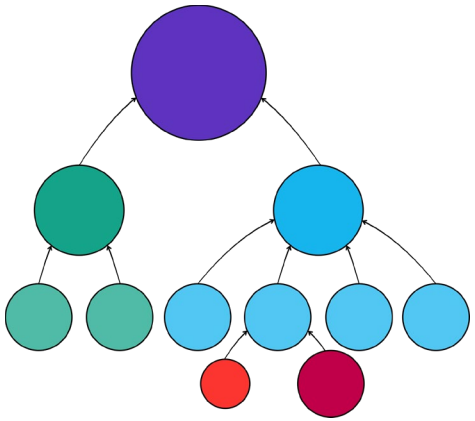
Assess the research landscape through a new lens

InCites Citation Topics



- All Core Collection documents 1980–present
- Citations to documents published pre-1980 are considered



10 Macro topics
Example: 2 Chemistry

326 Meso topics
Example: 2.144 Organic Semiconductors

2,444 Micro topics
Example: 2.144.321 OLEDs

Citation Topics are clusters of Web of Science documents related by citation.

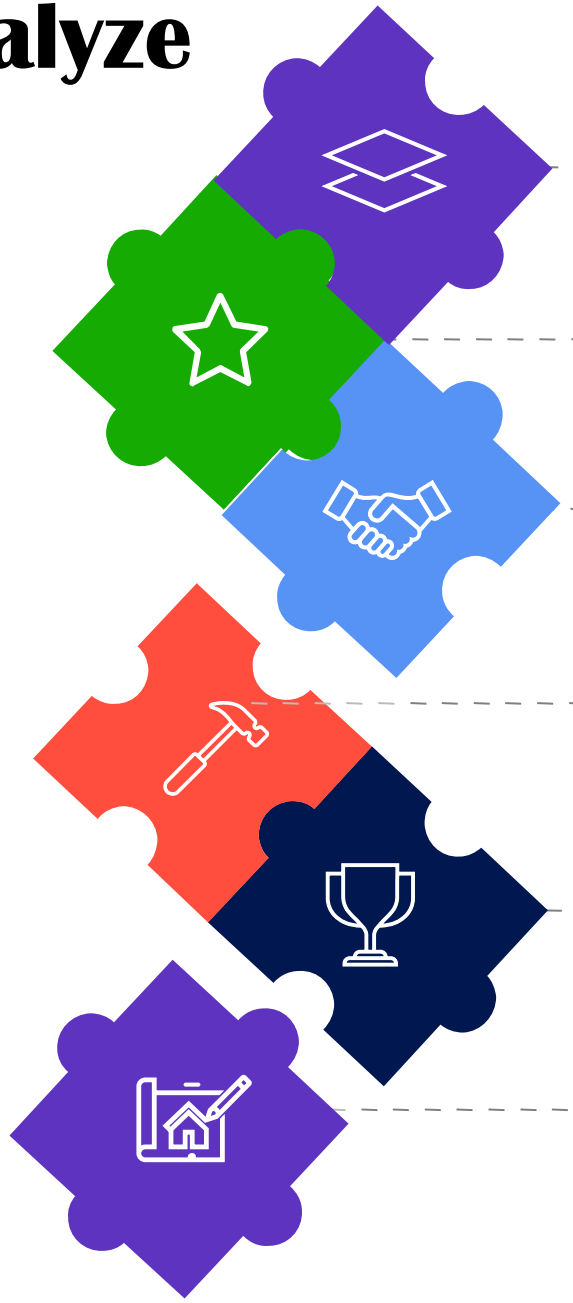
Topics are arranged in a three-tier hierarchical classification system with each document belonging to a single micro-topic.

How to build a Research Profile for an Institution?

Profile and Analyze Global Top University

Research Output

Research Outcome



Productivity
WOS Documents
% Documents in Journal
Impact Factor

Quality
% Documents in Quartile-1 (Q1) Journals

Collaborations
% Industry Collaborations
% International Collaborations

Research Impact
Impact Relative to the World (IR2W)
Category Normalized Citation Impact (CNCI)

Research Performance
% Documents in Top 10%
% Documents in Top 1%
% Hot Papers in Top 0.1%

5 10 Profiling Framework

Analyze & Benchmark Global Top Universities
Identify the Characteristics of these universities.

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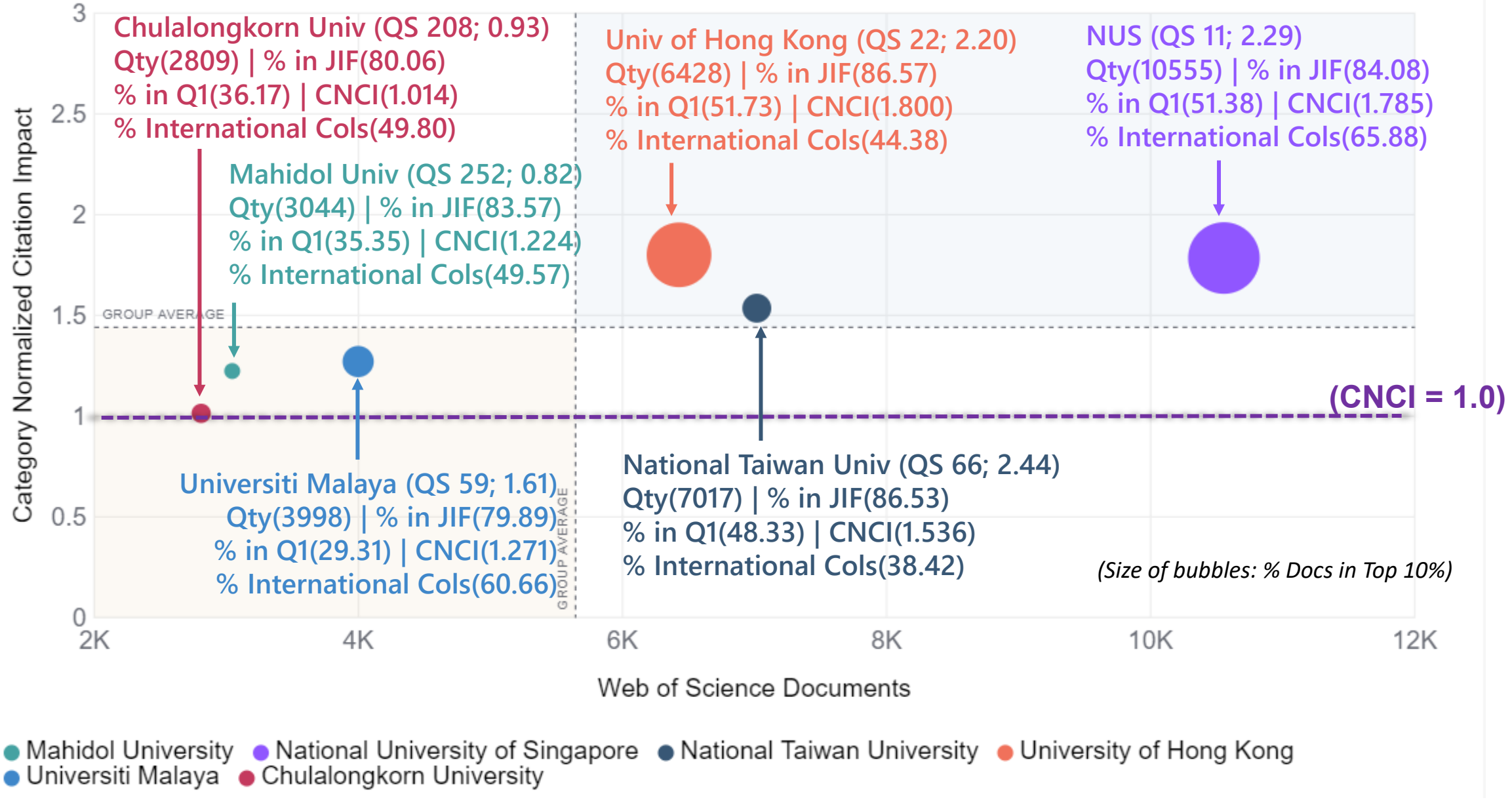
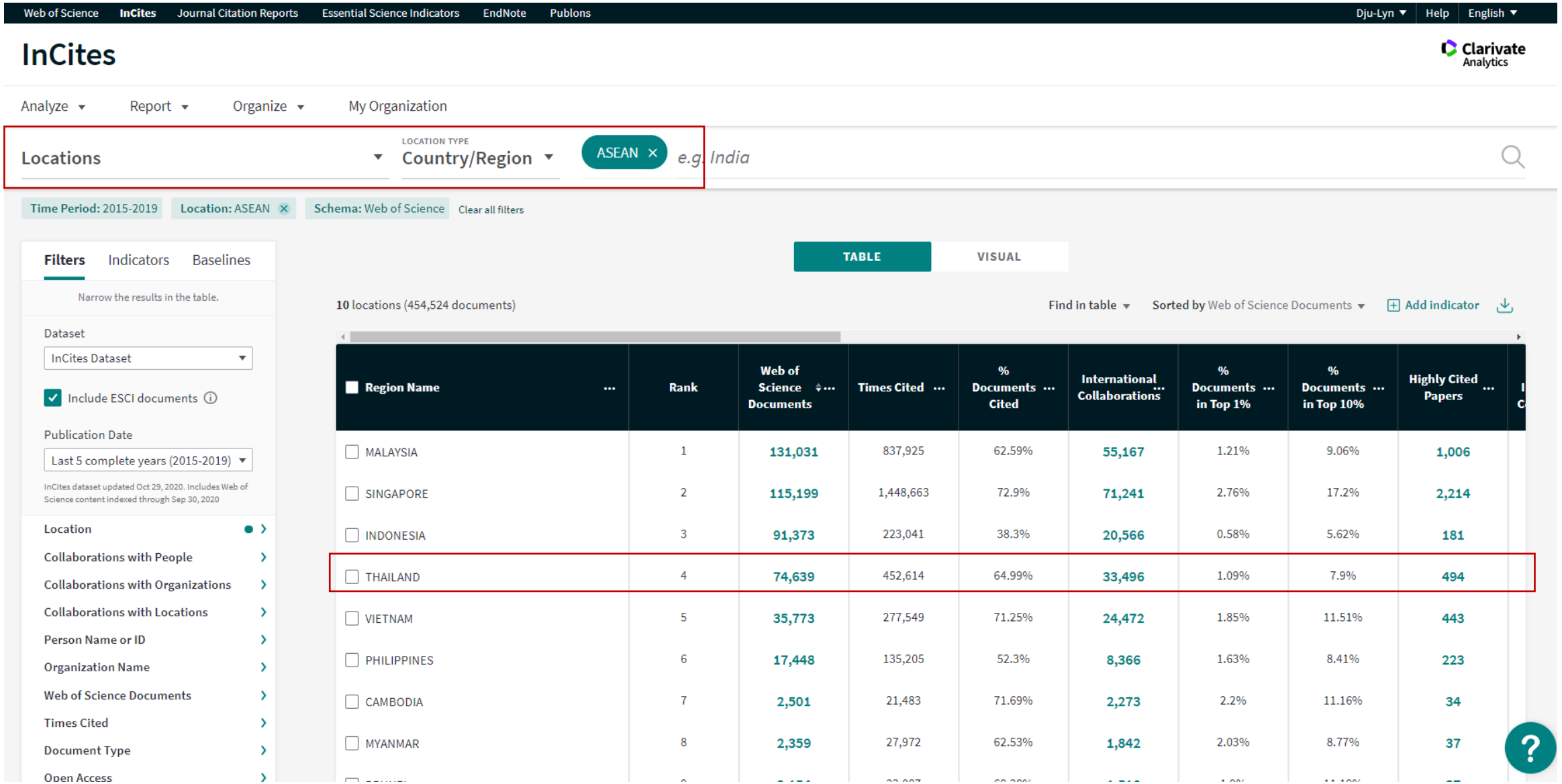
Mahidol University and Selected Peer Group

2019 Research Output Only; Number next to rank is Productivity



Retrieving Country and Institution Data from InCites

Country Level Data



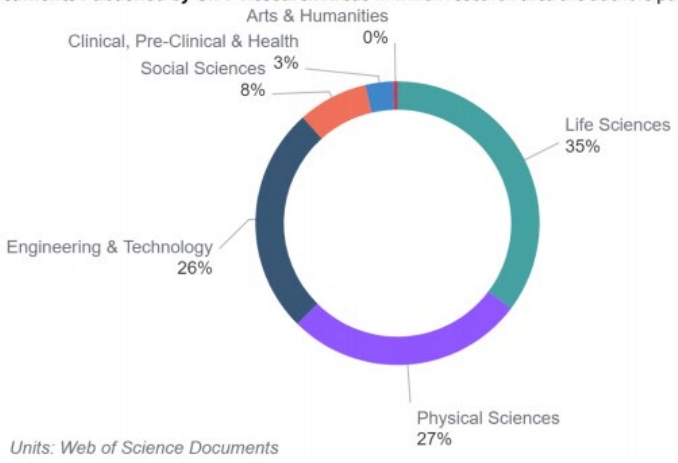
Region Name	Rank	Web of Science Documents	Times Cited	% Documents Cited	International Collaborations	% Documents in Top 1%	% Documents in Top 10%	Highly Cited Papers
MALAYSIA	1	131,031	837,925	62.59%	55,167	1.21%	9.06%	1,006
SINGAPORE	2	115,199	1,448,663	72.9%	71,241	2.76%	17.2%	2,214
INDONESIA	3	91,373	223,041	38.3%	20,566	0.58%	5.62%	181
THAILAND	4	74,639	452,614	64.99%	33,496	1.09%	7.9%	494
VIETNAM	5	35,773	277,549	71.25%	24,472	1.85%	11.51%	443
PHILIPPINES	6	17,448	135,205	52.3%	8,366	1.63%	8.41%	223
CAMBODIA	7	2,501	21,483	71.69%	2,273	2.2%	11.16%	34
MYANMAR	8	2,359	27,972	62.53%	1,842	2.03%	8.77%	37

Institution Reports

Research Performance

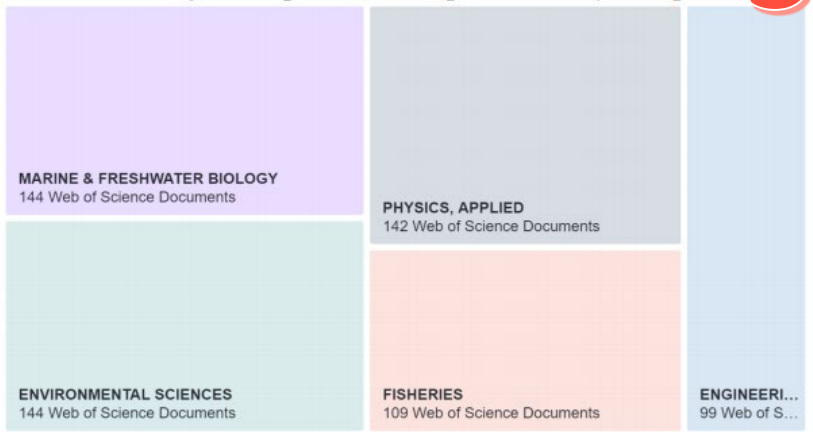
Overview

Documents Published by GIPP Research Areas In which research area are authors publishing most?



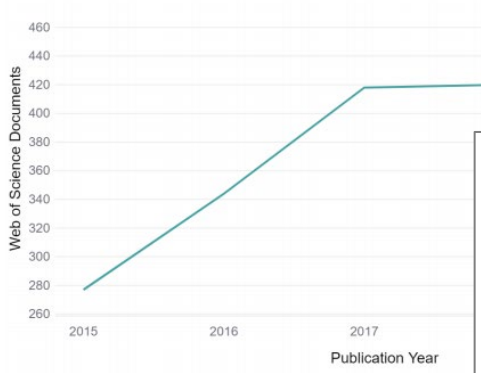
Units: Web of Science Documents

Documents Published by WoS Categories In which categories are authors publishing most?



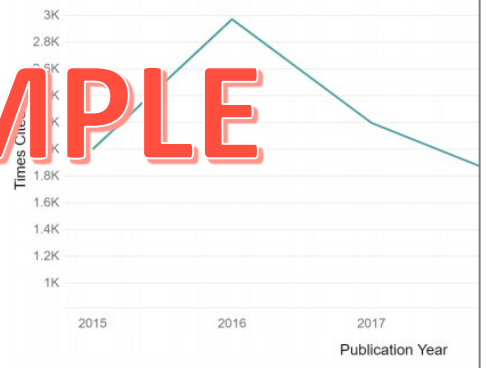
Box size indicates Web of Science Documents ⓘ

Documents Published per Year How many documents have authors published?



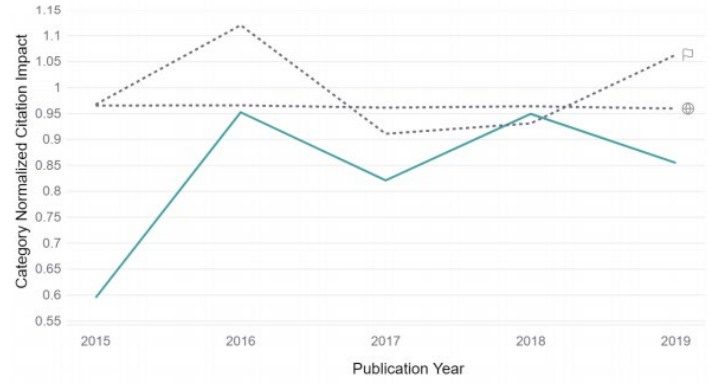
● Universiti Malaysia Terengganu

Times Cited Per Year How many times have authors been cited?



● Universiti Malaysia Terengganu

Category Normalized Citation Impact per Year What is the citation impact?



⊕ Global Baseline ⚐ Baseline (MALAYSIA) ● Universiti Malaysia Terengganu

Documents Published per JIF Quartile per Year How many documents have authors published in highly cited journals?

● Documents in Q1 Journals ● Documents in Q2 Journals ● Documents in Q3 Journals
● Documents in Q4 Journals

SAMPLE

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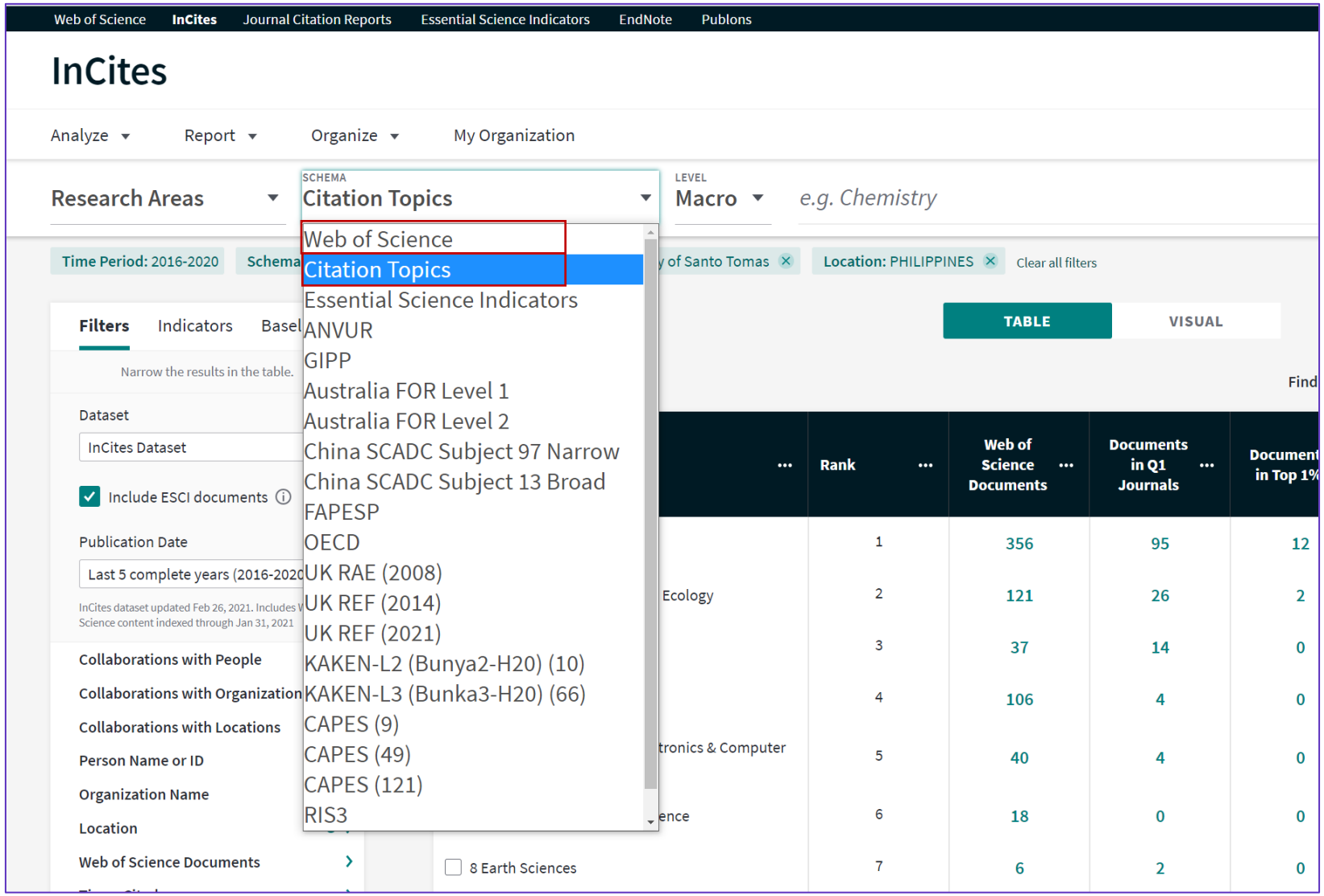
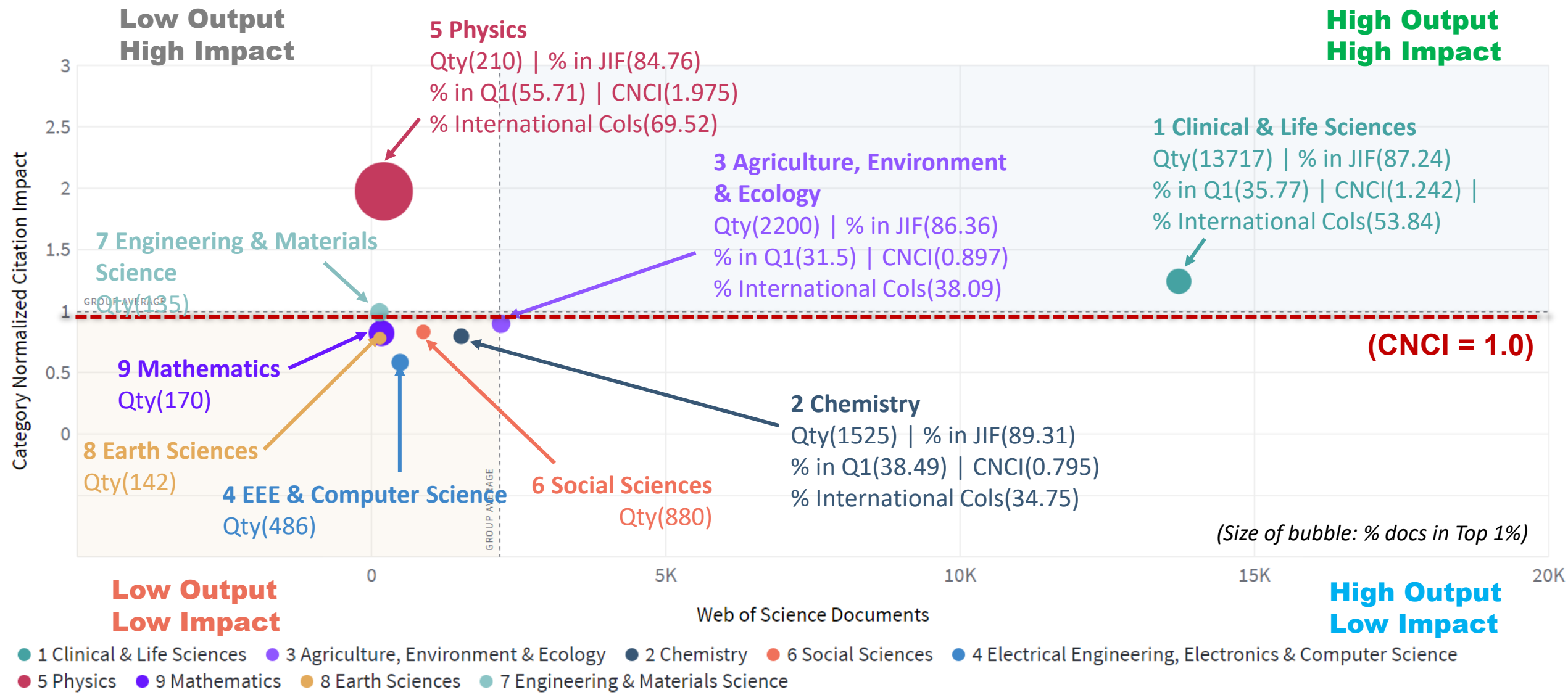
A look at an Institution’s Research Strengths

Research Area Schemas

- WOS Subject Categories
- GIPP (broad area)
- Citation Topics



Mahidol University: 10 Broad Research Areas Performance, 2010-2019



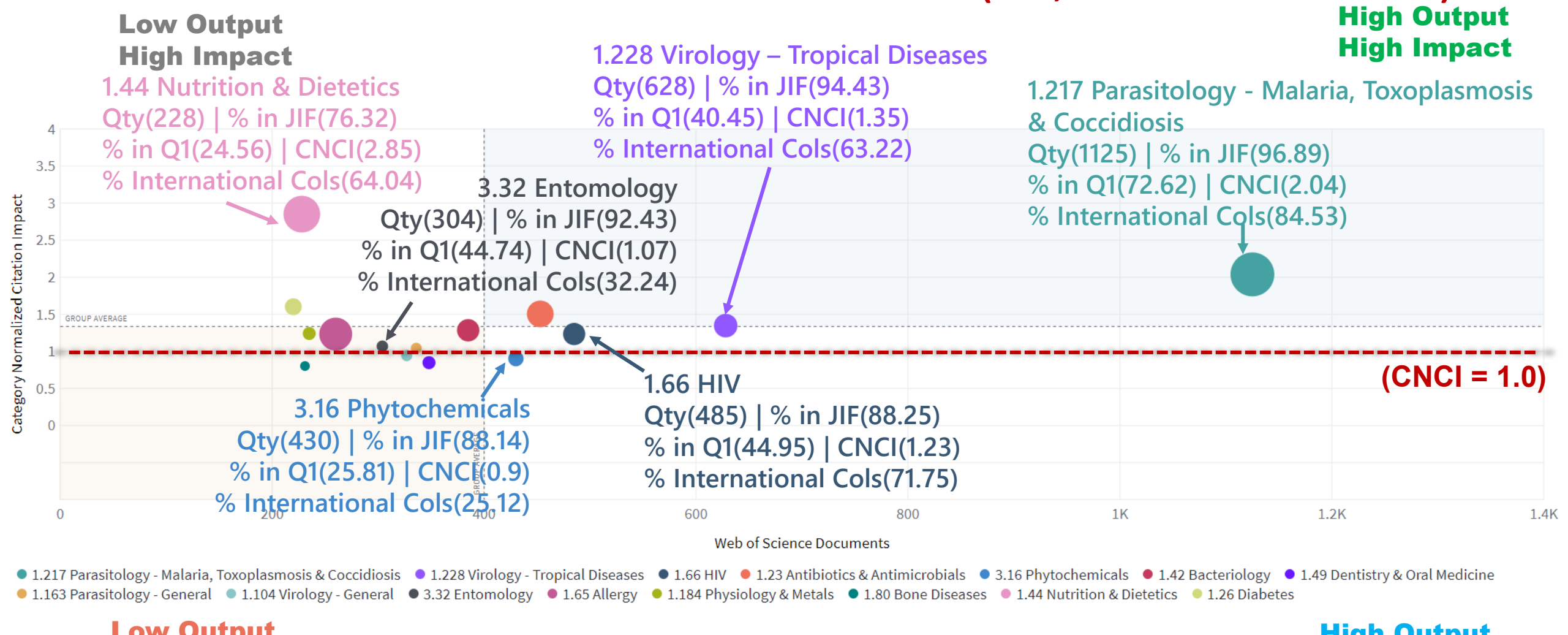
Mahidol University: 10 Broad Research Areas Performance,

2010-2019

Research Area	WOS Docs	CNCI	% Docs in JIF	% Docs in Q1	% Docs in Top 1%	% Docs in Top 10%	% Interntl Collab	% Industry Collab
1 Clinical & Life Sciences	13717	1.242	87.24	35.77	1.69	9.90	53.84	3.64
3 Agriculture, Environment & Ecology	2200	0.897	86.36	31.50	0.77	6.82	38.09	0.73
2 Chemistry	1525	0.795	89.31	38.49	0.39	5.57	34.75	1.70
6 Social Sciences	880	0.831	45.34	13.64	0.23	6.70	40.91	0.11
4 Electrical Engineering, Electronics & Computer Science	486	0.582	24.07	8.64	0.62	5.76	31.07	2.47
5 Physics	210	1.975	84.76	55.71	6.19	18.10	69.52	3.33
9 Mathematics	170	0.820	64.12	27.65	1.76	5.29	53.53	1.18
8 Earth Sciences	142	0.779	74.65	30.28	0.00	4.93	54.93	0.00
7 Engineering & Materials Science	135	0.990	65.19	28.89	0.74	11.85	29.63	1.48
10 Arts & Humanities	28	4.439	42.86	17.86	3.57	10.71	10.71	0.00

Mahidol Uni Top 15 Research Cluster (Meso)

302 of 326 research Clusters (19,493 documents)



Low Output
Low Impact

High Output
Low Impact

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Top 15 Research Clusters (Meso)

Mahidol University published in 302 of the 326 Web of Science Meso Citation Topics

Name	Rank by Qty	Rank by CNCI	Rank by Top 1%	WOS Docs	% Docs in JIF	% Docs in Q1	CNCI	% Docs in Top 1%	% Docs in Top 10%	% Interntl Collab	% Ind Collab
1.217 Parasitology - Malaria, Toxoplasmosis & Coccidiosis	**1**	**4**	**2**	**1125**	**96.89**	**72.62**	**2.04**	**4.89**	**23.02**	**84.53**	**4.53**
1.228 Virology - Tropical Diseases	**2**	**17**	**18**	**628**	**94.43**	**40.45**	**1.35**	**2.23**	**12.74**	**63.22**	**5.25**
1.66 HIV	**3**	**25**	**22**	**485**	**88.25**	**44.95**	**1.23**	**2.06**	**10.93**	**71.75**	**8.45**
1.23 Antibiotics & Antimicrobials	4	11	15	453	94.04	46.36	1.50	2.65	15.01	57.62	2.87
3.16 Phytochemicals	**5**	**43**	**30**	**430**	**88.14**	**25.81**	**0.90**	**1.16**	**6.05**	**25.12**	**0.23**
1.42 Bacteriology	6	19	20	385	96.10	51.95	1.28	2.08	11.17	70.39	1.56
1.49 Dentistry & Oral Medicine	7	45	34	348	76.72	18.10	0.85	0.86	6.32	44.25	0.29
1.163 Parasitology - General	8	35	44	336	93.75	23.21	1.04	0.60	9.52	54.46	1.49
1.104 Virology - General	9	41	42	327	95.11	40.06	0.94	0.61	6.73	47.71	3.98
3.32 Entomology	**10**	**32**	**40**	**304**	**92.43**	**44.74**	**1.07**	**0.66**	**7.89**	**32.24**	**0.33**
1.65 Allergy	11	26	10	260	90.77	24.62	1.23	3.46	7.31	35.00	3.46
1.184 Physiology & Metals	12	23	35	235	93.19	35.32	1.24	0.85	12.34	47.66	14.04
1.80 Bone Diseases	13	50	46	231	89.18	26.41	0.80	0.43	4.76	35.50	1.73
1.44 Nutrition & Dietetics	**14**	**1**	**7**	**228**	**76.32**	**24.56**	**2.85**	**3.95**	**8.33**	**64.04**	**1.32**
1.26 Diabetes	15	10	28	220	81.36	20.91	1.60	1.36	7.27	43.64	3.64

Strength

Potential

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InCites

Analyze | Report | Organize | My Organization

Research Areas | SCHEMA Citation Topics | LEVEL Macro | e.g. Chemistry

Time Period: 2016-2020 | **Schema:** Citation Topics | **Organization Name:** Mahidol University | Clear all filters

Filters | Indicators | Baselines

Narrow the results in the table.

Dataset

InCites Dataset

Include ESCI documents

Publication Date

Last 5 complete years (2016-2020)

InCites dataset updated Jul 30, 2021. Includes Web of Science content indexed through Jun 30, 2021

- **Collaborations with People**
- **Collaborations with Organizations**
- **Collaborations with Locations**
- **Domestic/International Collaboration**
- **Person Name or ID**
- **Organization Name**
- **Location**

TABLE | VISUAL

10 research areas (12,588 documents) — Find in table — **Sorted by** Web of Science

Research Area	Rank	Web of Science Documents	Documents in JIF Journals	Documents in Q1 Journals	% Documents in Top 1%	Category Normalized Citation Impact
1 Clinical & Life Sciences	1	8,911	7,751	3,071	1.66%	1.25
3 Agriculture, Environment & Ecology	2	1,326	1,142	433	0.83%	0.9
2 Chemistry	3	834	762	338	0.48%	0.83
6 Social Sciences	4	672	315	113	0.74%	1.03
4 Electrical Engineering, Electronics & Computer Science	5	327	85	26	0.92%	0.69
5 Physics	6	138	121	76	7.25%	2.34

InCites

Analyze | Report | Organize | My Organization

Research Areas | SCHEMA Citation Topics | LEVEL Macro | 1 Clinical & Life Sciences × | e.g. Chemistry

Time Period: 2016-2020 | **Schema:** Citation Topics × | **Organization Name:** Mahidol University × | **Research Area:** 1 Clinical & Life Sciences × | Clear all filters

Filters | Indicators | Baselines

Narrow the results in the table.

Dataset

InCites Dataset

☑ Include ESCI documents

Publication Date

Last 5 complete years (2016-2020)

InCites dataset updated Jul 30, 2021. Includes Web of Science content indexed through Jun 30, 2021

- Collaborations with People
- Collaborations with Organizations
- Collaborations with Locations
- Domestic/International Collaboration
- Person Name or ID
- Organization Name

TABLE | VISUAL

131 research areas (8,911 documents) | Find in table | Sorted by Web of Science Documents

Research Area	Rank	Web of Science Documents	Documents in JIF Journals	Documents in Q1 Journals	% Documents in Top 1%	Category Normalized Citation Impact	Documents in Top 1%
1.217 Parasitology - Malaria, Toxoplasmosis & Coccidiosis	1	615	602	440	5.69%	2	35
1.228 Virology - Tropical Diseases	2	332	313	124	2.11%	1.01	7
1.23 Antibiotics & Antimicrobials	3	307	290	134	1.95%	1.4	6
1.66 HIV	4	238	211	95	1.26%	0.86	3
1.104 Virology - General	5	225	214	90	0.89%	1.05	2
1.42 Bacteriology	6	215	209	108	1.86%	1.34	4

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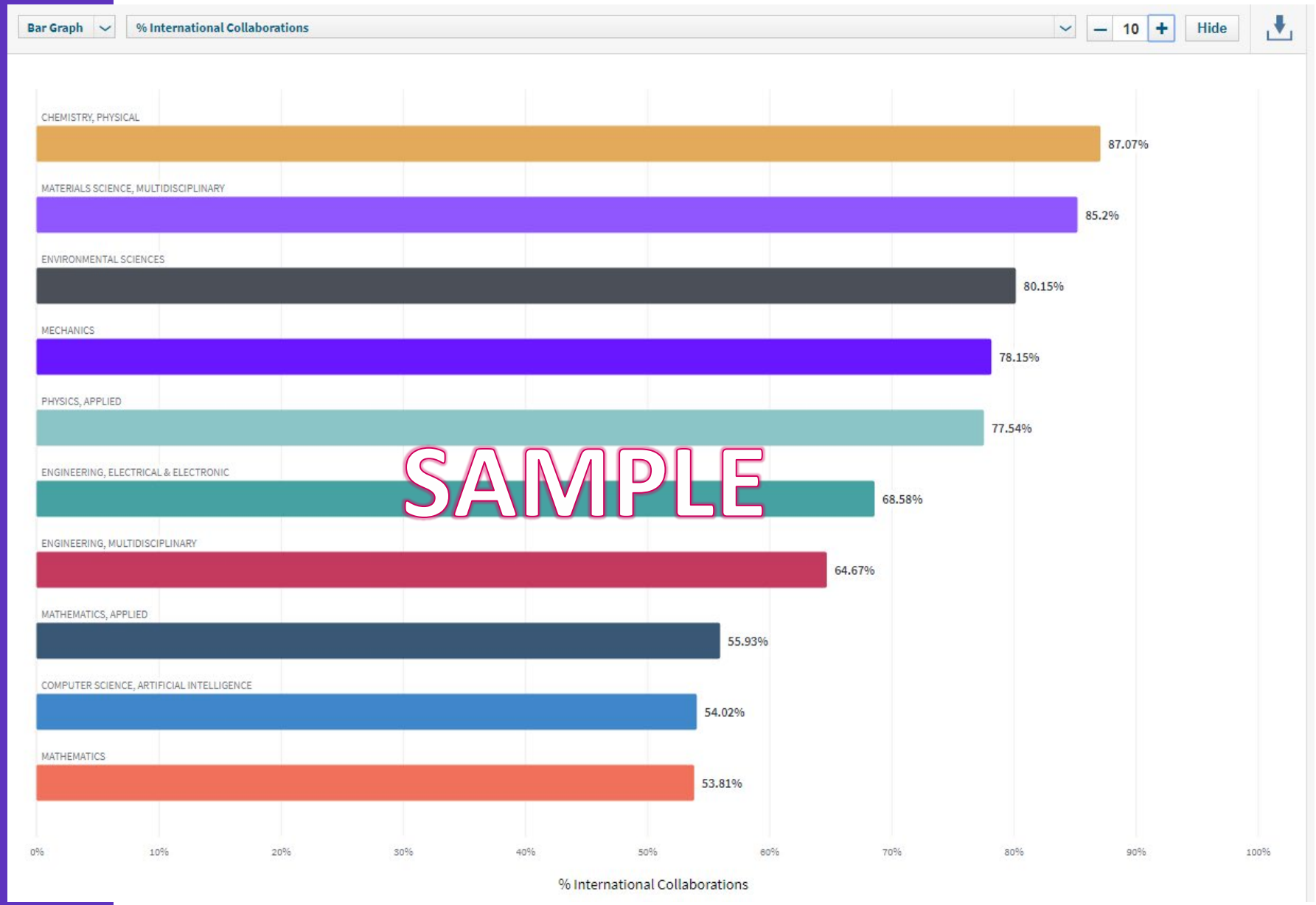
Useful Visualizations

Bar Graph

Useful for:
Productivity Analysis (Volume)



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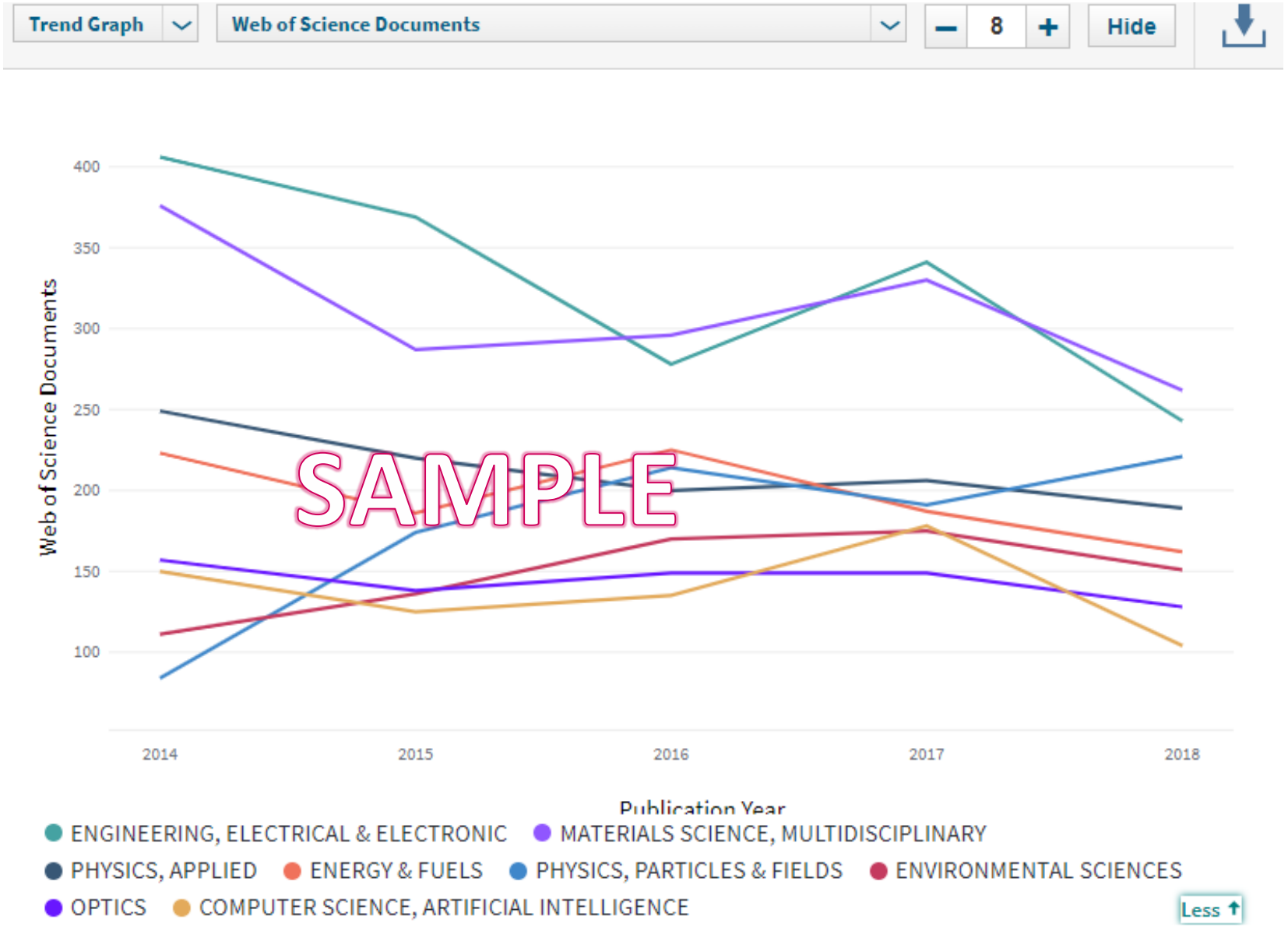
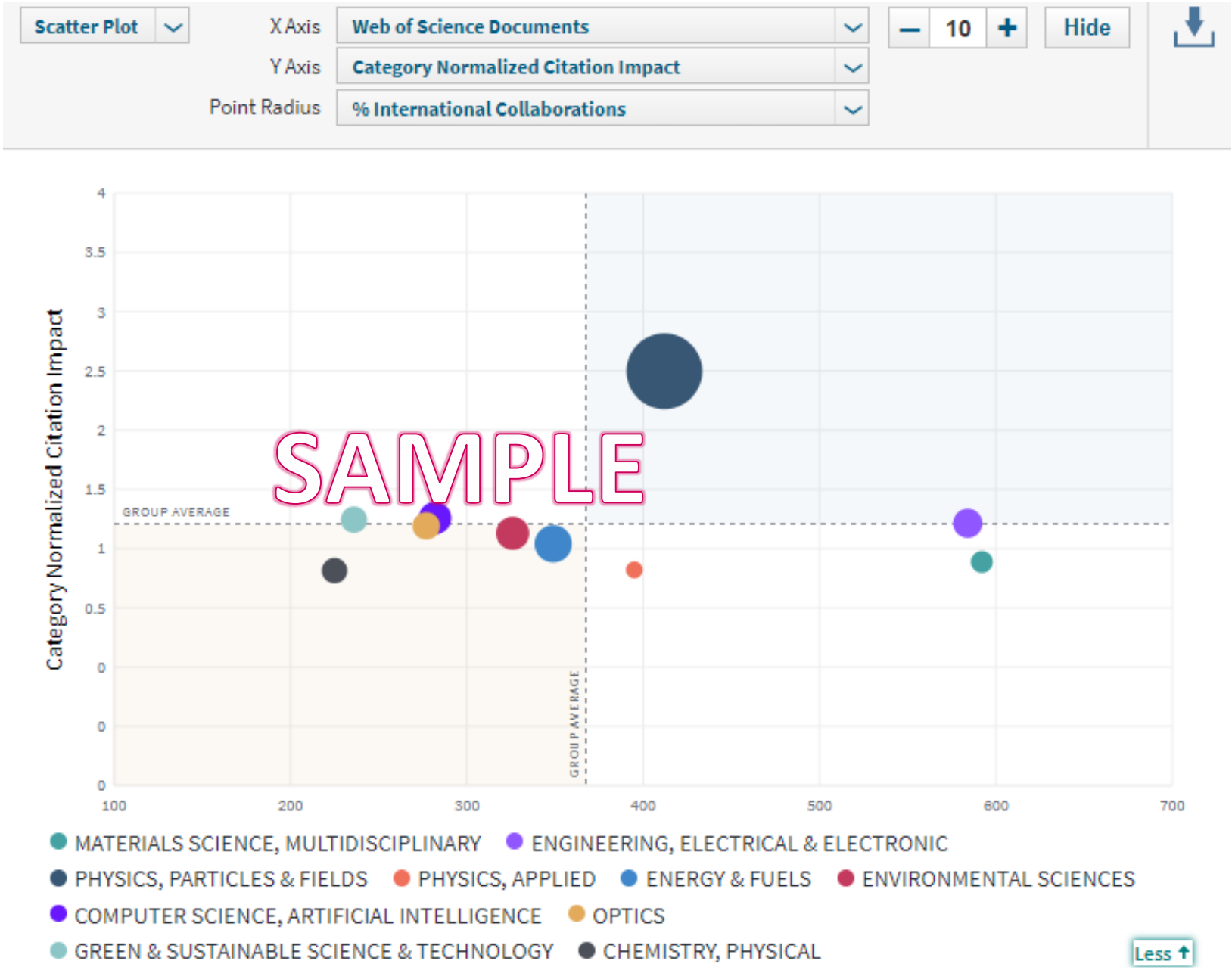
Trend Graph

Useful for:
Yearly look at data points



Scatter Plot

Useful for:
Finding areas of strength and challenge



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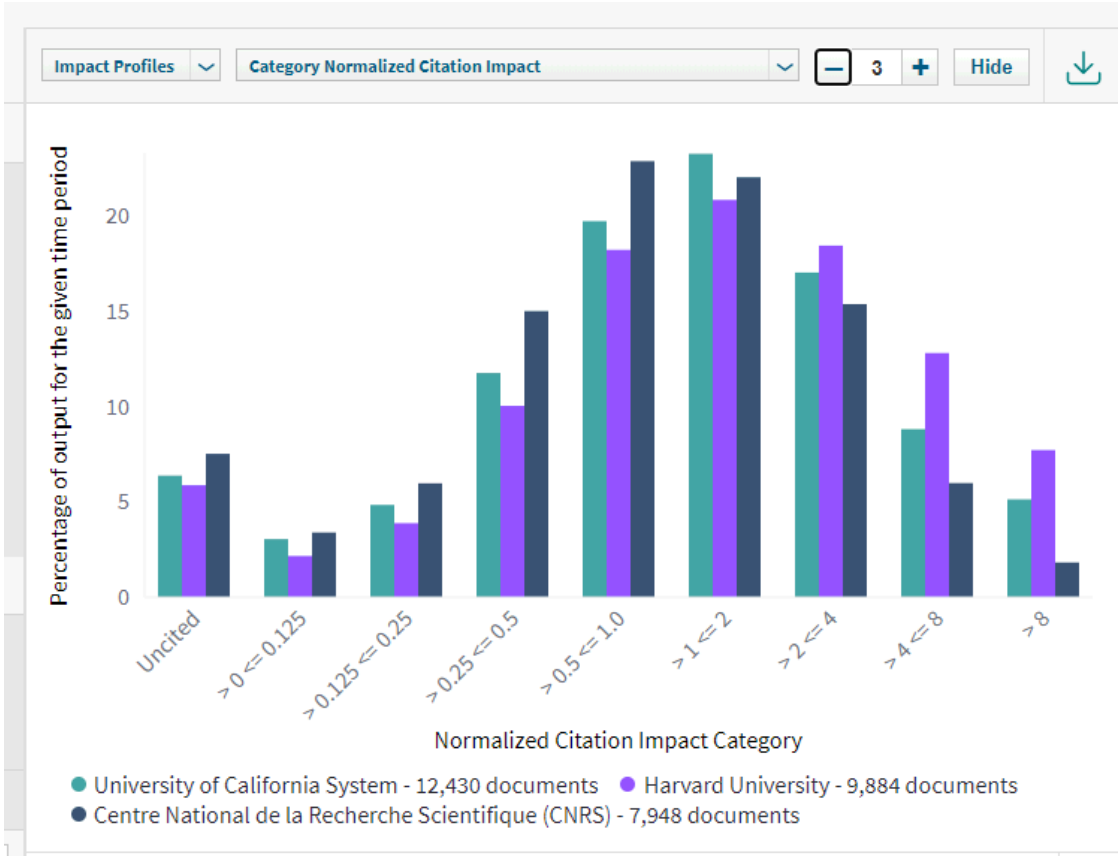
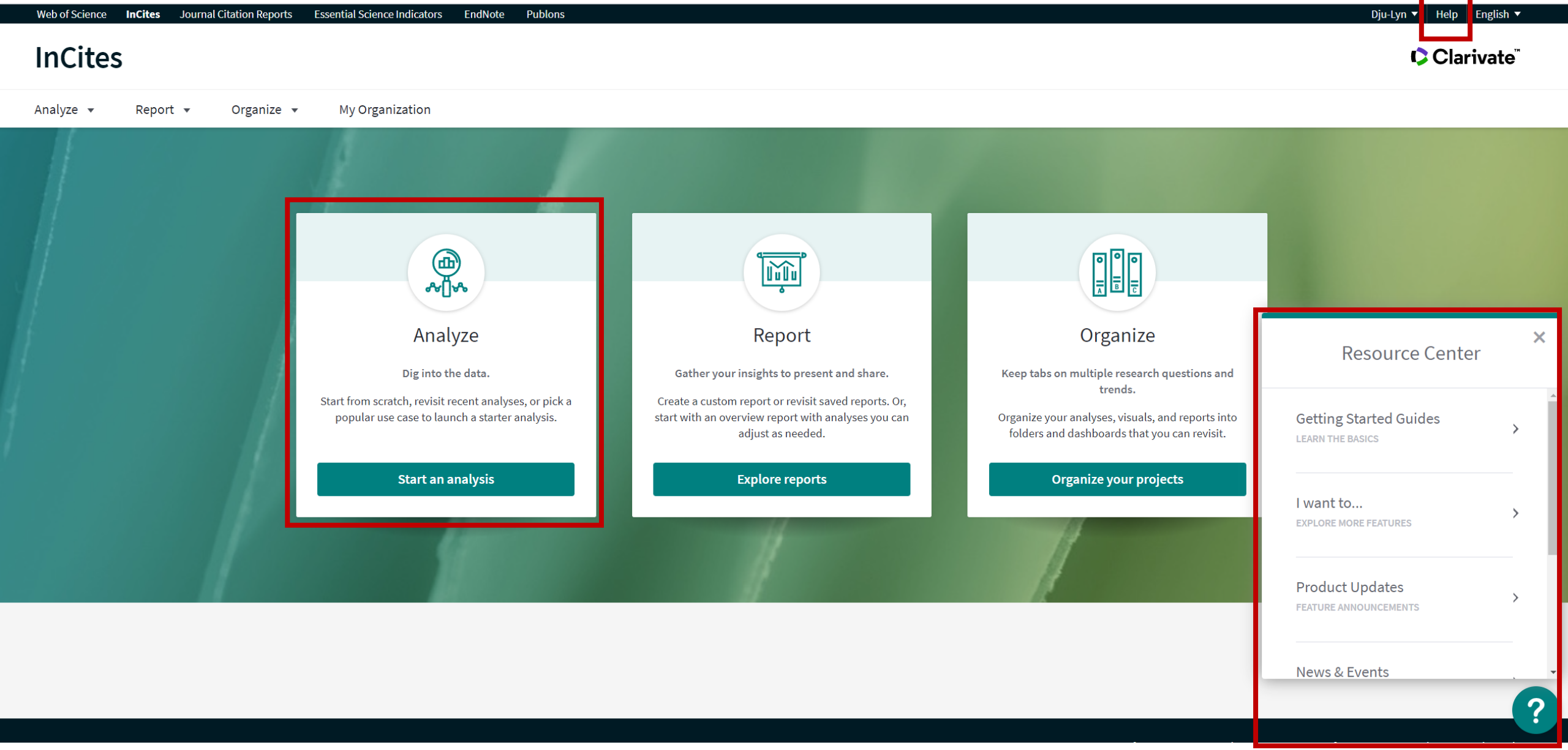
Impact Profiles

Useful for:
Comparing research performance across institutions or researchers

- Impact Profile™ visualizations are available at the levels of Organization, Location, Journal, and Funding Agency entities. This allows you to effectively visualize and compare research performance across multiple entities. Comparison is always a sound path to improved understanding and interpretation.



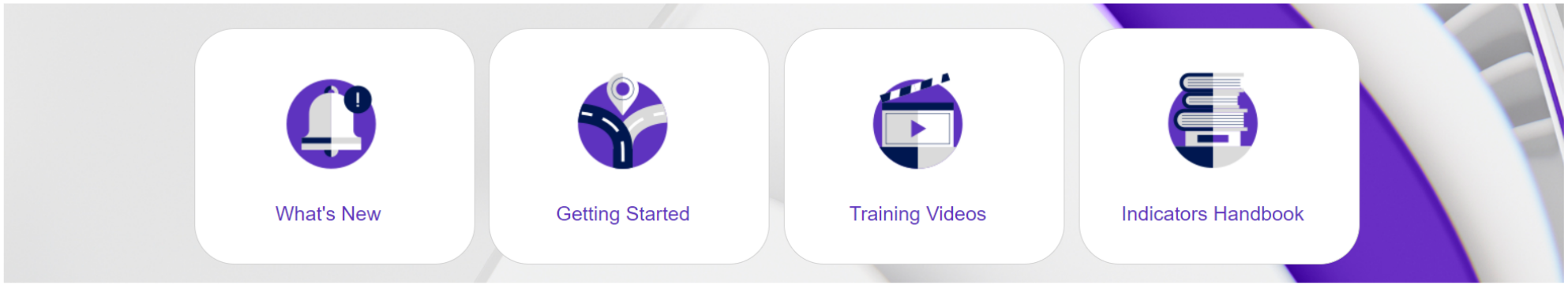
Need Help?


Web of Science
InCites
Journal Citation Reports
Essential Science Indicators
EndNote
Publons
Dju-Lyn
Help
English
InCites
Clarivate
Analyze
Report
Organize
My Organization
Analyze
Dig into the data.
Start from scratch, revisit recent analyses, or pick a popular use case to launch a starter analysis.
Start an analysis
Report
Gather your insights to present and share.
Create a custom report or revisit saved reports. Or, start with an overview report with analyses you can adjust as needed.
Explore reports
Organize
Keep tabs on multiple research questions and trends.
Organize your analyses, visuals, and reports into folders and dashboards that you can revisit.
Organize your projects
Resource Center
Getting Started Guides
LEARN THE BASICS
I want to...
EXPLORE MORE FEATURES
Product Updates
FEATURE ANNOUNCEMENTS
News & Events

Clarivate™
InCites Help

Search

- What's New
- System Requirements
- Registration and Sign-in
- Analyze
- Report
- Organize
- Custom Datasets
- My Organization Module
- Research Area Schemas
- Indicators Handbook
- WoS Author Record (Beta)
- Author Position
- Impact Profile™
- Open Access
- Product Support
- Training



About InCites

InCites is a citation-based evaluation tool for academic and government administrators to analyze institutional productivity and benchmark output against peers and aspirational peers nationally, and internationally. The following are benefits of using InCites.

Research Organizations

- Identify and manage research activities and their impact
- Benchmark and compare performance to peers
- Promote internal and external partnerships and collaborations
- Identify experts both inside and outside the organization
- Promote areas of strength and specialization

Funding and Policy Organizations

- Identify emerging subject areas, researchers, and experts
- Manage funding activity from submission to progress reports through outcomes
- Demonstrate results and impact of funding policy
- Identify new trends and key indicators to enable policy development
- Increase visibility of successes

Quick Guides for InCites

More ways to get started

Pick a popular use case to be guided through a starter analysis, or choose from one of your recent analyses, then adjust as needed.

Learn more about analysis

STARTER ANALYSES

All

Organization performance

Researcher performance

Collaboration

Journal usage

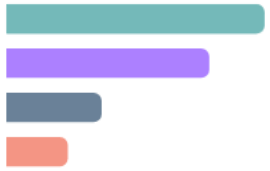
Funding sources

Location output

MY ANALYSES

View all saved analyses

What are the top producing Research Areas at a specific Organization?

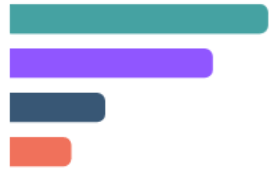


Who are the most-cited Researchers in a Research Area at a specific Organization?

Which Organizations are the world's top performers in a Research Area?

Which Organizations collaborate more frequently with yours and has the most impact?

Which Funding Agencies have funded work in a specific Research Area?



Which are the top Journals in a specific Research Area?

Questions or need more help?

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