

# World University Rankings How to be Number One





# We're Number One!

HKUST

**1** **ST**

ASIAN TOP 200 YOUNG  
UNIVERSITIES, 2017  
(No.2 In the World)

HKUST



**in world young university rankings  
Hong Kong institutions make significant  
progress amid strong showing by Asian  
schools**

**HKUST and City U place second and seventh**

<http://www.ust.hk/about-hkust/rankings/>  
<http://www.scmp.com/news/hong-kong/education-community/article/2084977/hkust-and-cityu-place-second-and-seventh-world>



# Scholarly Communications Seminar

## How to be Number One in the Rankings Game

- Brief history of bibliometrics and rankings
- Setting the Stage – The players and providers
- Basic metrics that are used in rankings
- Overview of major rankings and their indicators
- Higher education system rankings and policy implications

# How I became an Expert

- Went to library school a block from Institute for Scientific Information- Citations introduced in 1961
- Wrote my first article on rankings 30 years ago
- Co-authored a book on international business information over 20 years ago
- Worked closely with faculty on citation matters
- Sat on the Gouzueta Business School (Emory) committee that spent months talking about how to improve the rankings
- As University Librarian at SMU worked closely with university administration, faculty and vendors
- Went to Taiwan ten years ago to be labelled an expert!





# Data Providers Information Users

## Where do metrics & rankings fit in?

Government policy and funding initiatives

Institutional Vision, Mission and Goals;  
Institutional Benchmarking

Faculty and Institutional accountability

School or Department Requirements – hiring, promotion and tenure

Faculty Productivity – publications and citations

Students- Admissions, nationalities, employability



# Sources for Bibliometrics

## COMMERCIAL AGGREGATORS

### **Clarivate Analytics**

Web of Science (WOS) - SCI-e, SSCI,  
A&HCI; Korean, Russian, Chinese

Journal Citation Reports (JCR);

Essential Science Indicators (ESI)

InCites analytical tools

Free highly cited researchers

### **ELSEVIER**

Scopus

SciVal analytical tools

Free Journal Metrics CiteScore

## SPECIALIZED SITES

### **Google Scholar**

Websites

Repositories

Research Gate

Mendeley


Specialized scholar cites

Altmetrics- Social Media


Plum Analytics

# Benchmarking in Incites - Raw Data


**Explore InCites Data**  
Create dynamic tables and graphs based on your needs.




People




Organizations



Regions



Research Areas

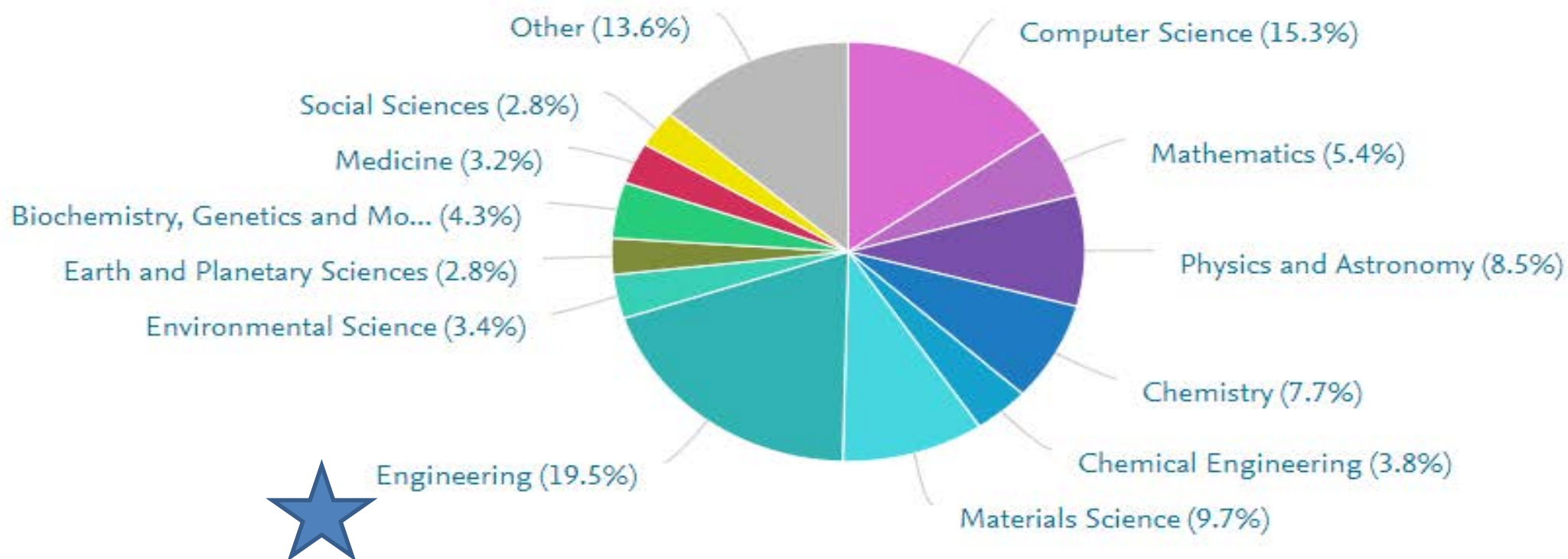


Journals, Books,

	WOS		Category		%	
	DOCS	Citations	Normalized		Docs	
Name			Citation	% Docs	Top	
			Impact	Cited	10%	People
<b>HKUST</b>	<b>10821</b>	<b>99862</b>	<b>1.74</b>	<b>72%</b>	<b>18%</b>	<b>5496</b>
City U	13650	107129	1.6	70%	16.6%	5595
HKPoly	14346	101361	1.36	69.80%	14,6%	7451
NTU SG	29949	310431	1.64	68%	17.1%	15782

Overall research performance (2012-2016) HKUST

Publications Citations Authors Field Weighted Citation Impact







# Ranking Organizations

<b>Consultancies &amp; Research Labs</b>		
QS Quacquarelli Symonds (QS or Top Universities)	Mass Market Students	Composite; 1-400 individual
Shanghai Rankings Consultancy ARWU- Academic Ranking of World Universities	Scholarly	Composite 100 individual
Scimago Labs – SIR Institutional Rankings; Google Scholar ; Webometrics	Scholarly, Mass Market	Composites
<b>Publishers</b>		
Times Higher Education (THE World University Rankings)	Mass Market Students	Composite 200 individual
U.S. News Best Global Universities	Scholarly	Composite
Nature - Nature Index	Scholarly	No composite

<b>University Affiliates</b>		
Centre for Science & Technology Studies – CWTS Leiden Rankings	Scholarly	No composite
National Taiwan University -Performance rankings of academic papers	Scholarly	Composite
<b>European Commission U-Multirank</b>	Mass Market	No composite

# Which should we Believe?

## World's Number One

Number 1	Source	# of universities
Oxford	THE World University Ranking	1102
MIT	QS World –Top Universities	1000
Harvard	ARWU – Academic Ranking ...	800
Harvard	THE World Reputation	1102
Harvard	U.S. News Best Global Universities	1000
Harvard	NTU-TW Scientific Papers	500
Rockefeller Univ	Leiden % top 10 % publications	903
Ch Academy Sciences	Scimago Institutions Rankings	5250
Harvard	Webometrics – Ranking Web	>20,000

# Which should we Believe? HKUST Rankings



Rank	Source	# of universities
<b>1</b>	<b>THE Asian top young university</b>	<b>200</b>
30	QS World 2018	1000
40	THE World 2018	1102
66	Leiden % top 10%	903
164	U.S. News Global	1000
198	Webometrics – Ranking Web	>20,000
201-300	ARWU – Academic Ranking ...	800
243	Scimago Institutional Rankings	2966
294	NTU-TW Scientific Papers	500
347	Leiden publications	903



# Context for HKUST

## HKUST's Vision and Mission



### VISION

To be a leading university with significant international impact and strong local commitment

**Global** – To be a world class university at the cutting edge internationally in all targeted fields of pursuit

**National** – To contribute to the economic and social development of the nation as a leading university in China

**Local** – To play a key role, in partnership with government, business and industry, in the development of Hong Kong as a knowledge-based society

<http://www.ust.hk/about-hkust/hkust-at-a-glance/mission-vision/>



# Context for HKUST



## HKUST's Vision and Mission

### MISSION

- To advance learning and knowledge through teaching and research particularly
  - **in science, technology, engineering, management & business studies and**
  - at the postgraduate level and
- To assist the economic and social development of Hong Kong



# The Metrics - - Bibliometrics

- Publications (how many, what type)
- Citations (how many, what impact)
- Journal Impact Factors (how “good”)
- Collaboration (with whom)

## LEVELS

- Institutions (universities, research institutes, hospitals, etc. )
- Countries ( aggregate metrics, systems)
- Authors (mapping to publications, institutions and countries)

## The measurements

- Totals (number of) – **size dependent**
- Output per faculty – **size independent**
- Percent in top 10%, 1% in subject
- Weighted counts
- **Normalization** - differences among disciplines; among countries
- **Fractionalized** faculty counts (multiple authors)



# How to Increase Citations

- Publish more
- Write reviews or articles
- Collaborate more; collaborate with US authors
- Publish in journals indexed in Scopus or WOS
- Post a list of all publications on your web site and in open repositories
- Use a middle initial, include your complete affiliation and be consistent
- Register at sites for identifier numbers

# Publications, Citations and Authors

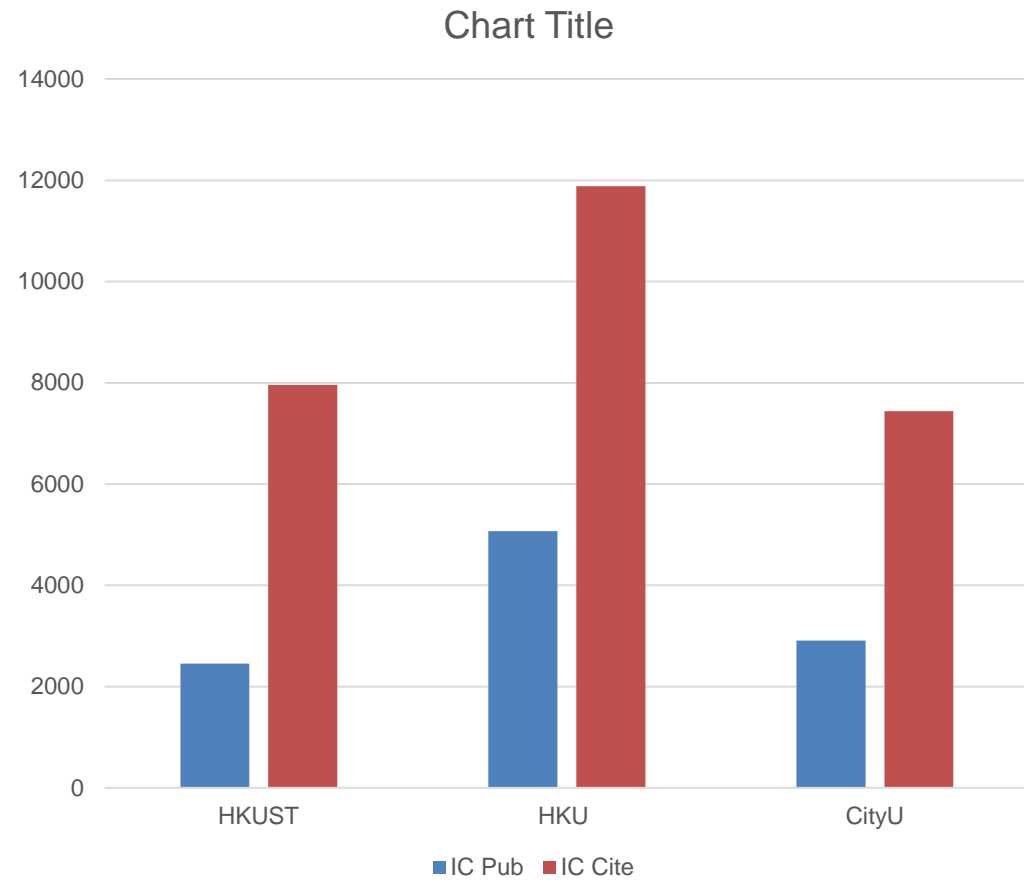
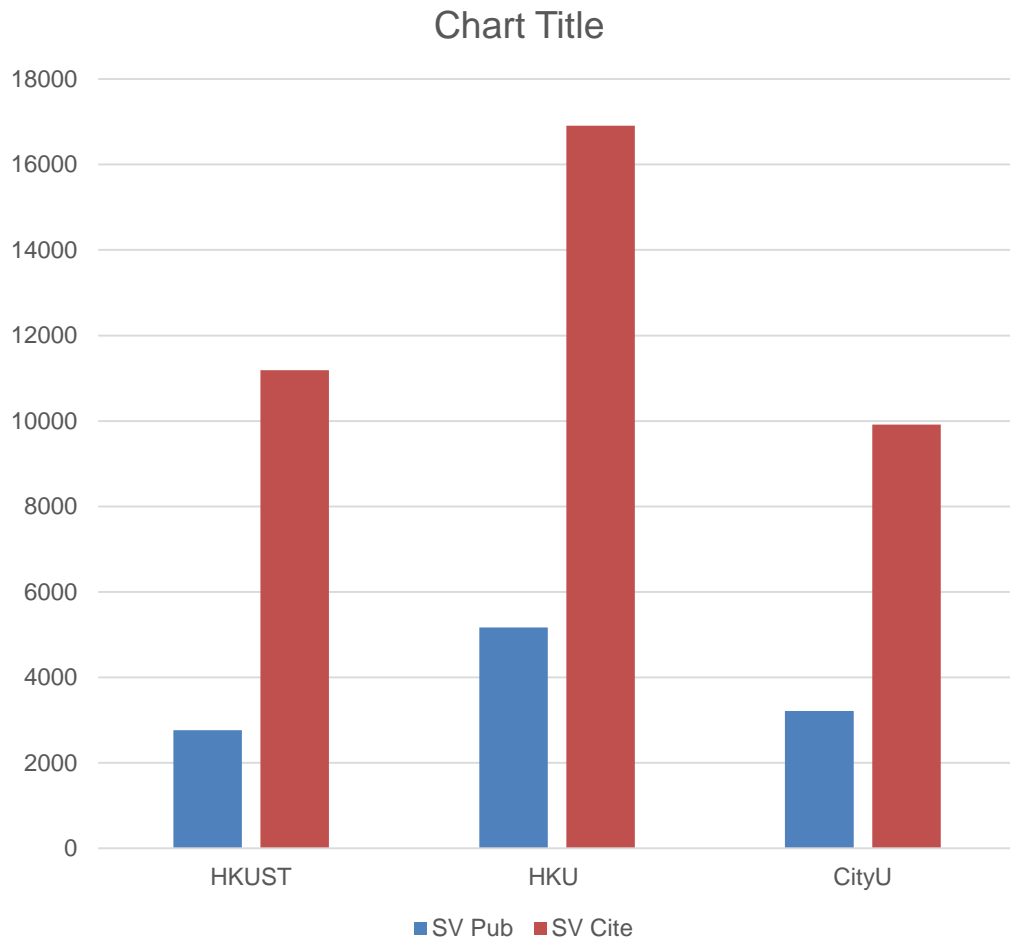
Institution		Pubs	CR	Cites	AR	Authors
Harvard University	1	140641	1	2388572	1	80040
Stanford University	7	63004	2	1029281	15	34404
University of Toronto	2	81239	3	1007470	6	46826
University of Oxford	10	62538	4	931564	27	29511
Johns Hopkins U	11	61498	5	931237	22	32060
U Paris Saclay System	3	76529	10	805390	7	40957
UC London	4	68790	6	890693	19	32922
U de Sao Paulo	5	66056	65	400535	3	54560
Zhejiang University	12	59759	56	431236	4	52980
Peking University	15	56268	28	549194	5	48640

SciVal October 2017; 15 of top 20 in icites from US; 18 from US, UK and Canada





# Relationship of Publications to Citations



# MISCONCEPTION

## Citations are **THE** way to improve rankings

- The Big Three
  - QS – papers in Scopus
  - THE – teaches undergrads;  $\geq 1000$  articles in Scopus; more than one core subject area
  - ARWU – Articles in Nature, Science, SCI-e and SSCI
- Other rankers
  - US NEWS Global – reputation and publications in WOS
  - LEIDEN – number of articles in SCI-e, SSCI and **A&HCI**



# External Non-bibliometric Indicators

- Surveys (QS, THE, US News)
- Researchers' accomplishments (ARWU)
- Web metrics (Webometrics)
- Academic reputation
- Employer reputation
- Regional reputation
- Alumni and staff winning Nobel prize or "Field Medal" [math]
- Number of web pages at a university's domain
- Number of incoming links



## Non-bibliometric indicators from institutional data

- Faculty/student ratio – QS (20%), THE (4.5% in Teaching)
- **International faculty – QS, THE**
- **International students – QS, THE**
- **International collaboration** – QS, THE, Leiden, SIR
- Industry Income - QS
- Research income - THE

# RANK	UNIVERSITY	OVERALL SCORE	ACADEMIC REPUTATION	CITATIONS PER FACULTY	EMPLOYER REPUTATION	FACULTY STUDENT	INTERNATIONAL FACULTY	INTERNATIONAL STUDENTS
2018 ▾	Uni Search 🔍	↓	↓	↓	↓	↓	↓	↓
1	Massachusetts Institute of Technology (MIT)	100	100	99.9	100	100	100	96.1

2004 (with THE)

2018 – 1000 universities

Based on :All papers in **Scopus**

**Citations:** All citations in 5-year period / number of faculty, normalized by subject - **20%**

<https://www.topuniversities.com/university-rankings>

## HKUST in different QS rankings

- World Ranking – 30 / 1000
- **Asia 2018 3/400**
- 50 under 50 2 /250
- Best Student City – HK -11; Singapore 14

# Rank and Scoring Distance - QS Asia 2018

Rank	University	Overall Score	Academic Reputation	Employer Reputation	Faculty/Student Ratio	Papers per Faculty
1	NTU	100	99.9	100	99.5	65
2	NUS	99.9	100	100	98.5	61.1
3	HKUST	98.2	99.6	99.2	77.5	82.8
5	HKU	97.4	100	99.8	99.8	58.1
8	City U	96.6	93.4	83.7	96.8	90.9
In World Rankings 50 universities score 100 in international faculty						

Rank ▲	Name ▼	Overall ▼	Teaching ▼	Research ▼	Citations ▼	Industry Income ▼	International Outlook ▼
1	University of Oxford United Kingdom Explore	94.3	86.7	99.5	99.1	63.7	95.0

2004 (with QS) -2018

208: 1102 universities

Based on  $\geq 1000$  articles in **Scopus Citations** – Number normalized by subject – **30%**

[https://www.timeshighereducation.com/world-university-rankings/2018/world-ranking#!/page/0/length/25/sort\\_by/rank/sort\\_order/asc/cols/scores](https://www.timeshighereducation.com/world-university-rankings/2018/world-ranking#!/page/0/length/25/sort_by/rank/sort_order/asc/cols/scores)

### HKUST in different THE rankings



- World 2018: 44/ 1102
- Asia 2017: 5/298
- Young universities 2017: 2/200
- World Reputation 2017: 71-80

# SAME RANK- SAME SCORE

## World Rank 2018

Rank	University	Overall Score	Teaching	Research	Citations	Industry Income	International Outlook
27	NYU	79.2	73.7	77.4	96.5	37	53.4
27	Peking U	79.2	83	85.1	74.2	100	53
	Weight		30%	30%	30%	2.50%	7.50%
	# of metrics		5 *	3*	1	1	3
* includes reputation							



Top 500 501-800 Methodology Statistics					
World Rank	Institution*	By location All	National Rank	Total Score	Score on Alumni
1	Harvard University		1	100.0	100.0
2	Stanford University		2	76.5	44.5

2003-2017

Bibliometrics from **Clarivate Analytics**,  
Based on articles in **SCI, SSCI** and Nature  
and Science in Web of Science(40%)

**Citations:** Number highly cited in Essential  
Science Indicators **20%**

Nobel prizes and other prizes (30%)

<http://www.shanghairanking.com/ARWU2017.html>

HKUST 2017: 201-300/800 (same  
rank since 2003)

Engineering : 31

Computer Science: 39

Economics & business 50

In 2017 ARWU added HK as a location

Added 300 more universities and

Added new subject areas, mainly in

Engineering

# Ranking and Scoring Distance - ARWU

World Rank	Institution	National Rank	Total Score	Alumni
1	Harvard	1	100	100
2	Stanford	2	76.5	44.5
3	Cambridge	1	70.9	81.4
4	MIT	3	70.4	68.7
5	UC Berkeley	4	69.1	64.4

<http://www.shanghairanking.com/ARWU2017.html>



# Best Global Universities Rankings

**Rankings Search**  
[Reset search criteria]  
**Region**  
Select region

Showing 1-10 of 1000 schools sorted by Global Rank

#1 **Harvard University** **100**  
Global Score  
United States Cambridge, MA

2014- 2018 – shows current year  
From **Clarivate Analytics**, Number  
of articles, reviews & notes; books  
and conferences (total 15%)  
Citations – numbers and percent –  
including top 1% and 10% (total 60%)

HKUST 152 /1000  
Asia – 14/ 444  
Computer Science 21  
Engineering 29  
Materials Science 22  
Economics & Business 41

Time period: 2012–2015

Field: All sciences

Region/country: World

Min. publication output: 100

Type of indicators: Impact

Indicators: P, P(top 10%), PP(top 10%)

Order by: P(top 10%)

Calculate impact indicators using fractional counting ?

University	P	P(top 10%)	PP(top 10%)
346 China Univ Geosci	3248	313	9.6%
347 Hong Kong Univ Sci & Technol	3240	464	14.3%
348 Trinity Coll Dublin	3232	419	12.9%

2011-2012 to 2017

2017- 903

**No composite;** 100% bibliometrics

<http://www.leidenranking.com/ranking/2017/list>

HKUST (HK incl. In China




World publications: 371

Number in top 10% -227

**% in top 10% - 68 – size independent**

# Scimago Institutions Rankings

## All sectors

1 (1)	Chinese Academy of Sciences *	CHN	
2 (2)	Centre National de la Recherche Scientifique *	FRA	
3 (3)	Harvard University	USA	

2009- 2017  
2017 5250 institutions incl. 2966  
ranked higher ed institutions  
Based on publications in **Scopus**  
(8%)  
**Various citation metrics: 45%**

HKUST  
World 2017: 305;  
Academic 2017: 243  
Highest rank in 2009

<http://www.scimagoir.com/rankings.php?year=2011>

21 institutions

ranking	<u>World Rank</u> ▲	<u>University</u>	<u>Det.</u>	<u>Presence Rank*</u>	<u>Impact Rank*</u>	<u>Openness Rank*</u>	<u>Excellence Rank*</u>
1	94	<a href="#">University of Hong Kong</a>	»	229	139	103	97
2	139	<a href="#">Chinese University of Hong Kong</a>	»	77	194	159	144
3	198	<a href="#">Hong Kong University of Science &amp; Technology</a>	»	337	257	153	225
4	202	<a href="#">City University of Hong Kong</a>	»	478	371	154	167

- “It should be noted that the aim of the ranking is to promote Open Access, not to classify websites, so your priority should be to involve **everybody** in your organization in the generation and publication of web contents and not on the insane task of monitoring the ranks. ” [http://webometrics.info/en/Previous\\_editions](http://webometrics.info/en/Previous_editions)

2016	University	WFC 2015	WFC 2016	AC	Change WFC
147	Hong Kong University of Science and Technology (HKUST), China	76.21	78.97	253	3.6% ↑
194	The University of Hong Kong (HKU), China	57.6	62.99	296	9.4% ↑

Annual Index – lists top 500  
 Search by country for complete list  
 From *Nature* and *Science*  
 Not normalized but fractionalized

HKUST – 147 annual  
 HKU – 194 annual  
 5 in top 500  
 HK with mainland China



# Factors Contributing to Rankings

## “Time” and Age



Date range of the publications

19 of the top 20 universities in ARWU founded before 1900

Longer time span, better for larger, older world institutions

Better for reputation

Better for non-scientific fields

Subject differences in “half life “ of citations

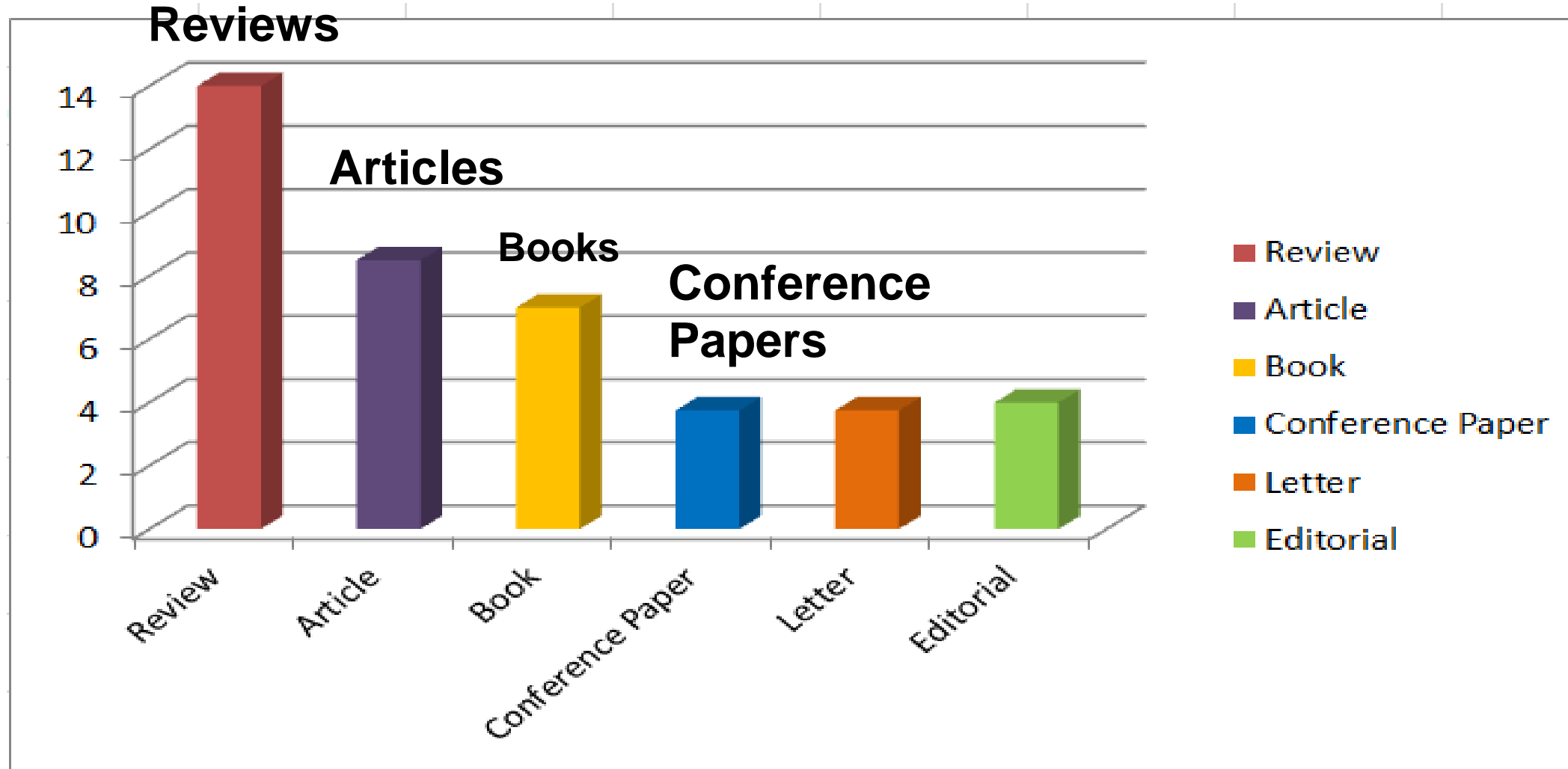
Does University Age Count?

[http://meta.umultirank.org/fileadmin/downloads/Newsletter/2015/November/Readymade\\_Rankings\\_by\\_University\\_Age\\_Story.pdf](http://meta.umultirank.org/fileadmin/downloads/Newsletter/2015/November/Readymade_Rankings_by_University_Age_Story.pdf)



# Factors contributing to Rankings

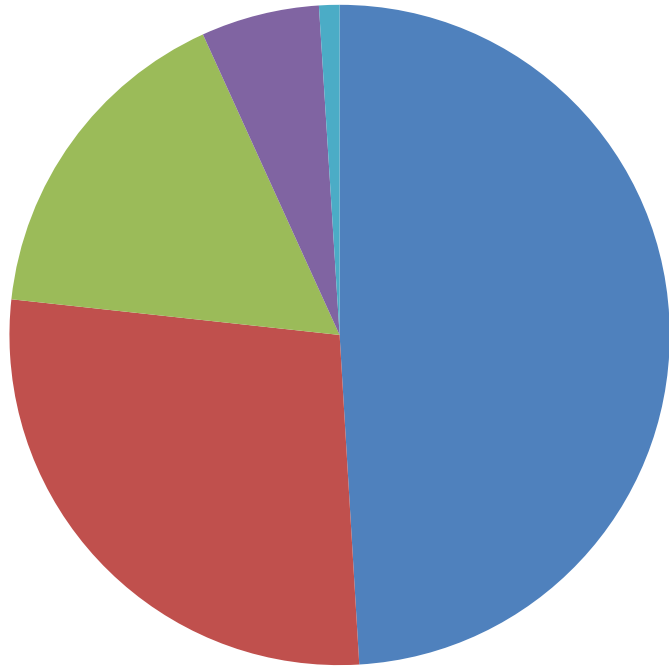
## Publication Type





# Factors Contributing to Rankings

## Broad Subject Areas



WORLD		HKUST
Life Science and Medicine	49.1%	
Natural Sciences	27.6%	
Engineering & Technology	16.5%	48.3%
Social Sciences	5.8%	
Arts & Humanities	1%	

Data from Scopus

# ESI Highly Cited

	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	<b>CLINICAL MEDICINE</b>	2,589,800	32,381,665	12.50	25,493
2	<b>CHEMISTRY</b>	1,631,432	22,773,683	13.96	16,330
3	<b>PHYSICS</b>	1,088,978	11,942,859	10.97	10,784
4	<b>BIOLOGY &amp; BIOCHEMISTRY</b>	701,873	11,367,999	16.20	7,040
5	<b>MOLECULAR BIOLOGY &amp; GENETICS</b>	441,547	10,551,074	23.90	4,435
6	<b>NEUROSCIENCE &amp; BEHAVIOR</b>	492,990	8,693,441	17.63	4,945
7	<b>MATERIALS SCIENCE</b>	750,331	8,552,728	11.40	7,415
8	<b>ENGINEERING</b>	1,152,029	8,007,166	6.95	11,530
9	<b>PLANT &amp; ANIMAL SCIENCE</b>	700,149	6,294,680	8.99	6,980
10	<b>SOCIAL SCIENCES, GENERAL</b>	850,718	5,541,544	6.51	8,496



# Limitations of Rankings

- Limited number of institutions
- Fixed time periods
- **A composite rank based on pre-set weights**
- Annual updates
- A composite rank based on scores but no data
- Individual scores by indicator but no composite rank
- Inclusion by number of articles from fixed sets of publications
- Fixed regional comparisons
- Fixed and limited subject categories
- No downloading
- No customization
- Emphasis on science and technology
- English language bias
- Lack of comparability among rankers
  - Different definitions of indicators
  - Different "publications" sources
  - Different target audiences



# Sources for Non-U Data/Rankings

- Incites –Prince of Wales Hospital
- SciVal –Queen Elizabeth Hospital
- Scimago IR – Prince of Wales Hospital
- Webometrics –Hospitals, Business Schools, Research Centers  
Hong Kong: Hospital Authority, HK Institute of Marketing
- Nature – Hong Kong is under China ; need to recognize name



## New Metrics

Usage and views from Scopus and Web of Science

CiteScore free journal ratings

Altmetrics in Nature Index

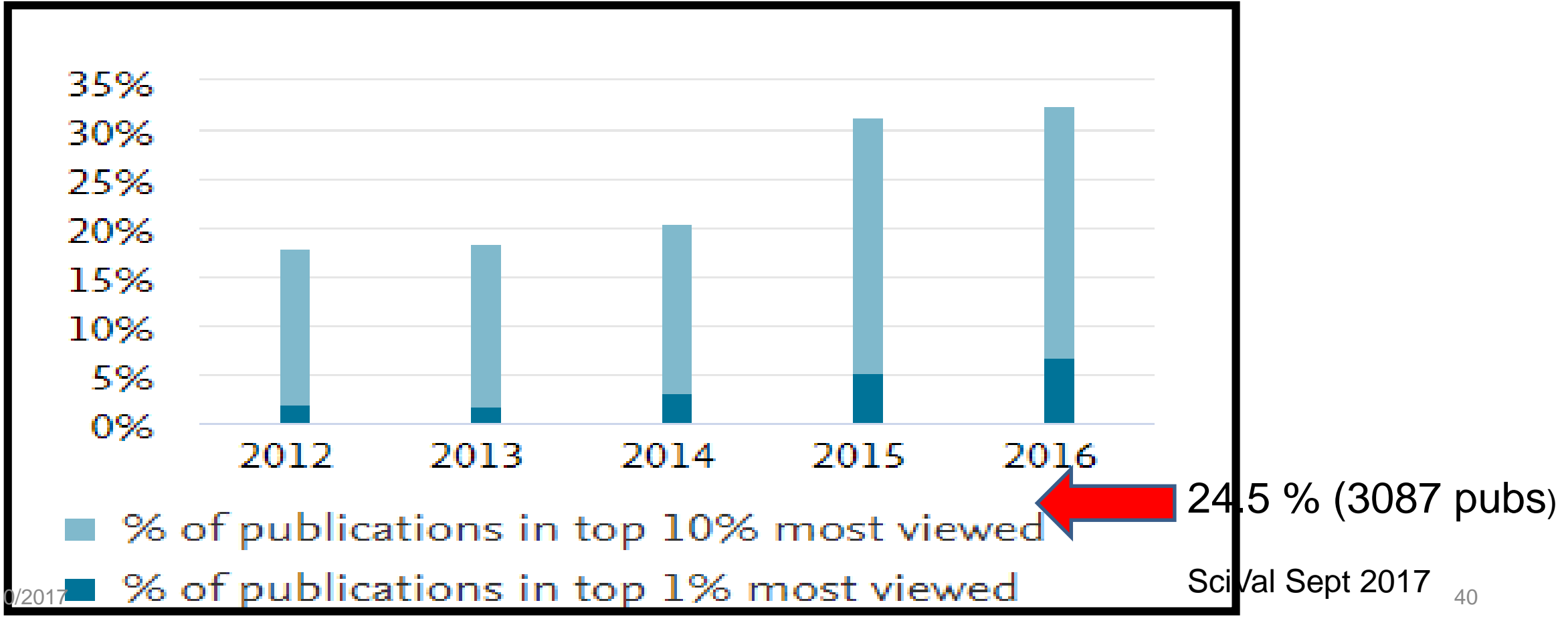
Plum Analytics – PlumX from Scopus



# New Metrics Scopus Top Views

## HKUST VIEWED- in top views percentiles

Share of publications at HKUST that are among the most view publications worldwide



# New Metrics – Usage Count - WOS

 [Analyze Results](#)

- 1. **Procurement management using option contracts: random spot price and the portfolio effect**

By: Fu, Qi; Lee, Chung-Yee; Teo, Chung-Piaw

IIE TRANSACTIONS Volume: 42 Issue: 11 Pages: 793-811 Article

Number: PII 927000540 Published: 2010



**Times Cited: 52**

*(from Web of Science Core Collection)*

**Usage Count** ^

Last 180 Days: 0

Since 2013: 32



# New Metric – CiteScore

	<b>Cite Score</b>	<b>Highest CS Percentile</b>	<b>CS Rank</b>	<b>Cite 2016</b>	<b>Docs 12-15</b>	<b>% cited</b>	<b>SNIP</b>	<b>SJR</b>
Ca-A Cancer for Clinicians	89.23	99%	1/117	11957	134	72%	67.56	39.29
Chemical Review	42.49	99%	1/354	33796	794	97%	10.37	19.28

SNIP: Source Normalized Impact per Paper – field differences from CWTS



SJR: SCImago Journal Rank – can find journals by country

<https://journalmetrics.scopus.com/>

# 2017 Annual Tables - Altmetrics

## World scores

AC	FC	WFC
245	82.32	82.19

Subject	AC	FC	WFC
 Physical Sciences	133	41.12	40.98
 Chemistry	115	42.72	42.72

Sub-wavelength InAs quantum dot micro-disk lasers epitaxially grown on exact Si (001) substrates

Journal: *Applied Physics Letters*

Published: 2016-05-30

DOI: [10.1063/1.4952600](https://doi.org/10.1063/1.4952600)

Affiliations: 5

Authors: 8



## See more details

-  Picked up by **18** news outlets
-  Blogged by **3**
-  Tweeted by **8**
-  On **2** Facebook pages
-  Mentioned in **3** Google+ posts
-  **24** readers on Mendeley

<https://www.natureindex.com/article/10.1063/1.4952600>



# New Metrics – Plum Analytics in Scopus

## Procurement management using option contracts: random spot price and the portfolio effect

Citation data: IIE Transactions, ISSN: 0740-817X, Vol: 42, Issue: 11, Page: 793-811

### Scopus Metrics

Citation Count

**64**

Cited by in Scopus

Field-Weighted Citation Impact

**4.52**

Citation Benchmarking

96th percentile

Compared to Engineering articles of same age and document type

### USAGE **10797**

Abstract Views	9654
PDF Views	882
HTML Views	248
Link-outs	13

### CAPTURES **184**

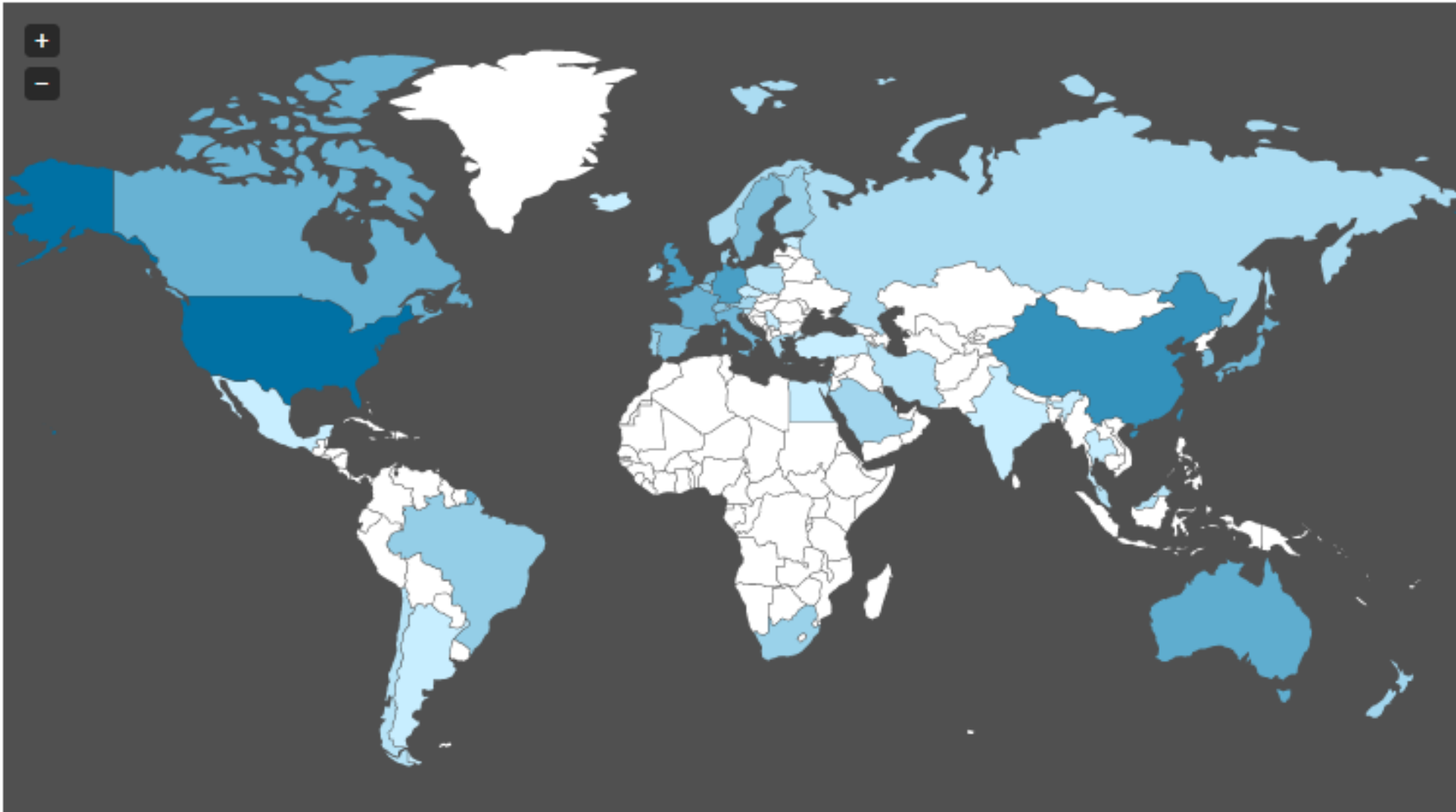
Exports-Saves	141
Readers	43

### CITATIONS **64**

Citation Indexes	64
------------------	----

May also include mentions and social media : <https://plumanalytics.com/>

# The Geography of Research





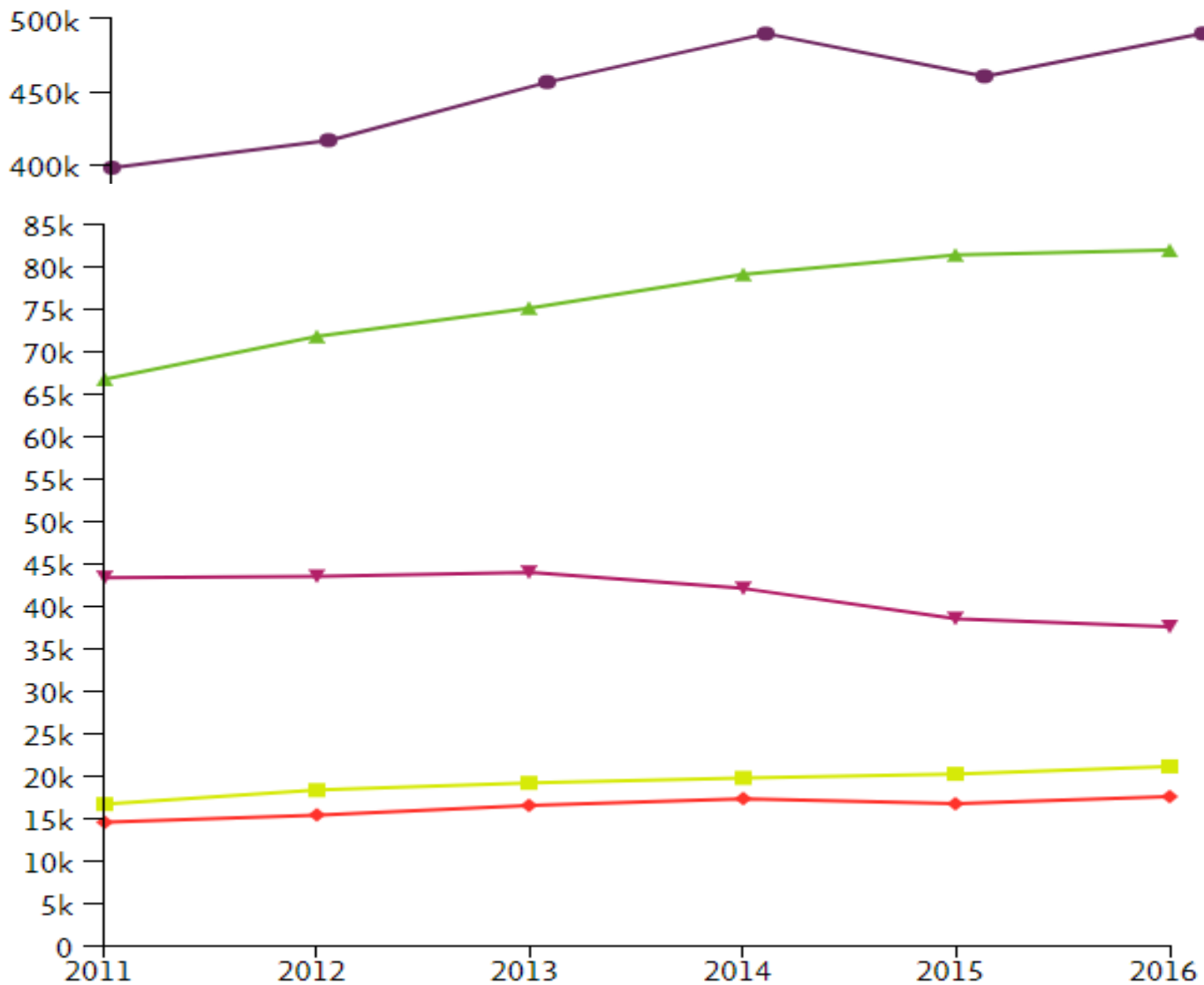
# Country Performance Metrics Globalisation or Massification

- Research & Development (US NSF)
- U21 – National Education Systems, QS,
- PISA and TIMSS – performance of pre-tertiary students in math, science and reading
- Innovation – World Intellectual Property Organization-  
Global Innovation Index 2017

[http://www.wipo.int/pressroom/en/articles/2017/article\\_0006.html](http://www.wipo.int/pressroom/en/articles/2017/article_0006.html)



# SciVal Benchmarking of Scholarly Output 2011-2016



Countries and Groups	Output
China	490,000
Hong Kong	17,504
Singapore	21,058
South Korea	81,660
Taiwan	037,502

# Ranking higher education systems –U21 2017

Composite ranks and scores for 2012 and 2017 with 2017 individual measures

RANK		Country	SCORES		1R	2E	3C	4O	5ED	6QS
2017	2012		2017	2012	20%	20%	20%	40%		
6	11	Singapore	80.8	75.4	4	4	8	12	20	21
14	18	Hong Kong	73.7	68.9	12	6	11	22	26	20
20	20	Japan	63.2	66.1	24	22	25	15	36	10
21	21	Taiwan	60.7	62	29	10	22	24	38	17
22	22	Korea	59	60.2	21	43	30	18	34	9
30	39	China	52.7	48.3	43	19	45	21	14	8

U21 2017:-links to all reports

<http://www.universitas21.com/article/projects/details/152/u21-ranking-of-national-higher-education-systems-2017>

**1R Resources:** Expenditures on R&D and higher education

**2E Environment:** Diversity, data quality, policy

**3C Connectivity:** International students, collaborations, webometrics

**4O Output:** Publications, citations, world class universities

**5ED Economic Development:** Reranked based on level of economic development

**6QS [QS Higher Education](#)** System rankings based on the universities in QS world rankings



# Know your Country's Policies Education and Evaluation

- **Support increase in post-secondary opportunities**
- **Developing HK as a regional education hub**

[University Grants Commission \(UGC\)](#)

[Research Assessment \(RAE\)](#)



“the post-secondary education system is in good health, as evidenced by, amongst other things..... the high rankings achieved by a number of Hong Kong universities in international league tables.”

**Internationalisation** ...should become one of the central themes of all UGC-funded institutions.... a focus on internationalisation does not mean that our institutions should neglect or lose sight of the significance of our traditional values and local needs.”

Aspirations for the higher system in Hong Kong, December 2010, pgs. 9,12  
<http://www.ugc.edu.hk/eng/ugc/about/publications/report/her2010/her2010.html>



# REVIEW: Rankings highlights and low lights

1..QS -1000

2.THE- 1102

3. ARWU -800

4. USNews Global-1000

5. Leiden – 903

6. SIR – 5250

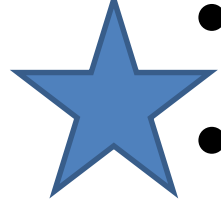
7. NTU - TW 800

8.. Nature – Top 500

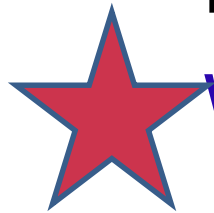
1. 50% reputation; re-rank by indicator; spinoffs; different metrics and weights for regional ranking
2. 33% reputation; 200 individual ranks; spinoffs with marginal differences from world rankings
3. Nobel prize winners; 100 individual ranks; includes non-ranked universities in subject ranking
4. 25% reputation; all ranked; 45% size independent; displays only rank & score; no table with metrics
5. No composite; all ranked for each indicator; size dependent and size independent
6. 2966 in higher ed; unusual categories and results
7. 80% size dependent
8. Only natural sciences; size dependent;



# Review - How to be number 1 in something



- Read the methodology for the rankings
- Drill down into the rankings to see scores and data, if available; [ explore ] the institution for more information
- Remember that size, age, subject, language, type matter
- Look beyond the “big three” (QS, THE and ARWU)
- Focus on a strong subject
- Be consistent in authors’ names and affiliations
- List your articles in as many places as possible



Work in an institution with government support to be #1

# 21<sup>st</sup> Century Issues In Higher Education Related To Rankings

## **The geopolitics of higher education: globalization or massification?**

**What is the impact of rankings on the university's research  
and teaching roles?**

**To whom are faculty and the institution accountable?**

**School or Department Requirements – What is the role of  
social media?**

**Faculty publications: What is the future of the journal  
and the book as scholarly objects?**

**Students- How do you balance the push for international  
students with the pull of local students?**



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SEE: Ruth's Rankings in Access

<http://librarylearningspace.com/ruths-rankings-1/>