



## **SUBJECT RANKINGS 2022**



### WELCOME TO THE 2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's fact file for the OS World University Rankings by Subject 2022.

This file provides the results for your institution in the subjects and broad subject areas where you have been nominated for evaluation in our academic reputation survey, as well as the scores and ranks for those subjects where you made it into the published rankings table. It should also provide you with useful information for any media communication you might need to prepare prior to launch.

To produce the rankings for this year the team analysed over 14.7 million unique papers, producing close to 96 million citations. 1543 institutions ranked across 51 subjects in 5 broad subject areas, creating over 17,700 ranked entries. These figures reflect some of the scale behind this huge undertaking that the team carries out in order to produce these subject rankings.

The table shows a summary of your scores in all the subjects and broad subject areas you have been analysed in, as well as ranks in all the subjects and broad subject areas you are to be published in. The following table then shows you your results in the subject rankings for the last three years so you can track your progress.

This year, as we communicated in an email sent on March 2nd, we introduced International Research Network as an indicator for the broad subject area rankings. QS believes that research conducted with global partners is of immense value, and this metric serves to further shine light on institutions who are working cooperatively with international partners to add value to the global bank of research. You can find more on this indicator here:

https://support.gs.com/hc/en-gb/articles/360021865579-International-Research-Network-IRN-

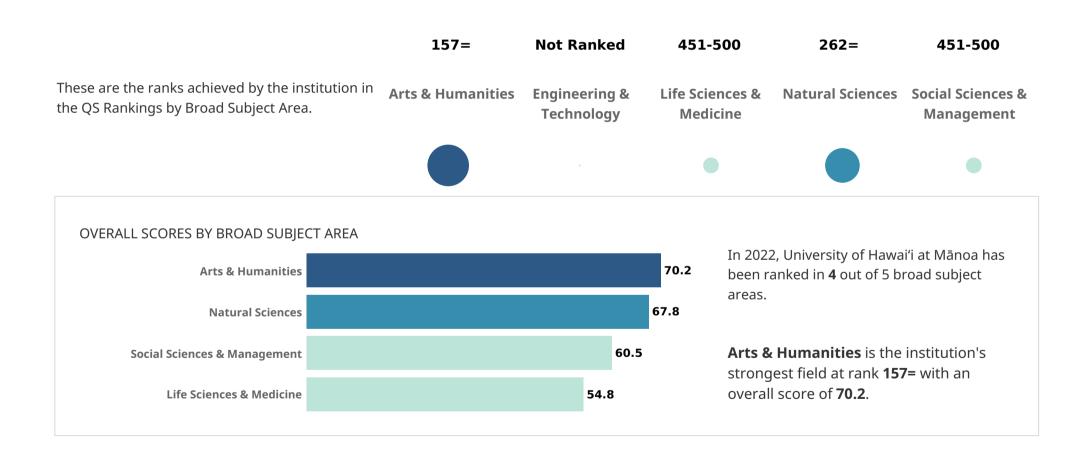
In the Appendix you will find an explanation of the weightings that make up the different subject tables, the evolution of the subject rankings exercise, the paper thresholds that we have used in this edition and an indication of the number of institutions analysed and ranked.

We hope you will find this useful.

Rankings Team, QS Intelligence Unit

# **UNIVERSITY OF HAWAI'I AT MĀNOA**

**United States** 



Below is the institution's detailed performance by indicator and overall score across all the subjects and broad subject areas that you have been nominated for in our academic reputation survey. It is very unusual for an institution to be analysed in all 51 narrow subjects and 5 broad subject areas.

The indicator International Research Network (IRN) has a score at broad subject level only.

There are different reasons why an institution may not have results in any given subject.

- 1. It may not offer a program. Receiving a score for a particular subject does not guarantee that we have checked for its presence in your institution. These checks are only carried out for institutions with a score high enough to receive a published rank in the subject.
- 2. It may not have published a sufficient number of papers.
- 3. It may not have attracted a minimum level of recognition through our surveys.
- 4. Score is not high enough to receive a published rank.

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score	IRN
	Arts & Humanities	157=	41	73.2	66.3	77.8	66.3	70.2	45.0
	Archaeology	201-230	44=	54.2	38.5	77.5	67.4	56.3	
	Architecture / Built Environment			24.2	57.8	76.3	71.3	37.5	
ies	Art & Design			42.0	51.1			42.9	
lanit	English Language & Literature	151-200	43=	65.2	60.0	64.4		64.6	
L L	History			52.5	35.8	74.4	62.1	55.6	
Arts & Humanities	Linguistics	34	12	81.0	57.0	75.3	73.3	77.9	
Art	Modern Languages	101-150	22=	72.6	61.9			69.4	
	Performing Arts			36.0	26. <mark>1</mark>			34.0	
	Philosophy			46.5	50.8	63.0	56.2	49.3	
	Theology, Divinity & Religious Studies			36.2	49.3	56.8	54.4	41.4	
ogy	Engineering & Technology			46.5	58.7	85.4	71.1	58.1	62.0
Technology	Computer Science & Information Systems			25.8	45.7	63.8	56.8	42.1	
Fech	Engineering - Chemical			15.2	43.2	70.3	58.1	38.3	
	Engineering - Civil & Structural			28.6	41.8	68.7	58.7	43.1	
Engineering &	Engineering - Electrical & Electronic			30.6	43.6	75.4	65.4	46.4	
jinec	Engineering - Mechanical, Aeronautical & Manufact			31.4	51.6	61.7	57.4	45.9	
Eng	Petroleum Engineering								

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score	IRN
& Medicine	Life Sciences & Medicine	451-500	117=	44.7	61.2	71.5	55.9	54.8	54.00
	Agriculture & Forestry	201-250	42=	34.5	55.9	88.8	83.9	57.4	
	Anatomy & Physiology			40.6	46.6	70.4	69.5	55.9	
	Biological Sciences	451-500	109=	44.5	43.3	81.2	63.3	58.3	
es	Medicine	501-550	103=	25.1	46.8	87.5	60.5	51.7	
suc.	Nursing								
Sciences	Pharmacy & Pharmacology								
Life	Psychology			48.5	54.7	75.5	75.6	60.6	
5	Veterinary Science			29.2	44.6	38.2	32.6	34.5	
	Natural Sciences	262=	54=	59.3	59.8	92.5	73.9	67.8	72.00
	Chemistry			10.7	50.4	66.6	48.5	37.4	
es	Earth & Marine Sciences	51-100	23=	74.1	55.1	95.2	87.9	80.9	
Natural Sciences	Environmental Sciences	301-350	62=	49.1	55.0	89.3	81.4	67.8	
SCI	Geography	151-200	26=	70.5	49.9	81.8	65.8	69.4	
<u>_</u>	Geology	51-100	22=	73.7	58.2	95.0	87.5	82.7	
ב ב	Geophysics	51-100	22=	73.6	58.3	94.6	86.3	82.2	
Ž	Materials Science			25.1	38.2	66.9	54.2	44.1	
	Mathematics			34.2	53.1	62.2	54.7	47.7	
	Physics & Astronomy	251-300	57=	55.5	38.5	94.5	74.4	63.7	
	Social Sciences & Management	451-500	78=	56.1	60.6	85.6	70.6	60.5	52.00
	Accounting & Finance			45.4	47.6	66.2	64.4	50.0	
	Anthropology	51-100	18=	68.8	66.2	74.2	67.3	68.9	
Management	Business & Management Studies	451-500	86=	41.4	50.6	95.4	88.1	54.2	
em	Communication & Media Studies	201-240	66=	54.0	55.6	89.3	73.7	65.2	
ag	Development Studies								
lan	Economics & Econometrics	501-520	104=	41.2	51.2	76.7	47.9	51.6	
<u>&lt;</u> ∾ŏ	Education	201-250	55=	55.2	54.5	75.6	69.3	62.0	
es	Hospitality & Leisure Management								
Social Sciences	Law			41.3	51.1	82.5	68.6	50.4	
	Library & Information Management			41.2	32.5	67.7	64.3	45.5	
<del>o</del>	Politics & International Studies			49.9	51.0	70.0	56.1	52.9	
200	Social Policy & Administration			47.9	44.8	70.4		49.5	
- 1	Sociology	301-330	62=	51.0	58.6	79.5	62.5	54.9	
	Sports-related Subjects			34.3	32.7	61.0	42.0	39.3	
	Statistics & Operational Research			31.6	38.5	51.2	47.4	39.4	



# A YARDSTICK OF INTERNATIONAL ACADEMIC STANDARDS

QS Stars is a rating system providing your institution with an overall score, as well as ratings in 12 categories, which you can use to promote your brand on an international scale. Since its launch in 2010, QS Intelligence Unit has rated over 275 institutions in 45 countries with QS Stars.

Drive institutional development

Improve performance in key areas

Enhance brand recognition

Attract prospective students



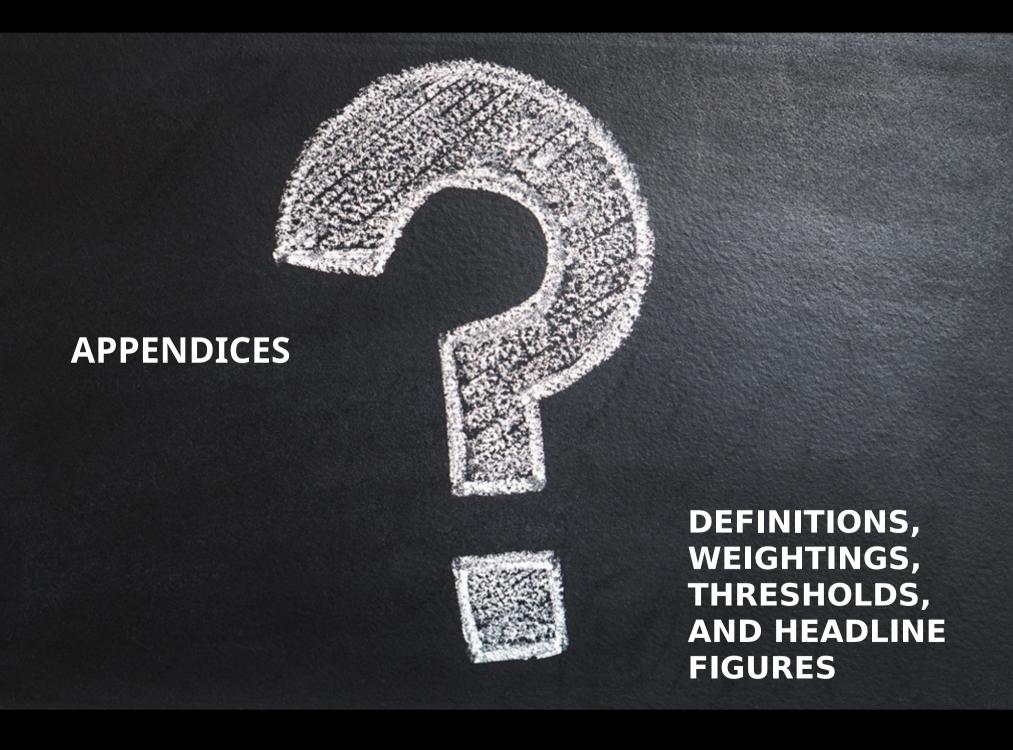
"The new QS Stars rating system further recognizes NTU's strengths as a world university across a broader set of criteria than can be measured in any ranking system and provides information for our many stakeholders – current students, prospective students, parents, teachers, employers, fellow academics as well as our local community"

Bertil Andersson, President, Nanyang Technological University, Singapore

The tables below present the rank evolution in each subject and broad subject area where you have been nominated for evaluation.

		2020	2021	2022
	Arts & Humanities	183	172	157=
	Art & Design			
	History			
Arts & Humanities	Archaeology	151-200	151-200	201-230
nani	Architecture / Built Environment			
파	English Language & Literature	151-200	151-200	151-200
∞	Linguistics	43	28=	34
Arts	Modern Languages	101-150	101-150	101-150
	Performing Arts			
	Philosophy		151-200	
	Theology, Divinity & Religious Studies			
	Engineering & Technology			
∞ _	Computer Science & Information Systems			
ing ogy	Engineering - Chemical			
Engineering & Technology	Engineering - Civil & Structural			
ngin Tech	Engineering - Mechanical, Aeronautical & Manufactu			
<u>ъ</u> _	Engineering - Electrical & Electronic			
	Petroleum Engineering			
	Life Sciences & Medicine	401-450	401-450	451-500
ine	Agriculture & Forestry	151-200	201-250	201-250
edic	Anatomy & Physiology			
Life Sciences & Medicine	Biological Sciences	351-400	401-450	451-500
	Medicine	401-450	451-500	501-550
enc	Pharmacy & Pharmacology			
Sci	Psychology	201-250	201-250	
Life	Veterinary Science			
	Nursing			

		2020	2021	2022
Natural Sciences	Natural Sciences	232=	203=	262=
	Chemistry			
	Earth & Marine Sciences	44=	34=	51-100
	Environmental Sciences	301-350	251-300	301-350
Scie	Geography	101-150	101-150	151-200
<u>ra</u>	Materials Science			
latu	Mathematics			
_	Physics & Astronomy	201-250	201-250	251-300
	Geology		24=	51-100
	Geophysics		26=	51-100
	Social Sciences & Management	400=	401-450	451-500
	Accounting & Finance			
	Anthropology			51-100
,	Business & Management Studies	351-400	351-400	451-500
nen	Communication & Media Studies	151-200	151-200	201-240
iger	Development Studies			
lana	Economics & Econometrics	401-450		501-520
≥ ⊗	Education	151-200	151-200	201-250
ces	Hospitality & Leisure Management			
cien	Law			
al Sc	Library & Information Management			
Social Sciences & Management	Politics & International Studies			
01	Social Policy & Administration			
	Sociology			301-330
	Sports-related Subjects			
	Statistics & Operational Research			

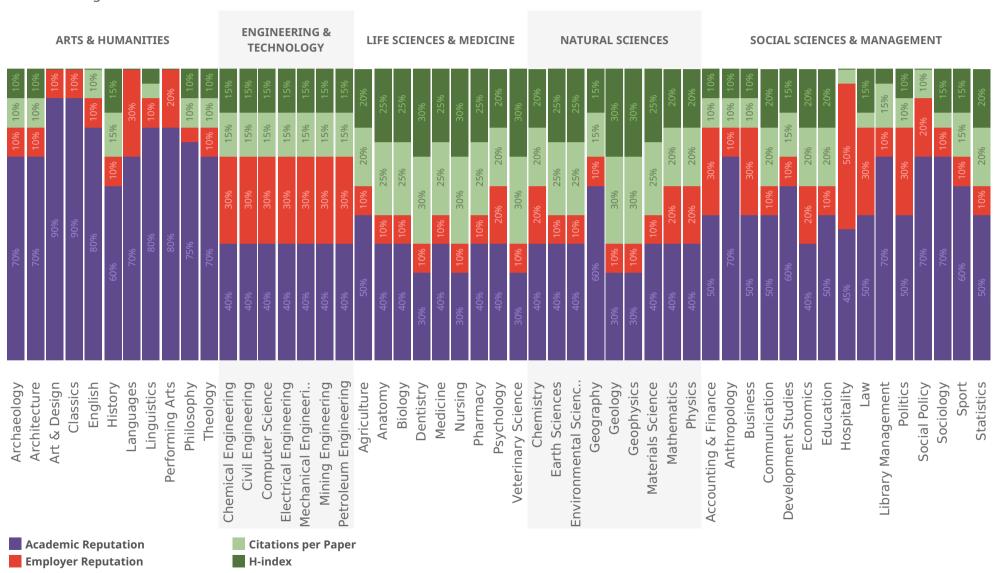


### **METHODOLOGY: DEFINITIONS**



Management

We use a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2022 edition of the rankings.



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Philosophy

Physics

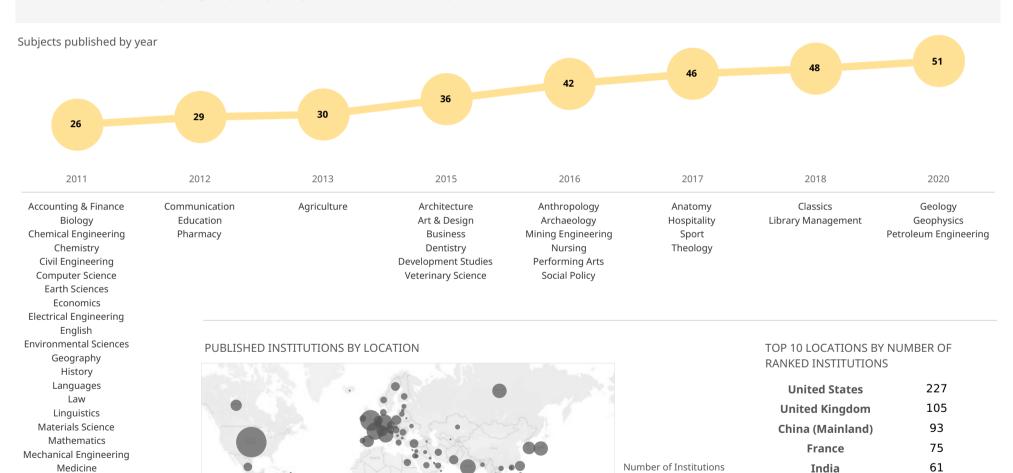
**Politics** 

Psychology

Sociology

Statistics

The **QS World University Rankings**® **by Subject** ranks the world's top universities in individual subject areas, covering 51 disciplines as of 2022. A list of the considered subjects, grouped by the year of first release, is presented below.



Published

50

100

150

200

Germany

Italy

Russia

Japan

**South Korea** 

60

56

51

50

39

The charts below present the number of institutions evaluated and ranked in each of the relevant subject areas.

51

**Subjects Published** 

161

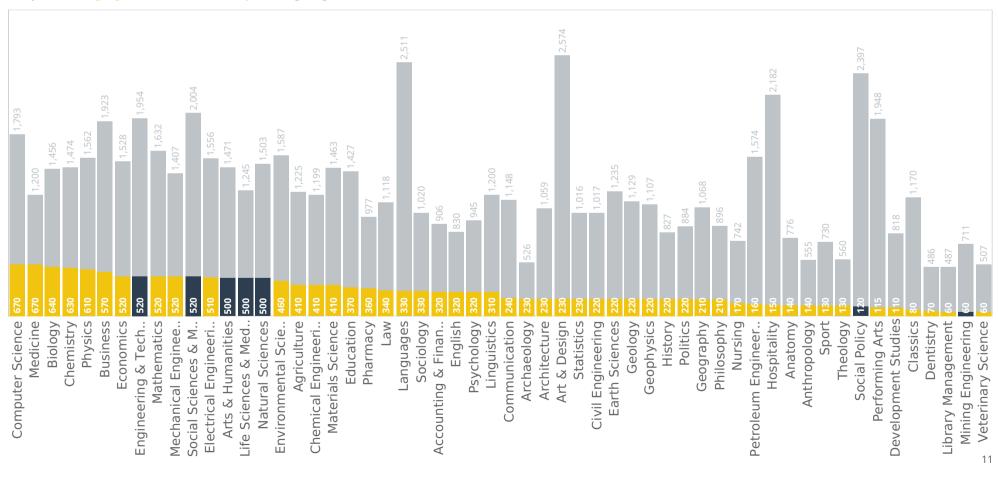
**Locations Evaluated** 

1,543

**Institutions Published** 

#### INSTITUTIONS ANALYSED AND PUBLISHED BY SUBJECT - YEAR 2022

Subjects with highlight color have extended publishing ranges.







QS conferences bring international leaders together to celebrate academic excellence and innovation in higher education.

01

#### QS MAPLE/QS EUROPE/QS AMERICAS/ QS APPLE

A global conference designed to create an inclusive platform for knowledge sharing, discussions and debate, professional networking and helps drives forward higher education in each region.

03

# REIMAGINE EDUCATION CONFERENCE & AWARDS

A global conference and competition open to international innovators. The Reimagine Education Awards - 'Oscars' of Education – offers \$50,000 in funding to overall winners.

02

#### **EDUDATA SUMMIT**

A premium conference that fosters the sharing of latest trends and best practices and learn the plaudits and pitfalls on institutional data management and usage. 04

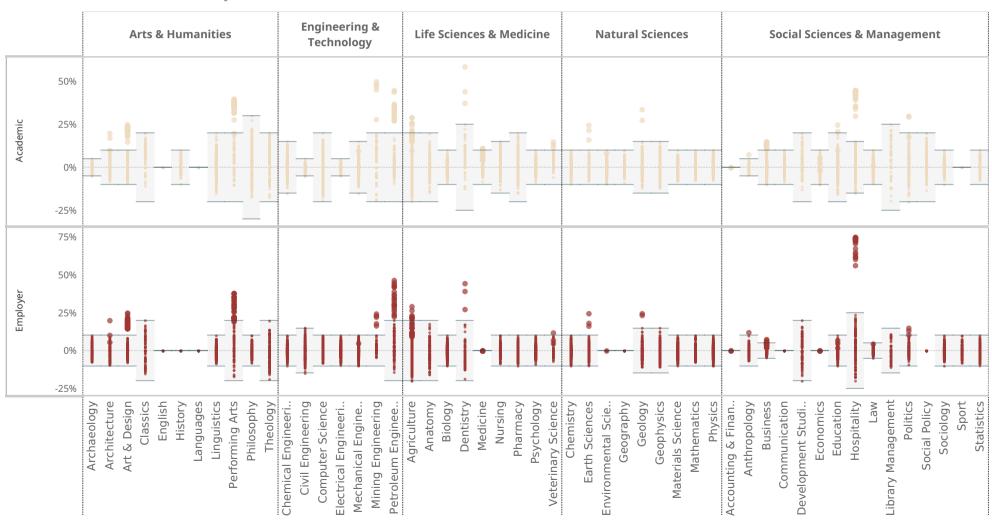
#### **QS SUBJECT FOCUS SUMMIT**

A global forum designed to bring about a deepened and shared understanding of challenges and opportunities facing the subject in focus.



In the QS Subject Rankings methodology, a specialization adjustment is applied to the original reputation scores in order to boost the performance of those institutions that present a stronger focus in specific subjects. The original rank calculated for each subject is compared against the rank obtained in the relevant broad subject area containing the said subject according to the QS mapping. For example, the results in Biology are compared against the overall rank in Life Sciences & Medicine. Whenever the rank difference between the subject and the broad area exceeds an acceptable number of places, a positive or negative adjustment is applied in the Reputation score. The method compares the proportional difference for e...

#### DISTRIBUTION OF SPECIALIST ADJUSTMENTS - REPUTATION

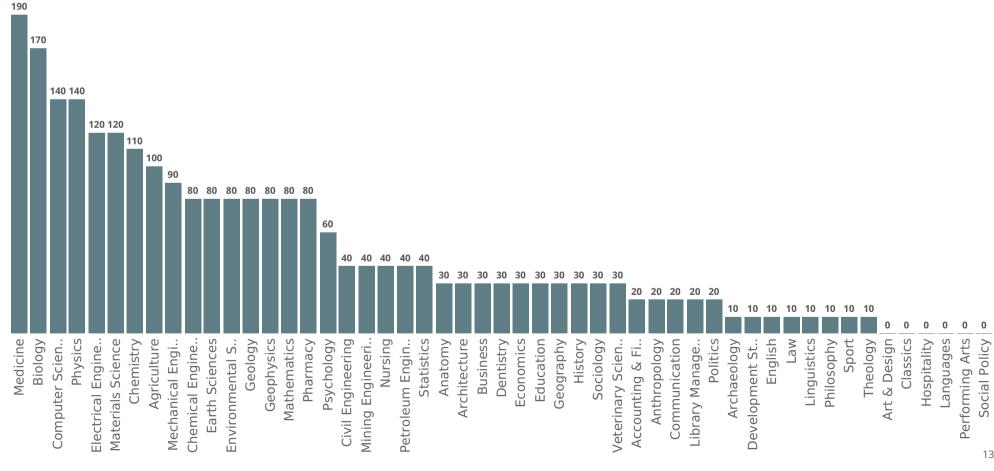


In order to feature in any discipline table, an institution must meet three simple prerequisites:

- Offer undergraduate or taught postgraduate programmes in the given discipline
- Exceed the minimum required score for the academic and/or employer reputation indicators
- Exceed the five-year threshold for number of papers published and indexed by Scopus in the given discipline

The following chart discloses the minimum number of papers required to be considered in the latest edition of the rankings by subject.

PAPER THRESHOLD BY SUBJECT - YEAR 2022 MINIMUM NUMBER OF PUBLICATIONS INDEXED BY SCOPUS REQUIRED TO BE CONSIDERED IN THE RANKINGS.





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4.4k+ Institutions	2.7k+ Institutions	2k+ Institutions		

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