



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-

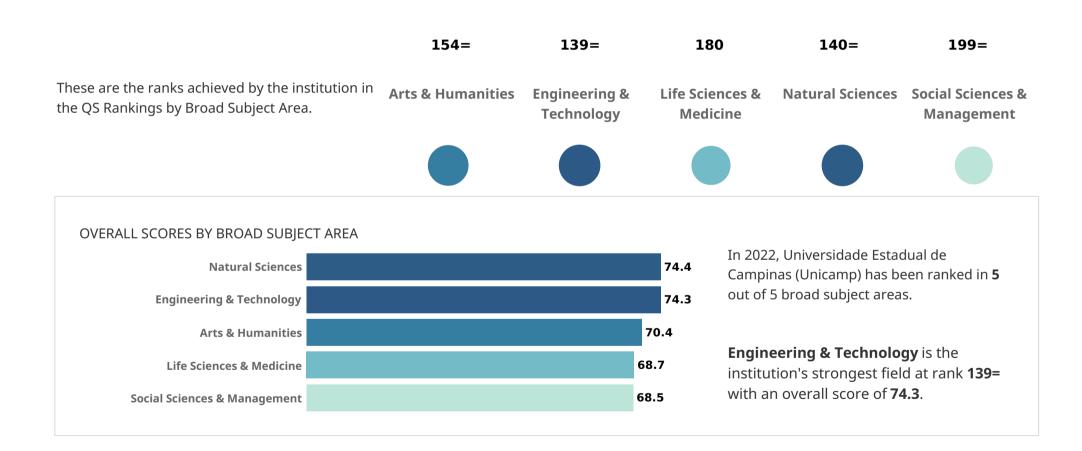
In the Appendix you will find an explanation of the weightings that make up the different subject tables, the evolution of the subject rankings exercise, the paper thresholds that we have used in this edition and an indication of the number of institutions analysed and ranked.

We hope you will find this useful.

Rankings Team, QS Intelligence Unit

UNIVERSIDADE ESTADUAL DE CAMPINAS (UNICAMP)

Brazil



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	154=	2	76.8	70.6	63.3	51.3	70.4	32.0
	Archaeology								
	Architecture / Built Environment	101-150	3	59.1	71.7	69.4	62.1	61.7	
es	Art & Design	151-200	2=	51.5	74.4			53.8	
niti	Classics & Ancient History			49.8	46.5			49.5	
Humanities	English Language & Literature								
Ŧ	History	101-150	2=	67.5	63.6	62.0	59.7	65.1	
Arts &	Linguistics	151-200	1=	63.6	71.2	52.9	52.1	63.3	
Ar	Modern Languages	81=	2	76.3	70.3			74.5	
	Performing Arts			58.9	55.3			58.2	
	Philosophy	151-200	1=	58.8	68.1	63.5	58.6	59.7	
	Theology, Divinity & Religious Studies								
gy	Engineering & Technology	139=	2	77.5	69.8	79.7	67.6	74.3	77.0
90	Computer Science & Information Systems	118=	2	59.4	74.5	69.2	64.9	66.2	
chr	Engineering - Chemical	81=	1=	73.2	74.8	82.5	75.5	75.4	
& Technology	Engineering - Civil & Structural	151-200	3	61.7	70.6	72.5	63.8	66.3	
ng 8	Engineering - Electrical & Electronic	91=	1	68.8	73.7	84.8	72.2	73.2	
Engineering	Engineering - Mechanical, Aeronautical & Manufact	124	2	68.5	76.1	78.3	66.7	72.0	
gine	Engineering - Mineral & Mining								
Ē	Petroleum Engineering	31	1	61.4	69.0	86.7	81.3	70.5	

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score	IRN
8 Medicine	Life Sciences & Medicine	180	2	76.1	70.0	73.7	50.0	68.7	66.00
	Agriculture & Forestry	47	1	61.2	68.2	88.9	87.1	72.6	
	Anatomy & Physiology			57.2	81.0	74.4	75.1	68.4	
	Biological Sciences	151-200	2	68.5	69.9	76.3	63.9	69.4	
	Dentistry	32	2	57.3	74.0	78.9	67.9	68.6	
Life Sciences &	Medicine	201-250	2=	64.0	67.2	79.6	55.4	66.1	
ien	Nursing	101-150	2	60.9	66.8	83.9	73.4	72.1	
Sc	Pharmacy & Pharmacology	101-150	2=	61.4	74.0	81.9	78.1	72.0	
ife.	Psychology								
	Veterinary Science			54.1	80.6	61.8	45.5	56.5	
	Natural Sciences	140=	2	76.0	70.5	78.5	72.9	74.4	72.00
	Chemistry	114	2	72.6	75.3	75.8	62.0	71.7	
es	Earth & Marine Sciences			63.1	73.8	77.9	64.5	68.2	
Natural Sciences	Environmental Sciences	151-200	2=	72.3	70.2	83.0	76.5	75.8	
Scie	Geography	101-150	2=	76.5	68.2	73.3	62.0	73.0	
ia.	Geology			59.6	77.7	76.3	63.7	67.7	
ţŗ	Geophysics			59.6	77.7	73.6	62.5	66.5	
Na	Materials Science	101-150	1=	71.0	67.4	82.5	65.8	72.2	
	Mathematics	124=	2	71.9	68.6	69.6	69.9	70.4	
	Physics & Astronomy	132=	2	66.1	72.2	79.9	77.0	72.3	
	Social Sciences & Management	199=	2	71.8	67.7	76.0	57.7	68.5	45.00
	Accounting & Finance								
_	Anthropology	101-140	3	67.5	53.7	56.0	58.0	64.0	
en	Business & Management Studies								
Management	Communication & Media Studies								
ag	Development Studies	51-100	1=	64.2	74.4	60.3	58.0	63.7	
lan	Economics & Econometrics	251-300	5	62.8	67.9	64.4	46.9	61.0	
⊗ ⊗	Education	151-200	2	64.8	72.6	66.7	59.4	64.9	
es	Hospitality & Leisure Management								
Social Sciences	Law								
Scie	Library & Information Management								
a	Politics & International Studies	151-200	4=	63.6	68.3	53.8	46.4	62.3	
oci	Social Policy & Administration								
S	Sociology	100	2	73.4	73.3	68.2	57.8	70.8	
	Sports-related Subjects								
	Statistics & Operational Research	101-150	2=	72.8	69.8	64.7	66.7	69.7	



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



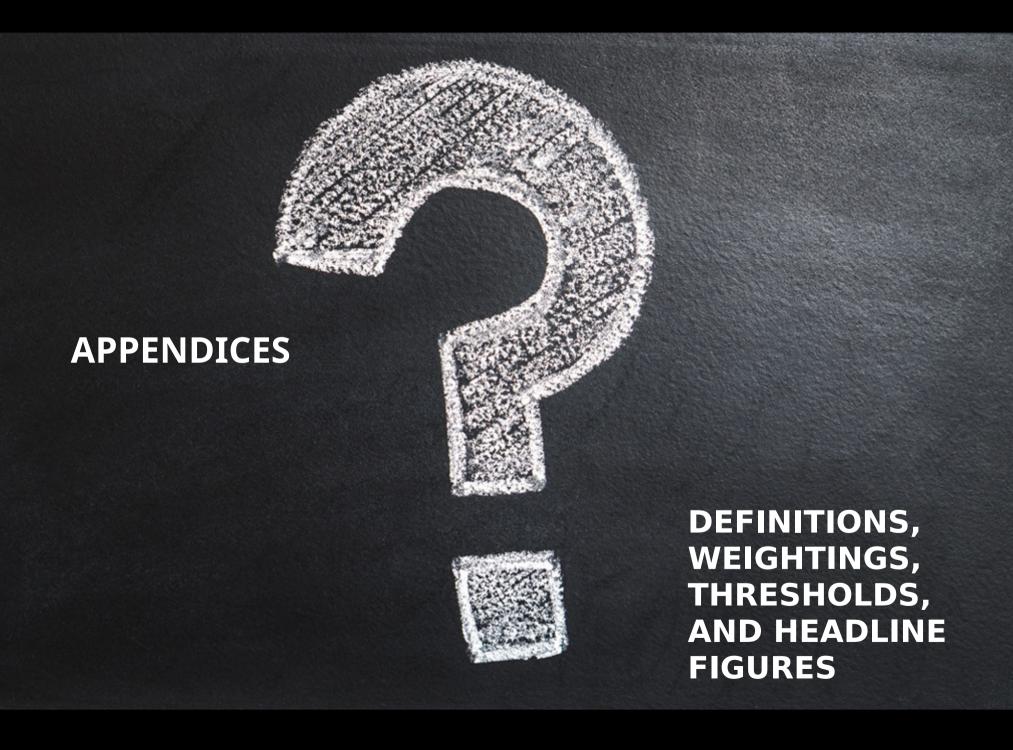
"The new QS Stars rating system further recognizes NTU's strengths as a world university across a broader set of criteria than can be measured in any ranking system and provides information for our many stakeholders – current students, prospective students, parents, teachers, employers, fellow academics 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	133=	135=	154=
	Art & Design	101-150	151-200	151-200
	History	151-200	101-150	101-150
es	Archaeology			
njt	Architecture / Built Environment	101-150	101-150	101-150
Arts & Humanities	Classics & Ancient History			
로	English Language & Literature			
ى د	Linguistics	151-200	101-150	151-200
Art	Modern Languages	51-100	88=	81=
	Performing Arts			
	Philosophy		151-200	151-200
	Theology, Divinity & Religious Studies			
	Engineering & Technology	131=	134=	139=
.~	Computer Science & Information Systems	101-150	113	118=
gy gy	Engineering - Chemical	51-100	87	81=
erir olo	Engineering - Civil & Structural	151-200	151-200	151-200
Engineering & Technology	Engineering - Mechanical, Aeronautical & Manufactu	101-150	107=	124
ingi Te(Engineering - Electrical & Electronic	101-150	116	91=
ш	Engineering - Mineral & Mining			
	Petroleum Engineering		28	31
	Life Sciences & Medicine	199=	216=	180
ne	Agriculture & Forestry	51-100	49=	47
dici	Anatomy & Physiology			
Life Sciences & Medicine	Biological Sciences	151-200	151-200	151-200
	Medicine	201-250	201-250	201-250
	Pharmacy & Pharmacology	151-200	101-150	101-150
ien	Psychology			
e Sc	Veterinary Science			
Lif	Dentistry	29=	26	32
	Nursing			101-150

		2020	2021	2022
Natural Sciences	Natural Sciences	139=	143=	140=
	Chemistry	101-150	120=	114
	Earth & Marine Sciences			
	Environmental Sciences	151-200	151-200	151-200
	Geography	101-150	101-150	101-150
ral	Materials Science	151-200	151-200	101-150
atn	Mathematics	151-200	151-200	124=
Z	Physics & Astronomy	101-150	129=	132=
	Geology			
	Geophysics			
	Social Sciences & Management	168=	162	199=
	Accounting & Finance			
	Anthropology		101-120	101-140
4	Business & Management Studies			
nen	Communication & Media Studies			
ıger	Development Studies			51-100
lana	Economics & Econometrics	201-250	201-250	251-300
⊗ ≥	Education	151-200	151-200	151-200
Social Sciences & Management	Hospitality & Leisure Management			
cien	Law			
al Sc	Library & Information Management			
oci	Politics & International Studies	151-200	151-200	151-200
01	Social Policy & Administration			
	Sociology	101-150	101-150	100
	Sports-related Subjects			
	Statistics & Operational Research	101-150	101-150	101-150

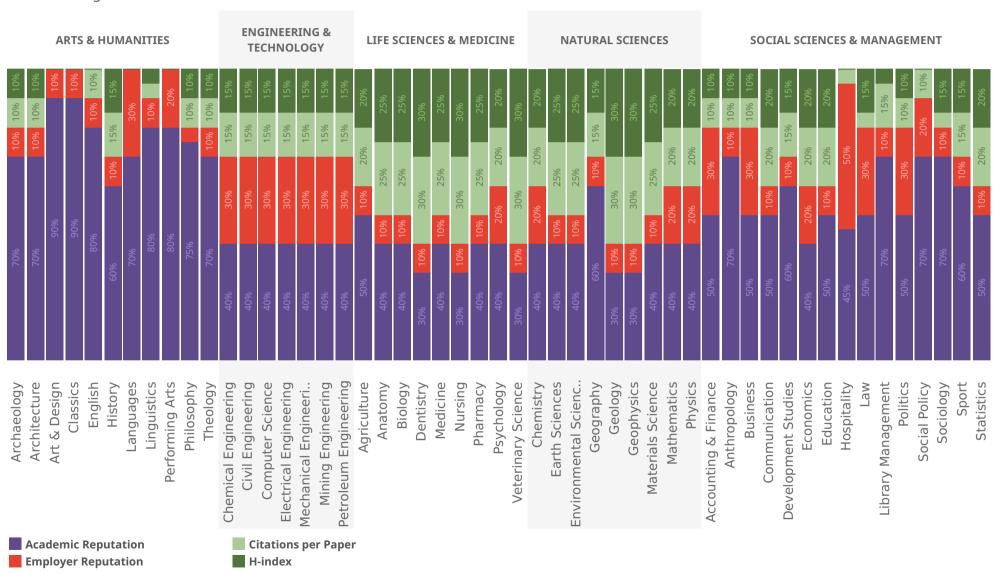


METHODOLOGY: DEFINITIONS



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

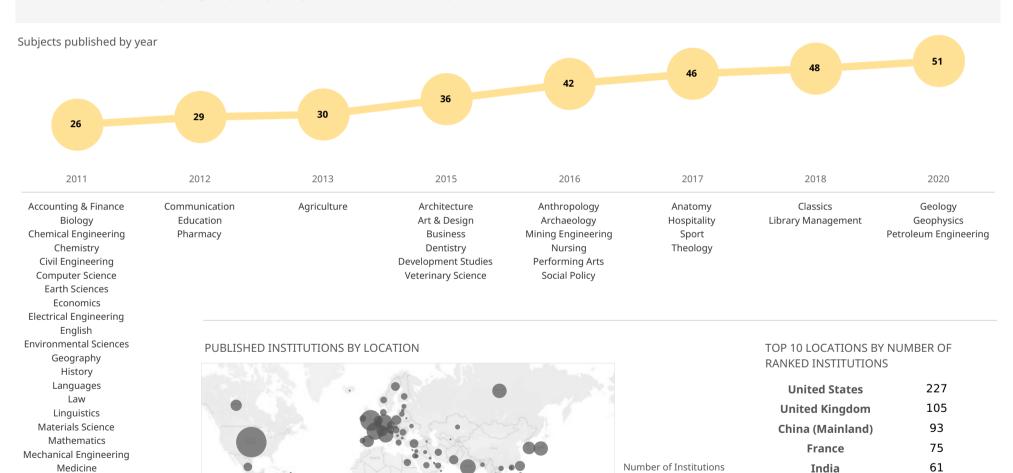
Politics

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

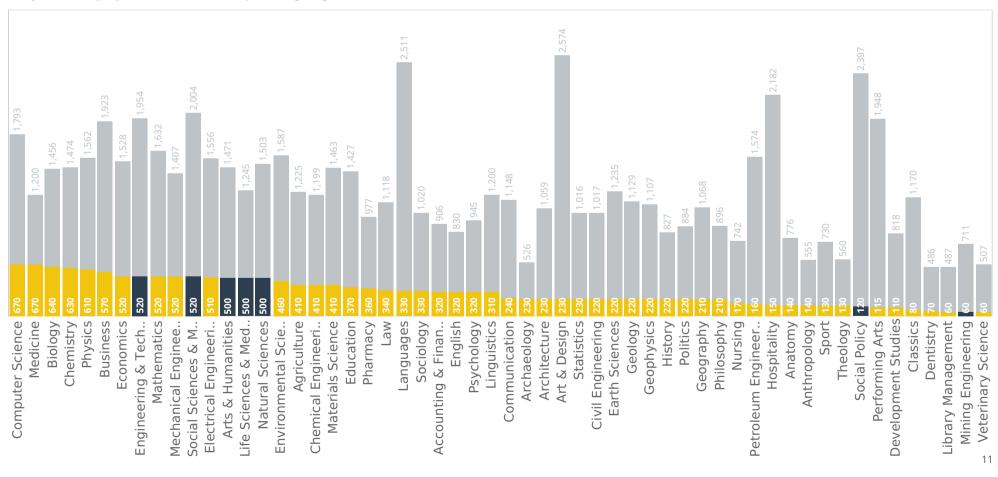
Locations Evaluated

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

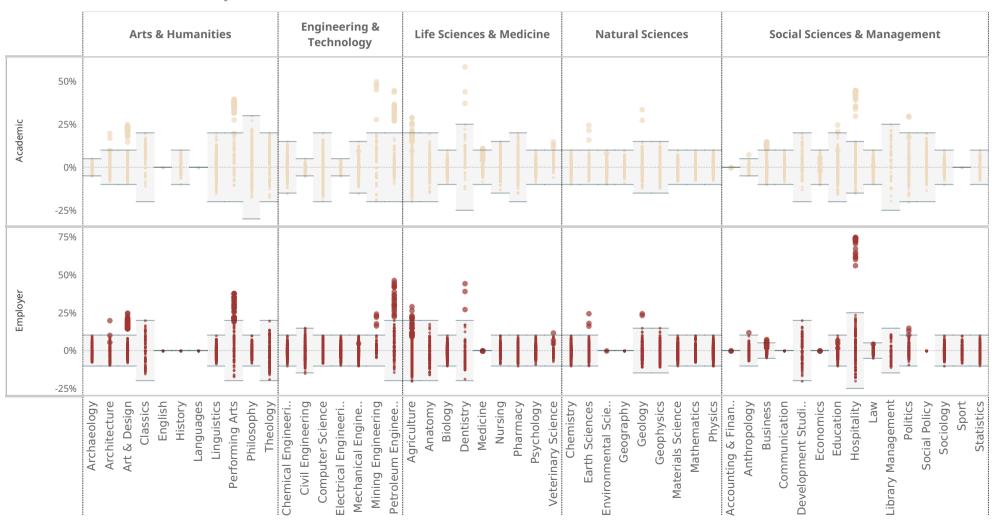
QS SUBJECT FOCUS SUMMIT

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

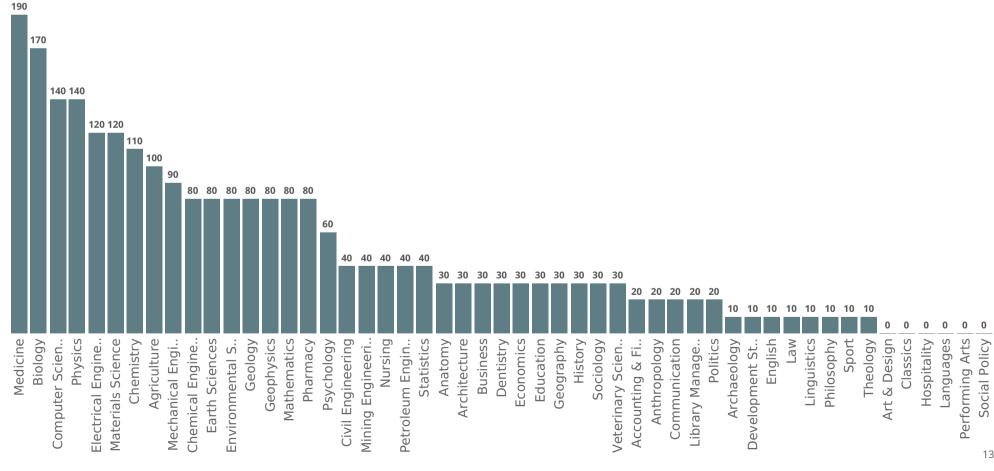


In order to feature in any discipline table, an institution must meet three simple prerequisites:

- 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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