



# World University Rankings® by Subject 2020

Fact File

Summary Version  
Version 1.0

**ARISTOTLE UNIVERSITY OF  
THESSALONIKI**

**GREECE**

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THE 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT  
WILL BE LAUNCHED ON 4 MARCH 2020 ON [www.topuniversities.com](http://www.topuniversities.com)

# WELCOME TO THE 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's fact file for the QS World University Rankings by Subject 2020.

This file provides the scores for your institution in the subjects that you have been evaluated in, 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 22 million papers, producing close to 200 million citations. 1,368 institutions have been ranked across 48 subjects in 5 subject areas, creating over 15,500 published 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 first section contains an "at a glance" summary of your institution's performance across the board in all the subject areas covered. The wheel chart is a graphical representation – brightly coloured bars indicate that you have achieved a score in that subject; the longer the bar the higher the score you have attained. A pale bar in a subject area indicates your performance in the broad subject area.

The next table shows a summary of your scores and ranks in all the subjects you have been ranked in including a column which also shows your domestic rank in that subject. The following table then shows you your results in the subject rankings for the last three years so you can track your progress.

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 considered and ranked.

I hope you will find this useful, but we have also prepared a more extensive EXTENDED FACT FILE for you, presenting your institution in context, subject by subject, indicator by indicator in greater depth. Please file a request via the link attached in the email and the team will aim to get back to you within a couple of days depending on the volume of requests.

Selina Griffin  
Rankings Manager, QS

## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

# ARISTOTLE UNIVERSITY OF THESSALONIKI

AT A GLANCE

RANKED IN

**5** BROAD SUBJECT AREAS

SCORED IN

**43** SUBJECTS

RANKED IN

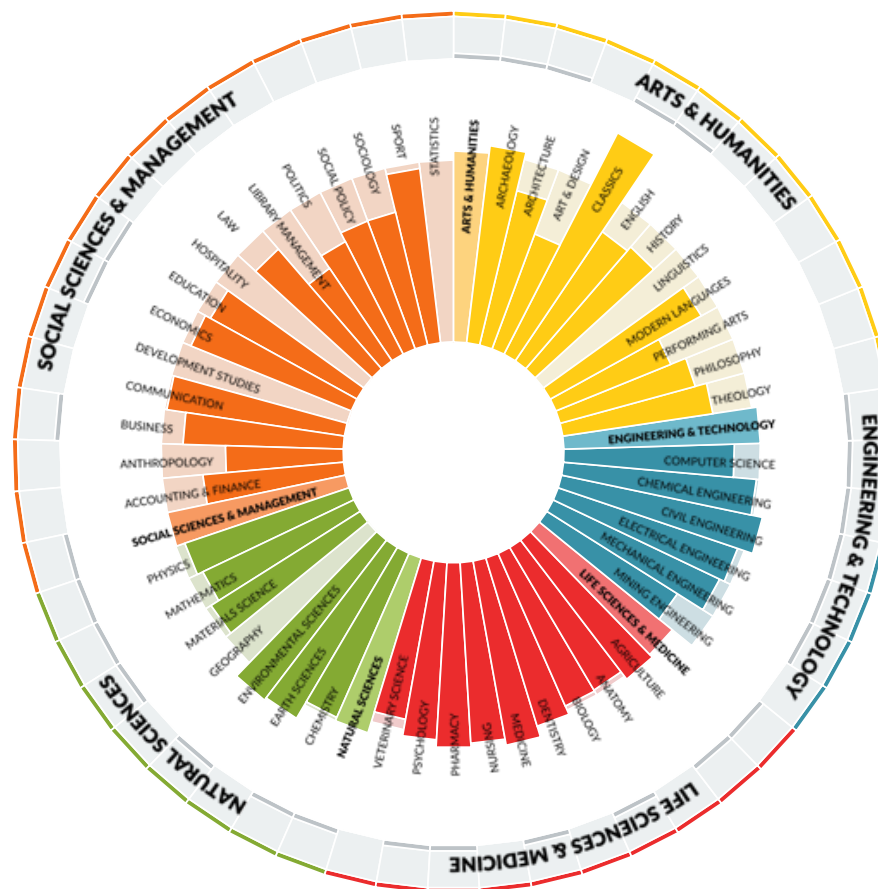
**22** SUBJECTS

TOP 100 FOR

**2** SUBJECTS

TOP 50 FOR

**1** SUBJECT



Arts & Humanities



Engineering & Technology



Life Sciences & Medicine



Natural Sciences



Social Sciences & Management



Each bar presents the score in the given subject;

Lightly shaded areas indicate performance in the corresponding broad subject area.

## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT AREA

### ARISTOTLE UNIVERSITY OF THESSALONIKI

Greece

231=

224=

338=

324=

308=

These are the ranks achieved by the institution in the QS Rankings by Broad Subject Area.

Arts & Humanities

Engineering & Technology

Life Sciences & Medicine

Natural Sciences

Social Sciences & Management



#### OVERALL SCORES BY SUBJECT AREA



In 2020, Aristotle University of Thessaloniki has been ranked in **5** out of 5 broad subject areas.

**Engineering & Technology** is the institution's strongest field at **224=** and an overall score of **69.4**.



## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Below is the institution's detailed performance by indicator and overall score across the 48 subjects currently featured in the QS World University Rankings by Subject. It is very unusual for an institution to qualify for consideration in all 48 subjects.

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Arts & Humanities	Arts & Humanities	231=	1	68.6	66.5	79.9	50.6	67.5
	Archaeology	51-100	1	74.1	44.7	73.8	63.3	70.1
	Architecture / Built Environment	151-200	2	47.7	65.6	88.9	73.0	56.1
	Art & Design			39.7	75.2			43.3
	Classics & Ancient History	16	1	90.8	62.1			87.9
	English Language & Literature	251-300	1	53.4	67.8	55.1		55.0
	History			51.8	59.2	66.9	65.0	56.8
	Linguistics							
	Modern Languages			61.1	60.3			60.9
	Performing Arts			47.4	29.6			43.8
	Philosophy			49.2	55.2	63.9	34.8	49.5
	Theology, Divinity & Religious Studies			53.7	56.3	46.5	57.1	53.6
Engineering & Technology	Engineering & Technology	224=	2	65.2	64.9	82.4	76.3	69.4
	Computer Science & Information Systems	251-300	4	42.9	64.7	79.0	78.3	60.2
	Engineering - Chemical	151-200	1	58.8	73.5	79.2	73.1	68.4
	Engineering - Civil & Structural	101-150	2	68.2	66.9	87.3	80.5	72.5
	Engineering - Electrical & Electronic	151-200	2	55.6	67.8	86.4	75.4	66.9
	Engineering - Mechanical, Aeronautical & Manufact..	201-250	3	57.1	64.1	80.6	72.7	65.1
	Engineering - Mineral & Mining			27.2	64.7	84.7	76.4	54.5
Life Sciences & Medicine	Life Sciences & Medicine	338=	2	59.2	60.6	69.2	53.8	60.5
	Agriculture & Forestry	151-200	1	49.7	55.2	78.4	78.5	61.8
	Anatomy & Physiology			44.6	51.9	67.9	73.9	58.5
	Biological Sciences	401-450	2	44.4	47.2	77.5	68.3	58.9
	Dentistry			35.1	42.2	81.0	76.9	62.1
	Medicine	301-350	2	51.8	56.6	82.6	76.4	66.1
	Nursing			52.0	78.8	77.8	57.0	63.9
	Pharmacy & Pharmacology	201-250	2	49.4	58.2	79.7	79.1	65.3
	Psychology	251-300	1	57.9	70.1	68.6	58.8	62.7
	Veterinary Science			22.1	67.4	81.0	63.9	56.8

## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Natural Sciences	Natural Sciences	324=	2	54.9	60.6	76.0	76.8	64.6
	Chemistry	301-350	1	50.8	61.2	83.8	69.9	63.3
	Earth & Marine Sciences			60.7	61.1	80.4	78.6	70.1
	Environmental Sciences	201-250	1	59.0	59.3	87.1	79.0	71.1
	Geography							
	Materials Science	301-350	2	49.5	52.7	84.6	64.3	62.3
	Mathematics	351-400	2	46.6	58.4	77.3	66.6	59.1
	Physics & Astronomy	301-350	2	53.3	45.1	77.3	77.0	61.2
Social Sciences & Management	Social Sciences & Management	308=	2	59.1	66.1	86.1	63.5	64.3
	Accounting & Finance			38.2	64.7	50.7	63.5	49.9
	Anthropology			40.8	48.4	36.5	45.9	41.6
	Business & Management Studies	301-350	2	42.0	67.6	79.1	74.4	56.6
	Communication & Media Studies			58.1	71.8	73.4	62.6	63.4
	Economics & Econometrics	251-300	2	49.9	65.4	76.8	63.6	61.1
	Education	251-300	1	49.8	62.9	72.9	66.4	59.1
	Hospitality & Leisure Management							
	Law			53.3	58.9	69.4	53.7	55.8
	Library & Information Management			36.1	44.8	46.7	53.0	39.4
	Politics & International Studies			34.3	60.1	58.5	37.0	44.7
	Social Policy & Administration			51.0	62.4			48.2
	Sociology			43.2	66.0	71.2	52.4	48.3
	Sports-related Subjects			53.5	65.2	85.6	70.0	62.0
	Statistics & Operational Research							

### NOTES:

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

1. It may not offer a program
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. 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.

## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The tables below present the rank evolution in each evaluated subject.

		2018	2019	2020
Arts & Humanities	Arts & Humanities	269=	264=	231=
	Art & Design			
	History			
	Archaeology	51-100	51-100	51-100
	Architecture / Built Environment	151-200	151-200	151-200
	Classics & Ancient History	16	22=	16
	English Language & Literature	201-250	251-300	251-300
	Linguistics			
	Modern Languages			
	Performing Arts			
	Philosophy			
	Theology, Divinity & Religious Studies			
Engineering & Technology	Engineering & Technology	222	265=	224=
	Computer Science & Information Systems	251-300	301-350	251-300
	Engineering - Chemical	201-250	201-250	151-200
	Engineering - Civil & Structural	101-150	151-200	101-150
	Engineering - Mechanical, Aeronautical & Manufactu..	251-300	251-300	201-250
	Engineering - Electrical & Electronic	151-200	201-250	151-200
	Engineering - Mineral & Mining			
Life Sciences & Medicine	Life Sciences & Medicine	330=	338=	338=
	Agriculture & Forestry	151-200	151-200	151-200
	Anatomy & Physiology			
	Biological Sciences	351-400	351-400	401-450
	Medicine	201-250	251-300	301-350
	Pharmacy & Pharmacology	201-250	201-250	201-250
	Psychology			251-300
	Veterinary Science			
	Dentistry			
	Nursing			
		2018	2019	2020
Natural Sciences	Natural Sciences	266=	369=	324=
	Chemistry	301-350	351-400	301-350
	Earth & Marine Sciences			
	Environmental Sciences	101-150	201-250	201-250
	Geography			
	Materials Science		351-400	301-350
	Mathematics	351-400		351-400
	Physics & Astronomy	301-350	351-400	301-350
Social Sciences & Management	Social Sciences & Management	320=	362=	308=
	Accounting & Finance			
	Anthropology			
	Business & Management Studies		351-400	301-350
	Communication & Media Studies			
	Development Studies			
	Economics & Econometrics	251-300	251-300	251-300
	Education	201-250	251-300	251-300
	Hospitality & Leisure Management			
	Law	251-300	251-300	
	Library & Information Management			
	Politics & International Studies			
	Social Policy & Administration			
	Sociology			
	Sports-related Subjects			
	Statistics & Operational Research			





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The logo consists of four white vertical bars of varying heights, resembling a stylized bar chart or a mountain range.

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# APPENDICES



DEFINITIONS,  
WEIGHTINGS,  
THRESHOLDS,  
AND HEADLINE FIGURES

# 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

## METHODOLOGY: DEFINITIONS & WEIGHTINGS

### ACADEMIC REPUTATION

Between 2015 and 2019 QS has collected votes from over 94,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertise.

### EMPLOYER REPUTATION

The employability metric is based on employer reputation. Over 44,000 global employer votes have been taken into account between 2015 and 2019 giving us a large pool of information in terms of hiring levels. Employers across all sectors and industries have taken part in the survey and include Facebook, Google, Uber, Wells Fargo, Bank of America etc.

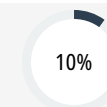
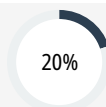
### CITATIONS PER PAPER

This ratio measures the average number of citations obtained per publication, and is an estimate of the impact and quality of the scientific work done by universities. To avoid anomalous results, only the institutions producing a minimum number of papers in the last five years are evaluated.

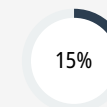
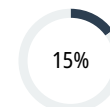
### H-INDEX

The h-index is an index that attempts to measure both the productivity and impact of the work published by the institutions' scientists and scholars. The index is based on the set of the institution's most cited papers and the number of citations that they have received in other publications.

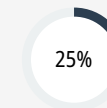
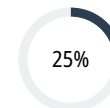
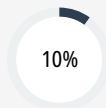
Arts & Humanities



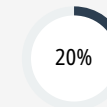
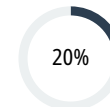
Engineering & Technology



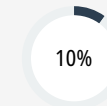
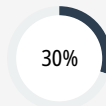
Life Sciences & Medicine



Natural Sciences

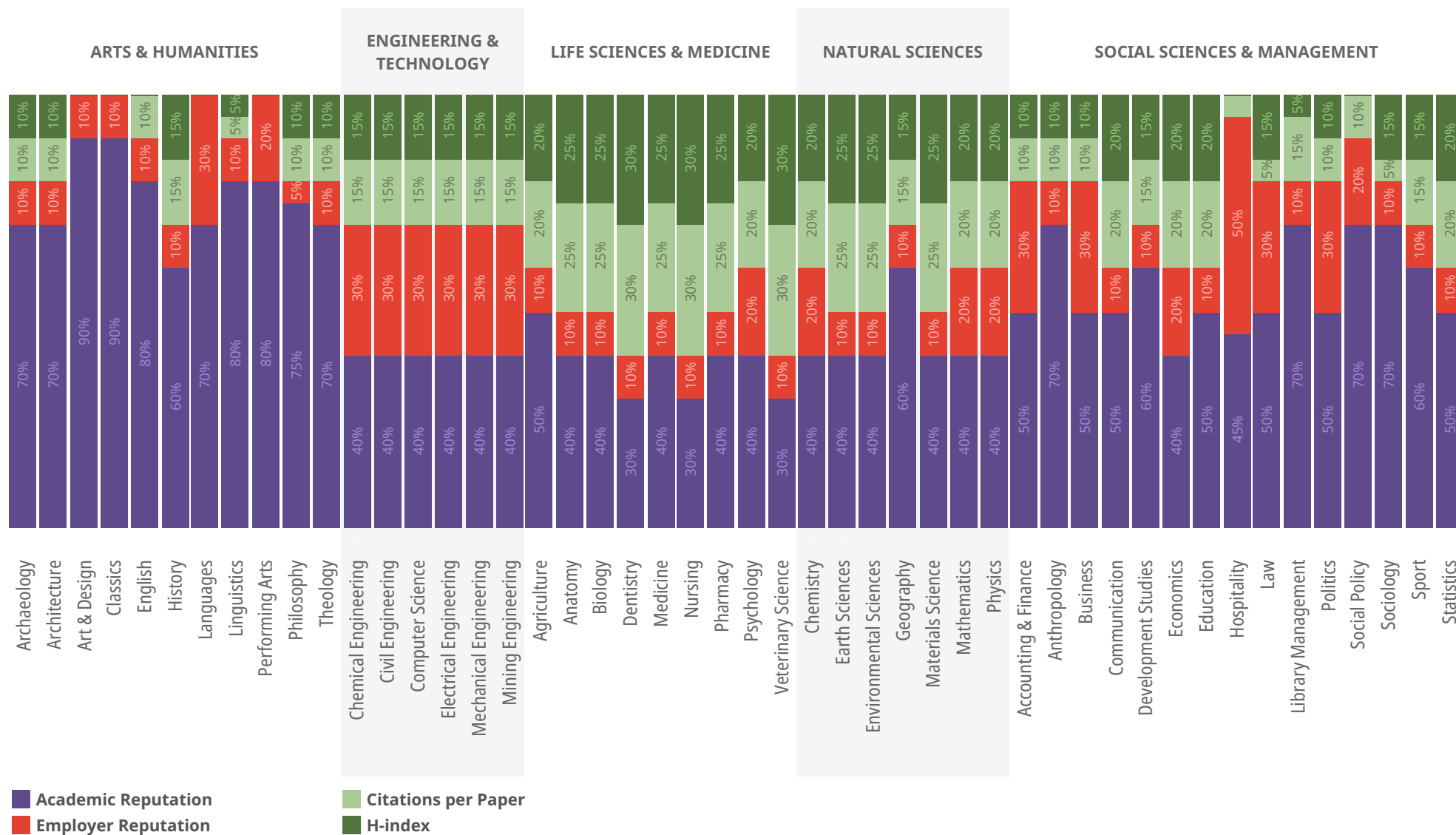


Social Sciences & Management



# 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

We use a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2020 edition of the rankings.

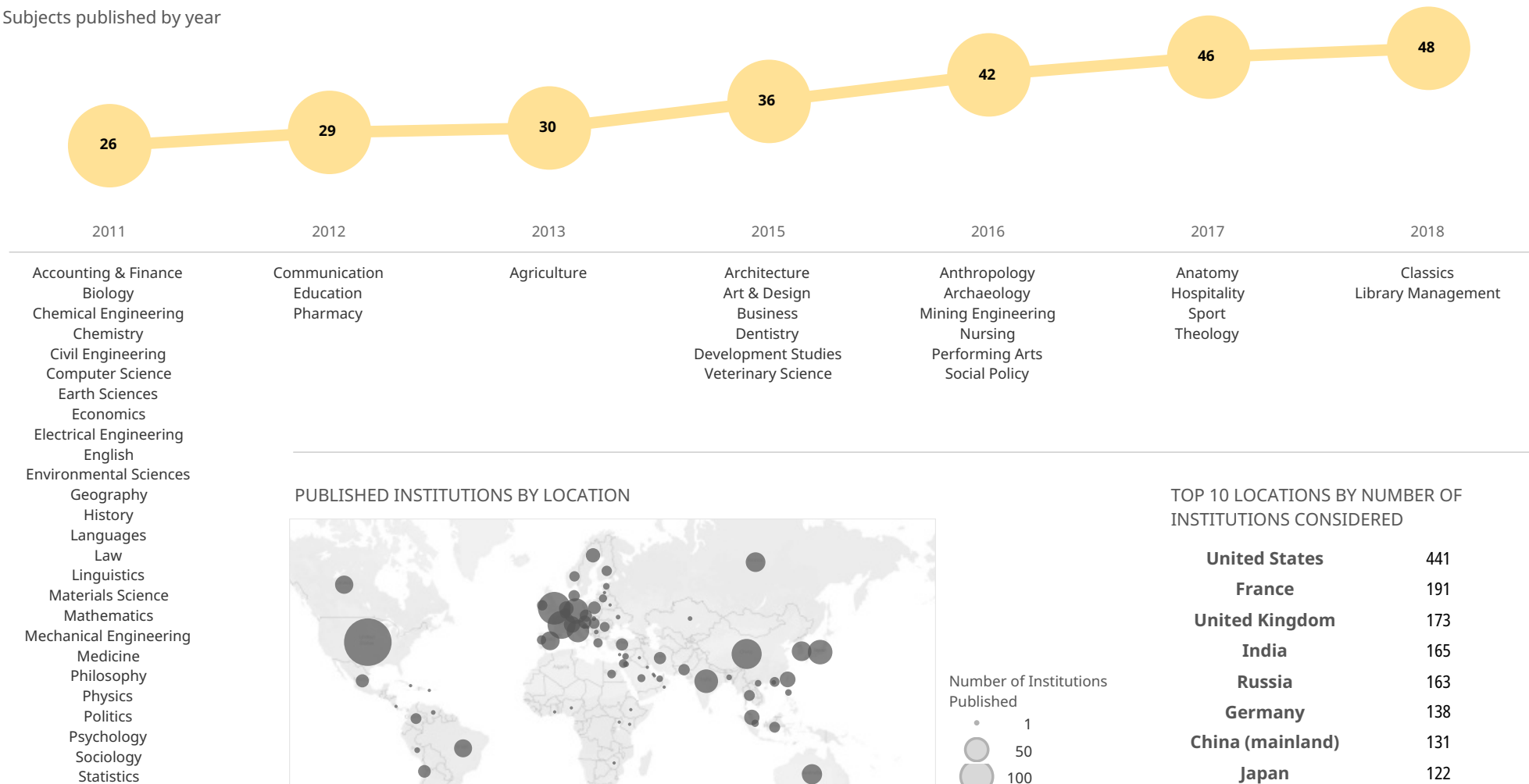




## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The **QS World University Rankings® by Subject** ranks the world's top universities in individual subject areas, covering 48 disciplines as of 2020. A list of the considered subjects, grouped by the year of first release, is presented below.

Subjects published by year



PUBLISHED INSTITUTIONS BY LOCATION



TOP 10 LOCATIONS BY NUMBER OF INSTITUTIONS CONSIDERED

<b>United States</b>	441
<b>France</b>	191
<b>United Kingdom</b>	173
<b>India</b>	165
<b>Russia</b>	163
<b>Germany</b>	138
<b>China (mainland)</b>	131
<b>Japan</b>	122
<b>South Korea</b>	107
<b>Brazil</b>	94



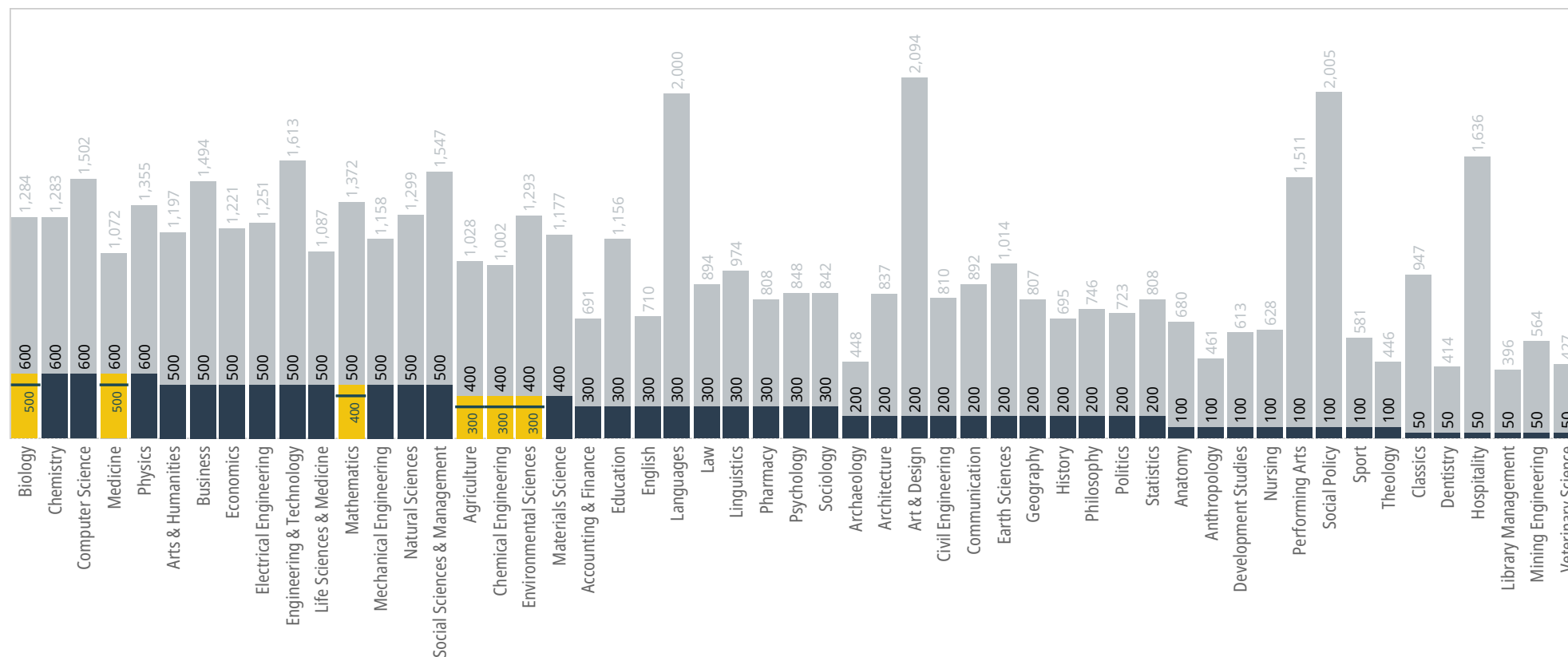
## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The charts below present the number of institutions considered and published in each of the relevant subject areas.

Subjects	Locations	Institutions
48	158	1,369

### INSTITUTIONS CONSIDERED AND PUBLISHED BY SUBJECT - YEAR 2020

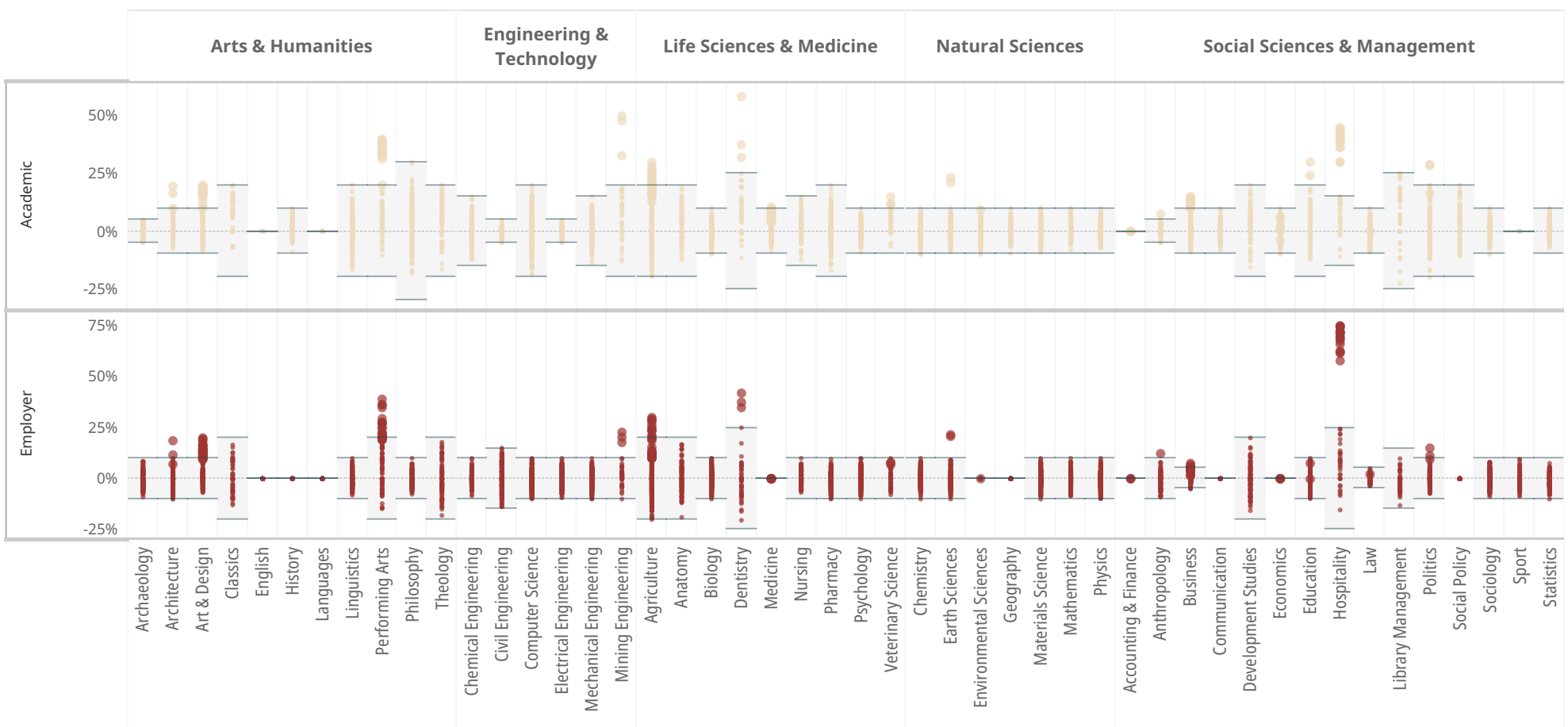
Subjects with **highlight color** have extended publishing ranges.



## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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 five places, a positive or negative adjustment is applied in the Reputation score. The method compares the proportional difference for each institution against the maximum and minimum recorded globally. The maximum change cannot exceed the percentages presented in the chart below.

## DISTRIBUTION OF SPECIALIST ADJUSTMENTS - REPUTATION



## 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

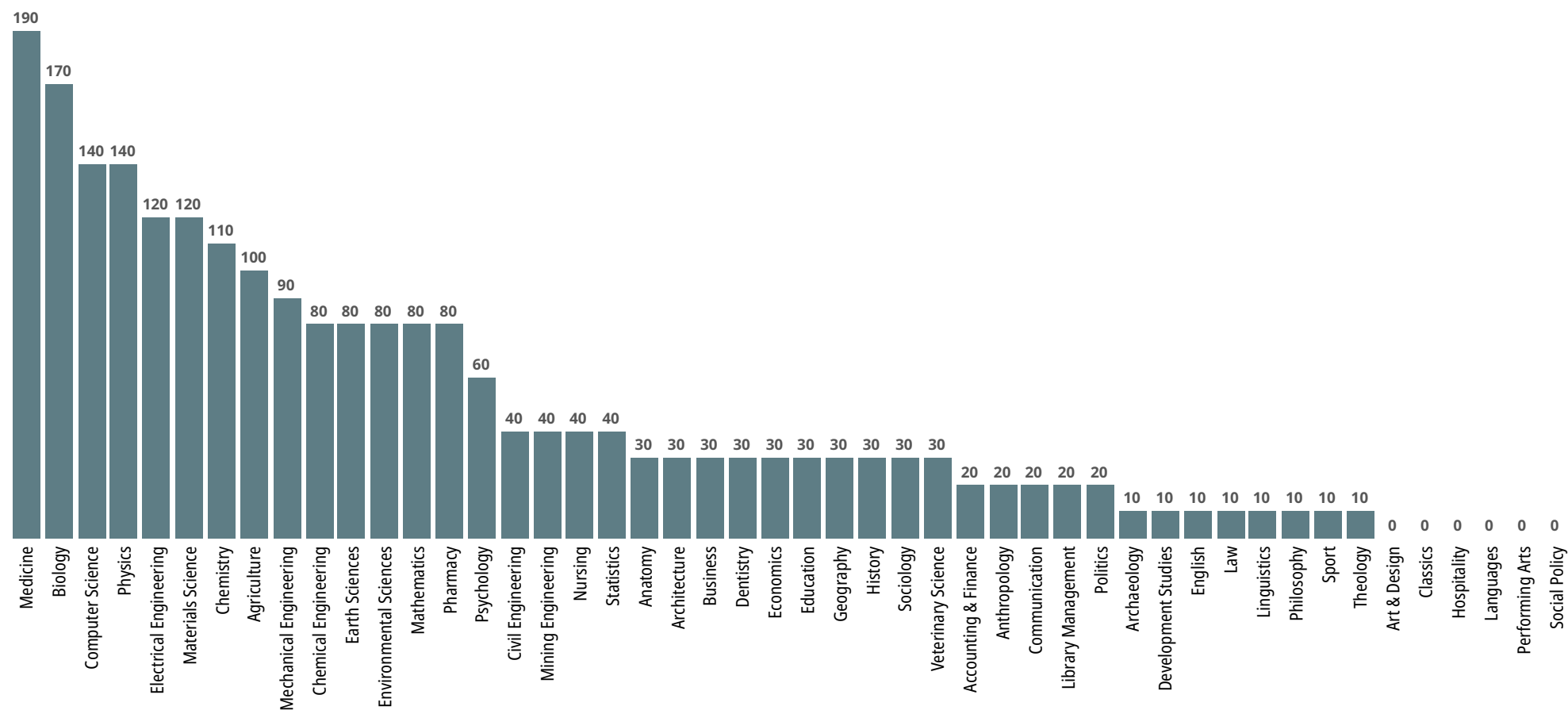
In order to feature in any discipline table, an institution must meet three simple prerequisites:

- 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 2020

MINIMUM NUMBER OF PUBLICATIONS INDEXED BY SCOPUS REQUIRED TO BE CONSIDERED IN THE RANKINGS.



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**Ken Trinh** Data Acquisition Manager

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