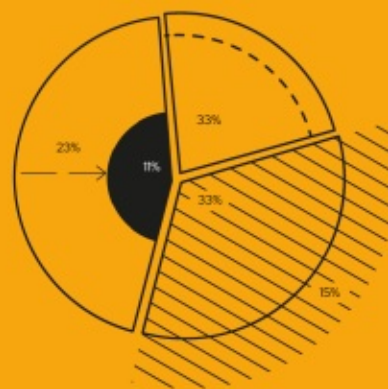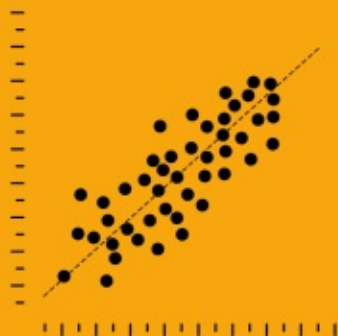## SUBJECT RANKINGS 2022

WELCOME TO THE 2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's fact file for the QS 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.qs.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

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT AREA

UNIVERSIDADE DE SÃO PAULO

Brazil

	68=	96=	61	77	74=
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
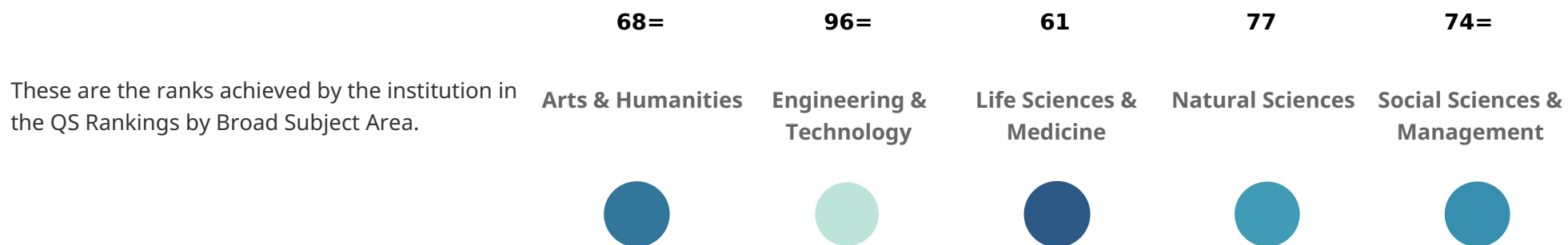
OVERALL SCORES BY BROAD SUBJECT AREA

Natural Sciences	78.4
Life Sciences & Medicine	77.9
Engineering & Technology	76.7
Arts & Humanities	76.5
Social Sciences & Management	74.9

In 2022, Universidade de São Paulo has been ranked in **5** out of 5 broad subject areas.

Life Sciences & Medicine is the institution's strongest field at rank **61** with an overall score of **77.9**.

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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	IRN	Score
Arts & Humanities	Arts & Humanities	68=	1	82.8	76.5	66.0	57.1	47.0	76.5
	Archaeology								
	Architecture / Built Environment	44	1	71.6	79.9	77.9	74.9		73.4
	Art & Design	51-100	1	58.3	83.1				60.8
	Classics & Ancient History			49.6	64.5				51.1
	English Language & Literature	151-200	1	64.4	75.8	60.2			65.1
	History	51-100	1	74.6	71.1	76.4	70.1		73.8
	Linguistics	151-200	1=	61.6	80.7	61.5	64.2		63.6
	Modern Languages	41=	1	81.5	77.4				80.3
	Performing Arts			54.9	63.6				56.6
	Philosophy	151-200	1=	57.5	73.9	64.1	60.7		59.3
	Theology, Divinity & Religious Studies			48.7	64.6	76.6	77.8		56.0
Engineering & Technology	Engineering & Technology	96=	1	78.2	75.2	76.7	73.6	78.0	76.7
	Computer Science & Information Systems	89=	1	59.0	79.5	69.6	69.9		68.4
	Engineering - Chemical	81=	1=	70.6	78.5	80.5	76.6		75.4
	Engineering - Civil & Structural	51-100	1	70.4	80.7	82.2	72.4		75.6
	Engineering - Electrical & Electronic	95	2	67.6	76.5	78.8	74.9		73.0
	Engineering - Mechanical, Aeronautical & Manufact..	70=	1	73.4	79.2	78.2	75.7		76.2
	Engineering - Mineral & Mining	31	1	52.2	81.5	82.1	78.9		69.5
	Petroleum Engineering	32	2	63.7	67.2	82.1	82.6		70.3

If you have a displayed score in reputation and citation indicators then you met the minimum threshold for consideration.

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	IRN	Score
Life Sciences & Medicine	Life Sciences & Medicine	61	1	82.1	75.6	74.4	70.6	85.00	77.9
	Agriculture & Forestry	48=	2	61.5	75.4	81.8	89.1		72.5
	Anatomy & Physiology	51-100	1	67.4	75.5	74.2	87.4		74.9
	Biological Sciences	93=	1	73.5	77.6	76.0	75.2		75.0
	Dentistry	15	1	64.2	65.1	79.9	81.8		74.3
	Medicine	77	1	70.3	75.4	83.9	77.2		75.9
	Nursing	51-100	1	71.6	75.4	83.9	87.0		80.3
	Pharmacy & Pharmacology	63	1	68.5	79.1	82.4	88.1		77.9
	Psychology	101-150	1	69.5	79.8	72.9	75.9		73.5
	Veterinary Science	41	1	72.9	89.8	80.2	81.1		79.2
Natural Sciences	Natural Sciences	77	1	78.6	75.0	78.9	77.9	84.00	78.4
	Chemistry	92=	1	72.5	80.5	73.8	67.1		73.3
	Earth & Marine Sciences	51-100	1	74.3	80.0	83.2	80.0		78.5
	Environmental Sciences	66=	1	82.6	78.2	81.6	81.6		81.7
	Geography	38	1	83.4	77.8	81.0	72.1		80.8
	Geology	51-100	1	71.2	80.6	83.7	80.3		78.6
	Geophysics	51-100	1	71.2	80.6	83.5	78.8		78.1
	Materials Science	101-150	1=	72.2	82.5	77.6	68.4		73.6
	Mathematics	95	1	74.7	74.1	67.9	74.6		73.2
	Physics & Astronomy	87=	1	70.6	77.6	80.8	81.5		76.2
Social Sciences & Management	Social Sciences & Management	74=	1	78.1	74.5	75.1	66.3	57.00	74.9
	Accounting & Finance	92=	1	71.6	76.9	59.8	59.5		70.8
	Anthropology	42=	1	78.6	74.8	73.7	67.3		76.6
	Business & Management Studies	97=	1	65.5	75.4	74.3	87.1		71.5
	Communication & Media Studies	101-150	1	77.2	82.1	63.4	56.6		70.8
	Development Studies								
	Economics & Econometrics	137=	1	66.2	76.3	69.5	56.9		67.0
	Education	101-150	1	67.8	78.9	65.6	66.0		68.1
	Hospitality & Leisure Management	51-100	1	53.0	43.9	55.2			48.6
	Law	51=	1	75.2	78.0	74.7	67.4		74.8
	Library & Information Management			45.3	86.8	78.7	79.3		56.2
	Politics & International Studies	51-100	1	71.7	78.2	75.0	67.8		73.6
	Social Policy & Administration								
	Sociology	49=	1	79.6	74.7	64.3	61.6		75.6
	Sports-related Subjects	49=	1	69.1	69.8	87.4	86.1		74.5
	Statistics & Operational Research	51-100	1	75.2	78.2	69.8	84.6		76.3

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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	Arts & Humanities	63=	57	68=
	Art & Design	51-100	51-100	51-100
	History	51-100	51-100	51-100
	Archaeology			
	Architecture / Built Environment	43	48=	44
	Classics & Ancient History			
	English Language & Literature	151-200	151-200	151-200
	Linguistics	151-200	151-200	151-200
	Modern Languages	42=	47	41=
	Performing Arts			
	Philosophy	101-150	151-200	151-200
	Theology, Divinity & Religious Studies			
Engineering & Technology	Engineering & Technology	86=	86=	96=
	Computer Science & Information Systems	51-100	79=	89=
	Engineering - Chemical	51-100	73	81=
	Engineering - Civil & Structural	46	39=	51-100
	Engineering - Mechanical, Aeronautical & Manufactu..	51-100	61	70=
	Engineering - Electrical & Electronic	51-100	102=	95
	Engineering - Mineral & Mining	33=	34	31
	Petroleum Engineering		29	32
Life Sciences & Medicine	Life Sciences & Medicine	79	74=	61
	Agriculture & Forestry	49=	46=	48=
	Anatomy & Physiology	49=	51-100	51-100
	Biological Sciences	101-150	106=	93=
	Medicine	51-100	85=	77
	Pharmacy & Pharmacology	51-100	65	63
	Psychology	101-150	101-150	101-150
	Veterinary Science	48	40=	41
	Dentistry	18=	13	15
	Nursing	51-100	51-100	51-100

		2020	2021	2022
Natural Sciences	Natural Sciences	76=	75	77
	Chemistry	101-150	108	92=
	Earth & Marine Sciences	51-100	51-100	51-100
	Environmental Sciences	51-100	71=	66=
	Geography	47	46	38
	Materials Science	101-150	101-150	101-150
	Mathematics	51-100	96=	95
	Physics & Astronomy	51-100	90=	87=
	Geology		51-100	51-100
	Geophysics		51-100	51-100
Social Sciences & Management	Social Sciences & Management	63=	52=	74=
	Accounting & Finance	51-100	101-150	92=
	Anthropology	51-100	44=	42=
	Business & Management Studies	51-100	90=	97=
	Communication & Media Studies	51-100	101-150	101-150
	Development Studies			
	Economics & Econometrics	101-150	123=	137=
	Education	101-150	101-150	101-150
	Hospitality & Leisure Management		37=	51-100
	Law	47=	46=	51=
	Library & Information Management			
	Politics & International Studies	51-100	50	51-100
	Social Policy & Administration			
	Sociology	51-100	63=	49=
	Sports-related Subjects	42=	51-100	49=
	Statistics & Operational Research	51-100	51-100	51-100

APPENDICES

DEFINITIONS, WEIGHTINGS, THRESHOLDS, AND HEADLINE FIGURES

METHODOLOGY: DEFINITIONS

ACADEMIC REPUTATION
Between 2017 and 2021 QS has collected votes from over 130,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertises.

EMPLOYER REPUTATION
The employability metric is based on employer reputation. The voice of over 75,000 global employers have been taken into account between 2017 and 2021 giving us a large pool of information in terms of hiring levels.

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.

H-INDEX
The h-index is an index that attempts to measure the stability of impact and quality of the work published by the insitutions' scientists and scholars.

IRN
International Research Network (IRN) is a measure of efficiency of establishing stable research collaborations in every of our 5 broad subject areas. It is introduced in the rankings by broad subject area only.

	Arts & Humanities	Engineering & Technology	Life Sciences & Medicine	Natural Sciences	Social Sciences & Management
Academic Reputation	60.0%	40.0%	40.0%	40.0%	50.0%
Employer Reputation	20.0%	30.0%	10.0%	20.0%	30.0%
Citations per Paper	7.5%	10.0%	20.0%	15.0%	7.5%
H-Index	7.5%	10.0%	20.0%	15.0%	7.5%
IRN	5.0%	10.0%	10.0%	10.0%	5.0%

2022 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 2022 edition of the rankings.

Legend:
- **Academic Reputation** (purple)
- **Employer Reputation** (red)
- **Citations per Paper** (light green)
- **H-index** (dark green)

ARTS & HUMANITIES

Subject	Academic Reputation	Employer Reputation	Citations per Paper	H-index
Archaeology	70%	10%	10%	10%
Architecture	70%	10%	10%	10%
Art & Design	90%	10%	–	–
Classics	90%	–	–	10%
English	80%	–	10%	10%
History	60%	10%	15%	15%
Languages	70%	30%	–	–
Linguistics	80%	–	10%	10%
Performing Arts	80%	20%	–	–
Philosophy	75%	–	15%	10%
Theology	70%	10%	10%	10%

ENGINEERING & TECHNOLOGY

Subject	Academic Reputation	Employer Reputation	Citations per Paper	H-index
Chemical Engineering	40%	30%	15%	15%
Civil Engineering	40%	30%	15%	15%
Computer Science	40%	30%	15%	15%
Electrical Engineering	40%	30%	15%	15%
Mechanical Engineeri…	40%	30%	15%	15%
Mining Engineering	40%	30%	15%	15%
Petroleum Engineering	40%	30%	15%	15%

LIFE SCIENCES & MEDICINE

Subject	Academic Reputation	Employer Reputation	Citations per Paper	H-index
Agriculture	50%	10%	20%	20%
Anatomy	40%	10%	25%	25%
Biology	40%	10%	25%	25%
Dentistry	30%	10%	30%	30%
Medicine	40%	10%	25%	25%
Nursing	30%	10%	30%	30%
Pharmacy	40%	10%	25%	25%
Psychology	40%	20%	20%	20%
Veterinary Science	30%	10%	30%	30%

NATURAL SCIENCES

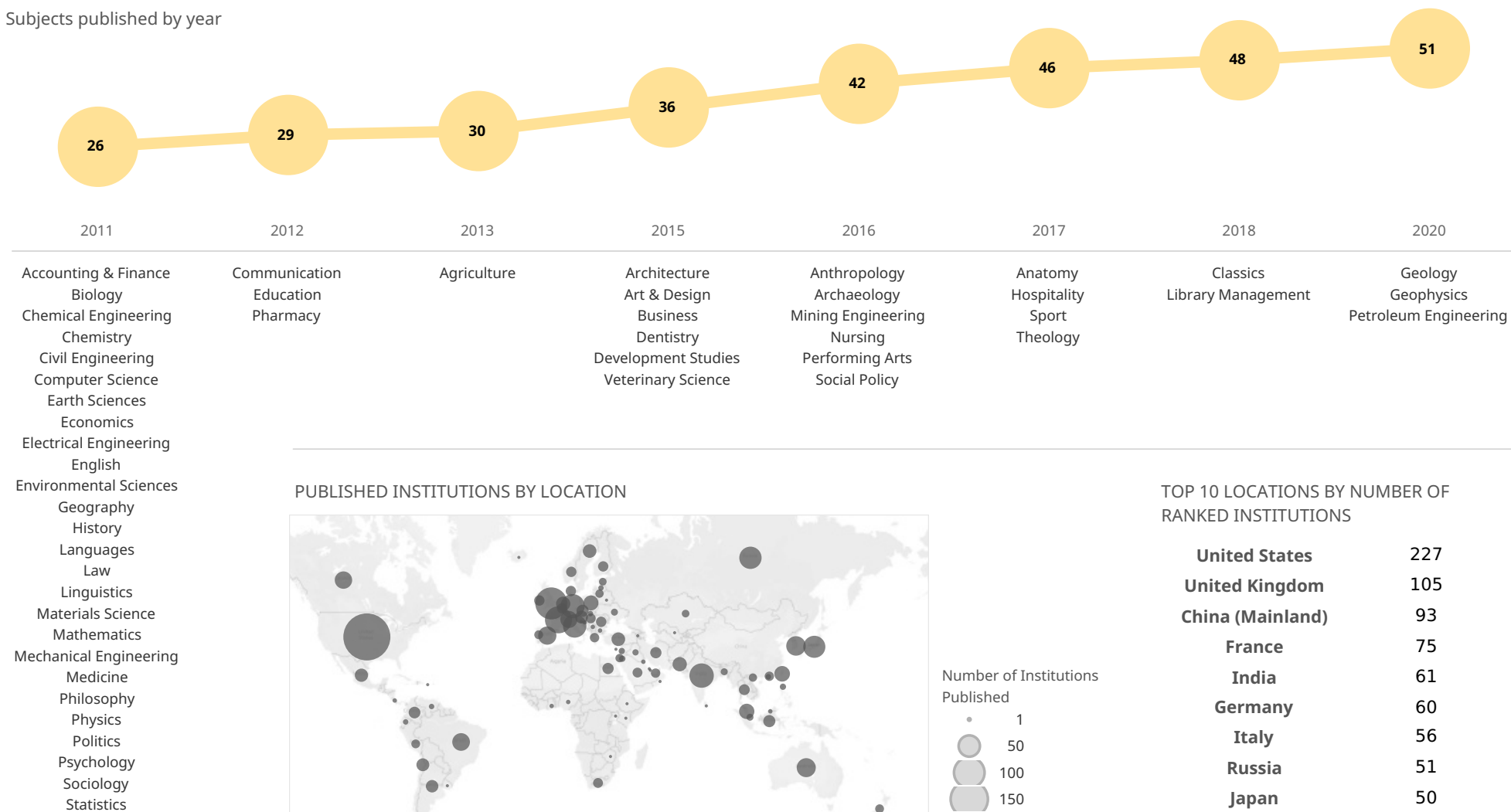| Subject	Academic Reputation	Employer Reputation	Citations per Paper	H-index
Chemistry	40%	20%	20%	20%
Earth Sciences	40%	10%	25%	25%
Environmental Scienc…	40%	10%	25%	25%
Geography	60%	10%	15%	15%
Geology	30%	10%	30%	30%
Geophysics	30%	10%	30%	30%
Materials Science	40%	10%	25%	25%
Mathematics	40%	20%	20%	20%
Physics	40%	20%	20%	20%

SOCIAL SCIENCES & MANAGEMENT

Subject	Academic Reputation	Employer Reputation	Citations per Paper	H-index
Accounting & Finance	50%	30%	10%	10%
Anthropology	70%	10%	10%	10%
Business	50%	30%	10%	10%
Communication	50%	10%	20%	20%
Development Studies	60%	15%	10%	15%
Economics	40%	20%	20%	20%
Education	50%	10%	20%	20%
Hospitality	45%	50%	–	5%
Law	50%	30%	15%	5%
Library Management	70%	10%	15%	5%
Politics	50%	30%	10%	10%
Social Policy	70%	–	20%	10%
Sociology	70%	10%	15%	5%
Sport	60%	10%	15%	15%
Statistics	50%	10%	20%	20%

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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.
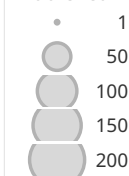
Subjects published by year

2011	2012	2013	2015	2016	2017	2018	2020
26	29	30	36	42	46	48	51

2011	2012	2013	2015	2016	2017	2018	2020
Accounting & Finance	Communication	Agriculture	Architecture	Anthropology	Anatomy	Classics	Geology
Biology	Education		Art & Design	Archaeology	Hospitality	Library Management	Geophysics
Chemical Engineering	Pharmacy		Business	Mining Engineering	Sport		Petroleum Engineering
Chemistry			Dentistry	Nursing	Theology		
Civil Engineering			Development Studies	Performing Arts			
Computer Science			Veterinary Science	Social Policy			
Earth Sciences							
Economics							
Electrical Engineering							
English							
Environmental Sciences							
Geography							
History							
Languages							
Law							
Linguistics							
Materials Science							
Mathematics							
Mechanical Engineering							
Medicine							
Philosophy							
Physics							
Politics							
Psychology							
Sociology							
Statistics							

PUBLISHED INSTITUTIONS BY LOCATION

© 2022 Mapbox © OpenStreetMap

Number of Institutions Published
- · 1
- 50
- 100
- 150
- 200

TOP 10 LOCATIONS BY NUMBER OF RANKED INSTITUTIONS

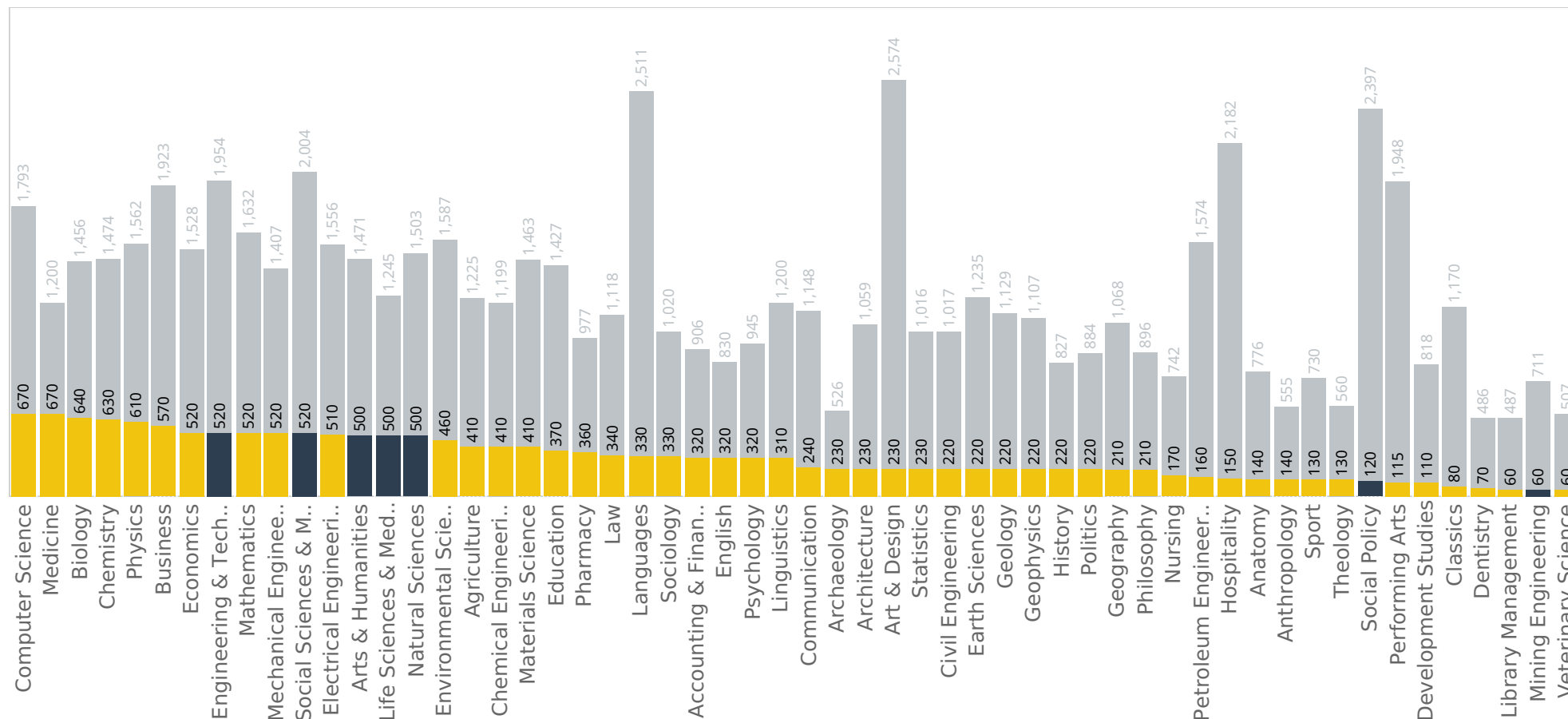| Location	
United States	227
United Kingdom	105
China (Mainland)	93
France	75
India	61
Germany	60
Italy	56
Russia	51
Japan	50
South Korea	39

2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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

Subjects Published	Locations Evaluated	Institutions Published
51	**161**	**1,543**
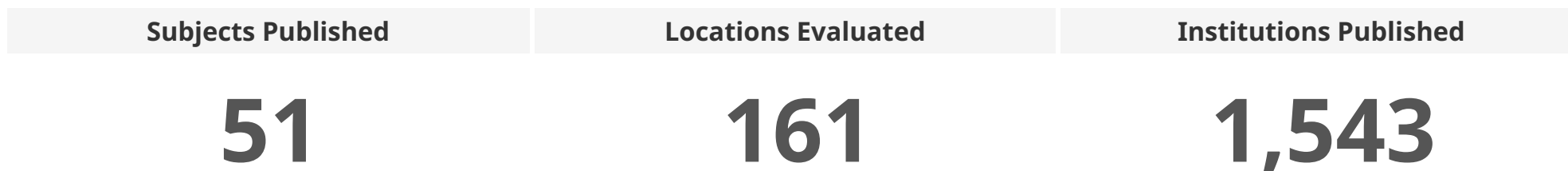
INSTITUTIONS ANALYSED AND PUBLISHED BY SUBJECT - YEAR 2022

Subjects with highlight color have extended publishing ranges.

Subject	Analysed	Published
Computer Science	1,793	670
Medicine	1,200	670
Biology	1,456	640
Chemistry	1,474	630
Physics	1,562	610
Business	1,923	570
Economics	1,528	520
Engineering & Tech..	1,954	520
Mathematics	1,632	520
Mechanical Enginee..	1,407	520
Social Sciences & M..	2,004	520
Electrical Engineeri..	1,556	510
Arts & Humanities	1,471	500
Life Sciences & Med..	1,245	500
Natural Sciences	1,503	500
Environmental Scie..	1,587	460
Agriculture	1,225	410
Chemical Engineeri..	1,199	410
Materials Science	1,463	410
Education	1,427	370
Pharmacy	977	360
Law	1,118	340
Languages	2,511	330
Sociology	1,020	330
Accounting & Finan..	906	320
English	830	320
Psychology	945	320
Linguistics	1,200	310
Communication	1,148	240
Archaeology	526	230
Architecture	1,059	230
Art & Design	2,574	230
Statistics	1,016	230
Civil Engineering	1,017	220
Earth Sciences	1,235	220
Geology	1,129	220
Geophysics	1,107	220
History	827	220
Politics	884	220
Geography	1,068	210
Philosophy	896	210
Nursing	742	170
Petroleum Engineer..	1,574	160
Hospitality	2,182	150
Anatomy	776	140
Anthropology	555	140
Sport	730	130
Theology	560	130
Social Policy	2,397	120
Performing Arts	1,948	115
Development Studies	818	110
Classics	1,170	80
Dentistry	486	70
Library Management	487	60
Mining Engineering	711	60
Veterinary Science	507	60

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2022 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 reputation rank calculated for each subject is compared against the reputation rank obtained in the relevant broad subject area containing the said subject according to the QS mapping. For example, the reputation results in Biology are compared against the overall reputation rank in Life Sciences & Medicine. Whenever the reputation 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 each institution against the maximum and minimum recorded globally.

DISTRIBUTION OF SPECIALIST ADJUSTMENTS - REPUTATION
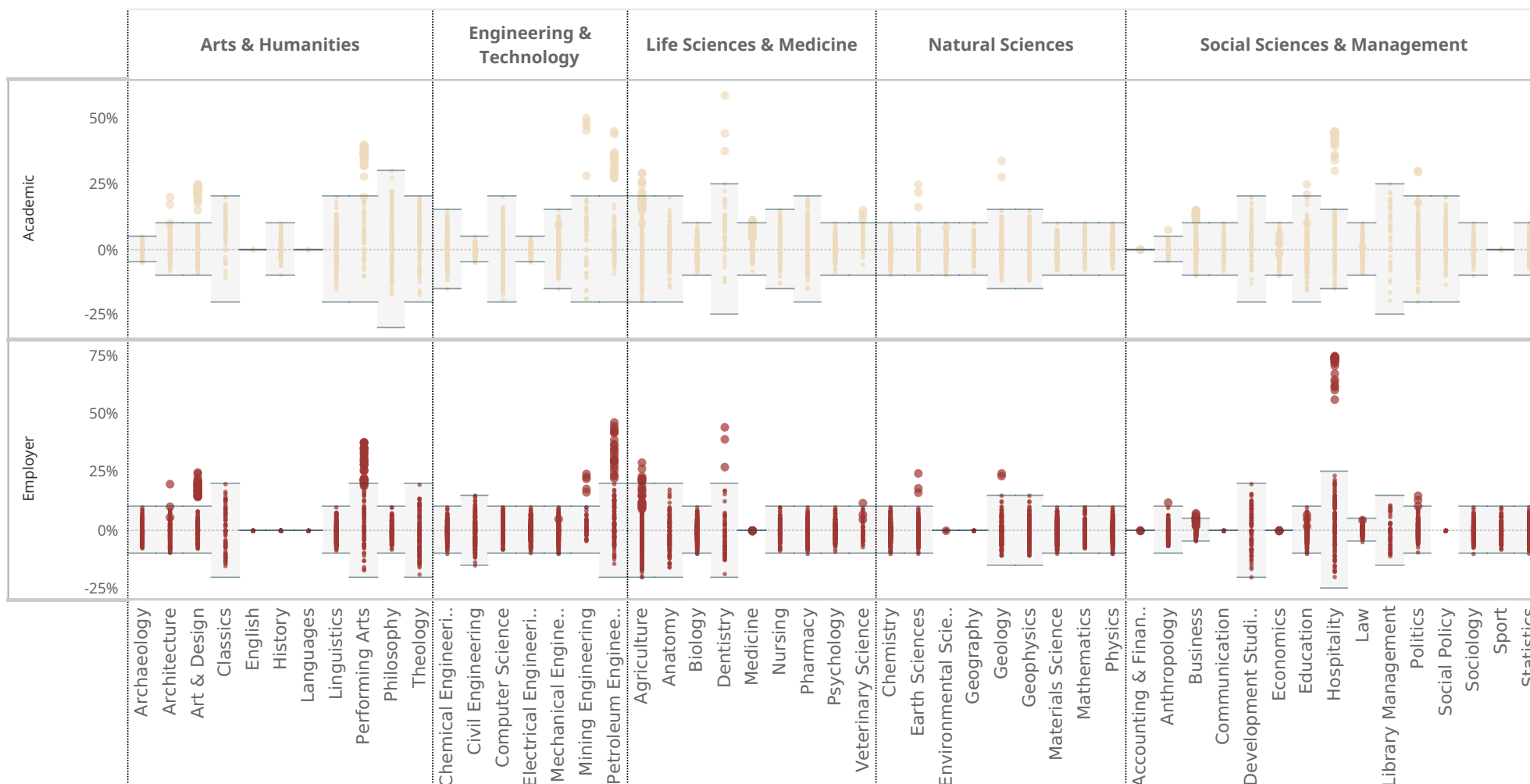
2022 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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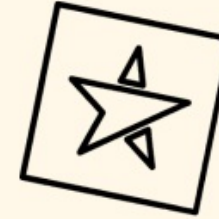
The following chart discloses the minimum number of papers required to be considered in the latest edition of the rankings by subject.

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

Subject	Threshold
Medicine	190
Biology	170
Computer Scien..	140
Physics	140
Electrical Engine..	120
Materials Science	120
Chemistry	110
Agriculture	100
Mechanical Engi..	90
Chemical Engine..	80
Earth Sciences	80
Environmental S..	80
Geology	80
Geophysics	80
Mathematics	80
Pharmacy	80
Psychology	60
Civil Engineering	40
Mining Engineeri..	40
Nursing	40
Petroleum Engin..	40
Statistics	40
Anatomy	30
Architecture	30
Business	30
Dentistry	30
Economics	30
Education	30
Geography	30
History	30
Sociology	30
Veterinary Scien..	30
Accounting & Fi..	20
Anthropology	20
Communication	20
Library Manage..	20
Politics	20
Archaeology	10
Development St..	10
English	10
Law	10
Linguistics	10
Philosophy	10
Sport	10
Theology	10
Art & Design	0
Classics	0
Hospitality	0
Languages	0
Performing Arts	0
Social Policy	0

How will QS Stars help my Institution

The QS Stars university rating system is an internationally recognised mark of quality that provides a comprehensive and in-depth independent framework to rate and compare universities' performance across a broad spectrum of criteria.

Its aim is to improve the overall quality of the higher education sector by providing valuable insights into areas of strengths and weaknesses.

Drive institutional development

Enhance brand recognition and reputation

Attract domestic and international students

Improve performance in key areas

QS STARS

For more information, please contact qsstars@qs.com

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GLOBAL EDUCATION NEWS

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August 2021
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Issue: 05

REASSESSING
ASSESSMENT

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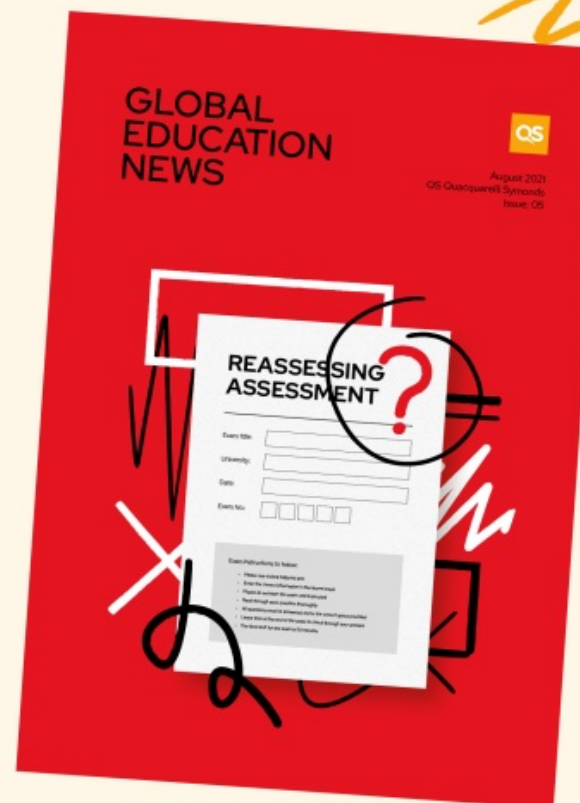
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653,000	**258,000**	**52,000**
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