

Improving Learning

Opportunities for growing research collaboration between Latin America and Australia

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Acronyms and Abbreviations

Acronym	Meaning
ANZSRC	Australian and New Zealand Standard Research Classification
ACER	Australian Council for Educational Research
ARWU	Academic Ranking of World Universities
ASJC	All Science Journal Classification
CIELAWG	Council for International Education Latin America Working Group
CWTS	Centrum voor Wetenschap en Technologische Studies (Centre for Science and Technology Studies, Leiden University)
THE	Times Higher Education

Executive Summary

This report has been prepared to provide Australian research stakeholders with information that can be used to identify potential future partners in the Latin American region for research collaboration. The report responds to the current perceived low level of research collaboration between Australia and Latin America - which may be due to the limited understanding that Australian researchers have about research institutions in the region (CIELAWG, 2018).

The report provides information about some of the high-performing countries and research institutions in the Latin American region, both across all and within each of the 22 ANZSRC broad fields of research. Three case studies for fields of particular shared interest to Australian and Latin American researchers - Water Management, Mining, and Tropical Health – have also been included in this report. The Latin American region is defined in this project as including all Spanish and Portuguese speaking countries south of the United States of America.

Bibliometric data and university rankings were used to provide a snapshot of some of the top-performing institutions in the Latin American region. The findings highlight the large amount of research that is being published by certain countries and institutions in Latin America. Brazil is clearly the front-runner in terms of current levels of research publication, and also dominate the region in world university rankings. Other countries – in particular Argentina, Mexico, Chile, Colombia, and to a lesser extent, Peru – are also producing significant amounts of research. The report focuses on these six largest Latin American research producing countries.

Between 2014 and 2018, more than 500,000 peer-reviewed journal articles that were indexed by Scopus were published by researchers from Latin America. The amount of research being published by researchers in Latin America has rapidly increased over the past few years. Researchers from Brazil authored, or co-authored more than half of all these journal articles. The countries outside of Latin America that researchers from Latin America are co-authoring the most papers with include the United States, Spain, United Kingdom, Germany and France.

Universidade de São Paulo (Brazil) is clearly the most prolific research institution in the region in terms of its level of publication, and is among the top-performing institutions in every field of research. Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina) and the Universidad Nacional Autónoma de México (Mexico) are also producing substantial amounts of published research in a broad range of research fields.

Currently a relatively small proportion of journal articles are being co-authored by researchers from Australia and Latin America. Only three per cent of all journal articles published by Australian researchers between 2014 and 2018 included one or more co-authors from a Latin American country. The level of co-authorship varies by field of research with the highest levels of co-authorship between Australian and Latin American researchers being in the fields of Physical Sciences, Biological Sciences, and Agricultural and Veterinary Sciences.

The report has used simple metrics and existing university rankings to take a snapshot of the current high-performing institutions in Latin America. Future research could be conducted to refresh this report to identify any changes in the research landscape of Latin America and to explore the research strengths of Latin American institutions in more detail to identify more specific collaboration opportunities. This research could also potentially identify individual departments within research institutions or even individual researchers in Latin America as potential research collaborators for Australian research stakeholders.

Overview

This report has been prepared to provide Australian research stakeholders with information about high-performing research institutions in the Latin American region. It is intended to provide information that Australian research stakeholders can use to identify potential partners in the Latin American region for future research collaboration. This report has been developed by the Australian Council for Educational Research (ACER) on behalf of the Australian Government Department of Education.

The project was proposed in response to a perceived low level of research collaboration between researchers in Australia and the Latin American region, due at least in part to the limited understanding that Australian researchers currently have of research institutions in the region (CIELAWG, 2018). One key recommendation included in the CIELAWG report, *An Educated Choice* (2018), was to identify and develop 'information resources on Latin American centres of research excellence to support opportunities for research collaboration'. The report is intended to be one such information resource.

The report provides an overview of the project, followed by information about the methodology, including its limitations, which readers are encouraged to review before reading the remainder of the report. The findings are then presented by country and by subject area. Throughout the report the Spanish and Portuguese institution names have been used. Official English translations of all institutions mentioned in this report are included in the appendices.

The findings by country focus on the six largest Latin American research producing countries – Argentina, Brazil, Chile, Colombia, Mexico and Peru. This section includes an overview of the level of publication by country, information about the level of international collaboration, particularly focusing on the collaboration between Latin American countries and Australia, and a summary of Latin American university rankings. It also includes tables listing some of the top research institutions within each of these six countries with information about their levels of publication, Australian co-authorship and – where applicable - rankings.

The findings by subject area provide a summary for each of the 22 proxy Australian and New Zealand Standard Research Classification (ANZSRC) fields of research. The five top-performing research institutions in the Latin American region are shown for each field of research, including information about the level of publication, Australian co-authorship, citations and h-index¹, as well as a comparison of the level of publication for Latin America, Australia and the five largest publishing countries globally. This section also includes three case studies for fields of particular shared interest to Australian and Latin American researchers - Water Management, Mining, and Tropical Health.

To conclude, the report provides a brief summary of the overall findings and identifies possible areas for future research. Four appendices are included in this report:

- Appendix A provides a list of the 22 proxy ANZSRC fields of research and the subject terms included in each field;
- Appendix B provides a list of all the advanced search terms used in the research;
- Appendix C lists all of the institutions mentioned in the report alongside their English translation; and
- Appendix D includes detailed country-level findings for all Latin American countries and lists the top-performing research institutions within each field of research within each country.

¹ An h-index provides a measure of both the level of publication and citation impact of a group of documents. A more detailed definition of this metric is provided on page 11 of this report.

Methodology

The methodology used in the project involved conducting desk research to identify some of the top-performing research institutions in the Latin American region within each of the 22 ANZSRC broad fields of research, as well as within each country. The Latin American region is defined in this project as including all Spanish and Portuguese speaking countries south of the United States of America. A list of the countries included in this definition and in this project is provided at Table 1.

Table 1: Countries in the Latin American region

Country	
Argentina	Guatemala
Bolivia	Honduras
Brazil	Mexico
Chile	Nicaragua
Colombia	Panama
Costa Rica	Paraguay
Cuba	Peru
Dominican Republic	Uruguay
Ecuador	Venezuela
El Salvador	

The Scopus database (Elsevier, 2019) was used to identify the institutions in the Latin American region that published the highest number of peer-reviewed journal articles. The metrics explored included numbers of journal articles published, numbers of citations and h-index, as well as the number of journal articles published with an international co-author. The metrics focus on the most recent complete five year period – 2014 to 2018. In addition to bibliometric data, university rankings were explored.

More specifically, the methodology involved:

- Conducting a series of searches in Scopus, using the Advanced Search feature, to identify:
 - the institutions in the Latin American region that had published the highest number of peer-reviewed journal articles in each of the 22 proxy ANZSRC fields of research between 2014 and 2018.
 - the institutions in the Latin American region that had published the highest number of peer-reviewed journal articles that were co-authored with a researcher or researchers from Australia between 2014 and 2018.
 - any other institutions from smaller countries that had a relatively high research output in order to avoid simply focusing on the largest institutions in the largest countries.
- Reviewing the most recent university research rankings, including the Academic Ranking of World Universities (ARWU), Times Higher Education (THE) World University Rankings, QS World University Rankings and the CWTS Leiden Ranking, to identify the institutions in the Latin American region with the highest research rankings.

As Scopus does not include the ANZSRC in its database, a proxy ANZSRC was developed for use in this project. This proxy ANZSRC was based on the All Science Journal Classification (ASJC) subject terms in Scopus to classify the documents it indexes. A mapping of the ASJC subject terms onto the broad ANZSRC fields of research has been completed by ACER and is included in Appendix A. In addition to the findings by field of research, this report includes three case studies that focus on some fields of research of particular shared interest to Australia and Latin America. These are Water Management, Mining, and Tropical Health. As these fields of research do not neatly fit into one or more of the ANZSRC fields of research, a separate set of searches using a combination of keywords, subject areas and specific subject terms was conducted in order to identify high-performing research institutions in the Latin American region in these specific fields of research. The advanced search terms used to conduct the searches in Scopus are included in Appendix B.

Limitations

As in any research project, a number of assumptions have been made in developing the methodology for this project. These include:

- that research quality can be quantitatively measured;
- that research quantity – for example the number of publications in peer-reviewed journals – is an appropriate proxy for research quality;
- that universities that are highly ranked are producing higher quality research than universities that are less highly ranked; and
- that high-performing research institutions in the Latin American region offer the best potential research collaboration partners for Australian researchers and research institutions.

One of the major limitations in this report is its focus on bibliometric data. The main issue with using bibliometric data as a proxy for research quality is that not all research activity leads to the publication of a peer-reviewed journal article (see for example, Anninos, 2014).

A specific limitation of this report is in its use of the Scopus database to identify high-performing research institutions in the Latin American region. Although currently the largest database of peer-reviewed literature globally, Scopus's English language requirements for publication may mean that some journal articles that are published solely in Spanish or Portuguese would likely be excluded from its database. However, Scopus does have a strong coverage of publications from the Latin American region. About a fifth of all titles indexed by Scopus are published in languages other than English and Scopus indexes a greater number of publications from outside of Western Europe and North America than other databases (Elsevier, 2017).

Another limitation of this report is that it only provides a snapshot of research performance. The report focuses on research publications during the most recent five-year period – from 2014 to 2018. Because of this, it does not provide much information on the change in the level of research output or research impact over a period. In addition, because new documents are indexed by the Scopus database regularly, even though the report only focuses on to the five year period up to 2018, it is not possible to exactly replicate the findings again.

There are many metrics that can be used to measure research outputs and outcomes. This report uses publications, citation counts, international collaboration measures and h-index.

Publication counts in this report list the number of the journal articles published between 2014 and 2018 and indexed in Scopus. The number of publications can be used as a measure of research productivity. The citation counts included in this report were based on the number of times a group of journal articles – for example, published by researchers affiliated with a particular country or institution between 2014 and 2018 – had been cited to date. Measures of international collaboration between Latin America and Australia have also been included in this report. The level of international collaboration has been quantified by the number and per cent of journal articles published between 2014 and 2018 that include co-authors from one or more Latin American countries and from Australia.

Finally, this report also includes some h-index metrics for countries and for institutions. The h-index provides a relative measure of research productivity and citation impact. It is usually calculated for an individual researcher or group of researchers, such as a research unit, institution or country, using two pieces of information: the total number of publications and the number of citations for each publication. The h-index indicates the number of publications (h) for a researcher or group of researchers that have received at least h citations each. For example, an h-index for an individual researcher of 10 indicates that 10 of the publications authored by that researcher have been cited 10 or more times. An h-index of 200 for a research institution would mean that 200 of the publications affiliated with that research institution have been cited at least 200 times.

These metrics provide a good overview of research output and also start to provide some information on research impact. The main reason this report focused on these metrics and not others was due to their availability in the Scopus database for which ACER already held a subscription. Only a small number of metrics are reported in the Scopus database, and there are some limits on others. Other databases, such as SciVal and Thomas Reuters InCites, include more measures of research impact, however these databases were not available in preparing this report.

Other metrics that were not included as part of this report include citations per output, field-weighted citation impact, other measures of collaboration, and impact measures such as altmetrics. Citations per output measure the number of citations received on average for a group of publications. Field-weighted citation impact provides a ratio of the number of citations received for a publication or group of publications and the average citations received for similar publications. This metric compares the level of citation for an individual, institution or country with the global average and takes into account the different level of publication and citation in different fields of research. Altmetrics provide a count or score of the number of online engagements with a publication. These may include the frequency with which a publication has been downloaded or bookmarked online, shared on social networking sites, and the number of times a publication has been mentioned in the press.

Findings by country

Overview

This section provides a summary of the findings at a country level. Following initial research into the opportunities for research collaboration, six countries – Argentina, Brazil, Chile, Colombia, Mexico and Peru – were found to account for the majority of Latin American research publications. The remainder of the report focuses on these six countries (these will be referred to in this report as the ‘six largest Latin American research producers’). It is important to note that this focus does not preclude potential partnership opportunities with research institutions from other Latin American countries. Tables summarising the level of publication for all Latin American countries are included in Appendix C.

Between 2014 and 2018, more than 500,000 peer-reviewed journal articles indexed by Scopus were published by researchers from Latin America. A small number of Latin American countries dominate the publication of research literature. As shown in Figure 1, researchers from Brazil authored or co-authored more than half of all journal articles authored by Latin American researchers between 2014 and 2018. Other countries that published a large number of journal articles include Mexico, Argentina, Chile and Colombia.

Table 2 details the number of journal articles affiliated with each country in Latin America that were published and indexed by Scopus between 2014 and 2018. This shows that across Latin America, the number of journal articles being published has rapidly increased in recent years, although there have been some notable drops in the level of publication by researchers in some countries (Venezuela and Cuba, although the numbers are relatively small).

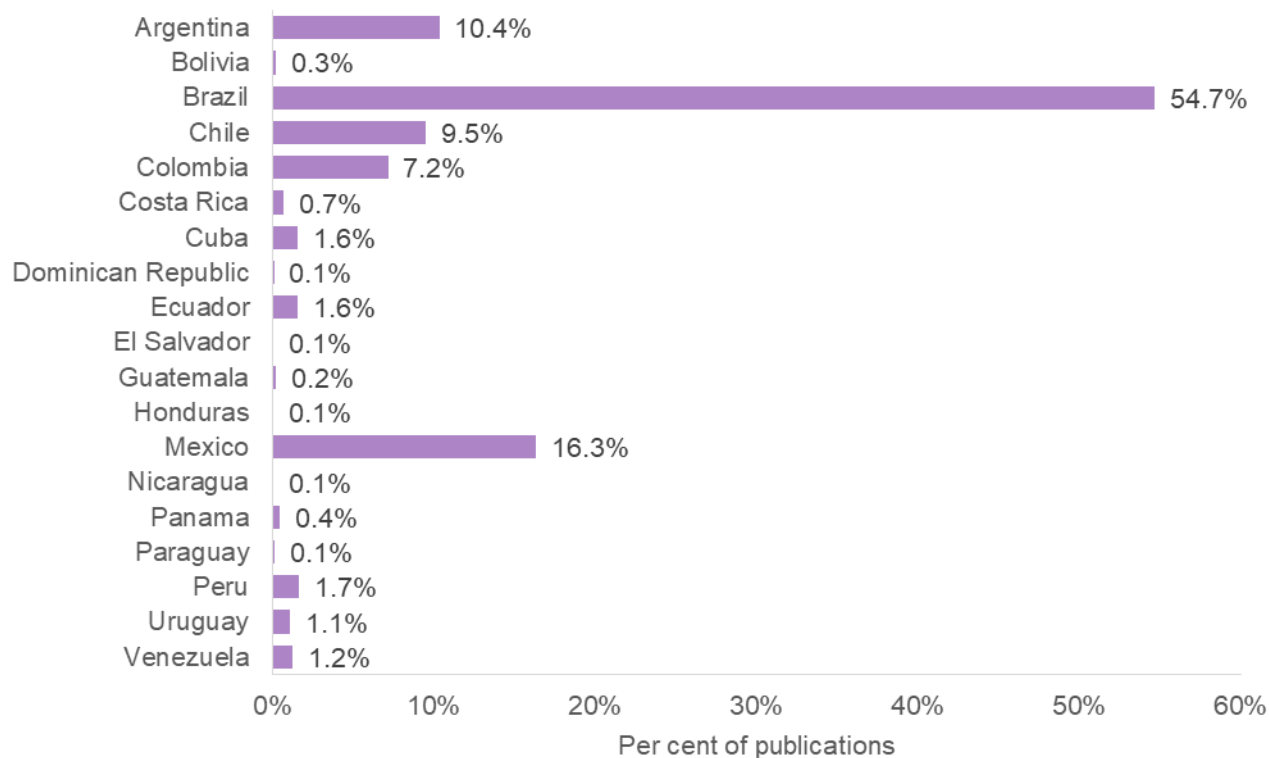


Figure 1: Per cent of Latin American journal articles produced by country (2014-2018)

Source: Scopus (Elsevier, 2019)

Table 2: Journal articles published by researchers in Latin America by year and country

Country	2014	2015	2016	2017	2018	Total	% change 2014-18
Argentina	10,379	10,516	10,728	10,931	11,495	54,049	10.8%
Bolivia	264	273	277	246	273	1,333	3.4%
Brazil	52,333	53,941	57,472	59,872	61,774	285,392	18.0%
Chile	8,544	9,295	10,054	10,393	11,233	49,519	31.5%
Colombia	5,852	6,610	7,641	8,449	8,917	37,469	52.4%
Costa Rica	689	669	734	828	846	3,766	22.8%
Cuba	1,907	1,766	1,663	1,568	1,415	8,319	-25.8%
Dominican Republic	95	120	111	151	144	621	51.6%
Ecuador	742	1,130	1,607	2,250	2,681	8,410	261.3%
El Salvador	82	118	96	86	81	463	-1.2%
Guatemala	156	207	225	235	223	1,046	42.9%
Honduras	66	93	74	114	147	494	122.7%
Mexico	15,333	16,056	17,012	18,119	18,790	85,310	22.5%
Nicaragua	86	97	112	124	101	520	17.4%
Panama	385	449	462	510	507	2,313	31.7%
Paraguay	110	155	155	197	163	780	48.2%
Peru	1,338	1,534	1,741	1,958	2,198	8,769	64.3%
Uruguay	1,093	1,066	1,190	1,184	1,318	5,851	20.6%

Country	2014	2015	2016	2017	2018	Total	% change 2014-18
Venezuela	1,522	1,384	1,271	1,276	1,046	6,499	-31.3%
TOTAL	95,001	98,510	104,776	109,931	113,868	522,086	19.9%

Source: Scopus (Elsevier, 2019)

Information from Scimago (2019) about the level of publication by researchers in different countries also highlights the dominance of Brazil, Mexico, Argentina, Chile and Colombia. Table 3 summarises the total number of documents published in 2018 and indexed in Scopus, the number of citable documents, citations, self-citations, citations per document and h-index.

Table 3: Scimago country rankings – Latin American region, 2018

Rank	Country	Documents	Citable documents	Citations	Self-citations	Citations per document	h-index
14	Brazil	81,742	74,195	40,512	13,508	0.50	530
28	Mexico	25,290	22,515	12,864	3,198	0.51	411
44	Argentina	14,737	13,185	9,230	1,926	0.63	393
45	Chile	14,618	13,295	11,763	3,091	0.80	349
47	Colombia	12,651	11,498	6,654	1,553	0.53	261
63	Ecuador	4,376	4,131	2,319	646	0.53	149
70	Peru	3,385	2,953	1,852	412	0.55	212
84	Cuba	1,806	1,624	684	157	0.38	166
86	Uruguay	1,745	1,560	1,060	203	0.61	179
90	Venezuela	1,451	1,286	777	88	0.54	205
94	Costa Rica	1,171	1,054	735	128	0.63	173
105	Panama	659	582	692	133	1.05	187
129	Bolivia	369	328	283	40	0.77	119
134	Guatemala	305	265	135	20	0.44	88
137	Paraguay	261	233	104	15	0.40	82
143	Dominican Republic	186	169	74	4	0.40	65
144	Honduras	185	157	98	9	0.53	61
153	Nicaragua	145	125	116	12	0.80	78
155	El Salvador	136	130	37	4	0.27	60

Source: Scimago (2019).

Note: 'Rank' indicates the country's global ranking in terms of level of publication. 'Documents' include all documents published by researchers affiliated with the country in 2018. 'Citable documents' include all articles, reviews and conference papers published in 2018. 'Citations' include the number of citations for all documents published in 2018. 'Self-citations' include the number of times all documents published in 2018 were cited by the document's author. 'Citations per document' indicates the average number of times each document published in 2018 was cited. 'H-index' indicates the number of documents in the set of documents (h) that have received at least h citations.

The information included in Table 3 highlights again the strength of Brazil in producing a large amount of published research. Researchers affiliated with Brazil published three times as many papers as researchers affiliated with Mexico. Five countries in Latin America – Brazil, Mexico, Argentina, Chile and Colombia – are among the top fifty highest publishing countries as ranked by Scimago. Although publishing a more modest number of papers, publications affiliated with Panama had the highest rate of citations per document.

International collaboration

In 2018, around 56 per cent of all research publications produced by Australian researchers and indexed by Scopus were co-authored with a researcher or researchers from a different country (Scimago, 2019). The level of international collaboration is also high among researchers in Latin America, and ranges from around a third for research published by researchers in Brazil to more than three-quarters of research published by researchers in Bolivia, the Dominican Republic, Guatemala, Honduras, Nicaragua, Panama and Paraguay (Scimago, 2019). Although the level of international collaboration by Latin American researchers is substantial, only two per cent of journal articles published between 2014 and 2018 by Latin American researchers (around 11,000) were co-authored with researchers from Australia (Elsevier, 2019). Similarly, only three per cent of all journal articles published in this period by Australian researchers included a co-author from the Latin American region (Elsevier, 2019).

Figure 2 shows the proportion of all papers published by researchers in Latin American countries that were co-authored with an international researcher or researchers in 2018, and the proportion of all journal articles that were co-authored with an Australian researcher or researchers between 2014 and 2018. The countries outside of Latin America that researchers from Latin America are co-authoring the most papers with include the United States (13 per cent), Spain (seven per cent), United Kingdom (five per cent), Germany (four per cent) and France (four per cent) (Elsevier, 2019).

The level of co-authorship between researchers from different Latin American countries varies greatly by country. Only around five per cent of all journal articles published by Brazilian researchers between 2014 and 2018 were co-authored with researchers from another Latin American country. In other words, while 34 per cent of Brazilian papers included an international co-author, only 16 per cent of these papers included a researcher from another Latin American country, so most of the international co-authorship occurring among Brazilian researchers was with researchers outside of Latin America. On the other side of the scale, 30 per cent of all papers published by Peruvian researchers were co-authored with researchers in another Latin American country. Of the 59 per cent of all Peruvian papers that include an international co-author, the majority – 59 per cent – of these include a co-author from another Latin American country.

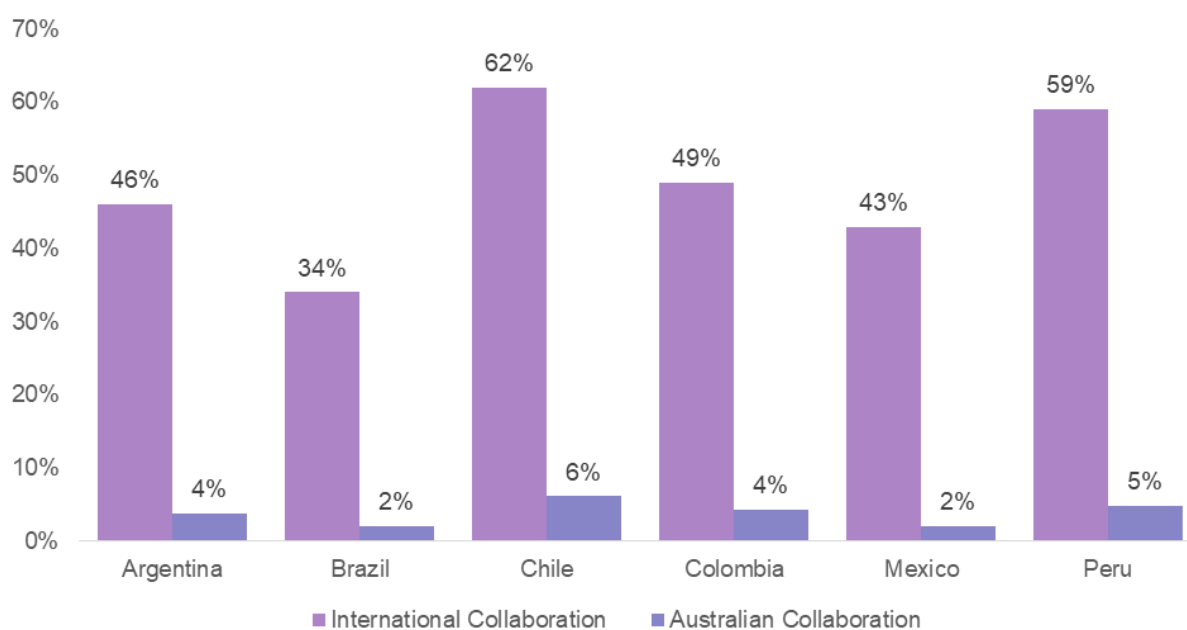


Figure 2: Level of international collaboration and Australian collaboration by the six largest Latin American research producers

Source: Scimago (2019) and Scopus (Elsevier, 2019)

More than half of the 11,000 journal articles co-authored by researchers in Latin America and Australia between 2014 and 2018 included researchers from one or more Group of Eight universities (58 per cent). Around 13 per cent of the publications included researchers from one or more Innovative Research Universities, six per cent included researchers from one or more Australian Technology Network universities and around three per cent included co-authors from one or more of the universities in the Regional Universities Network.

In addition to measuring co-authorship between Latin American and Australian researchers, other measures can be used to indicate the level of research collaboration. Universities Australia conducts a biennial survey of Australian universities' links with universities and research organisations in other countries. Figure 3 summarises the overall number of formal agreements and the number of agreements related to academic and research collaboration between Australian universities and universities and other research organisations in the six largest Latin American research producing countries. This highlights the growth in the level of collaboration between Australian universities and Latin American research institutions over the past decade.

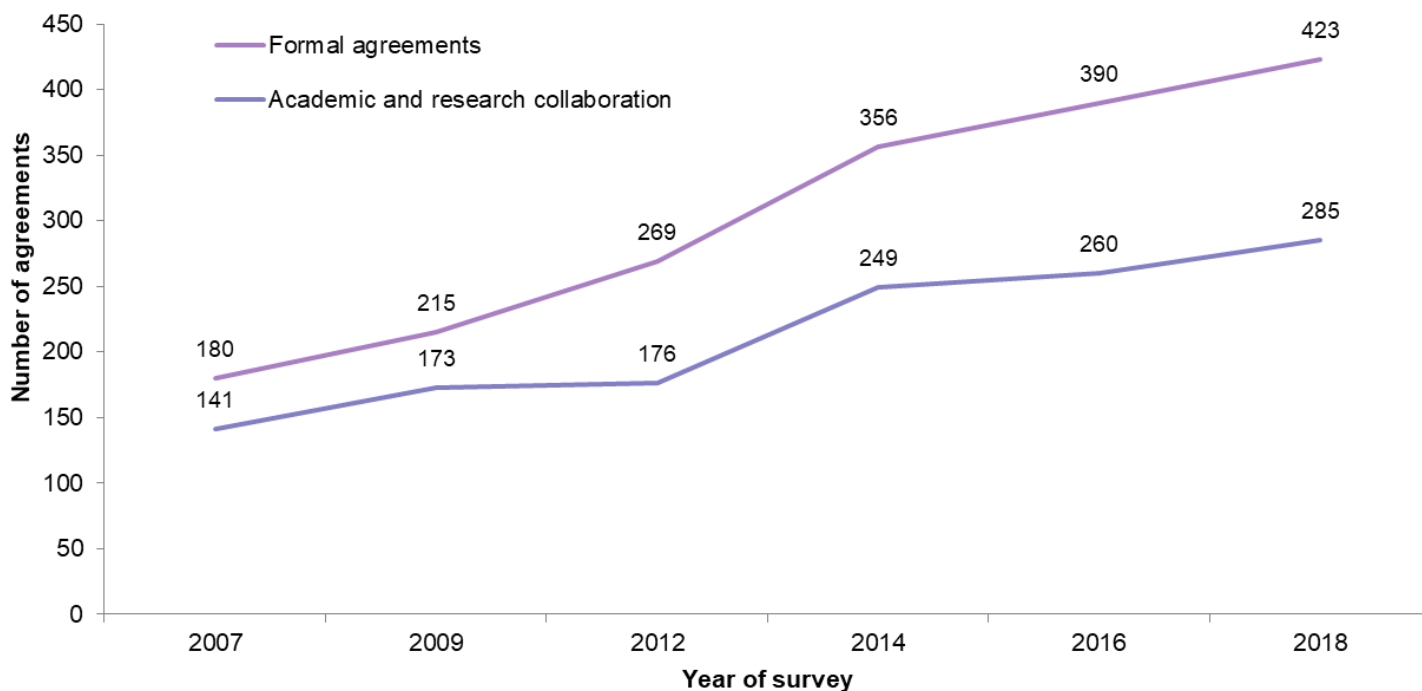


Figure 3: Number of formal agreements between Australian universities and the six largest Latin American research producing countries

Source: *Universities Australia (2018)*.

Note: Summary of the number of agreements between Australian universities with institutions in Argentina, Brazil, Chile, Colombia, Mexico and Peru.

Top-performing institutions

In the project, the top-performing institutions have been identified primarily through their level of publication of peer-reviewed journal articles, and university rankings. Although imperfect, both of these methods provide

some empirical evidence of strong research performance that is helpful in identifying potential partners for research collaboration in the region.

A number of university rankings were reviewed. These included the THE World University Rankings, ARWU, QS World University Rankings and the CWTS Leiden Ranking. All of these university rankings use different methodologies to create rankings of universities around the world but have many similarities (see for example Aguillo, Bar-Ilan, Levene & Ortega, 2010).

Although there is not one single university ranking that is considered perfect, the THE World University Rankings publishes a focused ranking of 150 Latin American universities (Times Higher Education, 2019), and therefore has the greatest coverage of Latin American universities. The top 50 universities included in this ranking are shown in

Table 4 alongside their country, overall score, and research score. Ninety-two per cent of all universities included in the top 50 list are from the six largest Latin American research producers, and around half are Brazilian universities. Looking at the overall 2019 THE World University Rankings, the highest ranked university in terms of research score is the Universidade de São Paulo from Brazil, which is ranked between 251 and 300 in the world.

ARWU includes 35 universities from Latin America in its world rankings (ARWU, 2018). The highest ranked university was the Universidade de São Paulo from Brazil which was ranked between 151 and 200 in the world. All the universities from Latin America included in the 2018 ARWU ranking were from five countries – Argentina, Brazil, Chile, Colombia and Mexico – and two-thirds were from Brazil.

The 2019 QS World University Rankings includes 92 universities from Latin America in its ranking (QS, 2019). Eighty-four per cent of the universities included in the 2019 QS World University Rankings from Latin America were from the six largest Latin American research producing countries. Again Brazil had the highest number of universities included in the ranking (22), but this ranking includes a broader spread of universities from other Latin American countries. Five universities from Latin America were included in the top 200 universities worldwide. These included the Universidad de Buenos Aires (Argentina), the Universidad Nacional Autónoma de México (Mexico), the Universidade de São Paulo (Brazil), the Pontificia Universidad Católica de Chile (Chile) and the Tecnológico de Monterrey (Mexico).

The 2019 CWTS Leiden Ranking includes 32 universities from Latin America in its ranking (CWTS, 2019). The CWTS Leiden Ranking is based on the number of publications indexed by the Web of Science database between 2014 and 2017 and the number of publications in the top 10 per cent of publications within a specific field. Again, this ranking is dominated by five countries in the region – Argentina, Brazil, Chile, Colombia and Mexico, with Brazilian universities representing two-thirds of the Latin American universities included in the ranking.

Table 4: Ranking of Latin American universities 2019, THE World University Rankings

Rank	University	Country	Overall Score	Research Score
1	Pontificia Universidad Católica de Chile	Chile	88.6	99.8
2	Universidade de São Paulo	Brazil	88.0	100.0
3	Universidade Estadual de Campinas	Brazil	87.8	99.9
4	Pontificia Universidade Católica do Rio de Janeiro	Brazil	85.5	98.6
5	Monterrey Institute of Technology and Higher Education	Mexico	84.1	96.2
6	Universidade Federal de São Paulo	Brazil	84.0	88.1

Rank	University	Country	Overall Score	Research Score
7	Universidad de Chile	Chile	83.0	92.2
8	Universidade Federal de Minas Gerais	Brazil	82.5	88.6
9	Universidad de Los Andes, Colombia	Colombia	81.4	87.3
10	Universidade Estadual Paulista	Brazil	79.7	98.5
11	Universidade Federal do Rio Grande do Sul	Brazil	79.2	92.1
12	Universidade Federal de Santa Catarina	Brazil	78.8	83.8
13	Universidade Federal do Rio de Janeiro	Brazil	77.5	86.9
14	Universidad Nacional Autónoma de México	Mexico	75.5	91.7
15	Universidade de Brasília	Brazil	74.6	84.0
16	Universidade Federal de São Carlos	Brazil	71.7	86.5
17	Universidade Federal de Viçosa	Brazil	69.3	85.2
18	Universidad Autónoma Metropolitana	Mexico	68.9	84.1
19	Universidade Federal do Ceará	Brazil	68.4	80.9
20	Pontificia Universidad Católica del Perú	Peru	68.3	69.6
20	Pontificia Universidade Católica do Rio Grande do Sul	Brazil	68.3	73.0
22	Universidad Nacional de Colombia	Colombia	68.2	85.8
23	Pontificia Universidad Católica de Valparaíso	Chile	67.6	79.2
24	Universidad de Santiago de Chile	Chile	67.5	86.5
25	Universidad Peruana Cayetano Heredia	Peru	66.9	70.9
26	Universidade Federal do Paraná	Brazil	66.8	80.4
27	Universidad Austral	Argentina	66.6	66.3
28	Pontificia Universidad Javeriana	Colombia	66.5	66.1
29	Universidade Federal de Pernambuco	Brazil	66.4	73.4
30	Universidade do Estado do Rio de Janeiro	Brazil	66.2	80.1
31	Universidade Federal da Bahia	Brazil	66.1	81.9
33	Universidade Federal Fluminense	Brazil	63.4	80.1
34	Universidade Federal de Lavras	Brazil	62.5	85.9
35	Universidad Nacional de Córdoba	Argentina	61.9	70.4
36	Universidad de Antioquia	Colombia	60.8	78.6
37	Universidad de Costa Rica	Costa Rica	60.2	51.4
38	Universidad Nacional de General San Martín	Argentina	60.0	67.2
39	Universidade Estadual de Londrina	Brazil	59.6	78.7
40	Universidade Federal de Goiás	Brazil	59.4	64.2
41	Universidade Federal do ABC	Brazil	58.8	68.4
42	Universidad de La Frontera	Chile	58.5	59.1
43	Universidad de Valparaíso	Chile	56.8	56.6
44	Pontificia Universidade Católica do Paraná	Brazil	55.9	66.1
45	Universidad de Concepción	Chile	55.5	58.2
46	Universidade Federal de Santa Maria	Brazil	55.3	66.0
47	Universidad de los Andes, Chile	Chile	54.6	51.2
48	Universidad de la Habana	Cuba	54.3	58.3
50	Instituto Politécnico Nacional	Mexico	53.2	70.3

Source: *Times Higher Education* (2019)

Note: Because of differences in how Latin America is defined in the THE Ranking of Latin American Institutions, and the definition used in this report, this table excludes some of the institutions included in the ranking. The Overall Score is based on a combination of metrics that include Teaching (36 per cent), Research (34 per cent), Citations (20 per cent), International Outlook (7.5 per cent) and Industry Income (2.5 per cent). The Research score is based on findings from the Academic Reputation Survey, measures of research income and measures of research productivity.

Tables 6 to Table 10 list the top-performing research institutions for Argentina, Brazil, Chile, Colombia, Mexico and Peru. The information included in these tables includes the number of peer-reviewed journal articles published between 2014 and 2018 and indexed by Scopus, the proportion of these journal articles that were co-authored with Australian researchers and, if applicable, the institution's ranking on the ARWU, THE and QS World rankings.

Table 5: Top-performing research institutions, Argentina

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Consejo Nacional de Investigaciones Científicas y Técnicas	25,944	4.1%	N/A	N/A	N/A
Universidad de Buenos Aires	12,497	6.2%	201-300	-	73
Universidad Nacional de Córdoba	4,724	1.9%	501-600	1001+	801-1000
Universidad Nacional de La Plata	6,173	10.4%	701-800	1001+	601-650
Universidad Nacional del Sur	2,004	0.6%	-	1001+	-

Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Table 6: Top-performing research institutions, Brazil

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Universidade de São Paulo	55,741	3.4%	151-200	251-300	118
Universidade Estadual de Campinas	18,349	2.3%	301-400	401-500	204
Universidade Estadual Paulista	22,549	1.7%	301-400	801-1000	491
Universidade Federal do Rio de Janeiro	19,036	4.5%	301-400	601-800	361
Universidade Federal do Rio Grande do Sul	15,838	3.1%	401-500	601-800	601-650

Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Table 7: Top-performing research institutions, Chile

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Universidad de Chile	10,690	5.0%	401-500	601-800	132
Pontificia Universidad Católica de Chile	10,092	10.5%	301-400	601-800	208
University of Concepción	4,880	4.0%	701-800	1001+	651-700
Universidad de Santiago de Chile	2,623	1.5%	-	1001+	511-520

Pontificia Universidad Católica de Valparaíso	2,509	1.0%	-	1001+	751-800
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Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Table 8: Top-performing research institutions, Colombia

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Universidad Nacional de Colombia	7,938	1.6%	701-800	1001+	275
Universidad de Los Andes, Colombia	3,209	6.4%	901-1000	601-800	272
Universidad de Antioquia	4,367	2.2%	-	1001+	701-750
Universidad del Valle, Cali	2,064	2.1%	-	-	801-1000
Pontificia Universidad Javeriana	1,995	5.2%	-	501-600	521-530

Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Table 9: Top-performing research institutions, Mexico

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Universidad Nacional Autónoma de México	23,743	2.1%	201-300	601-800	113
Instituto Politécnico Nacional	8,319	0.9%	501-600	1001+	651-700
Tecnológico de Monterrey	2,754	1.6%	-	601-800	178
Centro de Investigación y de Estudios Avanzados	5,425	2.5%	N/A	N/A	N/A
Universidad de Guadalajara	3,246	1.0%	-	1001+	751-800

Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Table 10: Top-performing research institutions, Peru

Research Institution	Journal articles	Australian co-authorship	Rankings		
			ARWU	THE	QS World
Pontificia Universidad Católica del Peru	959	3.2%	-	801-1000	551-560
Universidad Peruana Cayetano Heredia	1,441	5.1%	-	501-600	801-1000
Universidad Nacional Mayor de San Marcos	1,244	1.2%	-	-	801-1000
Universidad del Pacifico, Lima	149	1.3%	-	-	-
Universidad Nacional de Ingeniería	316	1.3%	-	-	-

Source: Scopus (Elsevier, 2019), ARWU (2018), Times Higher Education (2019) and QS (2019)

Findings by subject area

Overview

This section provides a summary of the findings for each of the 22 ANZSRC fields of research, and includes a shortlist of some of the high-performing research institutions within each field of research. It is important to note that the information presented in this report uses the Scopus database (Elsevier, 2019). The Scopus database uses a different classification than the ANZSRC – the All Science Journal Classification (ASJC). In order to identify high-performing research institutions in the Latin American region within each of the ANZSRC fields of research, the project used proxy ANZSRC fields of research based on the ASJC subject terms. A mapping of the ASJC subject terms onto the broad ANZSRC fields of research has been completed by ACER and is included in Appendix A and the advanced search terms used to conduct the searches in Scopus are included in Appendix B.

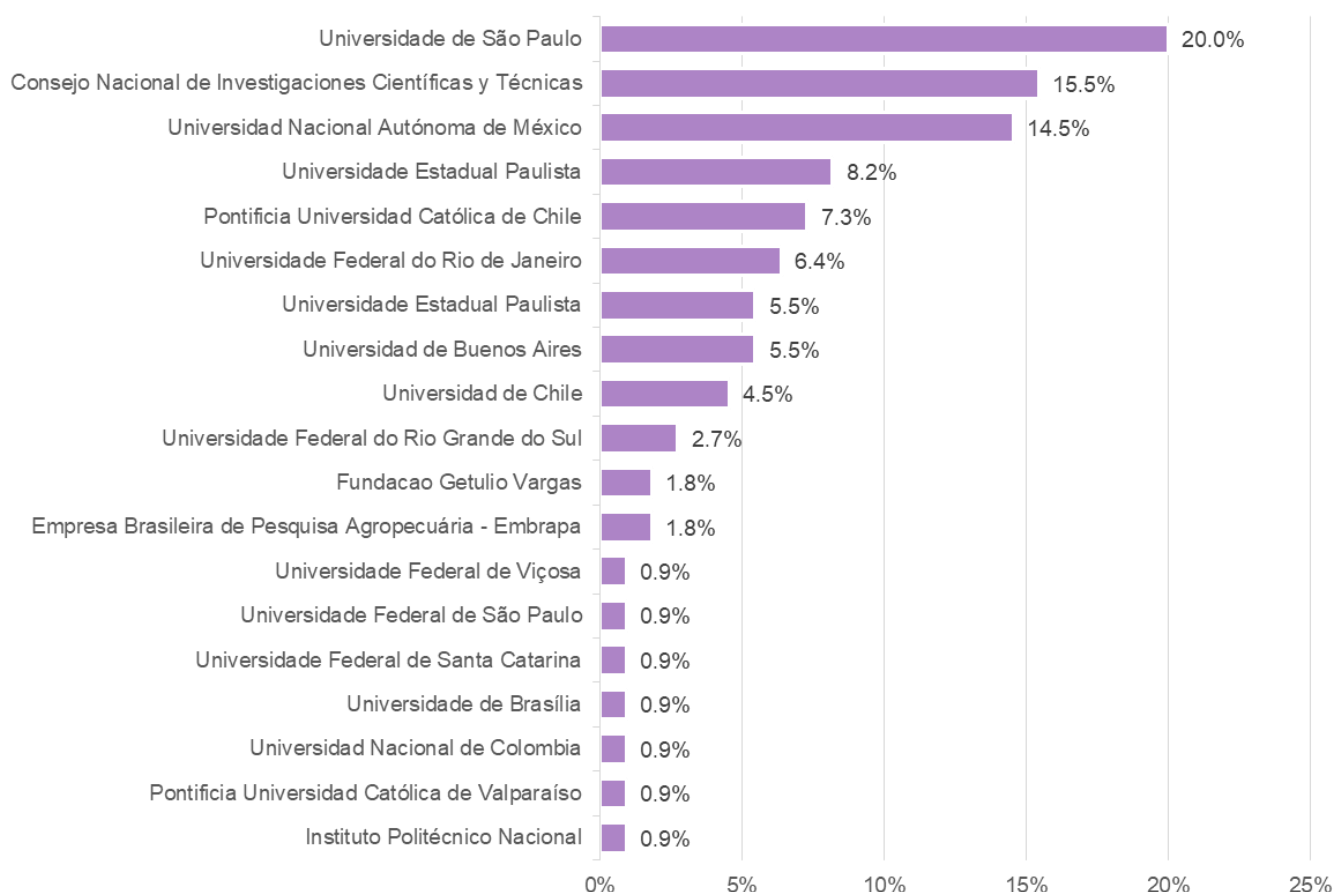


Figure 4: Top-performing institutions across all 22 ANZSRC fields

Source: Scopus (Elsevier, 2019)

The results of this analysis show that a small number of institutions appear several times among the top-performing institutions. As shown in Figure 4 the Universidade de São Paulo (Brazil), the Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina) and the Universidad Nacional Autónoma de México (Mexico) are the top performing institutions. As shown in Figure 5, research institutions from Brazil dominate the list of top-performing institutions, representing half of all the institutions listed, while 21 per cent are from Argentina, 15 per cent from Mexico and 13 per cent from Chile.

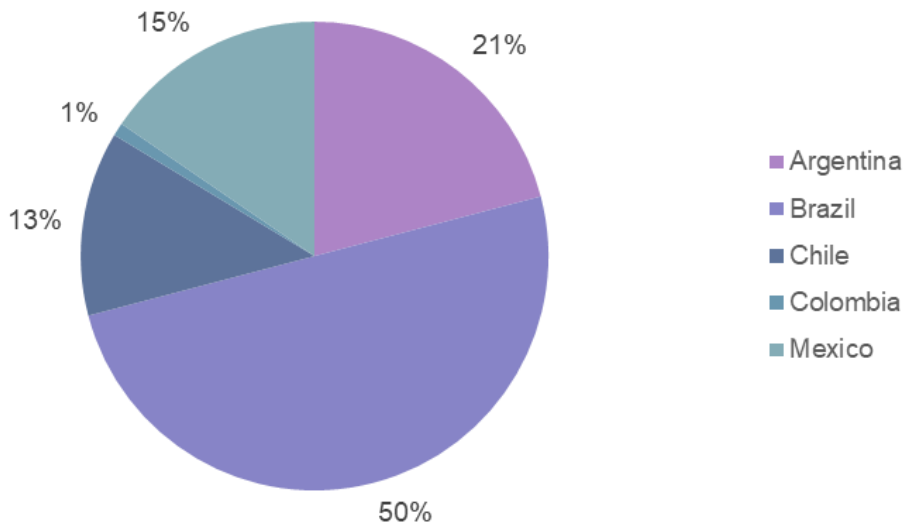


Figure 5: Top-performing institutions across all 22 ANZSRC fields by Latin American country

Source: Scopus (Elsevier, 2019)

Analysis of the level of collaboration between researchers in Latin America and Australia reveals that although overall the level of co-authorship currently sits at around two per cent, there are certain fields of research where a much larger proportion of journal articles are being co-authored by researchers from Latin America and Australia. As shown in Figure 6, these include Physical Sciences, where eight per cent of journal articles published between 2014 and 2018 by Australian researchers included one or more co-authors from Latin America. There are also higher levels of collaboration between researchers in Australia and Latin America in the fields of Biological Sciences, Agricultural and Veterinary Sciences, and Medical and Health Sciences.

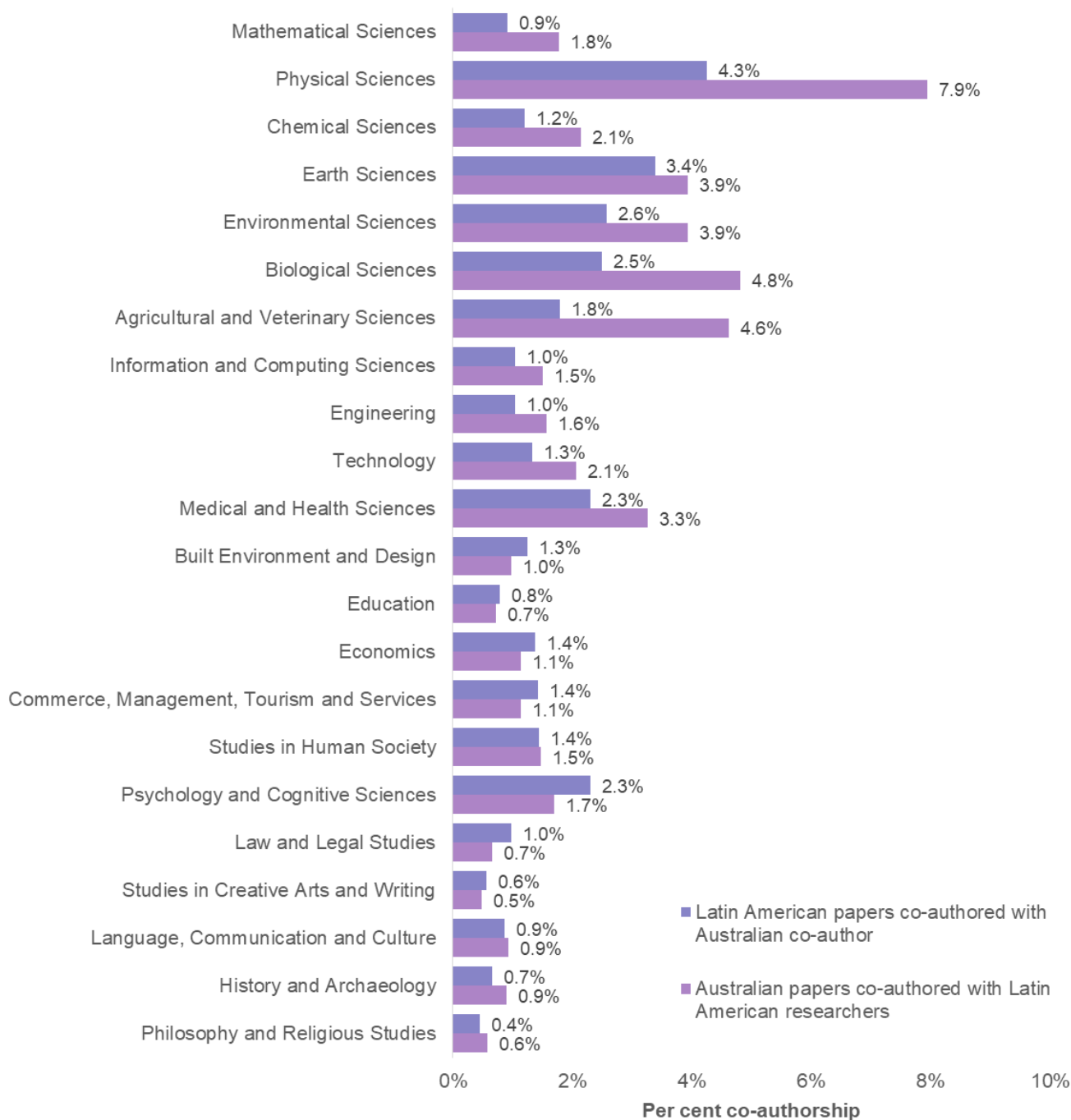


Figure 6: Proportion of Australian and Latin American journal articles published between 2014 and 2018 with a co-author from Latin America and Australia

The findings by subject area are listed in Table 11 to Table 36. For each of the 22 ANZSRC fields of research, five of the top-performing research institutions are listed along with the number of journal articles researchers from these institutions have published between 2014 and 2018 in that specific field, the proportion of these journal articles that were published with an Australian co-author, the number of times these journal articles have been cited so far, and the h-index for this set of journal articles.

For each of the 22 ANZSRC fields of research, a graph is included that shows the number of journal articles published between 2014 and 2018 for Latin America, Australia and then the five largest publishing countries globally. These graphs – Figure 7 to Figure 28 – also show the proportion of the Latin American journal articles that included a co-author from each of the other countries.

This part of the report also includes three case studies that focus on fields of research of specific shared interest to researchers in Australia and Latin America. These fields of research do not neatly fit into one or more of the ANZSRC fields of research and so a different methodological approach has been taken to identify high-performing Latin American institutions in these areas. These case studies focus on Water Management, Mining and Tropical Health. The specific search terms used are listed in Table 40.

Mathematical Sciences

Table 11: Top-performing research institutions, Mathematical Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	2,389	1.3%	9,014	27
Universidad Nacional Autónoma de México	Mexico	1,542	0.9%	4,949	23
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	1,287	1.2%	5,021	21
Universidade Estadual de Campinas	Brazil	1,086	0.6%	5,230	27
Universidade Federal do Rio de Janeiro	Brazil	924	1.9%	3,715	21

Source: Scopus (Elsevier, 2019)

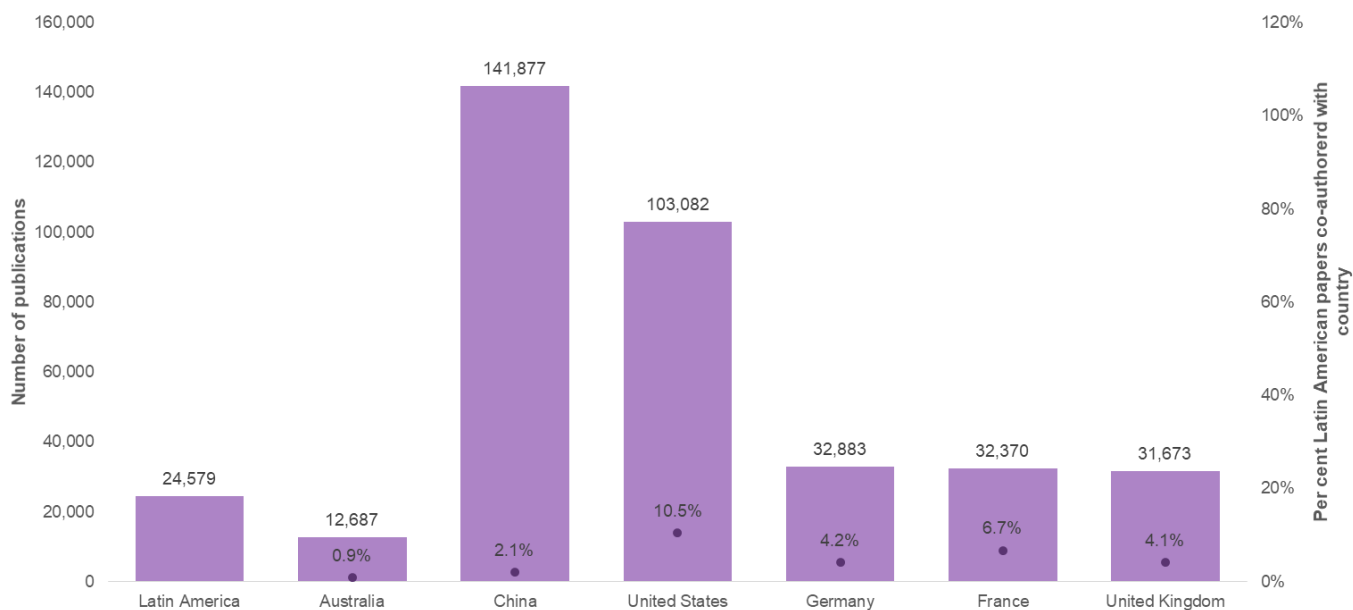


Figure 7: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Mathematical Sciences

Source: Scopus (Elsevier, 2019)

Physical Sciences

Table 12: Top-performing research institutions, Physical Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	6,170	12.8%	71,989	92
Universidad Nacional Autónoma de México	Mexico	4,986	4.2%	43,139	66
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	4,289	14.4%	42,336	76
Universidade Estadual Paulista	Brazil	2,787	5.6%	41,480	72
Universidade Federal do Rio de Janeiro	Brazil	2,750	21.5%	42,567	81

Source: Scopus (Elsevier, 2019)

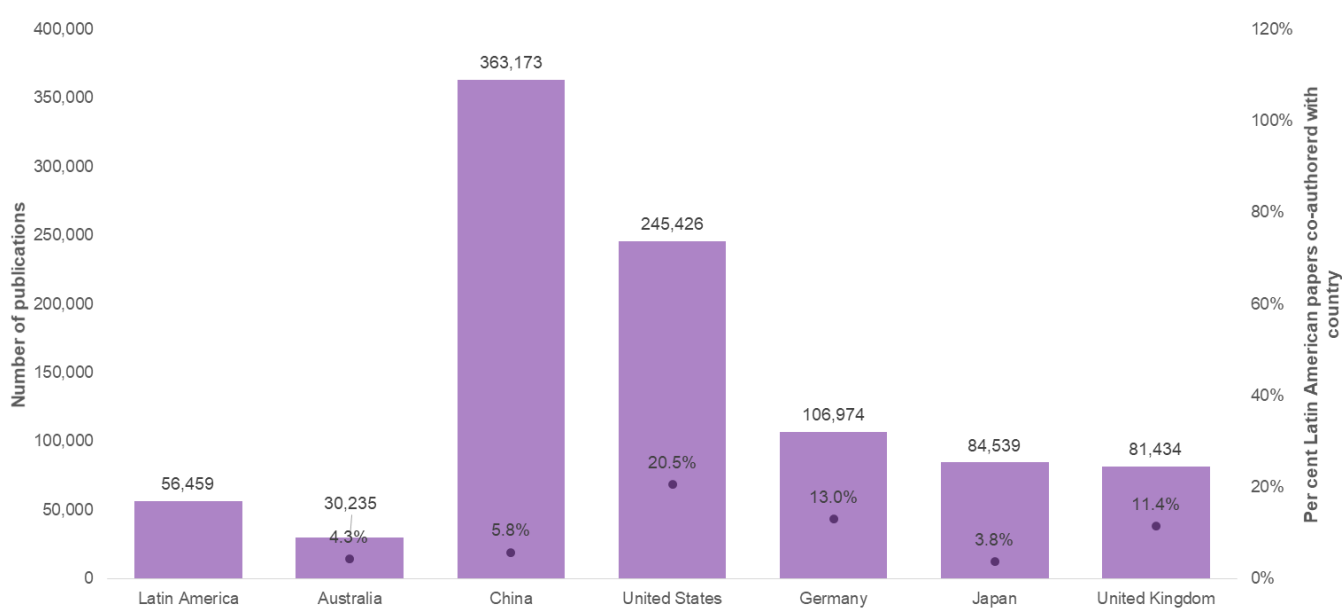


Figure 8: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Physical Sciences

Source: Scopus (Elsevier, 2019)

Chemical Sciences

Table 13: Top-performing research institutions, Chemical Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	5,014	1.2%	39,330	52
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	3,304	0.7%	23,342	41
Universidade Federal do Rio de Janeiro	Brazil	2,921	0.8%	19,380	43
Universidad Nacional Autónoma de México	Mexico	2,893	0.8%	18,579	37
Universidade Estadual de Campinas	Brazil	2,401	1.7%	21,915	45

Source: Scopus (Elsevier, 2019)

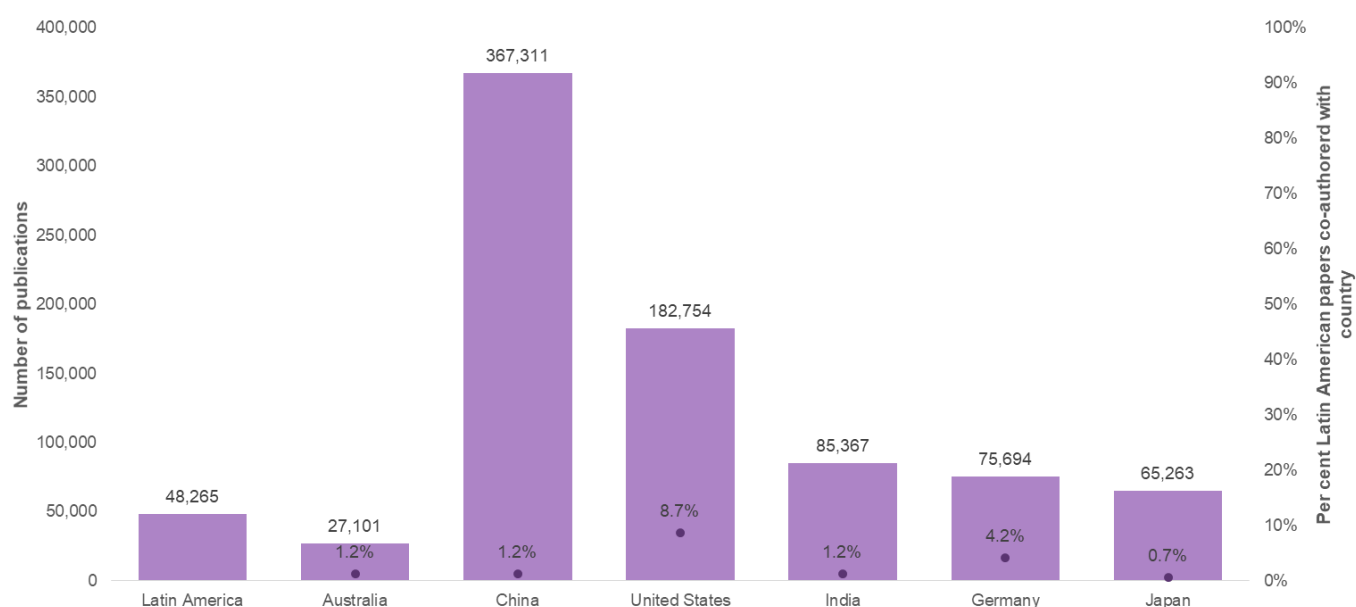


Figure 9: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Chemical Sciences

Source: Scopus (Elsevier, 2019)

Earth Sciences

Table 14: Top-performing research institutions, Earth Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	2,728	2.9%	14,394	34
Universidad Nacional Autónoma de México	Mexico	2,179	1.8%	11,383	33
Universidade de São Paulo	Brazil	2,121	4.3%	14,557	40
Universidad de Buenos Aires	Argentina	967	3.2%	6,283	29
Universidade Estadual Paulista	Brazil	951	1.6%	4,076	27

Source: Scopus (Elsevier, 2019)

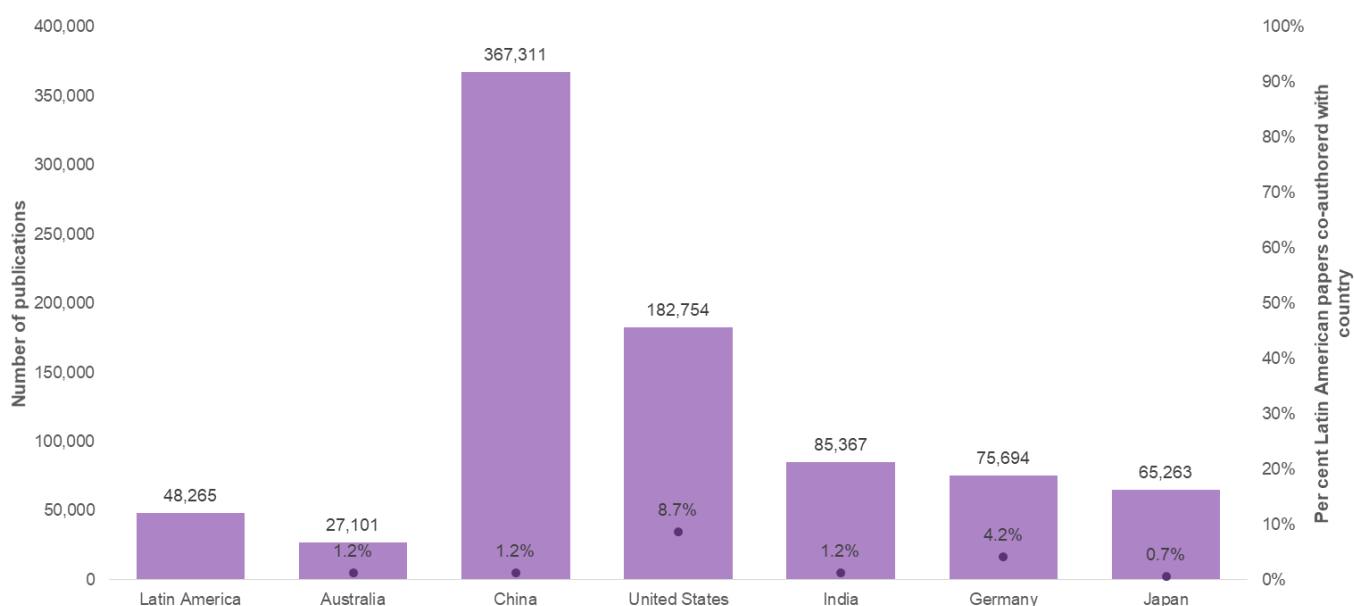


Figure 10: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Earth Sciences

Source: Scopus (Elsevier, 2019)

Environmental Sciences

Table 15: Top-performing research institutions, Environmental Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	2,751	2.8%	22,441	47
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	1,858	2.6%	12,601	36
Universidade Estadual Paulista	Brazil	1,388	1.2%	8,884	35
Universidad Nacional Autónoma de México	Mexico	1,389	2.7%	10,052	34
Empresa Brasileira de Pesquisa Agropecuária - Embrapa	Brazil	962	2.2%	5,719	29

Source: Scopus (Elsevier, 2019)

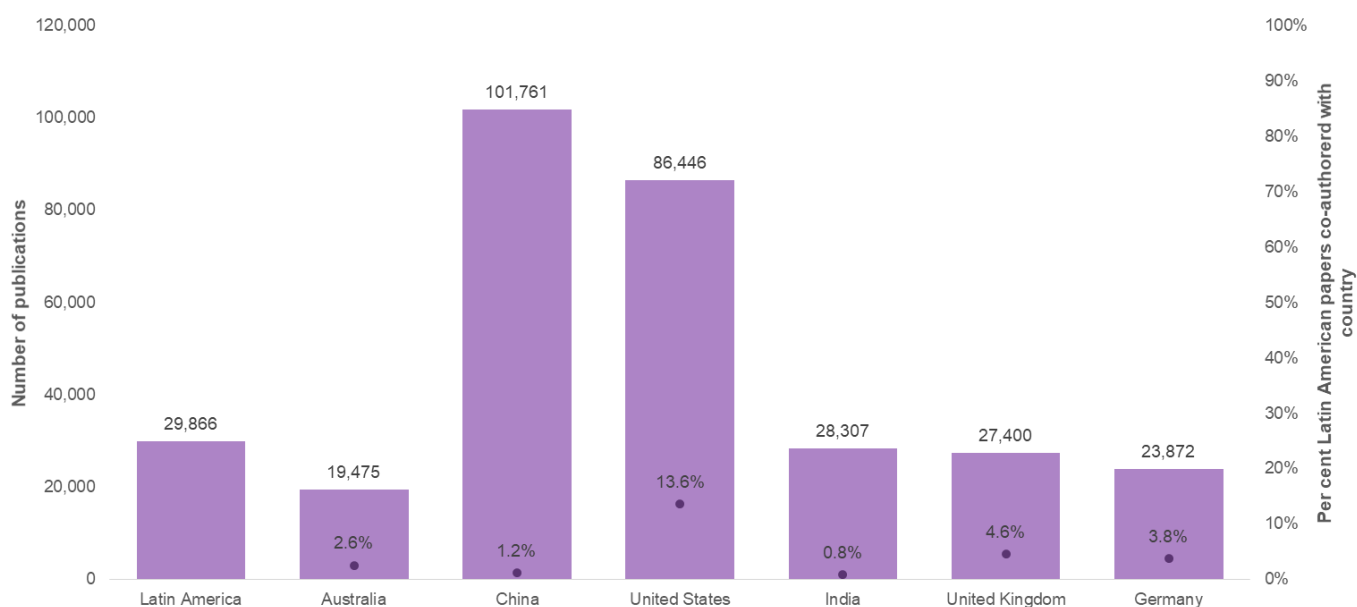


Figure 11: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Environmental Sciences

Source: Scopus (Elsevier, 2019)

Biological Sciences

Table 16: Top-performing research institutions, Biological Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	12,811	2.7%	92,138	70
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	8,667	2.1%	53,866	58
Universidade Estadual Paulista	Brazil	6,702	1.5%	33,272	43
Universidad Nacional Autónoma de México	Mexico	6,561	2.3%	41,205	56
Universidade Federal do Rio de Janeiro	Brazil	4,196	2.0%	29,201	50

Source: Scopus (Elsevier, 2019)

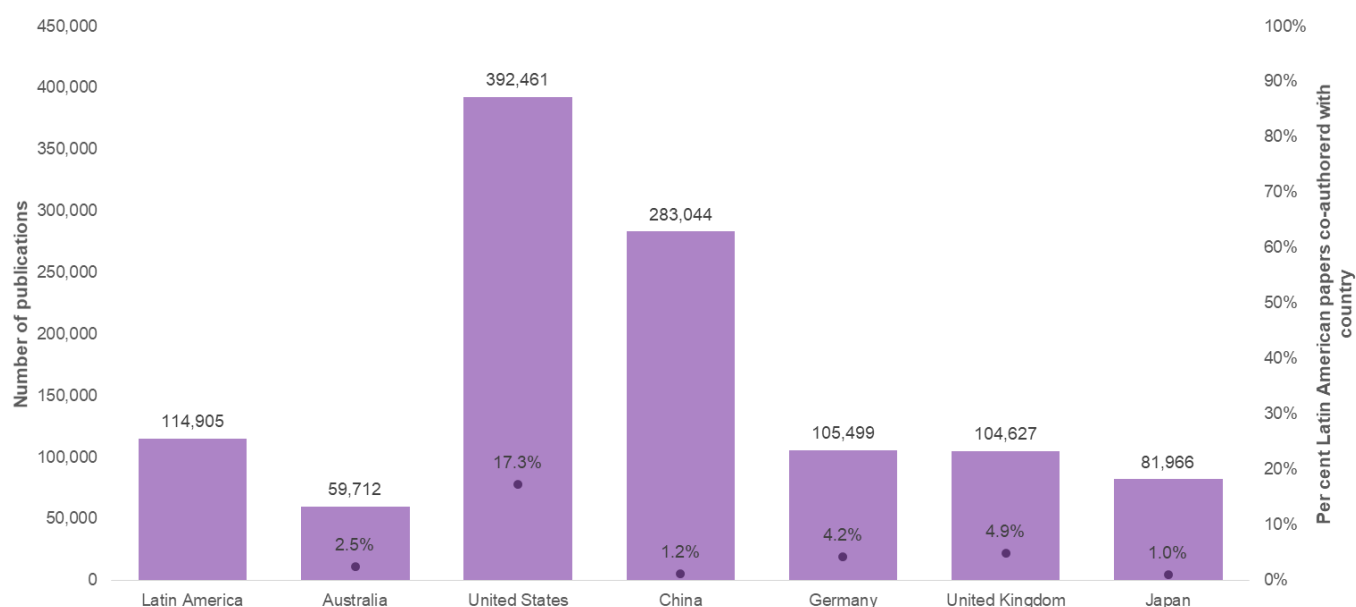


Figure 12: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Biological Sciences

Source: Scopus (Elsevier, 2019)

Agricultural and Veterinary Sciences

Table 17: Top-performing research institutions, Agricultural and Veterinary Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	6,611	1.9%	36,580	46
Universidade Estadual Paulista	Brazil	5,414	0.9%	18,337	32
Empresa Brasileira de Pesquisa Agropecuária - Embrapa	Brazil	3,844	0.8%	13,659	33
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	3,551	2.5%	18,468	35
Universidade Federal de Vicosa	Brazil	3,052	0.9%	9,607	27

Source: Scopus (Elsevier, 2019)

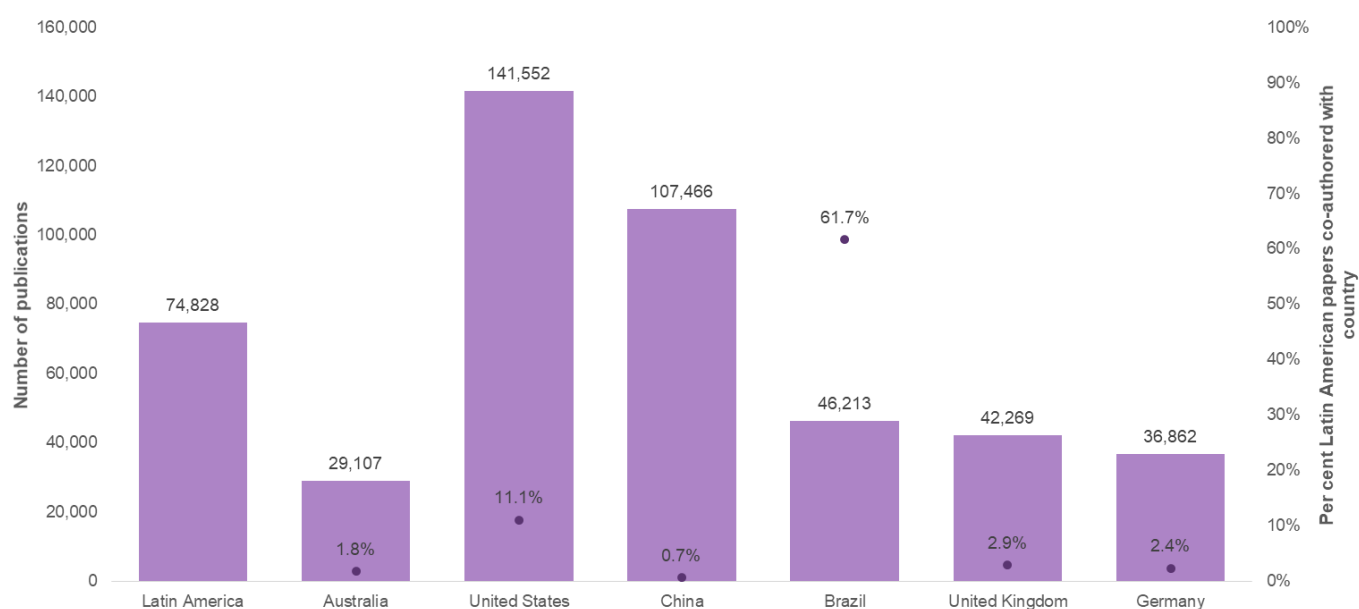


Figure 13: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Agricultural and Veterinary Sciences

Source: Scopus (Elsevier, 2019)

Information and Computing Sciences

Table 18: Top-performing research institutions, Information and Computing Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	2,006	0.6%	12,395	37
Universidade Estadual de Campinas	Brazil	997	1.1%	6,671	33
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	860	1.6%	5,323	28
Universidad Nacional Autónoma de México	Mexico	811	0.4%	3,406	22
Instituto Politécnico Nacional	Mexico	789	0.1%	4,785	26

Source: Scopus (Elsevier, 2019)

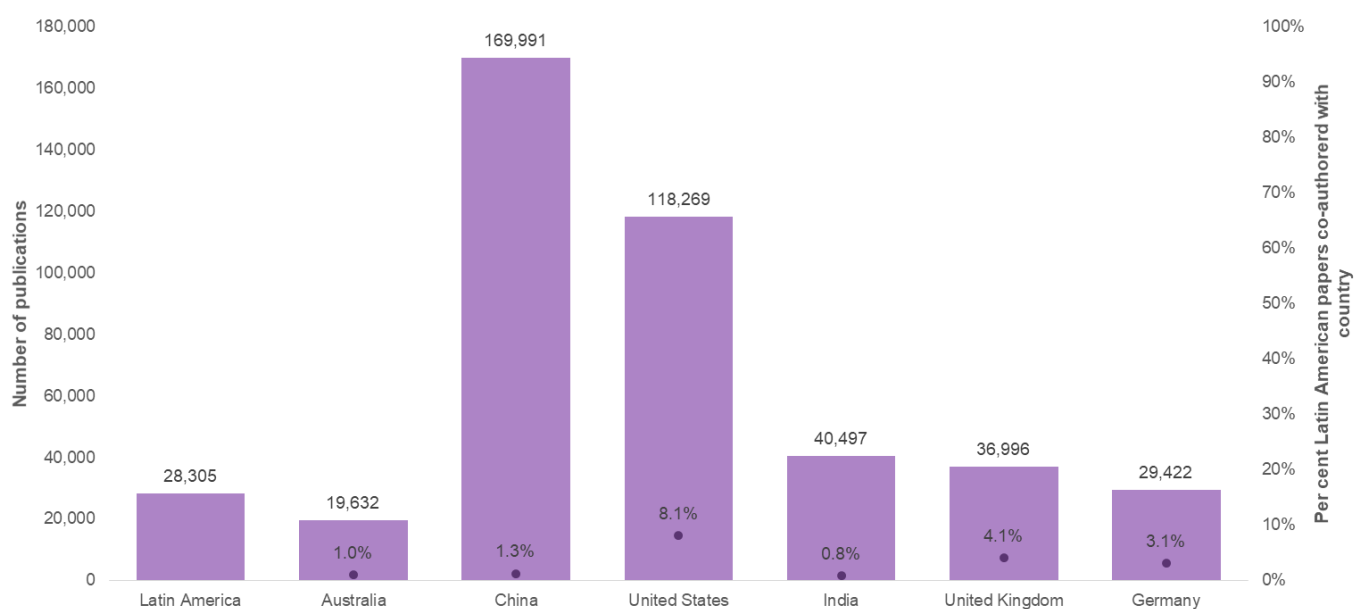


Figure 14: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Information and Computing Sciences

Source: Scopus (Elsevier, 2019)

Engineering

Table 19: Top-performing research institutions, Engineering

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	8,822	2.3%	68,394	62
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	5,300	3.3%	40,459	54
Universidade Estadual de Campinas	Brazil	4,935	0.9%	42,345	54
Universidad Nacional Autónoma de México	Mexico	4,773	0.5%	28,404	45
Universidade Estadual Paulista	Brazil	4,051	0.6%	29,406	50

Source: Scopus (Elsevier, 2019)

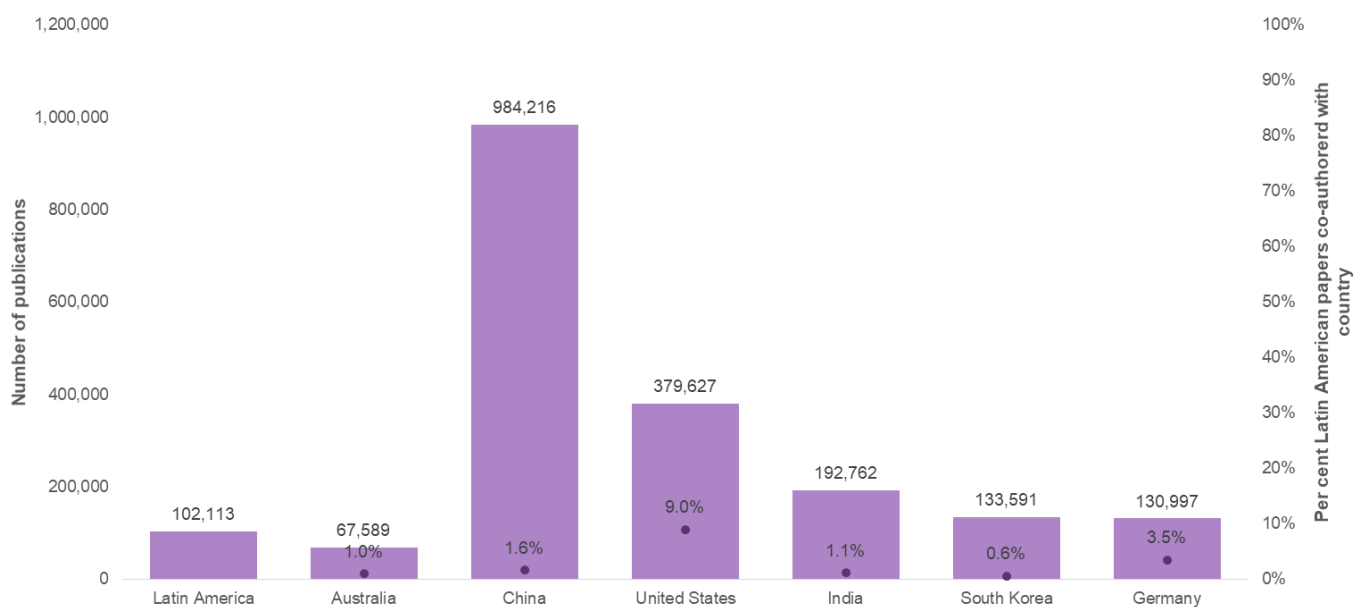


Figure 15: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Engineering

Source: Scopus (Elsevier, 2019)

Mining case study

A search of the data identified a total of 1,413 journal articles. Most publications were produced by researchers in Brazil and Chile. The top-performing research institutions are included in Table 20 along with their country, the number of journal articles published, the number of these that included an Australian co-author, and the number of citations and h-index for this group of journal articles so far. Table 21 lists the number of journal articles published by each of the six largest Latin American research producing countries along with the number of these that included an Australian co-author, and the number of citations and h-index for this group of journal articles.

Table 20: Top-performing research institutions, Mining

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de Sao Paulo - USP	Brazil	99	2	716	14
Universidad de Chile	Chile	86	3	524	13
Universidade Federal de Minas Gerais	Brazil	57	6	451	13
Universidad Nacional Autónoma de México	Mexico	49	1	211	7
Universidade Federal do Rio Grande do Sul	Brazil	45	1	365	13
Pontificia Universidad Católica de Chile	Chile	45	2	188	8

Note: Data sourced from Scopus (Elsevier, 2019)

Table 21: Country affiliation data, Mining

Country	Journal articles	Australian co-authorship	Citations	H-index
Argentina	75	1	370	9
Brazil	597	19	4,050	29
Chile	316	21	1,651	20
Colombia	155	4	945	17
Mexico	192	3	986	16
Peru	71	5	503	11

Source: Scopus (Elsevier, 2019)

Around four per cent of the journal articles published by Latin American researchers between 2014 and 2018 in Mining included an Australian co-author. Researchers from the University of Queensland were listed as co-authors on around 40 per cent of these papers. Researchers from the University of Adelaide, CSIRO, the Australian National University, the University of New South Wales, the University of Western Australia, Queensland University of Technology, University of Tasmania, University of Melbourne, Curtin University and Griffith University co-authored at least two papers with Latin American researchers in the area of Mining.

Technology

Table 22: Top-performing research institutions, Technology

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	1,118	1.0%	8,515	32
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	730	0.5%	4,140	24
Universidade Estadual de Campinas	Brazil	664	1.2%	6,281	27
Universidade Estadual Paulista	Brazil	497	1.0%	3,410	25
Universidad Nacional Autónoma de México	Mexico	498	1.8%	3,052	22

Source: Scopus (Elsevier, 2019)

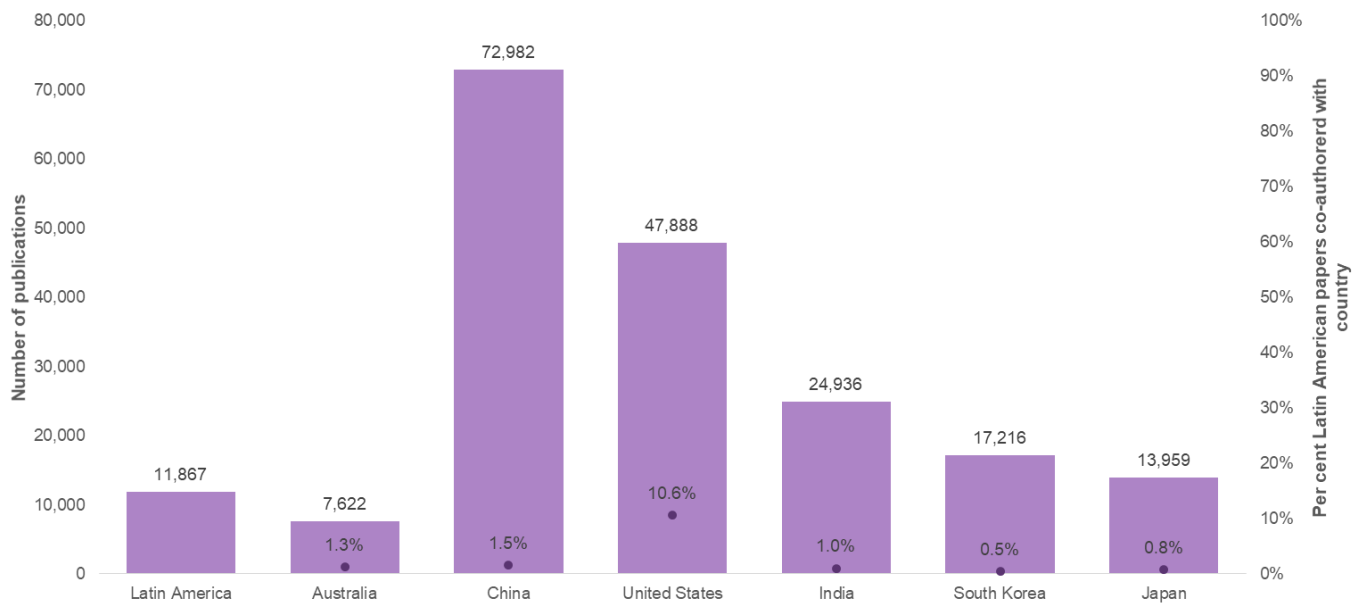


Figure 16: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Technology

Source: Scopus (Elsevier, 2019)

Medical and Health Sciences

Table 23: Top-performing research institutions, Medical and Health Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	24,156	2.9%	202,412	121
Universidade Federal de São Paulo	Brazil	7,421	2.9%	59,210	69
Universidade Estadual Paulista	Brazil	6,663	1.2%	35,290	43
Universidade Estadual de Campinas	Brazil	6,493	1.4%	38,145	49
Universidade Federal do Rio de Janeiro	Brazil	6,174	1.9%	41,571	59

Source: Scopus (Elsevier, 2019)

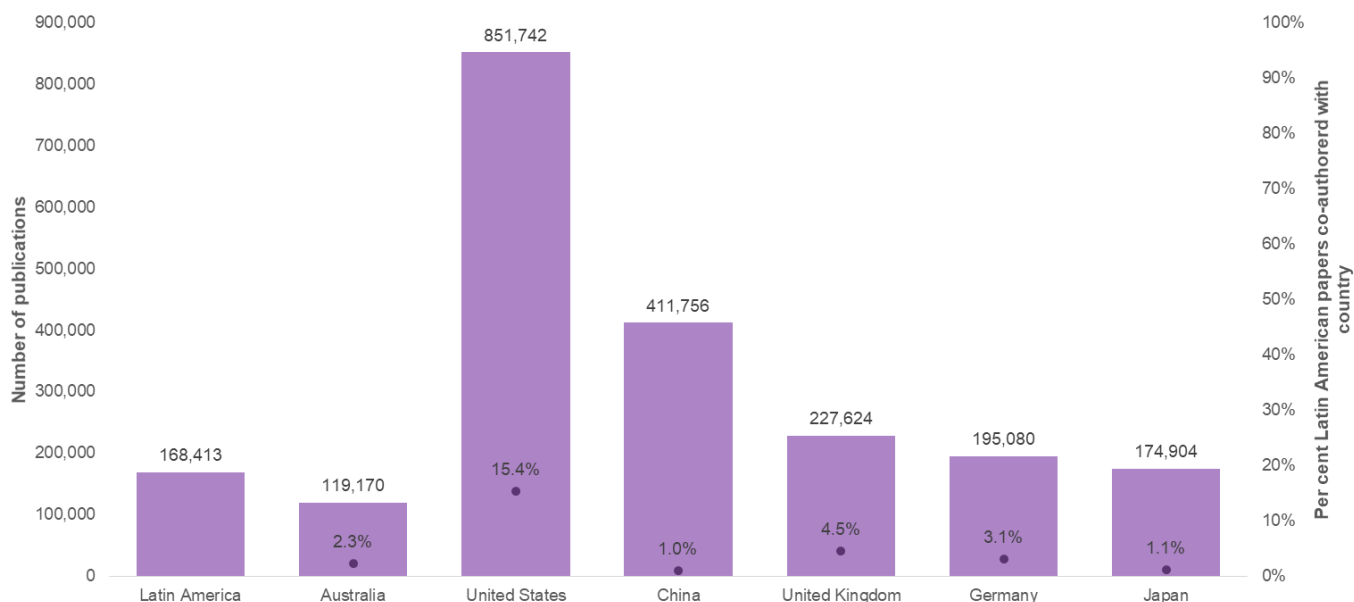


Figure 17: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Medical and Health Sciences

Source: Scopus (Elsevier, 2019)

Tropical Health case study

A total of 1,133 journal articles were returned from a search of the data. Researchers from Brazil, followed by Mexico, published the majority of the publications in Tropical Health. Although only publishing a relatively small number of articles in this field compared to Brazil and Mexico, researchers from Panama produced the next largest number of publications (86). The top-performing research institutions are included in Table 24 along with their country, the number of journal articles published, the number of these that included an Australian co-author, and the number of citations and h-index for this group of journal articles so far. **Error! Reference source not found.** Table 25 lists the number of journal articles published by each of the six largest Latin American research producing countries along with the number of these that included an Australian co-author, and the number of citations and h-index for this group of journal articles.

Table 24: Top-performing research institutions, Tropical Health

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de Sao Paulo - USP	Brazil	156	16	9,442	22
Smithsonian Tropical Research Institute	Panama	75	8	1,137	19
UNESP-Universidade Estadual Paulista	Brazil	70	3	525	12
Universidad Nacional Autónoma de México	Mexico	68	4	730	14
Fundacao Oswaldo Cruz	Mexico	63	3	1,183	12

Source: Scopus (Elsevier, 2019)

Table 25: Country affiliation data, Tropical Health

Country	Journal articles	Australian co-authorship	Citations	H-index
Argentina	58	9	5,985	15
Brazil	666	47	13,790	35
Chile	34	8	5,609	10
Colombia	85	13	8,429	16
Mexico	164	14	9,172	21
Peru	57	14	6,245	20

Source: Scopus (Elsevier, 2019)

Around six per cent of the journal articles published by Latin American researchers between 2014 and 2018 in Tropical Health included at least one Australian co-author. James Cook University and the Australian National University were the institutions whose researchers had co-authored the highest number of papers. Other frequent co-authors included researchers from the University of Queensland, the University of Melbourne, the University of Western Australia, The University of Tasmania, the University of New South Wales and Flinders University.

Built Environment and Design

Table 26: Top-performing research institutions, Built Environment and Design

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	315	0.3%	1,843	20
Pontificia Universidad Católica de Chile	Chile	287	0.0%	1,145	17
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	222	0.9%	993	16
Universidad Nacional Autónoma de México	Mexico	190	0.5%	816	14
Universidad de Chile	Chile	169	1.8%	674	14

Source: Scopus (Elsevier, 2019)

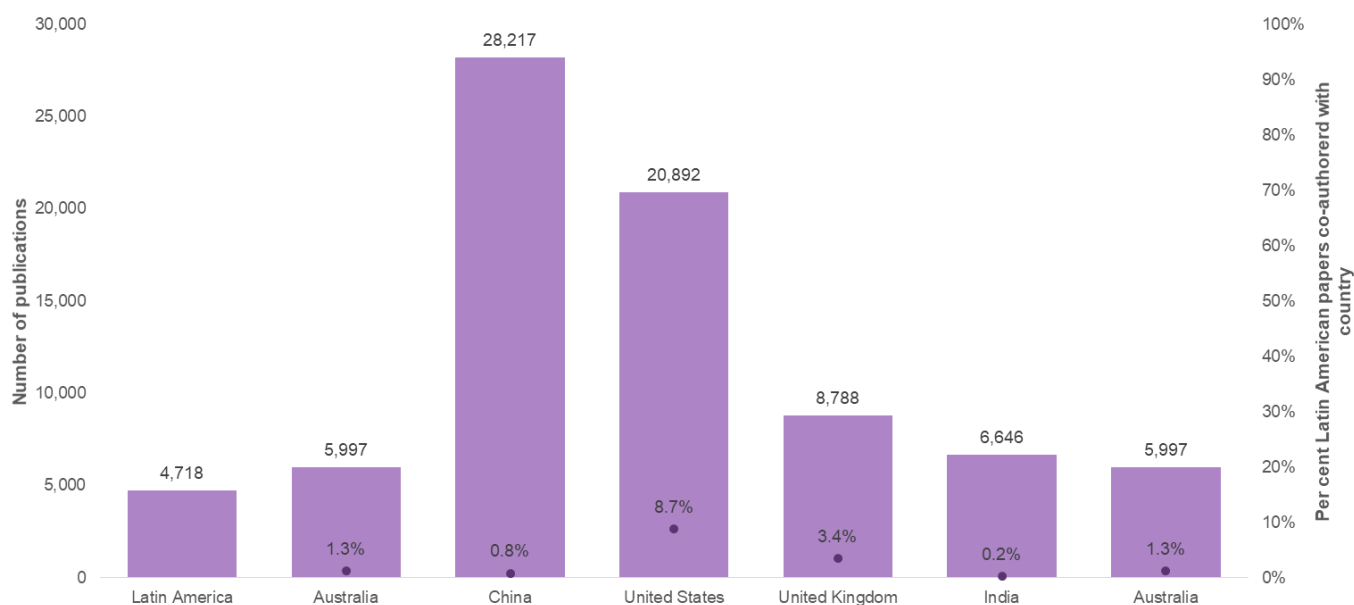


Figure 18: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Built Environment and Design

Source: Scopus (Elsevier, 2019)

Education

Table 27: Top-performing research institutions, Education

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	663	0.8%	990	11
Universidade Estadual Paulista	Brazil	334	1.2%	406	9
Universidad Nacional Autónoma de México	Mexico	341	0.3%	463	9
Universidade Federal do Rio Grande do Sul	Brazil	340	0.0%	400	9
Pontificia Universidad Católica de Chile	Chile	311	1.0%	1,190	15

Source: Scopus (Elsevier, 2019)

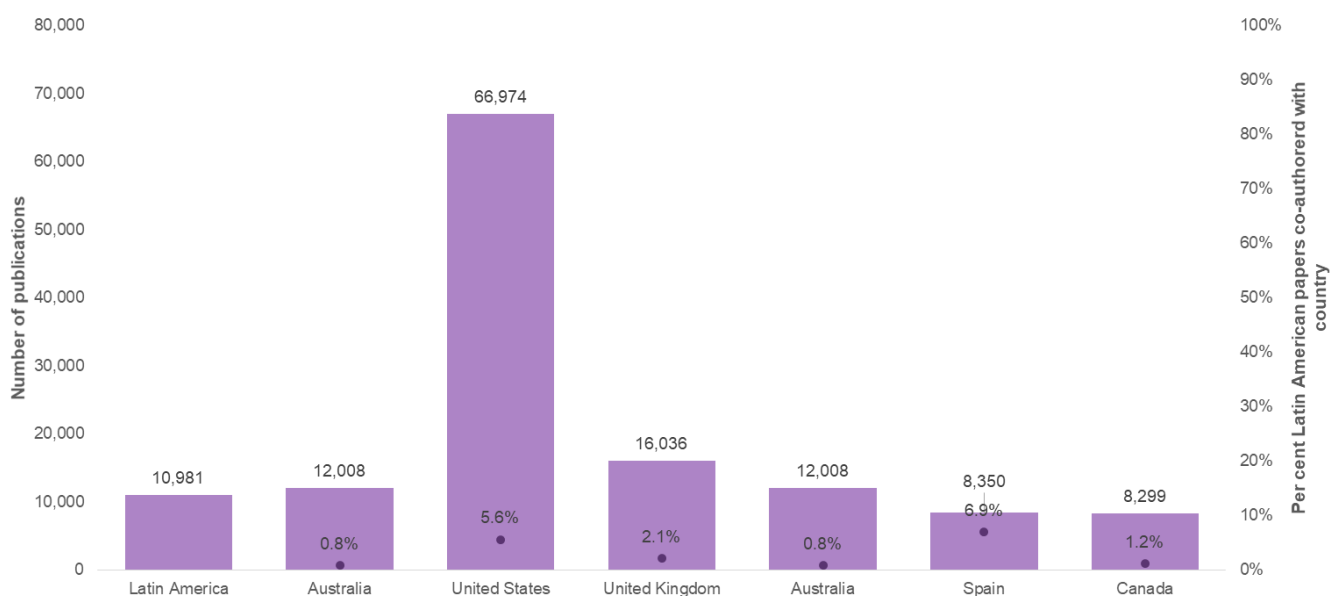


Figure 19: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Education

Source: Scopus (Elsevier, 2019)

Economics

Table 28: Top-performing research institutions, Economics

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	410	1.2%	1,212	15
Fundação Getúlio Vargas	Brazil	304	0.7%	1,434	18
Universidade Federal do Rio de Janeiro	Brazil	207	2.9%	834	15
Pontificia Universidad Católica de Chile	Chile	186	4.3%	927	16
Universidade de Brasília	Brazil	177	1.7%	417	10

Source: Scopus (Elsevier, 2019)

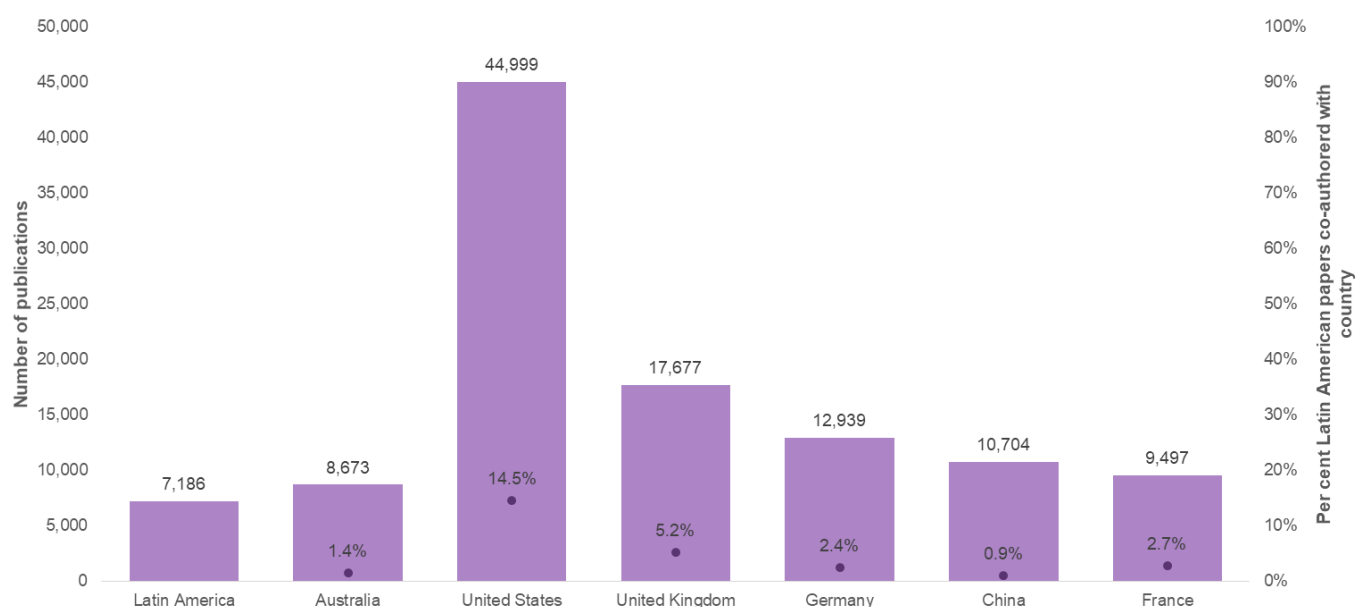


Figure 20: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Economics

Source: Scopus (Elsevier, 2019)

Commerce, Management, Tourism and Services

Table 29: Top-performing research institutions, Commerce, Management, Tourism and Services

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	945	1.1%	4,578	32
Universidade Federal do Rio Grande do Sul	Brazil	450	1.6%	2,245	23
Universidade Federal de Santa Catarina	Brazil	432	0.7%	1,507	19
Universidad Nacional de Colombia	Colombia	394	0.3%	891	14
Fundação Getúlio Vargas	Brazil	369	1.6%	1,514	18

Source: Scopus (Elsevier, 2019)

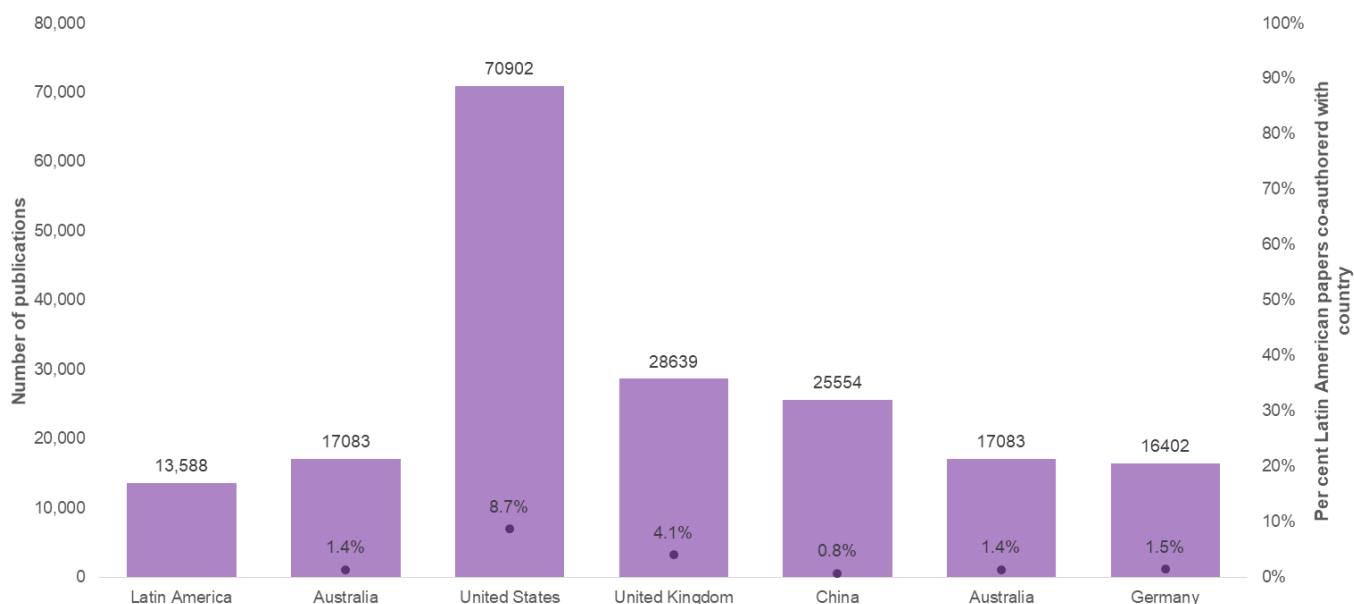


Figure 21: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Commerce, Management, Tourism and Services

Source: Scopus (Elsevier, 2019)

Studies in Human Society

Table 30: Top-performing research institutions, Studies in Human Society

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	2,259	1.2%	6,802	27
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	1,347	0.8%	3,270	19
Universidade Federal do Rio de Janeiro	Brazil	1,040	1.1%	2,404	18
Universidad Nacional Autónoma de México	Mexico	1,063	1.0%	2,902	19
Universidad de Buenos Aires	Argentina	971	0.8%	2,084	16

Source: Scopus (Elsevier, 2019)

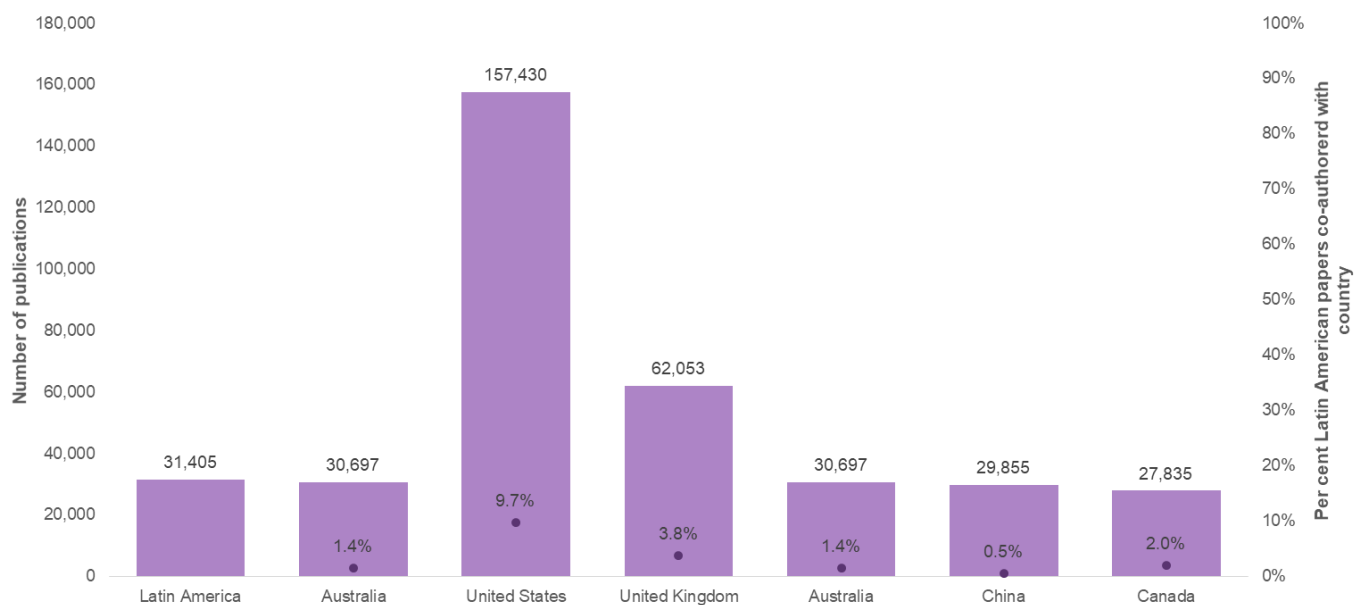


Figure 22: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Studies in Human Society

Source: Scopus (Elsevier, 2019)

Psychology and Cognitive Sciences

Table 31: Top-performing research institutions, Psychology and Cognitive Sciences

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	1,186	2.9%	6,199	28
Universidade Federal do Rio Grande do Sul	Brazil	710	3.5%	3,625	24
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	514	8.6%	2,327	20
Universidad Nacional Autónoma de México	Mexico	482	2.5%	1,505	17
Pontificia Universidad Católica de Chile	Chile	399	5.3%	2,075	20

Source: Scopus (Elsevier, 2019)

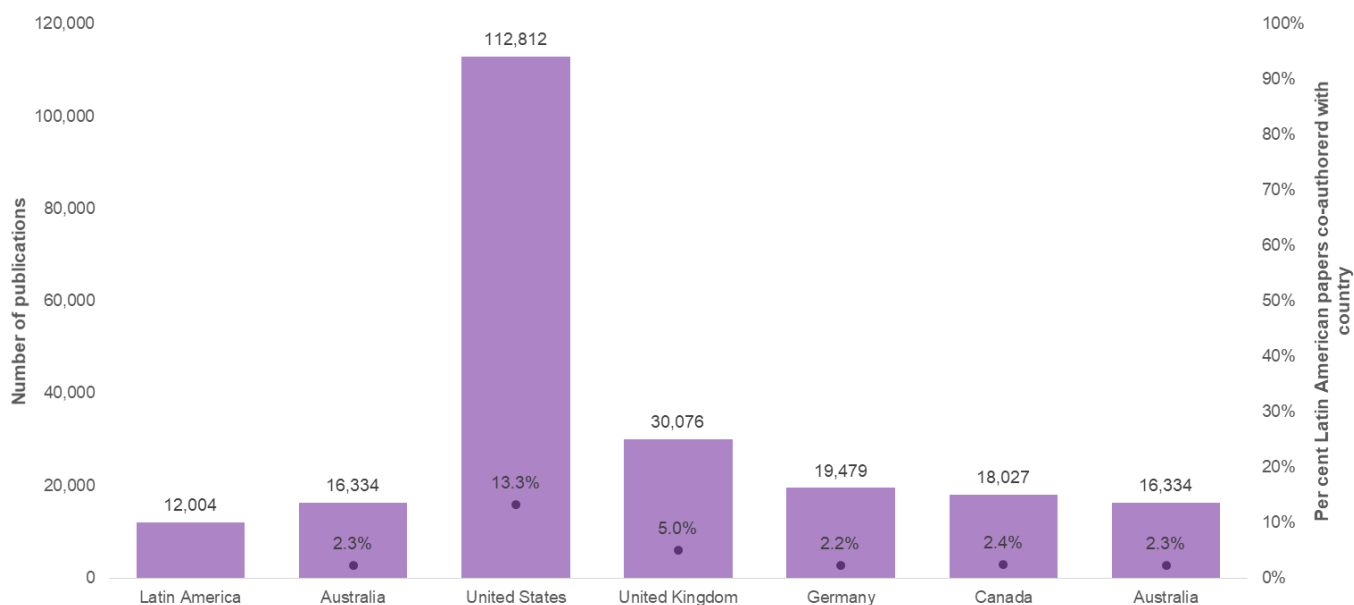


Figure 23: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Psychology and Cognitive Sciences

Source: Scopus (Elsevier, 2019)

Law and Legal Studies

Table 32: Top-performing research institutions, Law and Legal Studies

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Pontificia Universidad Católica de Chile	Chile	132	2.3%	322	10
Universidad de Chile	Chile	122	0.8%	87	4
Universidade de São Paulo	Brazil	117	1.7%	298	10
Universidad Nacional Autónoma de México	Mexico	98	1.0%	117	5
Pontificia Universidad Católica de Valparaíso	Chile	78	1.3%	113	4

Source: Scopus (Elsevier, 2019)

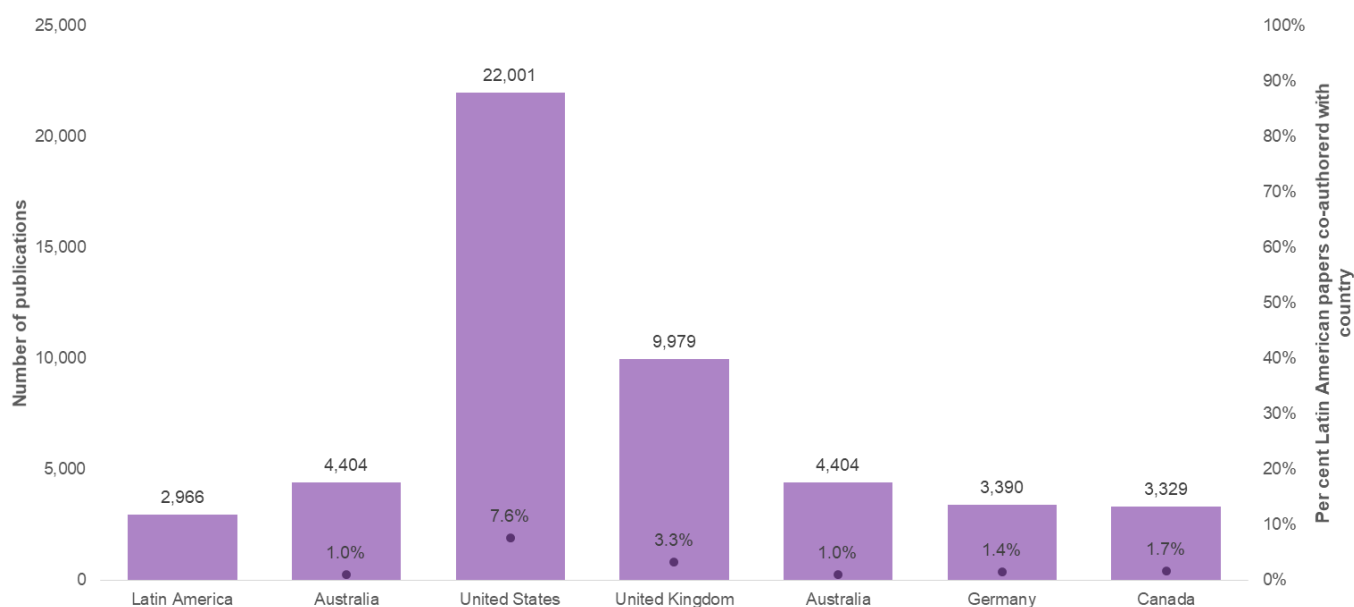


Figure 24: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Law and Legal Studies

Source: Scopus (Elsevier, 2019)

Studies in Creative Arts and Writing

Table 33: Top-performing research institutions, Studies in Creative Arts and Writing

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Pontificia Universidad Católica de Chile	Chile	131	0.0%	69	4
Universidad de Chile	Chile	76	1.3%	36	3
Universidad de Buenos Aires	Argentina	58	1.7%	23	3
Universidade de São Paulo	Brazil	50	0.0%	29	3
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	42	0.0%	38	3

Source: Scopus (Elsevier, 2019)

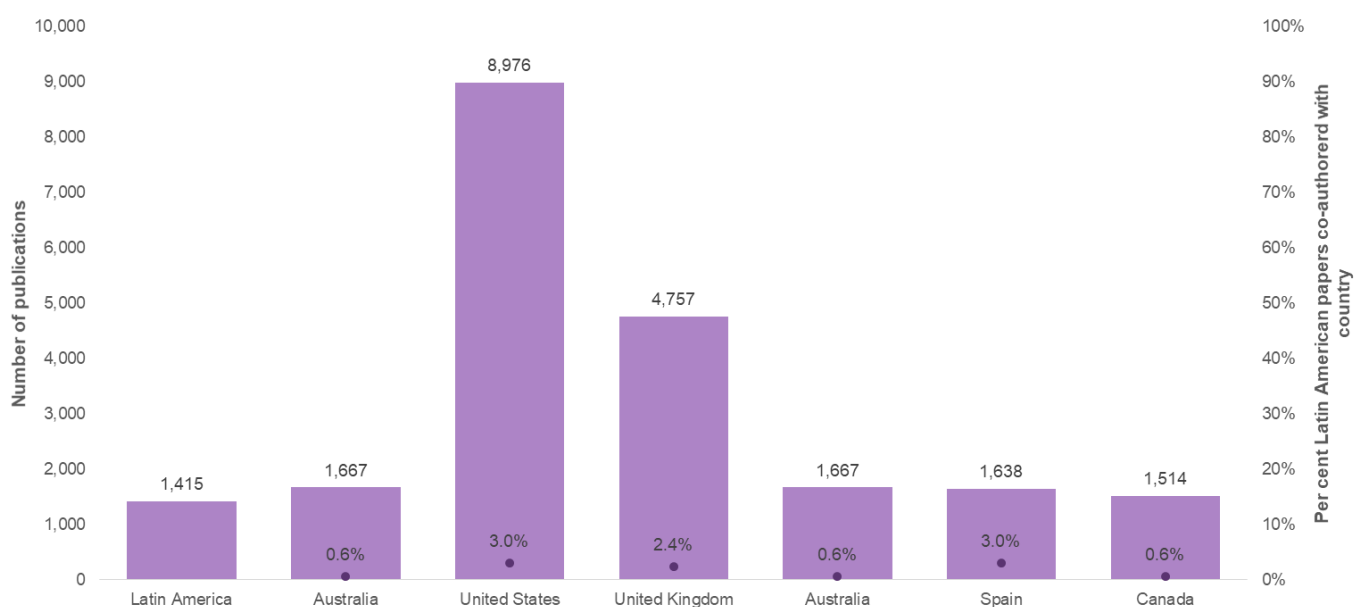


Figure 25: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Creative Arts and Writing

Source: Scopus (Elsevier, 2019)

Language, Communication and Culture

Table 34: Top-performing research institutions, Language, Communication and Culture

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Universidade de São Paulo	Brazil	758	0.8%	1,566	15
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	586	2.0%	882	13
Universidad de Buenos Aires	Argentina	546	0.7%	632	11
Universidad de Chile	Chile	429	0.9%	667	11
Pontificia Universidad Católica de Chile	Chile	427	2.1%	1,003	14

Source: Scopus (Elsevier, 2019)

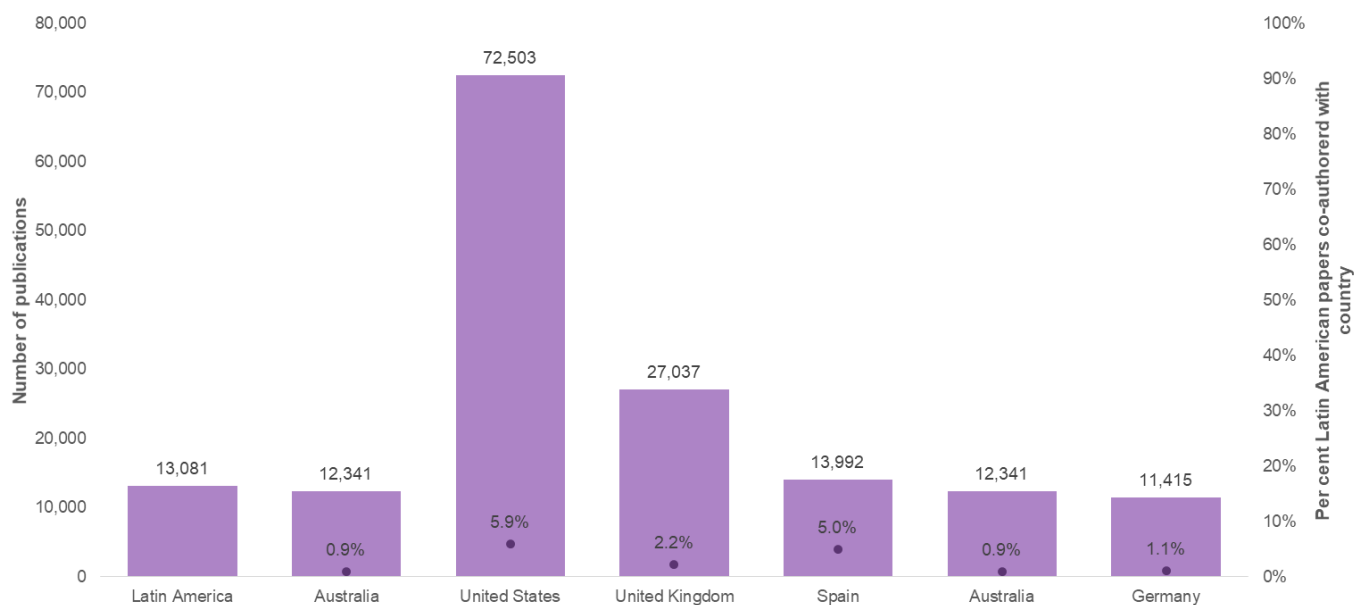


Figure 26: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Language, Communication and Culture

Source: Scopus (Elsevier, 2019)

History and Archaeology

Table 35: Top-performing research institutions, History and Archaeology

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	663	0.8%	1,540	14
Universidad de Buenos Aires	Argentina	422	0.0%	636	9
Universidad Nacional Autónoma de México	Mexico	361	0.6%	645	13
Universidade de São Paulo	Brazil	238	0.0%	446	10
Universidad de Chile	Chile	231	3.5%	686	12

Source: Scopus (Elsevier, 2019)

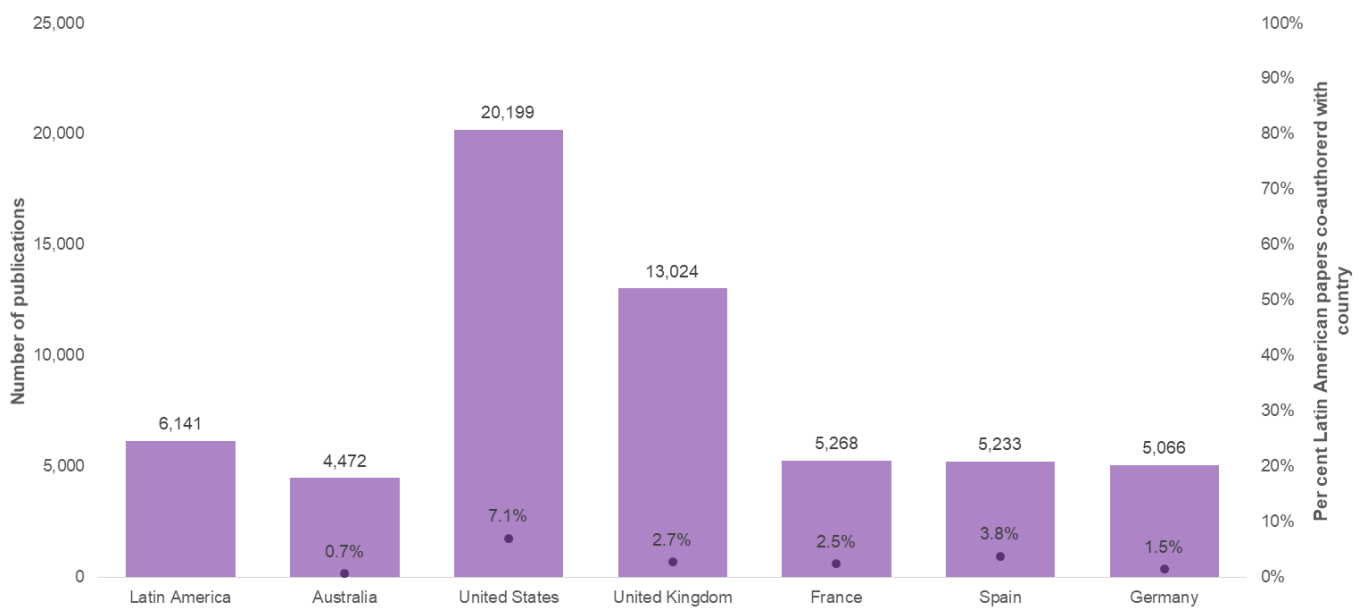


Figure 27: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, History and Archaeology

Source: Scopus (Elsevier, 2019)

Philosophy and Religious Studies

Table 36: Top-performing research institutions, Philosophy and Religious Studies

Research Institution	Country	Journal articles	Australian co-authorship	Citations	H-index
Consejo Nacional de Investigaciones Científicas y Técnicas	Argentina	349	0.0%	313	7
Universidad de Buenos Aires	Argentina	346	0.0%	185	6
Universidade de São Paulo	Brazil	185	2.2%	182	6
Universidad Nacional Autónoma de México	Mexico	169	0.0%	223	7
Pontificia Universidad Católica de Chile	Chile	170	0.0%	117	5

Source: Scopus (Elsevier, 2019)

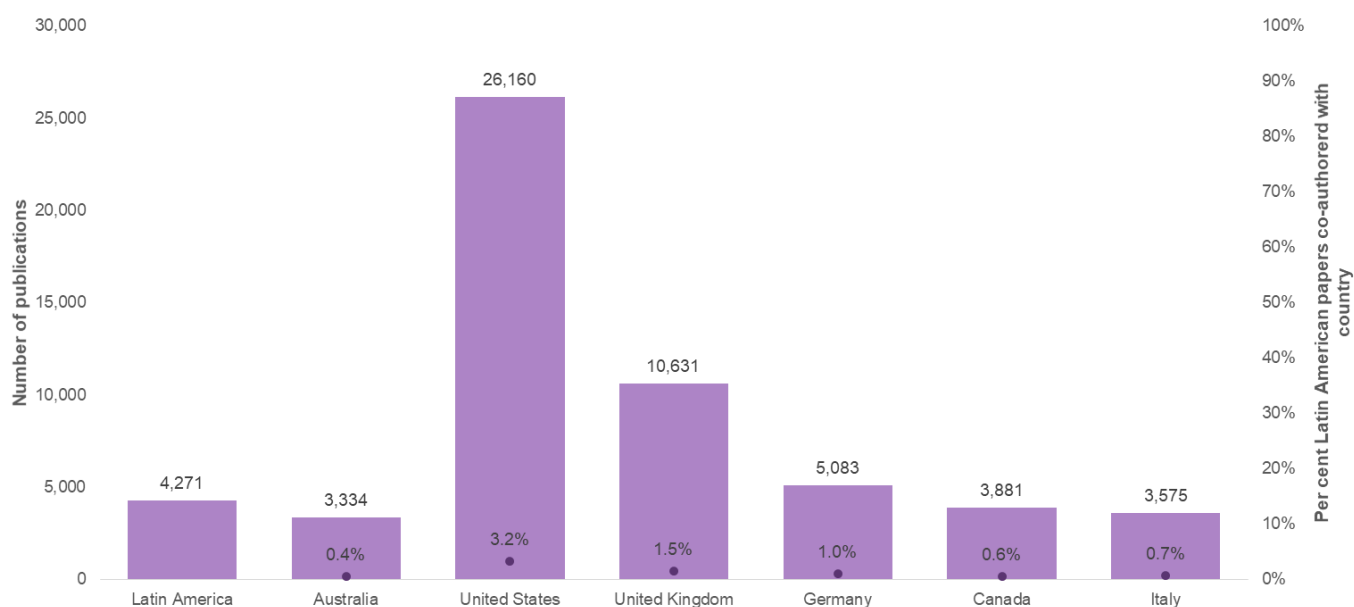


Figure 28: Journal articles published between 2014 and 2018 by Latin America, Australia and the five largest publishing countries and the proportion of Latin American papers co-authored with each country, Philosophy and Religious Studies

Source: Scopus (Elsevier, 2019)

Conclusion

This report has identified a number of high-performing research institutions in Latin America and provides Australian research stakeholders with insights into the institutions in Latin America that are currently producing significant numbers of publications in specific fields of research. This report also summarises some high-level information about university rankings and other bibliometrics that the Australian research community can use to identify potential research institutions to collaborate with in Latin America.

In identifying top research institutions in Latin America, this report has provided a snapshot of the current research landscape in the region, using simple metrics and existing university rankings to identify high-performing research institutions. It may be valuable to refresh this report in the future to see whether there are any changes in the research landscape of Latin America.

Future research could also build upon the information included here by focusing on other metrics to gain a better understanding of the impact of the research being produced, rather than focusing on the total number of documents published. Metrics such as publication counts, citation counts and h-index, that were included in this report, could be complemented with other metrics, such as field-weighted citation impact and altmetrics, to provide a more complete picture of the research impact. The research strengths of Latin American research institutions could also be examined in more detail which could help identify more specific opportunities for collaboration.

Future work could also be done to focus in on more specific fields of research where Australian researchers are leading the way. Instead of focusing on 22 ANZSRC fields of research and the research output at an institutional level, future research could focus on sub-fields of research and potentially identify individual departments within Latin American research institutions, or individual researchers affiliated with Latin America. This may provide the Australian research community with even more useful information to help identify potential research collaborators in the Latin American region.

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Appendix A: List of fields of research

As Scopus, one of the main information sources in this project, does not include the ANZSRC in its database, a proxy ANZSRC will be used in this project. This was based on the ASJC subject terms that are used in Scopus. A mapping of the ASJC subject terms onto the broad ANZSRC fields of research was completed by ACER by comparing the detailed fields of research within each of the 22 ANZSRC broad fields of research with the ASJC subject terms. This mapping is included in Table 37.

Table 37: ASJC subject term mapping onto ANZSRC broad fields of research

ANZSRC broad fields of research	ASJC subject terms
Mathematical Sciences	Algebra and Number Theory Logic Applied Mathematics Analysis Modelling and Simulation Geometry and Topology Control and Optimization Numerical Analysis Computational Mathematics Discrete Mathematics and Combinatorics Statistics and Probability Mathematical Physics Statistical and Nonlinear Physics Mathematics (all) Mathematics (miscellaneous) Statistics, Probability and Uncertainty
Physical Sciences	Astronomy and Astrophysics Space and Planetary Science Atomic and Molecular Physics, and Optics Nuclear and High Energy Physics Radiation Condensed Matter Physics Physics and Astronomy (all) Physics and Astronomy (miscellaneous) Acoustics and Ultrasonics Instrumentation Surfaces and Interfaces Biophysics
Chemical Sciences	Analytical Chemistry Inorganic Chemistry Organic Chemistry Physical and Theoretical Chemistry Chemistry (all) Chemistry (miscellaneous) Electrochemistry Spectroscopy Environmental Chemistry
Earth Sciences	Atmospheric Science Geochemistry and Petrology Geology Geophysics Oceanography Stratigraphy Earth-Surface Processes Water Science and Technology Palaeontology Computers in Earth Science Earth and Planetary Sciences (all) Earth and Planetary Sciences (miscellaneous)

ANZSRC broad fields of research	ASJC subject terms
Environmental Sciences	Ecological Modelling Pollution Waste Management Nature and Landscape Conservation Global and Planetary Change Soil Science Environmental Science (all) Environmental Science (miscellaneous) Health, Toxicology and Mutagenesis
Biological Sciences	Biochemistry Cell Biology Ecology Ecology, Evolution, Behaviour and Systematics Developmental Biology Genetics Microbiology Physiology Endocrinology Plant Science Animal Science and Zoology Insect Science Biochemistry, Genetics and Molecular Biology (all) Biochemistry, Genetics and Molecular Biology (miscellaneous) Molecular Biology Structural Biology
Agricultural and Veterinary Sciences	Management, Monitoring, Policy and Law Agronomy and Crop Science Aquatic Science Forestry Horticulture Veterinary (all) Veterinary (miscellaneous) Equine Food Animals Small Animals Agricultural and Biological Sciences (all) Agricultural and Biological Sciences (miscellaneous)
Information and Computing Sciences	Theoretical Computer Science Computer Science (all) Computer Science (miscellaneous) Artificial Intelligence Computational Theory and Mathematics Computer Graphics and Computer-Aided Design Computer Science Applications Computer Vision and Pattern Recognition Human-Computer Interaction Information Systems Software Decision Sciences (all) Decision Sciences (miscellaneous) Information Systems and Management Management Science and Operations Research Library and Information Sciences Health Information Management Health Informatics
Engineering	Engineering (all) Engineering (miscellaneous) Aerospace Engineering Automotive Engineering Biomedical Engineering Civil and Structural Engineering

ANZSRC broad fields of research	ASJC subject terms
	Computational Mechanics Control and Systems Engineering Electrical and Electronic Engineering Industrial and Manufacturing Engineering Mechanical Engineering Mechanics of Materials Ocean Engineering Safety, Risk, Reliability and Quality Media Technology Signal Processing Food Science Environmental Engineering Energy (all) Energy (miscellaneous) Energy Engineering and Power Technology Fuel Technology Nuclear Energy and Engineering Renewable Energy, Sustainability and the Environment Chemical Engineering (all) Chemical Engineering (miscellaneous) Bioengineering Catalysis Chemical Health and Safety Colloid and Surface Chemistry Filtration and Separation Fluid Flow and Transfer Processes Process Chemistry and Technology Materials Science (all) Materials Science (miscellaneous) Biomaterials Ceramics and Composites Electronic, Optical and Magnetic Materials Materials Chemistry Metals and Alloys Polymers and Plastics Surfaces, Coatings and Films Geotechnical Engineering and Engineering Geology
Technology	Biotechnology Computer Networks and Communications Hardware and Architecture Applied Microbiology and Biotechnology
Medical and Health Sciences	Aging Cancer Research Clinical Biochemistry Molecular Medicine Immunology Complementary and Alternative Medicine Nutrition and Dietetics Medicine (all) Medicine (miscellaneous) Anatomy Anaesthesiology and Pain Medicine Biochemistry (medical) Cardiology and Cardiovascular Medicine Critical Care and Intensive Care Medicine Dermatology Drug Guides Embryology Emergency Medicine Endocrinology, Diabetes and Metabolism Epidemiology

ANZSRC broad fields of research	ASJC subject terms
	Family Practice Gastroenterology Genetics (clinical) Geriatrics and Gerontology Haematology Hepatology Histology Immunology and Allergy Internal Medicine Infectious Diseases Microbiology (medical) Nephrology Neurology (clinical) Obstetrics and Gynaecology Oncology Ophthalmology Orthopaedics and Sports Medicine Otorhinolaryngology Pathology and Forensic Medicine Paediatrics, Perinatology and Child Health Pharmacology (medical) Physiology (medical) Psychiatry and Mental Health Public Health, Environmental and Occupational Health Pulmonary and Respiratory Medicine Radiology, Nuclear Medicine and Imaging Rehabilitation Reproductive Medicine Reviews and References (medical) Rheumatology Surgery Transplantation Urology Nursing (all) Nursing (miscellaneous) Advanced and Specialized Nursing Assessment and Diagnosis Care Planning Community and Home Care Critical Care Nursing Emergency Nursing Fundamentals and Skills Gerontology Issues, Ethics and Legal Aspects Leadership and Management LPN and LVN Maternity and Midwifery Medical and Surgical Nursing Nurse Assisting Oncology (nursing) Pathophysiology Paediatrics Pharmacology (nursing) Psychiatric Mental Health Research and Theory Review and Exam Preparation Neuroscience (all) Neuroscience (miscellaneous) Behavioural Neuroscience Biological Psychiatry Cellular and Molecular Neuroscience

ANZSRC broad fields of research	ASJC subject terms
	Cognitive Neuroscience Developmental Neuroscience Endocrine and Autonomic Systems Neurology Sensory Systems Pharmacology, Toxicology and Pharmaceutics (all) Pharmacology, Toxicology and Pharmaceutics (miscellaneous) Drug Discovery Pharmaceutical Science Pharmacology Toxicology Dentistry (all) Dentistry (miscellaneous) Dental Assisting Dental Hygiene Oral Surgery Orthodontics Periodontics Health Professions (all) Health Professions (miscellaneous) Chiropractics Complementary and Manual Therapy Emergency Medical Services Medical Assisting and Transcription Medical Laboratory Technology Medical Terminology Occupational Therapy Optometry Pharmacy Physical Therapy, Sports Therapy and Rehabilitation Podiatry Radiological and Ultrasound Technology Respiratory Care Speech and Hearing Immunology and Microbiology (all) Immunology and Microbiology (miscellaneous) Parasitology Virology
Built Environment and Design	Building and Construction Architecture Human Factors and Ergonomics Urban Studies
Education	Education
Economics	Economics, Econometrics and Finance (all) Economics, Econometrics and Finance (miscellaneous) Economics and Econometrics
Commerce, Management, Tourism and Services	Business, Management and Accounting (all) Business, Management and Accounting (miscellaneous) Accounting Business and International Management Management Information Systems Management of Technology and Innovation Marketing Organizational Behaviour and Human Resource Management Strategy and Management Tourism, Leisure and Hospitality Management Industrial Relations Finance Transportation
Studies in Human Society	Economic Geology Health Policy

ANZSRC broad fields of research	ASJC subject terms
	Social Sciences (all) Social Sciences (miscellaneous) Development Geography, Planning and Development Health (social science) Safety Research Sociology and Political Science Anthropology Demography Gender Studies Life-span and Life-course Studies Political Science and International Relations Public Administration
Psychology and Cognitive Sciences	Psychology (all) Psychology (miscellaneous) Applied Psychology Clinical Psychology Developmental and Educational Psychology Experimental and Cognitive Psychology Neuropsychology and Physiological Psychology Social Psychology
Law and Legal Studies	Law
Studies in Creative Arts and Writing	Visual Arts and Performing Arts Music
Language, Communication and Culture	Linguistics and Language Communication Cultural Studies Language and Linguistics Classics Literature and Literary Theory Arts and Humanities (all) Arts and Humanities (miscellaneous)
History and Archaeology	Archaeology History Museology Conservation Archaeology (arts and humanities)
Philosophy and Religious Studies	Philosophy Religious Studies History and Philosophy of Science

Appendix B: List of advanced search terms

Table 38 includes the advanced search terms that were combined to conduct the searches in Scopus to identify high-performing research institutions in Latin America.

Table 38: Advanced search terms used in Scopus

Theme	Topic	Advanced search terms
Country	Argentina	AFFILCOUNTRY(Argentina)
	Bolivia	AFFILCOUNTRY(Bolivia)
	Brazil	AFFILCOUNTRY(Brazil)
	Chile	AFFILCOUNTRY(Chile)
	Colombia	AFFILCOUNTRY(Colombia)
	Costa Rica	AFFILCOUNTRY(Costa Rica)
	Cuba	AFFILCOUNTRY(Cuba)
	Dominican Republic	AFFILCOUNTRY(Dominican Republic)
	Ecuador	AFFILCOUNTRY(Ecuador)
	El Salvador	AFFILCOUNTRY(El Salvador)
	Guatemala	AFFILCOUNTRY(Guatemala)
	Honduras	AFFILCOUNTRY(Honduras)
	Mexico	AFFILCOUNTRY(Mexico)
	Nicaragua	AFFILCOUNTRY(Nicaragua)
	Panama	AFFILCOUNTRY(Panama)
	Paraguay	AFFILCOUNTRY(Paraguay)
	Peru	AFFILCOUNTRY(Peru)
Uruguay	AFFILCOUNTRY(Uruguay)	
Venezuela	AFFILCOUNTRY(Venezuela)	
Fields of Research	Mathematical Sciences	SUBJTERMS(2602) OR SUBJTERMS(2603) OR SUBJTERMS(2604) OR SUBJTERMS(2605) OR SUBJTERMS(2606) OR SUBJTERMS(2607) OR SUBJTERMS(2608) OR SUBJTERMS(2609) OR SUBJTERMS(2610) OR SUBJTERMS(2600) OR SUBJTERMS(2601) OR SUBJTERMS(2611) OR SUBJTERMS(2612) OR SUBJTERMS(3109) OR SUBJTERMS(2613) OR SUBJTERMS(1804)
	Physical Sciences	SUBJTERMS(3102) OR SUBJTERMS(3103) OR SUBJTERMS(3107) OR SUBJTERMS(1304) OR SUBJTERMS(3104) OR SUBJTERMS(3105) OR SUBJTERMS(3106) OR SUBJTERMS(3100) OR SUBJTERMS(3101) OR SUBJTERMS(3108) OR SUBJTERMS(1912) OR SUBJTERMS(3110)
	Chemical Sciences	SUBJTERMS(1602) OR SUBJTERMS(1600) OR SUBJTERMS(1601) OR SUBJTERMS(1603) OR SUBJTERMS(2304) OR SUBJTERMS(1604) OR SUBJTERMS(1605) OR SUBJTERMS(1606) OR SUBJTERMS(1607)
	Earth Sciences	SUBJTERMS(1902) OR SUBJTERMS(1903) OR SUBJTERMS(1900) OR SUBJTERMS(1901) OR SUBJTERMS(1904) OR SUBJTERMS(1906) OR SUBJTERMS(1907) OR SUBJTERMS(1908) OR SUBJTERMS(1910) OR SUBJTERMS(1911) OR SUBJTERMS(1913) OR SUBJTERMS(2312)
	Environmental Sciences	SUBJTERMS(2302) OR SUBJTERMS(2300) OR SUBJTERMS(2301) OR SUBJTERMS(2306) OR

Theme	Topic	Advanced search terms
		SUBJTERMS(2307) OR SUBJTERMS(2309) OR SUBJTERMS(2310) OR SUBJTERMS(1111) OR SUBJTERMS(2311)
	Biological Sciences	SUBJTERMS(1103) OR SUBJTERMS(1303) OR SUBJTERMS(1300) OR SUBJTERMS(1301) OR SUBJTERMS(1307) OR SUBJTERMS(1309) OR SUBJTERMS(2303) OR SUBJTERMS(1105) OR SUBJTERMS(1310) OR SUBJTERMS(1311) OR SUBJTERMS(1109) OR SUBJTERMS(2404) OR SUBJTERMS(1312) OR SUBJTERMS(1314) OR SUBJTERMS(1110) OR SUBJTERMS(1315)
	Agricultural and Veterinary Sciences	SUBJTERMS(1100) OR SUBJTERMS(1101) OR SUBJTERMS(1102) OR SUBJTERMS(1104) OR SUBJTERMS(3402) OR SUBJTERMS(3403) OR SUBJTERMS(1107) OR SUBJTERMS(1108) OR SUBJTERMS(2308) OR SUBJTERMS(3404) OR SUBJTERMS(3400) OR SUBJTERMS(3401)
	Information and Computing Sciences	SUBJTERMS(1702) OR SUBJTERMS(1703) OR SUBJTERMS(1704) OR SUBJTERMS(1700) OR SUBJTERMS(1701) OR SUBJTERMS(1706) OR SUBJTERMS(1707) OR SUBJTERMS(1800) OR SUBJTERMS(1801) OR SUBJTERMS(2718) OR SUBJTERMS(3605) OR SUBJTERMS(1709) OR SUBJTERMS(1710) OR SUBJTERMS(1802) OR SUBJTERMS(3309) OR SUBJTERMS(1803) OR SUBJTERMS(1712) OR SUBJTERMS(2614)
	Engineering	SUBJTERMS(2202) OR SUBJTERMS(2203) OR SUBJTERMS(1502) OR SUBJTERMS(2502) OR SUBJTERMS(2204) OR SUBJTERMS(1503) OR SUBJTERMS(2503) OR SUBJTERMS(1500) OR SUBJTERMS(1501) OR SUBJTERMS(1504) OR SUBJTERMS(2205) OR SUBJTERMS(1505) OR SUBJTERMS(2206) OR SUBJTERMS(2207) OR SUBJTERMS(2208) OR SUBJTERMS(2504) OR SUBJTERMS(2100) OR SUBJTERMS(2101) OR SUBJTERMS(2102) OR SUBJTERMS(2200) OR SUBJTERMS(2201) OR SUBJTERMS(2305) OR SUBJTERMS(1506) OR SUBJTERMS(1507) OR SUBJTERMS(1106) OR SUBJTERMS(2103) OR SUBJTERMS(1909) OR SUBJTERMS(2209) OR SUBJTERMS(2505) OR SUBJTERMS(2500) OR SUBJTERMS(2501) OR SUBJTERMS(2210) OR SUBJTERMS(2211) OR SUBJTERMS(2214) OR SUBJTERMS(2506) OR SUBJTERMS(2104) OR SUBJTERMS(2212) OR SUBJTERMS(2507) OR SUBJTERMS(1508) OR SUBJTERMS(2105) OR SUBJTERMS(2213) OR SUBJTERMS(1711) OR SUBJTERMS(2508)
	Technology	SUBJTERMS(2402) OR SUBJTERMS(1305) OR SUBJTERMS(1705) OR SUBJTERMS(1708)
	Medical and Health Sciences	(SUBJTERMS(2902) OR SUBJTERMS(1302) OR SUBJTERMS(2702) OR SUBJTERMS(2703) OR SUBJTERMS(2903) OR SUBJTERMS(2802) OR SUBJTERMS(2704) OR SUBJTERMS(2803) OR SUBJTERMS(1306) OR SUBJTERMS(2705) OR SUBJTERMS(2904) OR SUBJTERMS(2804) OR SUBJTERMS(3602) OR SUBJTERMS(1308) OR SUBJTERMS(2805) OR SUBJTERMS(2905) OR SUBJTERMS(2707) OR SUBJTERMS(3603) OR SUBJTERMS(2706) OR SUBJTERMS(2906) OR SUBJTERMS(3502) OR SUBJTERMS(3503) OR

Theme	Topic	Advanced search terms
		SUBJTERMS(3500) OR SUBJTERMS(3501) OR SUBJTERMS(2708) OR SUBJTERMS(2806) OR SUBJTERMS(3002) OR SUBJTERMS(2709) OR SUBJTERMS(2710) OR SUBJTERMS(3604) OR SUBJTERMS(2711) OR SUBJTERMS(2907) OR SUBJTERMS(2807) OR SUBJTERMS(2712) OR SUBJTERMS(2713) OR SUBJTERMS(2714) OR SUBJTERMS(2908) OR SUBJTERMS(2715) OR SUBJTERMS(2716) OR SUBJTERMS(2717) OR SUBJTERMS(2909) OR SUBJTERMS(3600) OR SUBJTERMS(3601) OR SUBJTERMS(2720) OR SUBJTERMS(2721) OR SUBJTERMS(2722) OR SUBJTERMS(2403) OR SUBJTERMS(2723) OR SUBJTERMS(2400) OR SUBJTERMS(2401) OR SUBJTERMS(2725) OR SUBJTERMS(2724) OR SUBJTERMS(2910) OR SUBJTERMS(2911) OR SUBJTERMS(2912) OR SUBJTERMS(2913) OR SUBJTERMS(2914) OR SUBJTERMS(3606) OR SUBJTERMS(3607) OR SUBJTERMS(3608) OR SUBJTERMS(2700) OR SUBJTERMS(2701) OR SUBJTERMS(2726) OR SUBJTERMS(1313) OR SUBJTERMS(2727) OR SUBJTERMS(2808) OR SUBJTERMS(2728) OR SUBJTERMS(2800) OR SUBJTERMS(2801) OR SUBJTERMS(2915) OR SUBJTERMS(2900) OR SUBJTERMS(2901) OR SUBJTERMS(2916) OR SUBJTERMS(2729) OR SUBJTERMS(3609) OR SUBJTERMS(2730) OR SUBJTERMS(2917) OR SUBJTERMS(2731) OR SUBJTERMS(3610) OR SUBJTERMS(3504) OR SUBJTERMS(3505) OR SUBJTERMS(2732) OR SUBJTERMS(2733) OR SUBJTERMS(2405) OR SUBJTERMS(2734) OR SUBJTERMS(2918) OR SUBJTERMS(2919) OR SUBJTERMS(2735) OR SUBJTERMS(3506) OR SUBJTERMS(3003) OR SUBJTERMS(3004) OR SUBJTERMS(2736) OR SUBJTERMS(2920) OR SUBJTERMS(3000) OR SUBJTERMS(3001) OR SUBJTERMS(3611) OR SUBJTERMS(3612) OR SUBJTERMS(2737) OR SUBJTERMS(3613) OR SUBJTERMS(2921) OR SUBJTERMS(2738) OR SUBJTERMS(2739) OR SUBJTERMS(2740) OR SUBJTERMS(3614) OR SUBJTERMS(2741) OR SUBJTERMS(2742) OR SUBJTERMS(2743) OR SUBJTERMS(2922) OR SUBJTERMS(3615) OR SUBJTERMS(2923) OR SUBJTERMS(2744) OR SUBJTERMS(2745) OR SUBJTERMS(2809) OR SUBJTERMS(3616) OR SUBJTERMS(2746) OR SUBJTERMS(3005) OR SUBJTERMS(2747) OR SUBJTERMS(2748) OR SUBJTERMS(2406)
	Built Environment and Design	SUBJTERMS(2216) OR SUBJTERMS(2215) OR SUBJTERMS(3307) OR SUBJTERMS(3322)
	Education	SUBJTERMS(3304)
	Economics	SUBJTERMS(2002) OR SUBJTERMS(2000) OR SUBJTERMS(2001)
	Commerce, Management, Tourism and Services	SUBJTERMS(1402) OR SUBJTERMS(1403) OR SUBJTERMS(1400) OR SUBJTERMS(1401) OR SUBJTERMS(2003) OR SUBJTERMS(1410) OR SUBJTERMS(1404) OR SUBJTERMS(1405) OR SUBJTERMS(1406) OR SUBJTERMS(1407) OR SUBJTERMS(1408) OR SUBJTERMS(1409) OR SUBJTERMS(3313)

Theme	Topic	Advanced search terms
	Studies in Human Society	SUBJTERMS(3314) OR SUBJTERMS(3317) OR SUBJTERMS(3303) OR SUBJTERMS(1905) OR SUBJTERMS(3318) OR SUBJTERMS(3305) OR SUBJTERMS(3306) OR SUBJTERMS(2719) OR SUBJTERMS(3319) OR SUBJTERMS(3320) OR SUBJTERMS(3321) OR SUBJTERMS(3311) OR SUBJTERMS(3300) OR SUBJTERMS(3301) OR SUBJTERMS(3312)
	Psychology and Cognitive Sciences	SUBJTERMS(3202) OR SUBJTERMS(3203) OR SUBJTERMS(3204) OR SUBJTERMS(3205) OR SUBJTERMS(3206) OR SUBJTERMS(3200) OR SUBJTERMS(3201) OR SUBJTERMS(3207)
	Law and Legal Studies	SUBJTERMS(3308)
	Studies in Creative Arts and Writing	SUBJTERMS(1210) OR SUBJTERMS(1213)
	Language, Communication and Culture	SUBJTERMS(1200) OR SUBJTERMS(1201) OR SUBJTERMS(1205) OR SUBJTERMS(3315) OR SUBJTERMS(3316) OR SUBJTERMS(1203) OR SUBJTERMS(3310) OR SUBJTERMS(1208)
	History and Archaeology	SUBJTERMS(3302) OR SUBJTERMS(1204) OR SUBJTERMS(1206) OR SUBJTERMS(1202) OR SUBJTERMS(1209)
	Philosophy and Religious Studies	SUBJTERMS(1207) OR SUBJTERMS(1211) OR SUBJTERMS(1212)
Publication Date	Between 2014 and 2018	PUBYEAR > 2013 AND PUBYEAR < 2019
Source and Document Information	Journal Article	DOCTYPE(AR) AND SRCTYPE(J)

Some additional advanced searches were conducted in Scopus at an individual institution level and also for groups of Australian institutions. These searches used research institutions' affiliation ID. These are listed in Table 39.

Table 39: Institution-level advanced search terms used in Scopus

Institution	Advanced search terms
Centro de Investigación y de Estudios Avanzados	AF-ID ("Centro de Investigación y de Estudios Avanzados" 60017323)
CNRS Centre National de la Recherche Scientifique	AF-ID ("CNRS Centre National de la Recherche Scientifique" 60008134)
Consejo Nacional de Investigaciones Científicas y Técnicas	AF-ID ("Consejo Nacional de Investigaciones Científicas y Técnicas" 60004518)
Empresa Brasileira de Pesquisa Agropecuária - Embrapa	AF-ID ("Empresa Brasileira de Pesquisa Agropecuária - Embrapa" 60009625)
Fundação Getúlio Vargas	AF-ID ("Fundação Getúlio Vargas" 60069326)
Fundação Oswaldo Cruz	AF-ID ("Fundação Oswaldo Cruz" 60026004)
IN2P3 Institut National de Physique Nucleaire et de Physique des Particules	AF-ID ("IN2P3 Institut National de Physique Nucleaire et de Physique des Particules" 60025995)
Instituto Nacional de Pesquisas Espaciais	AF-ID ("Instituto Nacional de Pesquisas Espaciais" 60012729)
Instituto Politécnico Nacional	AF-ID ("Instituto Politécnico Nacional" 60019176)
Istituto Nazionale di Fisica Nucleare - INFN	AF-ID ("Istituto Nazionale di Fisica Nucleare - INFN" 60021660)
Pontificia Universidad Católica de Chile	AF-ID ("Pontificia Universidad Católica de Chile" 60029681)
Pontificia Universidad Católica de Valparaíso	AF-ID ("Pontificia Universidad Católica de Valparaíso" 60023520)
Pontificia Universidad Católica del Perú	AF-ID ("Pontificia Universidad Católica del Perú" 60071236)

Institution	Advanced search terms
Pontificia Universidad Javeriana	AF-ID ("Pontificia Universidad Javeriana" 60033545)
Tecnológico de Monterrey	AF-ID ("Tecnológico de Monterrey" 60007966)
Universidade Estadual Paulista	AF-ID ("UNESP-Universidade Estadual Paulista" 60006028)
Universidad de Antioquia	AF-ID ("Universidad de Antioquia" 60055833)
Universidad de Buenos Aires	AF-ID ("Universidad de Buenos Aires" 60001563)
Universidad de Chile	AF-ID ("Universidad de Chile" 60012464)
Universidad de Guadalajara	AF-ID ("Universidad de Guadalajara" 60008943)
Universidad de Los Andes, Colombia	AF-ID ("Universidad de Los Andes Colombia" 60052106)
Universidad de Santiago de Chile	AF-ID ("Universidad de Santiago de Chile" 60023383)
Universidad de Talca	AF-ID ("Universidad de Talca" 60016278)
Universidad de Tarapacá de Arica	AF-ID ("Universidad de Tarapacá de Arica" 60030782)
Universidad del Pacifico, Lima	AF-ID ("Universidad del Pacifico Lima" 60071258)
Universidad del Valle, Cali	AF-ID ("Universidad del Valle Cali" 60066812)
Universidad Diego Portales	AF-ID ("Universidad Diego Portales" 60013592)
Universidad Externado de Colombia	AF-ID ("Universidad Externado de Colombia" 60087072)
Universidad Nacional Autónoma de México	AF-ID ("Universidad Nacional Autónoma de México" 60032442)
Universidad Nacional de Colombia	AF-ID ("Universidad Nacional de Colombia" 60055696)
Universidad Nacional de Córdoba	AF-ID ("Universidad Nacional de Córdoba" 60000658)
Universidad Nacional de Ingeniería	AF-ID ("Universidad Nacional de Ingenieria Lima" 60071255)
Universidad Nacional de La Plata	AF-ID ("Universidad Nacional de La Plata" 60032057)
Universidad Nacional del Sur	AF-ID ("Universidad Nacional del Sur" 60013496)
Universidad Nacional Mayor de San Marcos	AF-ID ("Universidad Nacional Mayor de San Marcos" 60071231)
Universidad Peruana Cayetano Heredia	AF-ID ("Universidad Peruana Cayetano Heredia" 60071237)
Universidade de Brasília	AF-ID ("Universidade de Brasilia" 60024989)
Universidade de São Paulo	AF-ID ("Universidade de Sao Paulo - USP" 60008088)
Universidade Estadual de Campinas	AF-ID ("Universidade Estadual de Campinas" 60029570)
Universidade Federal de Lavras	AF-ID ("Universidade Federal de Lavras" 60017841)
Universidade Federal de Minas Gerais	AF-ID ("Universidade Federal de Minas Gerais" 60030074)
Universidade Federal de Santa Catarina	AF-ID ("Universidade Federal de Santa Catarina" 60017609)
Universidade Federal de Santa Maria	AF-ID ("Universidade Federal de Santa Maria" 60033356)
Universidade Federal de Sao Carlos	AF-ID ("Universidade Federal de Sao Carlos" 60013792)
Universidade Federal de São Paulo	AF-ID ("Universidade Federal de Sao Paulo" 60014992)
Universidade Federal de Vicosa	AF-ID ("Universidade Federal de Vicosa" 60013918)
Universidade Federal do Paraná	AF-ID ("Universidade Federal do Paraná" 60015043)
Universidade Federal do Rio de Janeiro	AF-ID ("Universidade Federal do Rio de Janeiro" 60000036)
Universidade Federal do Rio Grande do Sul	AF-ID ("Universidade Federal do Rio Grande do Sul" 60006726)
Universidade Tecnológica Federal do Paraná	AF-ID ("Universidade Tecnológica Federal do Paraná" 60027294)
University of Concepción	AF-ID ("University of Concepcion" 60001282)
Centro de Investigación y de Estudios Avanzados	AF-ID ("Centro de Investigación y de Estudios Avanzados" 60017323)
CNRS Centre National de la Recherche Scientifique	AF-ID ("CNRS Centre National de la Recherche Scientifique" 60008134)
Consejo Nacional de Investigaciones Científicas y Técnicas	AF-ID ("Consejo Nacional de Investigaciones Científicas y Técnicas" 60004518)

Institution	Advanced search terms
Empresa Brasileira de Pesquisa Agropecuária - Embrapa	AF-ID ("Empresa Brasileira de Pesquisa Agropecuária - Embrapa" 60009625)
Fundação Getúlio Vargas	AF-ID ("Fundação Getúlio Vargas" 60069326)
Fundação Oswaldo Cruz	AF-ID ("Fundação Oswaldo Cruz" 60026004)
IN2P3 Institut National de Physique Nucleaire et de Physique des Particules	AF-ID ("IN2P3 Institut National de Physique Nucleaire et de Physique des Particules" 60025995)
Instituto Nacional de Pesquisas Espaciais	AF-ID ("Instituto Nacional de Pesquisas Espaciais" 60012729)
Instituto Politécnico Nacional	AF-ID ("Instituto Politécnico Nacional" 60019176)
Istituto Nazionale di Fisica Nucleare - INFN	AF-ID ("Istituto Nazionale di Fisica Nucleare - INFN" 60021660)
Pontificia Universidad Católica de Chile	AF-ID ("Pontificia Universidad Católica de Chile" 60029681)
Pontificia Universidad Católica de Valparaíso	AF-ID ("Pontificia Universidad Católica de Valparaíso" 60023520)
Pontificia Universidad Católica del Perú	AF-ID ("Pontificia Universidad Católica del Perú" 60071236)
Pontificia Universidad Javeriana	AF-ID ("Pontificia Universidad Javeriana" 60033545)
Tecnológico de Monterrey	AF-ID ("Tecnológico de Monterrey" 60007966)
Universidade Estadual Paulista	AF-ID ("UNESP-Universidade Estadual Paulista" 60006028)
Universidad de Antioquia	AF-ID ("Universidad de Antioquia" 60055833)
Universidad de Buenos Aires	AF-ID ("Universidad de Buenos Aires" 60001563)
Universidad de Chile	AF-ID ("Universidad de Chile" 60012464)
Universidad de Guadalajara	AF-ID ("Universidad de Guadalajara" 60008943)
Universidad de Los Andes, Colombia	AF-ID ("Universidad de Los Andes Colombia" 60052106)
Universidad de Santiago de Chile	AF-ID ("Universidad de Santiago de Chile" 60023383)
Universidad de Talca	AF-ID ("Universidad de Talca" 60016278)
Universidad de Tarapacá de Arica	AF-ID ("Universidad de Tarapacá de Arica" 60030782)
Universidad del Pacifico, Lima	AF-ID ("Universidad del Pacifico Lima" 60071258)
Universidad del Valle, Cali	AF-ID ("Universidad del Valle Cali" 60066812)
Universidad Diego Portales	AF-ID ("Universidad Diego Portales" 60013592)
Universidad Externado de Colombia	AF-ID ("Universidad Externado de Colombia" 60087072)
Universidad Nacional Autónoma de México	AF-ID ("Universidad Nacional Autónoma de México" 60032442)
Universidad Nacional de Colombia	AF-ID ("Universidad Nacional de Colombia" 60055696)
Universidad Nacional de Córdoba	AF-ID ("Universidad Nacional de Córdoba" 60000658)
Universidad Nacional de Ingeniería	AF-ID ("Universidad Nacional de Ingeniería Lima" 60071255)
Universidad Nacional de La Plata	AF-ID ("Universidad Nacional de La Plata" 60032057)
Universidad Nacional del Sur	AF-ID ("Universidad Nacional del Sur" 60013496)
Universidad Nacional Mayor de San Marcos	AF-ID ("Universidad Nacional Mayor de San Marcos" 60071231)
Universidad Peruana Cayetano Heredia	AF-ID ("Universidad Peruana Cayetano Heredia" 60071237)
Universidade de Brasília	AF-ID ("Universidade de Brasília" 60024989)
Universidade de São Paulo	AF-ID ("Universidade de Sao Paulo - USP" 60008088)
Universidade Estadual de Campinas	AF-ID ("Universidade Estadual de Campinas" 60029570)
Universidade Federal de Lavras	AF-ID ("Universidade Federal de Lavras" 60017841)
Universidade Federal de Minas Gerais	AF-ID ("Universidade Federal de Minas Gerais" 60030074)
Universidade Federal de Santa Catarina	AF-ID ("Universidade Federal de Santa Catarina" 60017609)
Universidade Federal de Santa Maria	AF-ID ("Universidade Federal de Santa Maria" 60033356)
Universidade Federal de Sao Carlos	AF-ID ("Universidade Federal de Sao Carlos" 60013792)
Universidade Federal de São Paulo	AF-ID ("Universidade Federal de Sao Paulo" 60014992)

Institution	Advanced search terms
Universidade Federal de Vicosa	AF-ID ("Universidade Federal de Vicosa" 60013918)
Universidade Federal do Paraná	AF-ID ("Universidade Federal do Paraná" 60015043)
Universidade Federal do Rio de Janeiro	AF-ID ("Universidade Federal do Rio de Janeiro" 60000036)
Universidade Federal do Rio Grande do Sul	AF-ID ("Universidade Federal do Rio Grande do Sul" 60006726)
Universidade Tecnológica Federal do Paraná	AF-ID ("Universidade Tecnológica Federal do Paraná" 60027294)
University of Concepción	AF-ID ("University of Concepcion" 60001282)
Australia: Group of Eight	AF-ID ("University of Melbourne" 60026553) OR AF-ID ("Australian National University" 60008950) OR AF-ID ("The University of Sydney" 60025709) OR AF-ID ("University of Queensland" 60031004) OR AF-ID ("University of Western Australia" 60031806) OR AF-ID ("The University of Adelaide" 60009512) OR AF-ID ("Monash University" 60019578) OR AF-ID ("University of New South Wales UNSW Australia" 60028333)
Australia: Australian Technology Network	AF-ID ("University of South Australia" 60031846) OR AF-ID ("RMIT University" 60011362) OR AF-ID ("University of Technology Sydney" 60023932) OR AF-ID ("Curtin University" 60031226)
Australia: Innovative Research Universities	AF-ID ("Charles Darwin University" 60004655) OR AF-ID ("Flinders University" 60020828) OR AF-ID ("Griffith University" 60032987) OR AF-ID ("James Cook University, Australia" 60019870) OR AF-ID ("La Trobe University" 60006925) OR AF-ID ("Murdoch University" 60019939) OR AF-ID ("Western Sydney University" 60017803)
Australia: Regional Universities Network	AF-ID ("Central Queensland University" 60031003) OR AF-ID ("Federation University Australia" 60010859) OR AF-ID ("University of New England Australia" 60017837) OR AF-ID ("University of Southern Queensland" 60020321) OR AF-ID ("University of the Sunshine Coast" 60032607) OR AF-ID ("Charles Sturt University" 60001248)

Three case studies are included in this report that focus on fields of research that do not neatly fit into one or more of the ANZSRC fields of research – Water Management, Mining, and Tropical Health.

Although Water Management does not fit neatly into one of the 22 ANZSRC fields of research, one of the ASJC subject terms, Water Science and Technology, covers this field quite well and was used to search for relevant publications in Scopus.

Because the research field of Mining does not neatly fit into one or more ANZSRC fields of research nor into one or more ASJC subject terms or subject areas, keywords were used to define the field of Mining in Scopus. An advanced search was conducted in Scopus that looked for all journal articles published between 2014 and 2018 by researchers affiliated with Latin America that included the keyword 'Mining'. The keywords 'Data Mining', 'Text Mining' and 'Opinion Mining' were excluded as they are associated with social sciences and computer sciences rather than with the type of Mining that was the focus of interest.

Tropical health also does not neatly fit into one of the ANZSRC fields of research, nor into one or more of the ASJC subject areas or subject terms, so a combination of keyword searching and subject areas were used to define this field in Scopus.

Table 40 includes the advanced search terms used to conduct the searches in Scopus for these three case studies.

Table 40: Advanced search terms used in Scopus for the case studies

Field of research	Advanced search terms
Water Management	(AFFILCOUNTRY(Argentina) OR AFFILCOUNTRY(Bolivia) OR AFFILCOUNTRY(Brazil) OR AFFILCOUNTRY(Chile) OR AFFILCOUNTRY(Colombia) OR AFFILCOUNTRY(Costa Rica) OR AFFILCOUNTRY(Cuba) OR AFFILCOUNTRY(Dominican Republic) OR AFFILCOUNTRY(Ecuador) OR AFFILCOUNTRY(EI Salvador) OR AFFILCOUNTRY(Guatemala) OR AFFILCOUNTRY(Honduras) OR AFFILCOUNTRY(Mexico) OR AFFILCOUNTRY(Nicaragua) OR AFFILCOUNTRY(Panama) OR AFFILCOUNTRY(Paraguay) OR AFFILCOUNTRY(Peru) OR AFFILCOUNTRY(Uruguay) OR AFFILCOUNTRY(Venezuela)) AND (PUBYEAR > 2013 AND PUBYEAR < 2019) AND (DOCTYPE(AR) AND SRCTYPE(J)) AND SUBJTERMS(2312)
Mining	(AFFILCOUNTRY(Argentina) OR AFFILCOUNTRY(Bolivia) OR AFFILCOUNTRY(Brazil) OR AFFILCOUNTRY(Chile) OR AFFILCOUNTRY(Colombia) OR AFFILCOUNTRY(Costa Rica) OR AFFILCOUNTRY(Cuba) OR AFFILCOUNTRY(Dominican Republic) OR AFFILCOUNTRY(Ecuador) OR AFFILCOUNTRY(EI Salvador) OR AFFILCOUNTRY(Guatemala) OR AFFILCOUNTRY(Honduras) OR AFFILCOUNTRY(Mexico) OR AFFILCOUNTRY(Nicaragua) OR AFFILCOUNTRY(Panama) OR AFFILCOUNTRY(Paraguay) OR AFFILCOUNTRY(Peru) OR AFFILCOUNTRY(Uruguay) OR AFFILCOUNTRY(Venezuela)) AND (PUBYEAR > 2013 AND PUBYEAR < 2019) AND (DOCTYPE(AR) AND SRCTYPE(J)) AND KEY("Mining") AND (EXCLUDE (EXACTKEYWORD, "Data Mining") AND EXCLUDE (EXACTKEYWORD, "Text Mining") AND EXCLUDE (EXACTKEYWORD, "Opinion Mining"))
Tropical Health	(AFFILCOUNTRY(Argentina) OR AFFILCOUNTRY(Bolivia) OR AFFILCOUNTRY(Brazil) OR AFFILCOUNTRY(Chile) OR AFFILCOUNTRY(Colombia) OR AFFILCOUNTRY(Costa Rica) OR AFFILCOUNTRY(Cuba) OR AFFILCOUNTRY(Dominican Republic) OR AFFILCOUNTRY(Ecuador) OR AFFILCOUNTRY(EI Salvador) OR AFFILCOUNTRY(Guatemala) OR AFFILCOUNTRY(Honduras) OR AFFILCOUNTRY(Mexico) OR AFFILCOUNTRY(Nicaragua) OR AFFILCOUNTRY(Panama) OR AFFILCOUNTRY(Paraguay) OR AFFILCOUNTRY(Peru) OR AFFILCOUNTRY(Uruguay) OR AFFILCOUNTRY(Venezuela)) AND (PUBYEAR > 2013 AND PUBYEAR < 2019) AND (DOCTYPE(AR) AND SRCTYPE(J)) AND KEY("Tropical") AND (SUBJAREA(BIOC) OR SUBJAREA(IMMU) OR SUBJAREA(MEDI) OR SUBJAREA(NEUR) OR SUBJAREA(INURS) OR SUBJAREA(PHAR) OR SUBJAREA(PSYC) OR SUBJAREA(DENT) OR SUBJAREA(HEAL))

Appendix C: List of Latin American institution names

Table 41 lists all the Latin American institutions named in the body of this report in both their original Spanish or Portuguese and an English translation. Note that some institutions do not have an official English translation and refer to themselves by their Spanish or Portuguese names in English documents, so their Spanish or Portuguese name is included in the English translation column of this table.

Table 41: List of all institutions mentioned in report and English translation

Institution name	English translation
Centro de Investigación y de Estudios Avanzados	Center for Research and Advanced Studies of the National Polytechnic Institute
Consejo Nacional de Investigaciones Científicas y Técnicas	National Scientific and Technical Research Council
Empresa Brasileira de Pesquisa Agropecuária - Embrapa	Brazilian Agricultural Research Corporation
Fundação Getúlio Vargas	Getulio Vargas Foundation
Fundação Oswaldo Cruz	Oswaldo Cruz Foundation
Instituto Nacional de Pesquisas Espaciais	National Institute for Space Research
Instituto Politécnico Nacional	National Polytechnic Institute of Mexico
Pontificia Universidad Católica de Chile	Pontifical Catholic University of Chile
Pontificia Universidad Católica de Valparaíso	Pontifical Catholic University of Valparaíso
Pontificia Universidad Católica del Perú	Pontifical Catholic University of Peru
Pontificia Universidad Javeriana	Pontifical Xavierian University
Pontificia Universidade Católica do Paraná	Pontifical Catholic University of Paraná
Pontificia Universidade Católica do Rio de Janeiro	Pontifical Catholic University of Rio de Janeiro
Pontificia Universidade Católica do Rio Grande do Sul	Pontifical Catholic University of Rio Grande do Sul
Tecnológico de Monterrey	Monterrey Institute of Technology and Higher Education
Universidad Austral	Austral University
Universidad Autónoma Metropolitana	Metropolitan Autonomous University
Universidad de Antioquia	University of Antioquia
Universidad de Buenos Aires	University of Buenos Aires
Universidad de Chile	University of Chile
Universidad de Concepción	University of Concepción
Universidad de Costa Rica	University of Costa Rica
Universidad de Guadalajara	University of Guadalajara
Universidad de La Frontera	University of La Frontera
Universidad de la Habana	University of Havana
Universidad de Los Andes, Chile	University of the Andes, Chile
Universidad de Los Andes, Colombia	University of Los Andes, Colombia
Universidad de Santiago de Chile	University of Santiago, Chile
Universidad de Talca	University of Talca
Universidad de Tarapacá de Arica	University of Tarapacá
Universidad de Valparaíso	University of Valparaíso
Universidad del Pacífico, Lima	Universidad del Pacífico, Lima
Universidad del Valle, Cali	The University of Valle
Universidad Diego Portales	Diego Portales University

Institution name	English translation
Universidad Externado de Colombia	Externado University of Colombia
Universidad Nacional Autónoma de México	National Autonomous University of Mexico
Universidad Nacional de Colombia	National University of Colombia
Universidad Nacional de Córdoba	National University of Córdoba
Universidad Nacional de General San Martín	National University of General San Martín
Universidad Nacional de Ingeniería	National University of Engineering
Universidad Nacional de La Plata	National University of La Plata
Universidad Nacional del Sur	National University of South
Universidad Nacional Mayor de San Marcos	National University of San Marcos
Universidad Peruana Cayetano Heredia	Cayetano Heredia University
Universidade de Brasília	University of Brasília
Universidade de São Paulo	University of São Paulo
Universidade do Estado do Rio de Janeiro	Rio de Janeiro State University
Universidade Estadual de Campinas	University of Campinas
Universidade Estadual de Londrina	Londrina State University
Universidade Estadual Paulista	São Paulo State University
Universidade Federal de Goiás	Federal University of Goiás
Universidade Federal de Lavras	Federal University of Lavras
Universidade Federal de Minas Gerais	Federal University of Minas Gerais
Universidade Federal de Santa Catarina	Federal University of Santa Catarina
Universidade Federal de Santa Maria	Federal University of Santa Maria
Universidade Federal de São Carlos	Federal University of São Carlos
Universidade Federal de São Paulo	Federal University of São Paulo
Universidade Federal de Viçosa	Federal University of Viçosa
Universidade Federal do ABC	Federal University of ABC
Universidade Federal do Ceará	Federal University of Ceará
Universidade Federal do Paraná	Federal University of Paraná
Universidade Federal do Rio de Janeiro	Federal University of Rio de Janeiro
Universidade Federal do Rio Grande do Sul	Federal University of Rio Grande do Sul
Universidade Federal Fluminense	Fluminense Federal University
Universidade Tecnológica Federal do Paraná	Federal University of Technology - Paraná
Universidade Federal da Bahia	Federal University of Bahia
Universidade Federal de Pernambuco	Federal University of Pernambuco

Appendix D: Detailed country-level findings

Table 42 details the number of peer-reviewed journal articles that have been published between 2014 and 2018 and indexed in the Scopus database for the institutions within each country in Latin America. The institutions that published the largest number of journal articles are reported here.

Note that in some of the smaller Latin American countries, many of the top publishing institutions were institutions from other countries. This is because in some smaller countries, many of the publications indexed by Scopus have been co-authored by a researcher or researchers from other countries.

Table 42: Top-publishing research institutions by country

Country	Institution	Publications
Argentina	Consejo Nacional de Investigaciones Científicas y Técnicas	25,944
	Universidad de Buenos Aires	12,497
	Universidad Nacional de La Plata	6,173
	Universidad Nacional de Córdoba	4,724
	Universidad Nacional del Sur	2,004
Bolivia	Universidad Mayor de San Andrés	387
	Universidad Mayor de San Simón	131
	Herbario Nacional de Bolivia	99
	Museo de Historia Natural Noel Kempff Mercado	61
	Universidad Católica Boliviana	57
Brazil	Universidade de São Paulo	55,741
	Universidade Estadual Paulista	22,549
	Universidade Federal do Rio de Janeiro	19,036
	Universidade Estadual de Campinas	18,349
	Universidade Federal do Rio Grande do Sul	15,838
Chile	Universidad de Chile	10,690
	Pontificia Universidad Católica de Chile	10,092
	Universidad de Concepción	4,880
	Universidad de Santiago de Chile	2,623
	Pontificia Universidad Católica de Valparaíso	2,509
Colombia	Universidad Nacional de Colombia	7,938
	Universidad de Antioquia	4,367
	Universidad de Los Andes, Colombia	3,209
	Universidad del Valle, Cali	2,064
	Pontificia Universidad Javeriana	1,995
Costa Rica	Universidad de Costa Rica	1,877
	Universidad Nacional de Costa Rica	563
	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	245
	Instituto Tecnológico de Costa Rica	231
	INCAE Business School, Costa Rica	84
Cuba	Universidad de La Habana	1,314
	Universidad de Ciencias Médicas de La Habana	481
	Universidad Central de Las Villas	447
	Instituto de Medicina Tropical Pedro Kouri	350
	Escuela Nacional de Salud Pública	282

Country	Institution	Publications
Dominican Republic	Pontificia Universidad Católica Madre y Maestra	59
	Instituto Tecnológico de Santo Domingo - INTEC	41
	Universidad Iberoamericana, Santo Domingo	30
	Universidad Autónoma de Santo	12
	Universidad Nacional Pedro Henriquez Urena	12
Ecuador	Universidad San Francisco de Quito	874
	Escuela Politécnica Nacional	592
	Universidad Tecnica Particular de Loja	553
	Pontificia Universidad Catolica del Ecuador	548
	Escuela Superior Politecnica del Litoral Ecuador	540
El Salvador	Universidad de El Salvador	72
	Hospital Nacional Rosales	13
	Universidad Dr. José Matías Delgado	12
Guatemala	Universidad del Valle de Guatemala	160
	Universidad de San Carlos de Guatemala	158
	Institute of Nutrition of Central America and Panama Guatemala	56
	Universidad Francisco Marroquin	53
Honduras	National Autonomous University of Honduras	128
	Escuela Agrícola Panamericana	51
	Hospital Escuela	41
Mexico	Universidad Nacional Autónoma de México	23,743
	Instituto Politécnico Nacional	8,319
	Centro de Investigación y de Estudios Avanzados	5,425
	Universidad de Guadalajara	3,246
	Tecnológico de Monterrey	2,754
Nicaragua	Universidad Nacional Autónoma de Nicaragua	43
Panama	Smithsonian Tropical Research Institute	1,359
	Universidad de Panamá	256
	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	142
Paraguay	Universidad Nacional de Asuncion	321
	Hospital de Clínicas	50
	Universidad Católica Nuestra Señora de la Asunción	38
	Instituto de Investigación Biológica del Paraguay	30
	Universidad Autónoma Del Paraguay	29
Peru	Universidad Peruana Cayetano Heredia	1,441
	Universidad Nacional Mayor de San Marcos	1,244
	Pontificia Universidad Católica del Perú	959
	Universidad Nacional de Ingeniería	316
	Universidad del Pacifico, Lima	149
Uruguay	Universidad de la República	3,976
	Universidad de la República Facultad de Química	644
	Universidad de la República Facultad de Medicina	421
	Instituto de Investigaciones Biologicas Clemente Estable	357
	Institut Pasteur de Montevideo	323

Country	Institution	Publications
Venezuela	Universidad Central de Venezuela	1,405
	Universidad De Los Andes, Mérida	990
	Universidad Del Zulia	890
	Instituto Venezolano de Investigaciones Cientificas	864
	Universidad Simón Bolívar	817

Table 43 reports the total number of peer-reviewed journal articles published in each of the 22 ANZSRC fields of research by country. This table also reports the top-publishing institutions associated with this country and field of research. Note that not all institutions included in this table are from Latin America.

Table 43: Top-publishing research institutions by country and ANZSRC field of research

Country	Field of research	Total publications	Top Institutions				
Argentina	Mathematical Sciences	2,484	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de Córdoba	Universidad Nacional de La Plata	Universidad Nacional del Sur
Argentina	Physical Sciences	7019	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Comision Nacional de Energia Atomica Argentina
Argentina	Chemical Sciences	5,927	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de Rosario
Argentina	Earth Sciences	4,308	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional del Sur
Argentina	Environmental Sciences	3,289	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Instituto Nacional de Tecnologia Agropecuaria Buenos Aires	Universidad Nacional de Córdoba	Universidad Nacional de La Plata
Argentina	Biological Sciences	15,241	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Instituto Nacional de Tecnologia Agropecuaria Buenos Aires
Argentina	Agricultural and Veterinary Sciences	6,498	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Instituto Nacional de Tecnologia Agropecuaria Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba
Argentina	Information and Computing Sciences	1,788	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional del Sur
Argentina	Engineering	9,521	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional del Litoral
Argentina	Technology	1,290	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de Rosario
Argentina	Medical and Health Sciences	15,080	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Instituto Universitario del Hospital Italiano de Buenos Aires	Universidad Nacional de Córdoba	Universidad Nacional de La Plata
Argentina	Built Environment and Design	428	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Tecnologica Nacional
Argentina	Education	641	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de Rosario
Argentina	Economics	603	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional del Sur	Universidad Torcuato Di Tella
Argentina	Commerce, Management, Tourism and Services	512	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Torcuato Di Tella	Universidad Nacional del Sur
Argentina	Studies in Human Society	3,299	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de San Martin
Argentina	Psychology and Cognitive Sciences	1,070	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de Córdoba	Universidad Favaloro	Universidad Nacional de Mar del Plata
Argentina	Law and Legal Studies	257	Universidad de Buenos Aires	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad Nacional de Córdoba	Universidad Nacional de Rosario	Universidad Nacional del Litoral
Argentina	Studies in Creative Arts and Writing	165	Universidad de Buenos Aires	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad Nacional de San Martin	Universidad Nacional de La Plata	Universidad Nacional de Córdoba
Argentina	Language, Communication and Culture	1,531	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de San Martin
Argentina	History and Archaeology	1,292	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata
Argentina	Philosophy and Religious Studies	857	Consejo Nacional de Investigaciones Científicas y Técnicas	Universidad de Buenos Aires	Universidad Nacional de La Plata	Universidad Nacional de Córdoba	Universidad Nacional de Cuyo
Bolivia	Mathematical Sciences	25	Universidad Mayor de San Andrés	Instituto Nacional de Estadística (Spain)	Universitat Politècnica de València (Spain)	Universidad Autónoma Metropolitana - Iztapalapa (Mexico)	Universidad Mayor de San Simón
Bolivia	Physical Sciences	45	Universidad Mayor de San Andrés	CNRS Centre National de la Recherche Scientifique (France)	Universite Paul Sabatier Toulouse III (France)	Universidad de Buenos Aires (Argentina)	Wageningen University and Research Centre (Netherlands)
Bolivia	Chemical Sciences	78	Universidad Mayor de San Andrés	Lunds Universitet (Sweden)	CNRS Centre National de la Recherche Scientifique (France)	Universite Paul Sabatier Toulouse III (France)	Universite Grenoble Alpes (France)
Bolivia	Earth Sciences	172	Universidad Mayor de San Andrés	CNRS Centre National de la Recherche Scientifique (France)	IRD Institut de Recherche pour le Developpement (France)	Universite Grenoble Alpes (France)	Universite Paul Sabatier Toulouse III (France)
Bolivia	Environmental Sciences	192	Universidad Mayor de San Andrés	CNRS Centre National de la Recherche Scientifique (France)	Herbario Nacional de Bolivia	Museo de Historia Natural Noel Kempff Mercado	Wageningen University and Research Centre (Netherlands)
Bolivia	Biological Sciences	466	Universidad Mayor de San Andrés	Herbario Nacional de Bolivia	Universidad Mayor de San Simón	Wageningen University and Research Centre (Netherlands)	CNRS Centre National de la Recherche Scientifique (France)
Bolivia	Agricultural and Veterinary Sciences	226	Universidad Mayor de San Andrés	Universidad Mayor de San Simón	Herbario Nacional de Bolivia	CNRS Centre National de la Recherche Scientifique (France)	Wageningen University and Research Centre (Netherlands)
Bolivia	Information and Computing Sciences	21	Universidad Mayor de San Andrés	Universidad Técnica de Oruro	Universidad Privada Boliviana	Universidad Nacional de Chimborazo (Ecuador)	Instituto Nacional de Estadística (Spain)

Country	Field of research	Total publications	Top Institutions				
Bolivia	Engineering	143	Universidad Mayor de San Andrés	The Royal Institute of Technology KTH (Sweden)	Universidad Mayor de San Simón	Lunds Universitet (Sweden)	CNRS Centre National de la Recherche Scientifique (France)
Bolivia	Technology	20	Lunds Universitet (Sweden)	Universidad Mayor de San Andrés	Universidad Mayor de San Simón	Universidad Mayor de San Simón	The Royal Institute of Technology KTH (Sweden)
Bolivia	Medical and Health Sciences	405	Universidad Mayor de San Andrés	Universidad Mayor de San Simón	Universidad Peruana Cayetano Heredia (Peru)	Universidade de São Paulo (Brazil)	University of California, San Francisco (United States)
Bolivia	Built Environment and Design	5	Linköpings Universitet (Sweden)	Universidad Mayor de San Andrés	Universidad Mayor de San Simón	Universidad Mayor de San Simón	Government College (India)
Bolivia	Education	15	Universidad Católica Boliviana	Universidad Mayor de San Andrés	Universitat Autònoma de Barcelona (Spain)	Centro de Estudios en Biología Teórica y Aplicada BIOTA	Universidad Privada de Santa Cruz de la Sierra
Bolivia	Economics	26	Bayesian Institute for Research on Development	Institute for Advanced Development Studies	Country Department Andean Group	Universidad del Desarrollo (Chile)	University of Sussex (United Kingdom)
Bolivia	Commerce, Management, Tourism and Services	20	Universidad Técnica de Oruro	Universidad Católica Boliviana	Universidad Nacional de Chimborazo (Ecuador)	Weber State University (United States)	Tokyo Institute of Technology (Japan)
Bolivia	Studies in Human Society	133	Universidad Mayor de San Andrés	Universidad Mayor de San Simón	Universiteit Gent (Belgium)	Herbario Nacional de Bolivia	Universidad Católica Boliviana
Bolivia	Psychology and Cognitive Sciences	25	Universidad Católica Boliviana	Vrije Universiteit Brussel (Belgium)	University of Wroclaw (Poland)	Technische Universität Dresden (Germany)	CBIDSI-Centro Boliviano de Investigación y de Desarrollo Socio Integral
Bolivia	Law and Legal Studies	6	Universidad Mayor (Chile)	Universidad UDABOL	Universidad Franz Tamayo	Universidad Franz Tamayo	Universidad Franz Tamayo
Bolivia	Studies in Creative Arts and Writing	4	Universidad Mayor de San Simón	Universidad Nuestra Señora de La Paz	Universidad de los Andes, Santiago (Colombia)	Universidad Mayor de San Andrés	Universidad Mayor de San Simón
Bolivia	Language, Communication and Culture	32	Universidad Mayor de San Andrés	Herbario Nacional de Bolivia	Missouri Botanical Garden (United States)	Museo Nacional de Ciencias Naturales (Spain)	Instituto Linguístico Chácobo
Bolivia	History and Archaeology	27	Universidad Mayor de San Andrés	Universidad de Tarapacá de Arica (Chile)	Herbario Nacional de Bolivia	Pennsylvania State University (United States)	University of Missouri Research Reactor (United States)
Bolivia	Philosophy and Religious Studies	2	Academia Boliviana de Medicina	Instituto Boliviano de Medicina Tradicional Kallawayá	Commission on World Mission and Evangelism CWME (United States)		
Brazil	Mathematical Sciences	12,158	Universidade de São Paulo	Universidade Estadual de Campinas	Universidade Federal do Rio de Janeiro	Universidade Estadual Paulista	Universidade Federal de Minas Gerais
Brazil	Physical Sciences	28,224	Universidade de São Paulo	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro	Universidade Estadual de Campinas	CNRS Centre National de la Recherche Scientifique (France)
Brazil	Chemical Sciences	26,346	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Estadual de Campinas	Universidade Estadual Paulista	Universidade Federal do Rio Grande do Sul
Brazil	Earth Sciences	11,456	Universidade de São Paulo	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro	Universidade Federal do Rio Grande do Sul	Instituto Nacional de Pesquisas Espaciais
Brazil	Environmental Sciences	16,650	Universidade de São Paulo	Universidade Estadual Paulista	Empresa Brasileira de Pesquisa Agropecuária - Embrapa	Universidade Federal do Rio de Janeiro	Universidade Federal do Rio Grande do Sul
Brazil	Biological Sciences	63,499	Universidade de São Paulo	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro	Universidade Federal do Rio Grande do Sul	Empresa Brasileira de Pesquisa Agropecuária - Embrapa
Brazil	Agricultural and Veterinary Sciences	46,241	Universidade de São Paulo	Universidade Estadual Paulista	Empresa Brasileira de Pesquisa Agropecuária - Embrapa	Universidade Federal de Vicosa	Universidade Federal do Paraná
Brazil	Information and Computing Sciences	14,530	Universidade de São Paulo	Universidade Estadual de Campinas	Universidade Federal de Santa Catarina	Universidade Federal do Rio de Janeiro	Universidade Estadual Paulista
Brazil	Engineering	53,705	Universidade de São Paulo	Universidade Estadual de Campinas	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro	Universidade Federal do Rio Grande do Sul
Brazil	Technology	6,375	Universidade de São Paulo	Universidade Estadual de Campinas	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro	Universidade Federal do Rio Grande do Sul
Brazil	Medical and Health Sciences	99720	Universidade de São Paulo	Universidade Federal de São Paulo	Universidade Estadual Paulista	Universidade Estadual de Campinas	Universidade Federal do Rio de Janeiro
Brazil	Built Environment and Design	1,924	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Federal de Santa Catarina	Universidade Federal do Rio Grande do Sul	Universidade Estadual de Campinas
Brazil	Education	5,625	Universidade de São Paulo	Universidade Federal do Rio Grande do Sul	Universidade Estadual Paulista	Universidade Estadual de Campinas	Universidade Federal do Rio de Janeiro
Brazil	Economics	2,942	Universidade de São Paulo	Fundação Getúlio Vargas	Universidade Federal do Rio de Janeiro	Universidade de Brasília	Universidade Federal do Rio Grande do Sul
Brazil	Commerce, Management, Tourism and Services	7184	Universidade de São Paulo	Universidade Federal do Rio Grande do Sul	Universidade Federal de Santa Catarina	Fundação Getúlio Vargas	Universidade Federal do Rio de Janeiro
Brazil	Studies in Human Society	14,923	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Federal de Minas Gerais	Universidade Estadual de Campinas	Universidade Federal do Rio Grande do Sul
Brazil	Psychology and Cognitive Sciences	6,475	Universidade de São Paulo	Universidade Federal do Rio Grande do Sul	Universidade Federal de Minas Gerais	Universidade Federal do Rio de Janeiro	Universidade de Brasília
Brazil	Law and Legal Studies	796	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade de Brasília	Fundação Getúlio Vargas	Universidade Federal Fluminense
Brazil	Studies in Creative Arts and Writing	458	Universidade de São Paulo	Universidade Federal de Minas Gerais	Universidade Estadual de Campinas	Universidade Estadual Paulista	Universidade Federal do Rio de Janeiro
Brazil	Language, Communication and Culture	5,372	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Estadual Paulista	Universidade Estadual de Campinas	Universidade Federal de Minas Gerais
Brazil	History and Archaeology	1,738	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Federal Fluminense	Universidade Federal de Minas Gerais	Universidade Estadual Paulista
Brazil	Philosophy and Religious Studies	1,508	Universidade de São Paulo	Universidade Federal do Rio de Janeiro	Universidade Estadual de Campinas	Universidade Federal de Minas Gerais	Pontifícia Universidade Católica de São Paulo

Country	Field of research	Total publications	Top Institutions				
Chile	Mathematical Sciences	3,174	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad Técnica Federico Santa María	University of Concepcion	Universidad de Santiago de Chile
Chile	Physical Sciences	9,055	Pontificia Universidad Católica de Chile	CNRS Centre National de la Recherche Scientifique (France)	Universidad de Chile	European Southern Observatory Santiago	Universidad Técnica Federico Santa María
Chile	Chemical Sciences	3,668	Universidad de Chile	Pontificia Universidad Católica de Chile	University of Concepcion	Universidad de Santiago de Chile	Andres Bello National University
Chile	Earth Sciences	2,875	Universidad de Chile	University of Concepcion	Pontificia Universidad Católica de Chile	Universidad Católica del Norte	Universidad Austral de Chile
Chile	Environmental Sciences	2,184	Universidad de Chile	University of Concepcion	Pontificia Universidad Católica de Chile	Universidad Austral de Chile	Universidad de la Frontera
Chile	Biological Sciences	8,009	Universidad de Chile	Pontificia Universidad Católica de Chile	University of Concepcion	Universidad Austral de Chile	Andres Bello National University
Chile	Agricultural and Veterinary Sciences	5,401	University of Concepcion	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad Austral de Chile	Pontificia Universidad Católica de Valparaíso
Chile	Information and Computing Sciences	2,665	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad Técnica Federico Santa María	University of Concepcion	Pontificia Universidad Católica de Valparaíso
Chile	Engineering	7,903	Universidad de Chile	Pontificia Universidad Católica de Chile	University of Concepcion	Universidad Técnica Federico Santa María	Universidad de Santiago de Chile
Chile	Technology	840	Universidad de Chile	Pontificia Universidad Católica de Chile	Pontificia Universidad Católica de Valparaíso	University of Concepcion	Universidad de Santiago de Chile
Chile	Medical and Health Sciences	12,887	Universidad de Chile	Pontificia Universidad Católica de Chile	Facultad de Medicina de la Universidad de Chile	Universidad de la Frontera	Universidad Autónoma de Chile
Chile	Built Environment and Design	862	Pontificia Universidad Católica de Chile	Universidad de Chile	Universidad del Bío-Bío	Pontificia Universidad Católica de Valparaíso	Universidad Austral de Chile
Chile	Education	1,487	Pontificia Universidad Católica de Chile	Universidad de Chile	Pontificia Universidad Católica de Valparaíso	University of Concepcion	Universidad Diego Portales
Chile	Economics	953	Pontificia Universidad Católica de Chile	Universidad de Chile	Universidad Adolfo Ibáñez	Banco Central de Chile	Universidad Diego Portales
Chile	Commerce, Management, Tourism and Services	1,346	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad Adolfo Ibáñez	Universidad Diego Portales	Universidad de Talca
Chile	Studies in Human Society	3,694	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad Diego Portales	Universidad de Santiago de Chile	University of Concepcion
Chile	Psychology and Cognitive Sciences	1,622	Pontificia Universidad Católica de Chile	Universidad de Chile	Universidad Diego Portales	Universidad de Santiago de Chile	Universidad Autónoma de Chile
Chile	Law and Legal Studies	784	Pontificia Universidad Católica de Chile	Universidad de Chile	Pontificia Universidad Católica de Valparaíso	Universidad de Talca	Universidad Diego Portales
Chile	Studies in Creative Arts and Writing	384	Pontificia Universidad Católica de Chile	Universidad de Chile	Universidad Diego Portales	Universidad Austral de Chile	Andres Bello National University
Chile	Language, Communication and Culture	2,301	Universidad de Chile	Pontificia Universidad Católica de Chile	Pontificia Universidad Católica de Valparaíso	Universidad de Santiago de Chile	University of Concepcion
Chile	History and Archaeology	1,110	Universidad de Chile	Pontificia Universidad Católica de Chile	Universidad de Tarapacá de Arica	Universidad Católica del Norte	Universidad de Santiago de Chile
Chile	Philosophy and Religious Studies	751	Pontificia Universidad Católica de Chile	Universidad de Chile	Pontificia Universidad Católica de Valparaíso	Universidad Diego Portales	Universidad de Santiago de Chile
Colombia	Mathematical Sciences	1,751	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad de Antioquia	Universidad del Valle, Cali	Pontificia Universidad Javeriana
Colombia	Physical Sciences	4,008	IN2P3 Institut National de Physique Nucleaire et de Physique des Particules (France)	Lomonosov Moscow State University (Russian Federation)	Petersburg Nuclear Physics Institute PNPI (Russian Federation)	Institut fiziki vysokikh energii (Russian Federation)	Alikhanov Institute for Theoretical and Experimental Physics (Russian Federation)
Colombia	Chemical Sciences	2,614	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad del Valle, Cali	Universidad de Los Andes	Universidad Industrial de Santander
Colombia	Earth Sciences	1,202	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad de Antioquia	Universidad del Valle, Cali	Ecopetrol
Colombia	Environmental Sciences	1,698	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Centro Internacional de Agricultura Tropical	Universidad del Valle, Cali
Colombia	Biological Sciences	5,903	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Pontificia Universidad Javeriana	Universidad del Valle, Cali
Colombia	Agricultural and Veterinary Sciences	3,624	Universidad Nacional de Colombia	Universidad de Antioquia	Centro Internacional de Agricultura Tropical	Universidad del Valle, Cali	Universidad de Los Andes
Colombia	Information and Computing Sciences	2,903	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Universidad de la Costa	Universidad Pontificia Bolivariana (Bolivia)
Colombia	Engineering	8,756	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Universidad del Valle, Cali	Universidad Industrial de Santander
Colombia	Technology	832	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Universidad del Valle, Cali	Pontificia Universidad Javeriana
Colombia	Medical and Health Sciences	11,372	Universidad de Antioquia	Universidad Nacional de Colombia	Pontificia Universidad Javeriana	Universidad del Rosario	Universidad del Valle, Cali
Colombia	Built Environment and Design	524	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad del Valle, Cali	Pontificia Universidad Javeriana	Universidad de Antioquia
Colombia	Education	940	Universidad Nacional de Colombia	Universidad de Antioquia	Universidad de Los Andes	Universidad de La Sabana	Universidad Distrital Francisco Jose de Caldas
Colombia	Economics	962	Universidad de Los Andes	Universidad Nacional de Colombia	Banco de la República Colombia	Universidad EAFIT	Universidad del Rosario
Colombia	Commerce, Management, Tourism and Services	2,243	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad de la Costa	Universidad EAFIT	Universidad de Medellín
Colombia	Studies in Human Society	2,877	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad de Antioquia	Universidad del Rosario	Pontificia Universidad Javeriana
Colombia	Psychology and Cognitive Sciences	1,004	Fundación Universitaria Konrad Lorenz	Pontificia Universidad Javeriana	Universidad de Los Andes	Universidad Nacional de Colombia	Universidad de Antioquia
Colombia	Law and Legal Studies	497	Universidad de Los Andes	Universidad Externado de Colombia	Universidad del Rosario	Universidad Nacional de Colombia	Pontificia Universidad Javeriana
Colombia	Studies in Creative Arts and Writing	169	Universidad Nacional de Colombia	Pontificia Universidad Javeriana	Universidad EAFIT	Universidad de Caldas	Universidad de Antioquia

Country	Field of research	Total publications	Top Institutions				
Colombia	Language, Communication and Culture	1,186	Universidad de Los Andes	Universidad de Antioquia	Universidad Nacional de Colombia	Pontificia Universidad Javeriana	Universidad de La Sabana
Colombia	History and Archaeology	700	Universidad Nacional de Colombia	Universidad de Los Andes	Universidad de Caldas	Universidad de Antioquia	Universidad del Valle, Cali
Colombia	Philosophy and Religious Studies	448	Universidad Nacional de Colombia	Pontificia Universidad Javeriana	Universidad de Los Andes	Universidad de Antioquia	Universidad Católica de Colombia
Costa Rica	Mathematical Sciences	81	Universidad de Costa Rica	Universidad Nacional de Costa Rica	University of Concepcion (Chile)	Instituto Tecnológico de Costa Rica	University of Oxford (United Kingdom)
Costa Rica	Physical Sciences	231	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Instituto Tecnológico de Costa Rica	Consejo Superior de Investigaciones Científicas (Spain)	Stanford University (United States)
Costa Rica	Chemical Sciences	214	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Instituto Tecnológico de Costa Rica	Universidad de Santiago de Compostela (Chile)	Instituto Nacional de Biodiversidad Costa Rica
Costa Rica	Earth Sciences	298	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	University of Aberdeen (United States)	CIRAD Centre de Recherche de Montpellier (France)
Costa Rica	Environmental Sciences	388	Universidad de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Universidad Nacional de Costa Rica	Instituto Tecnológico de Costa Rica	CIRAD Centre de Recherche de Montpellier (France)
Costa Rica	Biological Sciences	1,289	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Universidad Nacional Autónoma de México (Mexico)	CIRAD Centre de Recherche de Montpellier (France)
Costa Rica	Agricultural and Veterinary Sciences	793	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Instituto Tecnológico de Costa Rica	CIRAD Centre de Recherche de Montpellier (France)
Costa Rica	Information and Computing Sciences	109	Universidad de Costa Rica	Instituto Tecnológico de Costa Rica	INCAE Business School, Costa Rica	Universidad Nacional de Costa Rica	University of Concepcion (Chile)
Costa Rica	Engineering	435	Universidad de Costa Rica	Instituto Tecnológico de Costa Rica	Universidad Nacional de Costa Rica	CIRAD Centre de Recherche de Montpellier (France)	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza
Costa Rica	Technology	56	Universidad de Costa Rica	Instituto Tecnológico de Costa Rica	Universidad Nacional de Costa Rica	Proiser R+D (Spain)	University of Valencia (Spain)
Costa Rica	Medical and Health Sciences	1,059	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Universidade de São Paulo (Brazil)	Caja Costarricense de Seguro Social	Hospital Nacional de Niños Dr. Carlos Sáenz Herrera
Costa Rica	Built Environment and Design	30	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Pennsylvania State University (United States)	National Chiao Tung University Taiwan (Chinese Taipei)	Instituto Tecnológico de Costa Rica
Costa Rica	Education	115	Universidad Nacional de Costa Rica	Universidad de Costa Rica	Instituto Tecnológico de Costa Rica	Universidad Estatal a Distancia	Universidad de Granada (Spain)
Costa Rica	Economics	50	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	INCAE Business School, Costa Rica	Universidad de Costa Rica	Göteborgs Universitet (Sweden)	Duke University (United States)
Costa Rica	Commerce, Management, Tourism and Services	110	INCAE Business School, Costa Rica	Universidad de Costa Rica	King's College London (United Kingdom)	Instituto Tecnológico de Costa Rica	University of London (United Kingdom)
Costa Rica	Studies in Human Society	197	Universidad de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Universidad Nacional de Costa Rica	INCAE Business School, Costa Rica	University for Peace (Germany)
Costa Rica	Psychology and Cognitive Sciences	75	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Universite de Neuchatel (Switzerland)	CNRS Centre National de la Recherche Scientifique (France)	Freie Universität Berlin (Germany)
Costa Rica	Law and Legal Studies	17	Universidad de Costa Rica	Universidad Nacional de Costa Rica	Iran-United States Claims Tribunal (Netherlands)	Fundación PROMAR (Panama)	M.E.E.R. e.V. (Germany)
Costa Rica	Studies in Creative Arts and Writing	9	Universidad de Costa Rica	Universidad Nacional de Costa Rica	PUCV (Chile)	Universidade do Porto (Portugal)	Universidad de Extremadura (Spain)
Costa Rica	Language, Communication and Culture	67	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	University for Peace (Germany)	CNRS Centre National de la Recherche Scientifique (France)
Costa Rica	History and Archaeology	23	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Museo Nacional de Costa Rica	College of Lake County (United States)
Costa Rica	Philosophy and Religious Studies	23	Universidad de Costa Rica	Universidad Nacional de Costa Rica	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza	Museo Nacional de Costa Rica	College of Lake County (United States)
Cuba	Mathematical Sciences	280	Universidad de La Habana	Universidad Central de Las Villas	University of Holguin	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad de Oriente (Venezuela)
Cuba	Physical Sciences	795	Universidad de La Habana	Universidad Nacional Autónoma de México (Mexico)	Universidade de São Paulo (Brazil)	Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear	Centro de Investigación y de Estudios Avanzados (Mexico)
Cuba	Chemical Sciences	540	Universidad de La Habana	Instituto Superior de Tecnologías y Ciencias Aplicadas InSTEC	Universidad Central de Las Villas	Universidad Nacional Autónoma de México (Mexico)	Instituto Politécnico Nacional (Mexico)
Cuba	Earth Sciences	234	Universidad de La Habana	Universidad Nacional Autónoma de México (Mexico)	Instituto de Meteorología de la Republica de Cuba	Universidad de Guadalajara (Mexico)	Universidad de Granada (Spain)
Cuba	Environmental Sciences	232	Universidad de La Habana	Universidad Nacional Autónoma de México (Mexico)	Universidad Central de Las Villas	Instituto Superior de Tecnologías y Ciencias Aplicadas InSTEC	Centro de Estudios Ambientales de Cienfuegos
Cuba	Biological Sciences	1,211	Universidad de La Habana	Instituto de Ciencia Animal	Instituto de Medicina Tropical Pedro Kouri	Instituto de Investigaciones Fundamentales en Agricultura Tropical Alejandro de Humboldt	Universidad Central de Las Villas
Cuba	Agricultural and Veterinary Sciences	784	Universidad de La Habana	Universidad Central de Las Villas	Universidad de Camagüey	Center for Genetic Engineering and Biotechnology Havana	Universidad de Granma
Cuba	Information and Computing Sciences	583	Universidad de La Habana	Universidad Central de Las Villas	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad de Granada (Spain)	Universidad de las Ciencias Informáticas, Cuba
Cuba	Engineering	1,219	Universidad de La Habana	Universidad Central de Las Villas	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad Nacional Autónoma de México (Mexico)	Universidad de Oriente (Venezuela)

Country	Field of research	Total publications	Top Institutions				
Cuba	Technology	179	Center for Genetic Engineering and Biotechnology Havana	Universidad de La Habana	Universidad Central de Las Villas	Center of Molecular Immunology Havana	Instituto de Medicina Tropical Pedro Kouri
Cuba	Medical and Health Sciences	4,031	Universidad de Ciencias Médicas de La Habana	Instituto de Medicina Tropical Pedro Kouri	Universidad de La Habana	Escuela Nacional de Salud Publica	Hospital Clinico Quirurgico Hermanos Ameijeiras
Cuba	Built Environment and Design	60	Universidad Central de Las Villas	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad de Ciego de Ávila	Universidade de Brasília (Brazil)	Universitat Politècnica de Catalunya (Spain)
Cuba	Education	332	Escuela Nacional de Salud Publica	Universidad de Ciencias Médicas de La Habana	Universidad de La Habana	Universidad de Ciencias Médicas de Villa Clara	Universidad Central de Las Villas
Cuba	Economics	19	Universidad de La Habana	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad Central de Las Villas	University of Cienfuegos	KU Leuven (Belgium)
Cuba	Commerce, Management, Tourism and Services	91	Universidad de La Habana	Universidad Tecnológica de la Habana José Antonio Echeverría	Universidad Central de Las Villas	University of Holguin	Universidad Católica de Santiago de Guayaquil
Cuba	Studies in Human Society	590	Universidad de Ciencias Médicas de La Habana	Universidad de La Habana	Centro Nacional de Información de Ciencias Médicas	Instituto de Ciencias Básicas y Preclínicas Victoria de Girón	Universidad de Granada (Spain)
Cuba	Psychology and Cognitive Sciences	71	Universidad de La Habana	Centro Internacional de Restauración Neurológica	Universidad Central de Las Villas	Universidad Nacional Autónoma de México (Mexico)	Cuban Neuroscience Center
Cuba	Law and Legal Studies	34	Universidad de La Habana	Universidad de Pinar del Rio	Universidad de Oriente (Venezuela)	Universidad de Granma	Universidad Complutense de Madrid (Spain)
Cuba	Studies in Creative Arts and Writing	23	Instituto de Ciencia Animal	Instituto de Investigaciones Agropecuarias Jorge Dimitrov (Chile)	Instituto de Investigaciones Agropecuarias "Jorge Dimitrov" (Chile)	CSIC (Spain)	Universidad de Guadalajara (Mexico)
Cuba	Language, Communication and Culture	95	Universidad de La Habana	Instituto de Ciencia Animal	Universidad de Oriente (Venezuela)	Universidad Central de Las Villas	Instituto de Investigaciones Agropecuarias Jorge Dimitrov (Chile)
Cuba	History and Archaeology	30	Universidad de La Habana	University of Toronto (Canada)	Universidad de Granada (Spain)	CSIC (Spain)	Bishop's Université (Canada)
Cuba	Philosophy and Religious Studies	17	Universidad de La Habana	Instituto Farmacia y Alimentos, Universidad de La Habana	Centro de Investigación y Desarrollo de Medicamentos	Universidad Técnica de Ambato (Ecuador)	Centro para el Control Estatal de Medicamentos
Dominican Republic	Mathematical Sciences	24	Universitat Politècnica de València (Spain)	Instituto Tecnológico de Santo Domingo - INTEC	Universidad Iberoamericana, Santo Domingo	Universidad Autónoma de Santo Domingo	Instituto Superior de Formación Docente Salomé Ureña - ISFODOSU
Dominican Republic	Physical Sciences	7	Pontificia Universidad Católica Madre y Maestra	Hospital Mexico (Mexico)	Universidad Nacional Autónoma de Nicaragua (Nicaragua)	Ciudad Universitaria (Mexico)	Central Laguna Verde (Mexico)
Dominican Republic	Chemical Sciences	15	Ciudad Universitaria (Mexico)	Instituto Tecnológico de Santo Domingo - INTEC	Universidad de la Laguna (Spain)	Universidad de Las Palmas de Gran Canaria (Spain)	Universitat Politècnica de València (Spain)
Dominican Republic	Earth Sciences	35	Universitat de Barcelona (Spain)	George Washington University (United States)	Universidad de Granada (Spain)	Recursos del Caribe, S.A. (United States)	Servicio Geológico Nacional (Argentina)
Dominican Republic	Environmental Sciences	29	Instituto Tecnológico de Santo Domingo - INTEC	University of Valencia (Spain)	University of Exeter (United Kingdom)	Grupo Jaragua	Universidad Tecnológica de Santiago UTESA (Chile)
Dominican Republic	Biological Sciences	124	Florida International University (United States)	University of Puerto Rico (Puerto Rico)	Jardín Botánico Nacional Dr. Rafael Ma. Moscoso	Consejo Superior de Investigaciones Científicas (Spain)	United States Department of Agriculture (United States)
Dominican Republic	Agricultural and Veterinary Sciences	62	University of Puerto Rico (Puerto Rico)	ISA University (Portugal)	Universidad Agroforestal Fernando Arturo de Meriño	Consejo Superior de Investigaciones Científicas (Spain)	Universidad Nacional Autónoma de México (Mexico)
Dominican Republic	Information and Computing Sciences	18	Instituto Tecnológico de Santo Domingo - INTEC	Universidad de Cordoba (Spain)	Universidad Abierta para Adultos	Universitat Politècnica de València (Spain)	Agência Nacional de Vigilância Sanitária (Brazil)
Dominican Republic	Engineering	31	Pontificia Universidad Católica Madre y Maestra	Universidad ISA	Instituto Tecnológico de Santo Domingo - INTEC	Universidad de Murcia (Spain)	TCK S.A.
Dominican Republic	Technology	5	Graduate School of Bioresource and Bioenvironmental Science (Japan)	Fedearroz-National Federation Rice (Colombia)	Kyushu University (Japan)	Universidad Autónoma de Santo Domingo	National University
Dominican Republic	Medical and Health Sciences	326	Pontificia Universidad Católica Madre y Maestra	Columbia University in the City of New York (United States)	Universidad Iberoamericana, Santo Domingo	The University of North Carolina at Chapel Hill (United States)	Columbia University Medical Center (United States)
Dominican Republic	Built Environment and Design	2	L.L.C. (United States)	State University	Rice University (United States)	Virginia Polytechnic Institute and State University (United States)	Pontificia Universidad Católica Madre y Maestra
Dominican Republic	Education	20	Pontificia Universidad Católica Madre y Maestra	University of Seville (Spain)	Instituto Tecnológico de Santo Domingo - INTEC	Universidad de la Tercera Edad	El Colegio de la Frontera Norte (Mexico)
Dominican Republic	Economics	13	Florida State University (United States)	University of Miami (United States)	Instituto de Estudios Superiores de Administración (Venezuela)	Central Bank of the Dominican Rep.	Patrick Henry College (United States)
Dominican Republic	Commerce, Management, Tourism and Services	19	Universidad de Cordoba (Spain)	Universidad Tecnológica de Santiago UTESA (Chile)	Universidad Tecnológica de Santiago (Chile)	University of Valencia (Spain)	University of Seville (Spain)
Dominican Republic	Studies in Human Society	66	Universitat de Barcelona (Spain)	COMPLEJIDAD (Mexico)	The University of North Carolina at Chapel Hill (United States)	George Washington University (United States)	Recursos del Caribe, S.A. (United States)
Dominican Republic	Psychology and Cognitive Sciences	39	The University of North Carolina at Chapel Hill (United States)	Johns Hopkins Bloomberg School of Public Health (United States)	Pontificia Universidad Católica Madre y Maestra	University of Valencia (Spain)	Universidad Complutense de Madrid (Spain)
Dominican Republic	Law and Legal Studies	2	Community Health Extension Program (United States)	Harvard Medical School (United States)	Libera Università Internazionale degli Studi Sociali Guido Carli (Italy)	Erasmus University Rotterdam (Netherlands)	Pontificia Universidad Católica Madre y Maestra
Dominican Republic	Studies in Creative Arts and Writing	3	Consejo Superior de Investigaciones Científicas Centro de Ciencias Humanas y Sociales (Spain)	Instituto de Estudios Caribeños INEC	Pontificia Universidad Católica Madre y Maestra		
Dominican Republic	Language, Communication and Culture	14	The University of North Carolina at Chapel Hill (United States)	Pontificia Universidad Católica Madre y Maestra	Univ. Auton. (Mexico)	Universidad Autónoma de Santo Domingo	Ross University Medical School (Commonwealth of Dominica)

Country	Field of research	Total publications	Top Institutions				
Dominican Republic	History and Archaeology	6	Museo del Hombre Dominicano	Leiden University (Netherlands)	Instituto Tecnológico de Santo Domingo - INTEC	Universidad de la Tercera Edad	Universidad Autónoma de Yucatán (Mexico)
Dominican Republic	Philosophy and Religious Studies	10	COMPLEJIDAD (Mexico)	Clínica de Familia (United States)	Clínica Esperanza y Caridad	Society of Anglican Missionaries and Senders (United States)	Instituto Dermatológico y Cirugía de Piel
Ecuador	Mathematical Sciences	253	Escuela Politécnica Nacional	Escuela Superior Politecnica del Litoral Ecuador	Yachay Tech	Universidad Tecnica Particular de Loja	Universidad de las Fuerzas Armadas ESPE
Ecuador	Physical Sciences	784	Universidad San Francisco de Quito	Centro de Investigación y de Estudios Avanzados (Mexico)	Universidad de Los Andes (Colombia)	University of Rochester (United States)	IN2P3 Institut National de Physique Nucleaire et de Physique des Particules (France)
Ecuador	Chemical Sciences	558	Escuela Politécnica Nacional	Universidad Tecnica Particular de Loja	Yachay Tech	Escuela Superior Politecnica del Litoral Ecuador	Universidad de las Fuerzas Armadas ESPE
Ecuador	Earth Sciences	617	Escuela Politécnica Nacional	Escuela Superior Politecnica del Litoral Ecuador	University of Cuenca	Universidad de las Fuerzas Armadas ESPE	CNRS Centre National de la Recherche Scientifique (France)
Ecuador	Environmental Sciences	675	Universidad Tecnica Particular de Loja	Escuela Superior Politecnica del Litoral Ecuador	Universidad San Francisco de Quito	Escuela Politécnica Nacional	Universidad de las Fuerzas Armadas ESPE
Ecuador	Biological Sciences	2,077	Pontificia Universidad Catolica del Ecuador	Universidad Tecnica Particular de Loja	Universidad San Francisco de Quito	Universidad Central del Ecuador	Escuela Superior Politecnica del Litoral Ecuador
Ecuador	Agricultural and Veterinary Sciences	1,284	Escuela Superior Politecnica del Litoral Ecuador	Universidad Técnica Estatal de Quevedo	Universidad San Francisco de Quito	Pontificia Universidad Catolica del Ecuador	Universidad Tecnica Particular de Loja
Ecuador	Information and Computing Sciences	921	Universidad de Guayaquil	Universidad Tecnica Particular de Loja	Escuela Politécnica Nacional	Escuela Superior Politecnica del Litoral Ecuador	Universidad de las Fuerzas Armadas ESPE
Ecuador	Engineering	1,569	Escuela Superior Politecnica del Litoral Ecuador	Escuela Politécnica Nacional	Universidad de las Fuerzas Armadas ESPE	Universidad San Francisco de Quito	Universidad Tecnica Particular de Loja
Ecuador	Technology	199	Universidad de las Fuerzas Armadas ESPE	Escuela Superior Politecnica del Litoral Ecuador	Escuela Politécnica Nacional	Universidad San Francisco de Quito	Universidad Tecnica Particular de Loja
Ecuador	Medical and Health Sciences	2,096	Universidad San Francisco de Quito	Pontificia Universidad Catolica del Ecuador	Universidad Central del Ecuador	Universidad Espíritu Santo, Ecuador	Universidad de las Fuerzas Armadas ESPE
Ecuador	Built Environment and Design	137	Universidad San Francisco de Quito	University of Cuenca	Delft University of Technology (Netherlands)	Escuela Politécnica Nacional	Universidad Politécnica de Madrid (Spain)
Ecuador	Education	256	Universidad Tecnica Particular de Loja	Universidad Técnica de Machala	Universidad Nacional de Chimborazo	Universidad de Guayaquil	University of Cuenca
Ecuador	Economics	166	Escuela Superior Politecnica del Litoral Ecuador	FLACSO Ecuador	Escuela Politécnica Nacional	University of Cuenca	Universidad Central del Ecuador
Ecuador	Commerce, Management, Tourism and Services	558	Universidad de Guayaquil	Universidad Católica de Santiago de Guayaquil	Escuela Superior Politecnica del Litoral Ecuador	Universidad Tecnica Particular de Loja	Universidad ECOTEC
Ecuador	Studies in Human Society	680	FLACSO Ecuador	Universidad Tecnica Particular de Loja	University of Cuenca	Universidad San Francisco de Quito	Escuela Superior Politecnica del Litoral Ecuador
Ecuador	Psychology and Cognitive Sciences	105	University of Cuenca	Universidad San Francisco de Quito	Pontificia Universidad Catolica del Ecuador	Universidad de Granada (Spain)	Universidad Tecnica Particular de Loja
Ecuador	Law and Legal Studies	43	Universidad de Guayaquil	FLACSO Ecuador	Universidad de las Americas - Ecuador	Universidad Nacional Mayor de San Marcos (Peru)	Universidad Central del Ecuador
Ecuador	Studies in Creative Arts and Writing	29	Pontificia Universidad Catolica del Ecuador	Universidad Estatal Amazónica	Instituto de Ciencia Animal (Cuba)	Universidad de las Americas - Ecuador	Instituto de Investigaciones Agropecuarias Jorge Dimitrov (Chile)
Ecuador	Language, Communication and Culture	229	Universidad Tecnica Particular de Loja	Universidad de las Americas - Ecuador	FLACSO Ecuador	Universidad de Santiago de Compostela (Chile)	University of Cuenca
Ecuador	History and Archaeology	89	University of Cuenca	FLACSO Ecuador	Universidad Nacional de Chimborazo	Universidad de las Americas - Ecuador	Universidad Central del Ecuador
Ecuador	Philosophy and Religious Studies	52	Pontificia Universidad Catolica del Ecuador	Escuela Superior Politecnica del Litoral Ecuador	FLACSO Ecuador	Yachay Tech	Universidad de Los Lagos (Chile)
El Salvador	Mathematical Sciences	5	University of Ljubljana (Slovenia)	Institute of Mathematics, Physics, and Mechanics (Slovenia)	Univerza v Mariboru (Slovenia)	University of Denver (United States)	Università degli Studi di Reggio Calabria (Italy)
El Salvador	Physical Sciences	13	Universidad de El Salvador	Hospital Oncológico 'Dr. Luis Razetti' (Venezuela)	CNRS Centre National de la Recherche Scientifique (France)	Instituto Nacional de Investigaciones Nucleares (Mexico)	Universidad de Tarapacá de Arica (Chile)
El Salvador	Chemical Sciences	18	Universidad de El Salvador	Ministry of Health	Universidad Centroamericana José Simeón Cañas José Simeón Cañas	Universidad Centroamericana José Simeón Cañas	EMas-Research Center on Engineering of Materials and Micro/nanoSystems (Spain)
El Salvador	Earth Sciences	43	Universidad de El Salvador	Universidad Nacional Autónoma de México (Mexico)	CNRS Centre National de la Recherche Scientifique (France)	Universidad Complutense de Madrid (Spain)	Universidad Politécnica de Madrid (Spain)
El Salvador	Environmental Sciences	22	Universidad de El Salvador	Universidad Autónoma de Sinaloa (Mexico)	Universidad Nacional Autónoma de México (Mexico)	Universidad Dr. José Matias Delgado	NOAA Fisheries Service (United States)
El Salvador	Biological Sciences	71	Universidad de El Salvador	Universidad Nacional Autónoma de México (Mexico)	Universidad Nacional Autónoma de Honduras (Honduras)	Museo de Historia Natural de El Salvador	Instituto de Investigaciones Tropicales de El Salvador
El Salvador	Agricultural and Veterinary Sciences	40	Universidad de El Salvador	Ministry of Health	Pan American Health Organization (United States)	Instituto Politécnico Nacional (Mexico)	Centers for Disease Control and Prevention (United States)
El Salvador	Information and Computing Sciences	8	Universidad Centroamericana (Nicaragua)	Universidad Don Bosco	Universidad Catolica del Uruguay (Uruguay)	Universidad Rafael Landívar (Guatemala)	Escuela Superior de Economía y Negocios
El Salvador	Engineering	45	Universidad de El Salvador	Univerza v Mariboru (Slovenia)	Universidad de Granada (Spain)	Univerza v Ljubljani (Slovenia)	Universidad Centroamericana (Nicaragua)

Country	Field of research	Total publications	Top Institutions				
El Salvador	Technology	3	National Institute of Biology (Slovenia)	Hochiminh city International University (Vietnam)	Instituto de Investigaciones Tropicales de El Salvador	Amsterdam UMC - University of Amsterdam (Netherlands)	University of Amsterdam (Netherlands)
El Salvador	Medical and Health Sciences	227	Universidad de El Salvador	Universidad del Valle de Guatemala (Guatemala)	Pan American Health Organization (United States)	Centers for Disease Control and Prevention (United States)	Hospital Nacional Rosales
El Salvador	Built Environment and Design	5	Escuela Superior de Economía y Negocios	Universidad Centroamericana José Simeón Cañas	European Centre for Training and Research in Earthquake Engineering (Italy)	Council of Caribbean Engineering Organisations (Barbados)	ESEN
El Salvador	Education	17	University of Central America (Nicaragua)	Universidad de El Salvador	Universidad Centroamericana (Nicaragua)	St John's School and Sixth Form Centre (United Kingdom)	Univ. Dipl. Bibl. (Slovenia)
El Salvador	Economics	4	Herbario Nacional del Ecuador (Ecuador)	Secretary of Environment (Panama)	Gorgas Memorial Institute for Health Studies (Panama)	Esperantra (Peru)	International Vaccine Initiative
El Salvador	Commerce, Management, Tourism and Services	9	Escuela Superior de Economía y Negocios	Technical University of Košice (Slovakia)	Universidad Centroamericana José Simeón Cañas	Matej Bel University in Banska Bystrica (Slovakia)	Trnava University (Slovakia)
El Salvador	Studies in Human Society	56	Pan American Health Organization (United States)	Universidad de Chile (Chile)	Fundación Antidrogas de El Salvador	Universidad Centroamericana José Simeón Cañas	Instituto de Investigaciones Tropicales de El Salvador
El Salvador	Psychology and Cognitive Sciences	21	Tin Marin Children's Museum	Universidad Dr. José Matías Delgado	Universidad de Granada (Spain)	University of South Florida St. Petersburg (United States)	Universidad de El Salvador
El Salvador	Law and Legal Studies	6	Escuela Superior de Economía y Negocios	Universidad Centroamericana José Simeón Cañas	Bureau of International Narcotics and Law Enforcement Affairs (United States)	ESEN	FUSADES
El Salvador	Studies in Creative Arts and Writing	1	Dr. José Matías Delgado University				
El Salvador	Language, Communication and Culture	28	Escuela Superior de Economía y Negocios	Filozofska Fakulteta Univerze v Ljubljani (Slovenia)	Banco Interamericano de Desarrollo (United States)	Universidad Centroamericana (Nicaragua)	Univerza v Ljubljani (Slovenia)
El Salvador	History and Archaeology	3	Green River Community College (United States)	Museo Nacional de Antropología Dr. David J. Guzmán	KITCH	University of Colorado at Boulder (United States)	Univerza v Mariboru (Slovenia)
El Salvador	Philosophy and Religious Studies	5	St John's School and Sixth Form Centre (United Kingdom)	Departamento de Conservación de Bienes Culturales Muebles (Spain)	Universidad Centroamericana José Simeón Cañas	Wissenschaftliches Forschungszentrum der Slowenischen Akademie der Wissenschaften und Künste (Germany)	Università degli Studi Roma Tre (Italy)
Guatemala	Mathematical Sciences	8	CNRS Centre National de la Recherche Scientifique (France)	Université des Sciences et Technologies de Lille (France)	Universidad Francisco Marroquin	Universidad de San Carlos de Guatemala	Laboratoire de Mécanique de Lille (France)
Guatemala	Physical Sciences	19	Universidad de San Carlos de Guatemala	CNRS Centre National de la Recherche Scientifique (France)	Universidad Nacional Autónoma de México (Mexico)	Consejo Superior de Investigaciones Científicas (Spain)	Université des Sciences et Technologies de Lille (France)
Guatemala	Chemical Sciences	15	Universidad Nacional Autónoma de México (Mexico)	Universidad de San Carlos de Guatemala	McGill University (United States)	CNRS Centre National de la Recherche Scientifique (France)	Center for Studies of Sensory Impairment, Aging and Metabolism Guatemala
Guatemala	Earth Sciences	35	Universidad del Valle de Guatemala	Universidad de San Carlos de Guatemala	Instituto Nacional de Sismología, Vulcanología, Meteorología e Hidrología INSIVUMEH	MarAlliance (Belize)	Fundación Mundo Azul
Guatemala	Environmental Sciences	46	Universidad del Valle de Guatemala	Universidad de San Carlos de Guatemala	Peking University Health Science Center (China)	Ospedale Maggiore Policlinico Milano (Italy)	Northwestern University (United States)
Guatemala	Biological Sciences	206	Universidad de San Carlos de Guatemala	Universidad del Valle de Guatemala	El Colegio de la Frontera Sur (Mexico)	Universidad Nacional Autónoma de México (Mexico)	Centers for Disease Control and Prevention (United States)
Guatemala	Agricultural and Veterinary Sciences	133	Universidad de San Carlos de Guatemala	Universidad del Valle de Guatemala	Centers for Disease Control and Prevention (United States)	Universidad Nacional de Colombia (Colombia)	CATIE - Centro Agronómico Tropical de Investigación y Enseñanza (Costa Rica)
Guatemala	Information and Computing Sciences	23	Universidad Galileo	Universidad del Valle de Guatemala	Galileo University	Universidad Peruana Cayetano Heredia (Peru)	Universidad Francisco Marroquin
Guatemala	Engineering	60	Universidad de San Carlos de Guatemala	Universidad Rafael Landívar	Institute of Nutrition of Central America and Panama Guatemala	Center for Studies of Sensory Impairment, Aging and Metabolism Guatemala	Université des Sciences et Technologies de Lille (France)
Guatemala	Technology	7	Centro de Investigaciones en Nutrición y Salud (Mexico)	Universidad del Valle de Guatemala	Creighton University (United States)	USDA ARS Russell Research Center RRC (United States)	Universidad de San Carlos de Guatemala
Guatemala	Medical and Health Sciences	596	Universidad del Valle de Guatemala	Centers for Disease Control and Prevention (United States)	Institute of Nutrition of Central America and Panama Guatemala	Universidad de San Carlos de Guatemala	Columbia University in the City of New York (United States)
Guatemala	Built Environment and Design	5	Universidad Galileo	Bastian Solutions (United States)	National Secretary of Science and Technology	Museo Miraflores	Humboldt-Universität zu Berlin (Germany)
Guatemala	Education	21	Universidad del Valle de Guatemala	Universidad Galileo	University of Colorado Health Sciences Center (United States)	Universidad de Alcala (Spain)	Universidad Pedagógica Experimental Libertador (Venezuela)
Guatemala	Economics	39	Universidad Francisco Marroquin	Universidad Francisco Marroquín	University of Michigan, Ann Arbor (United States)	Francisco Marroquin University	Eaton Vance Investment Managers (United States)
Guatemala	Commerce, Management, Tourism and Services	16	Universidad Francisco Marroquin	Eaton Vance Investment Managers (United States)	Merrimack College (United States)	Universidad Rafael Landívar	Universidad Rafael Landívar (Guatemala)
Guatemala	Studies in Human Society	113	Universidad del Valle de Guatemala	Institute of Nutrition of Central America and Panama Guatemala	Universidad de San Carlos de Guatemala	Brigham and Women's Hospital (United States)	Universidad Francisco Marroquin
Guatemala	Psychology and Cognitive Sciences	33	Universidad del Valle de Guatemala	St. Louis University (United States)	University of California, San Francisco (United States)	Universidad del Valle	Pan American Health Organization (United States)
Guatemala	Law and Legal Studies	2	Texas State (United States)				

Country	Field of research	Total publications	Top Institutions				
Guatemala	Studies in Creative Arts and Writing	2	Universidad Rafael Landívar	Ixchel Museum of Indigenous Dress	Universidad del Valle de Guatemala		
Guatemala	Language, Communication and Culture	21	Universidad de San Carlos de Guatemala	University of Arizona (United States)	Universidad del Valle de Guatemala	Universidad Francisco Marroquin	Ceibal-Petexbatun Archaeological Project (United States)
Guatemala	History and Archaeology	25	Universidad del Valle de Guatemala	Universidad de San Carlos de Guatemala	University of Arizona (United States)	Ibaraki University (Japan)	Universite Paris 1 Pantheon-Sorbonne (France)
Guatemala	Philosophy and Religious Studies	3	Epidemiological Research Center in Sexual and Reproductive Health CIESAR	Agnes Scott College (United States)	Universidad Carlos III de Madrid (Spain)	Duke University (United States)	University of Washington, Seattle (United States)
Honduras	Mathematical Sciences	7	Hospital Enrique Aguilar Cerrato	Cincinnati Children's Hospital Medical Center (United States)	Universidad Nacional Autónoma de Honduras	Harvard School of Medicine (United States)	Universidad Pedagógica Nacional Francisco Morazán
Honduras	Physical Sciences	30	Universidade Federal do Rio de Janeiro (Brazil)	Università degli Studi di Padova (Italy)	University of Glasgow (United Kingdom)	Universite Blaise Pascal (France)	Universitat de Barcelona (Spain)
Honduras	Chemical Sciences	7	Universidad Zamorano	Centro de Neumología y Alergias	Nestlé India Limited (India)	Universidad Católica de Honduras	Knome, Inc. (United States)
Honduras	Earth Sciences	18	Universidad Nacional Autónoma de Honduras	Uppsala Universitet (Sweden)	University of Wisconsin-Madison (United States)	California State University Stanislaus (United States)	Pennsylvania State University (United States)
Honduras	Environmental Sciences	26	Universidad Nacional Autónoma de Honduras	Universidad Zamorano	Universidad Pedagógica Nacional Francisco Morazán	Universidad de Valladolid (Spain)	Universidade Estadual Paulista (Brazil)
Honduras	Biological Sciences	123	Universidad Nacional Autónoma de Honduras	Universidad Zamorano	Fundação Oswaldo Cruz (Brazil)	Universidad Nacional Autónoma de México (Mexico)	Vanderbilt University (United States)
Honduras	Agricultural and Veterinary Sciences	62	Universidad Nacional Autónoma de Honduras	Universidad Zamorano	Universidad de Chile (Chile)	Instituto Nacional de la Nutrición Salvador Zubiran (Mexico)	Universidad Nacional de Colombia (Colombia)
Honduras	Information and Computing Sciences	11	Universidad Nacional Autónoma de Honduras	Universidad Tecnológica Centroamericana	Universidad de Santiago de Compostela (Chile)	Escuela Nacional de Ciencias Forestales	Universidad Don Bosco (El Salvador)
Honduras	Engineering	55	Universidad Zamorano	Universidad Nacional Autónoma de Honduras	Universidad Tecnológica Centroamericana	Universidad Pedagógica Nacional Francisco Morazán	Pennsylvania State University (United States)
Honduras	Technology	3	Universidad Nacional de Agricultura	University of Illinois at Urbana-Champaign (United States)	Oklahoma State University - Stillwater (United States)	The University of British Columbia (Canada)	Eastern Illinois University (United States)
Honduras	Medical and Health Sciences	255	Universidad Nacional Autónoma de Honduras	Hospital Escuela	Vanderbilt University (United States)	Fundação Oswaldo Cruz (Brazil)	Instituto Nacional de la Nutrición Salvador Zubiran (Mexico)
Honduras	Built Environment and Design	3	Stanford University (United States)	Trees Water People (United States)	Soto Cano Air Base	US Air Force (United States)	Asociación Hondureña para el Desarrollo
Honduras	Education	14	Universidad Tecnológica Centroamericana	Universidad Pedagógica Nacional Francisco Morazán	Cincinnati Children's Hospital Medical Center (United States)	Hospital Enrique Aguilar Cerrato	Pennsylvania State University (United States)
Honduras	Economics	4	Universidad Nacional Autónoma de Honduras	Centro de Estudios Marinos	UNIVERSIDAD NACIONAL AUTONOMA DE HONDURAS EN EL VALLE DE SULA UNAH-VS	Gakushuin University (Japan)	Smithsonian Marine Station (United States)
Honduras	Commerce, Management, Tourism and Services	5	Universidad Nacional Autónoma de Honduras	Servicio Departamental de Gestión Social (Panama)	FLACSO (Ecuador)	Universidad Privada de Santa Cruz de la Sierra (Bolivia)	Instituto Nacional de la Mujer (Argentina)
Honduras	Studies in Human Society	28	Universidad Nacional Autónoma de Honduras	Universidad Tecnológica Centroamericana	Special Hospital for Surgery Filip Vtori (Macedonia)	Hospital Episcopal San Lucas (Puerto Rico)	Privolzhsky Research Medical University (Russian Federation)
Honduras	Psychology and Cognitive Sciences	6	Instituto Nacional de la Nutrición Salvador Zubiran (Mexico)	Fundação Oswaldo Cruz (Brazil)	Fundacion Huesped (Argentina)	Universidad Nacional Autónoma de Honduras	Inst. Pediatric Marès-Riera (Spain)
Honduras	Law and Legal Studies	3	Universidad Tecnológica Centroamericana				
Honduras	Studies in Creative Arts and Writing	1	University of California, Santa Barbara (United States)				
Honduras	Language, Communication and Culture	3	Zhejiang University (China)	China University of Political Science and Law (China)	Hong Kong Polytechnic University (Hong Kong)		
Honduras	History and Archaeology	3	Universidad Nacional Autónoma de Honduras (Honduras)	Honduran Institute of Anthropology and History	Università degli Studi di Pavia (Italy)	Università degli Studi di Urbino Carlo Bo (Italy)	
Honduras	Philosophy and Religious Studies	1	Apostolic Nunciature (The Vatican)				
Mexico	Mathematical Sciences	5,073	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Centro de Investigación en Matemáticas, A.C.	Tecnológico de Monterrey
Mexico	Physical Sciences	12,804	Universidad Nacional Autónoma de México	Centro de Investigación y de Estudios Avanzados	Benemerita Universidad Autonoma de Puebla	Instituto Politécnico Nacional	Universidad Autonoma de San Luis Potosi
Mexico	Chemical Sciences	9,326	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Universidad Autónoma Metropolitana - Iztapalapa	Universidad de Guanajuato
Mexico	Earth Sciences	4,556	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación Científica y de Educación Superior de Ensenada	Centro Interdisciplinario de Ciencias Marinas	Centro de Investigaciones Biológicas Del Noroeste
Mexico	Environmental Sciences	4,872	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Colegio de Postgraduados	Universidad Autónoma del Estado de México	Centro de Investigación y de Estudios Avanzados (Mexico)
Mexico	Biological Sciences	19,449	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Instituto de Ecología, A.C.	Colegio de Postgraduados
Mexico	Agricultural and Veterinary Sciences	10,124	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Colegio de Postgraduados	Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias	Centro de Investigaciones Biológicas Del Noroeste

Country	Field of research	Total publications	Top Institutions				
Mexico	Information and Computing Sciences	5,114	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Tecnológico de Monterrey	Universidad de Guadalajara (Mexico)
Mexico	Engineering	21,032	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Tecnológico de Monterrey	Benemerita Universidad Autonoma de Puebla
Mexico	Technology	2,215	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Centro de Investigación y de Estudios Avanzados	Tecnológico de Monterrey	Universidad de Guadalajara (Mexico)
Mexico	Medical and Health Sciences	23,842	Universidad Nacional Autónoma de México	Instituto Mexicano del Seguro Social	Instituto Politécnico Nacional	Instituto Nacional de la Nutrición Salvador Zubiran	Instituto Nacional de Salud Publica
Mexico	Built Environment and Design	726	Universidad Nacional Autónoma de México	Universidad Autónoma del Estado de México	Tecnológico de Monterrey	Universidad Autónoma de Nuevo León	Instituto Politécnico Nacional (Mexico)
Mexico	Education	1,604	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Tecnológico de Monterrey	Centro de Investigación y de Estudios Avanzados	Universidad de Guadalajara (Mexico)
Mexico	Economics	1,030	Universidad Nacional Autónoma de México	Tecnológico de Monterrey	Instituto Tecnológico Autónomo de México	Centro de Investigación y Docencia Economicas A.C.	Instituto Politécnico Nacional (Mexico)
Mexico	Commerce, Management, Tourism and Services	1,382	Tecnológico de Monterrey	Universidad Nacional Autónoma de México	Instituto Politécnico Nacional	Instituto Tecnológico Autónomo de México	Universidad Autónoma del Estado de México
Mexico	Studies in Human Society	4,430	Universidad Nacional Autónoma de México	Tecnológico de Monterrey	Centro de Investigación y Docencia Economicas A.C.	Instituto Nacional de Salud Publica	Universidad de Guadalajara (Mexico)
Mexico	Psychology and Cognitive Sciences	1,675	Universidad Nacional Autónoma de México	Instituto Nacional de Psiquiatría Ramon de la Fuente	Universidad de Guadalajara	Universidad Autónoma de Nuevo León	Universidad Veracruzana
Mexico	Law and Legal Studies	453	Universidad Nacional Autónoma de México	Centro de Investigación y Docencia Economicas A.C.	Instituto Tecnológico Autónomo de México	Instituto de Investigaciones Jurídicas de la UNAM	Tecnológico de Monterrey
Mexico	Studies in Creative Arts and Writing	140	Universidad Nacional Autónoma de México	Tecnológico de Monterrey	Universidad de Guadalajara	Centro de Investigación Científica de Yucatan	Universidad Autónoma de Zacatecas (Mexico)
Mexico	Language, Communication and Culture	1,660	Universidad Nacional Autónoma de México	Tecnológico de Monterrey	Universidad de Guadalajara	Benemerita Universidad Autonoma de Puebla	Universidad Iberoamericana
Mexico	History and Archaeology	1,029	Universidad Nacional Autónoma de México	Instituto Nacional de Antropología e Historia, Mexico	El Colegio de Mexico, A.C.	Universidad Michoacana de San Nicolás de Hidalgo	Universidad Autónoma Metropolitana
Mexico	Philosophy and Religious Studies	482	Universidad Nacional Autónoma de México	Universidad Panamericana	Universidad Autónoma Metropolitana	Benemerita Universidad Autonoma de Puebla	Tecnológico de Monterrey
Nicaragua	Mathematical Sciences	2	Ministerio de Salud	Instituto Tecnológico de Celaya (Mexico)	Icahn School of Medicine at Mount Sinai (United States)	Northwestern University Feinberg School of Medicine (United States)	University of California, Berkeley (United States)
Nicaragua	Physical Sciences	6	Universidad Nacional Autónoma de Nicaragua	Instituto Nicaraguense de Estudios Territoriales INETER	Instituto Nacional de Investigaciones Nucleares (Mexico)	International Atomic Energy Agency, Vienna (Austria)	Hospital Mexico (Mexico)
Nicaragua	Chemical Sciences	11	National Autonomous University of Nicaragua at León UNAN-León	Nicaraguan Research Center for Aquatic Resources of the National Autonomous University of Nicaragua CIRA/UNAN	Universidade de São Paulo (Brazil)	Universidad del Pais Vasco (Spain)	Pontificia Universidad Javeriana (Colombia)
Nicaragua	Earth Sciences	50	Instituto Nicaragüense de Estudios Territoriales	Chalmers University of Technology (Sweden)	Universidad Nacional Autónoma de México (Mexico)	Pennsylvania State University (United States)	Instituto Nicaraguense de Estudios Territoriales INETER
Nicaragua	Environmental Sciences	50	International Center for Tropical Agriculture CIAT (Colombia)	Centro Internacional de Agricultura Tropical (Colombia)	National Autonomous University of Nicaragua	National Autonomous University of Nicaragua at León UNAN-León	Humboldt-Universität zu Berlin (Germany)
Nicaragua	Biological Sciences	122	Universidad Nacional Autónoma de Nicaragua (Nicaragua)	International Center for Tropical Agriculture CIAT (Colombia)	University of California, Berkeley (United States)	Ministry of Health	National Autonomous University of Nicaragua
Nicaragua	Agricultural and Veterinary Sciences	71	International Center for Tropical Agriculture CIAT (Colombia)	Centro Internacional de Agricultura Tropical (Colombia)	Universidad Nacional Agraria	Universidad de Valladolid (Spain)	International Livestock Research Institute Nairobi (Kenya)
Nicaragua	Information and Computing Sciences	8	Universidad Nacional de Ingeniería	Hospital Infantil Manuel de Jesus Rivera	National Hospital of Paediatrics (Vietnam)	Centro Internacional de Agricultura Tropical CIAT (Colombia)	National University of Engineering UNI
Nicaragua	Engineering	35	Universidad de Costa Rica (Costa Rica)	Universidad Nacional de Ingeniería	Universidad de Valladolid (Spain)	CIRAD Centre de Recherche de Montpellier (France)	Lunds Universitet (Sweden)
Nicaragua	Technology	5	Universidad Nacional Autónoma de Nicaragua	National Autonomous University of Nicaragua	Museo Entomológico de León	Sustainable Sciences Institute (United States)	JCCM (Spain)
Nicaragua	Medical and Health Sciences	263	University of California, Berkeley (United States)	Ministry of Health	Sustainable Sciences Institute (United States)	Centers for Disease Control and Prevention (United States)	The University of North Carolina at Chapel Hill (United States)
Nicaragua	Built Environment and Design	0					
Nicaragua	Education	8	Universidad Nacional Autónoma de Nicaragua	Universidad Pablo de Olavide (Spain)	Universidad Centroamericana	Jessie F. Richardson Foundation (United States)	Universidad Nacional Autónoma de Nicaragua - León UNAN-León
Nicaragua	Economics	6	IXMATI - Instituto Centroamericano para el Desarrollo de Capacidades Humanas	Danish Institute for International Studies (Denmark)	Centre for European Policy Studies (Belgium)	International Centre for Research in AgroForestry (Peru)	Netherlands Organisation for Applied Scientific Research TNO (Netherlands)
Nicaragua	Commerce, Management, Tourism and Services	22	INCAE Business School, Nicaragua	INCAE Business School, Costa Rica (Costa Rica)	Hospital Clínica Bíblica (Costa Rica)	Cardiovascular Unit of Guatemala (Guatemala)	Centre for European Policy Studies (Belgium)
Nicaragua	Studies in Human Society	53	Universidad Centroamericana	Uppsala Universitet (Sweden)	Nicaraguan National Autonomous University	Universiteit Antwerpen (Belgium)	Lunds Universitet (Sweden)
Nicaragua	Psychology and Cognitive Sciences	8	Universidad Nacional Autónoma de Nicaragua	Bluefields Indian Caribbean University	South Group	American University (United States)	Instituto CentroAmericano de Salud ICAS (Mexico)

Country	Field of research	Total publications	Top Institutions				
Nicaragua	Law and Legal Studies	1	Derecho de Integración y Relaciones Internacionales de la Uni. Nacional Autónoma (Mexico)				
Nicaragua	Studies in Creative Arts and Writing	4	Academy of Nicaraguan Geography and History	Estelí	Universidad Centroamericana		
Nicaragua	Language, Communication and Culture	9	Universidad Americana (Mexico)	Outreach Team	Project CERCA	National Autonomous University of Nicaragua	Universidad de las Regiones Autónomas de la Costa Caribe Nicaragüense
Nicaragua	History and Archaeology	2	National Autonomous University of Nicaragua	Instituto Centroamericano de Estudios Sociales y el Desarrollo INCEDES (Guatemala)	BICU-CIDCA University (United States)	Community of Monkey Point	Universitat de Girona (Spain)
Nicaragua	Philosophy and Religious Studies	1	National Autonomous University of Nicaragua	Ohio State University (United States)	Karolinska Institutet (Sweden)		
Panama	Mathematical Sciences	16	Smithsonian Tropical Research Institute	Universidad de Panamá	Universidad de Malaga (Spain)	Universidad Tecnologica de Panama	University of Illinois at Urbana-Champaign (United States)
Panama	Physical Sciences	61	Smithsonian Tropical Research Institute	Universidad Tecnologica de Panama	Consejo Superior de Investigaciones Científicas (Spain)	University of California, Berkeley (United States)	CSIC-UPM - Centro de Automatica y Robotica CAR (Spain)
Panama	Chemical Sciences	125	Smithsonian Tropical Research Institute	Universidad de Panamá	Universidad Tecnologica de Panama	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	Acharya Nagarjuna University (India)
Panama	Earth Sciences	163	Smithsonian Tropical Research Institute	University of Florida (United States)	Universidad del Norte, Colombia (Colombia)	Florida Museum Natural History (United States)	University of Alberta (Canada)
Panama	Environmental Sciences	268	Smithsonian Tropical Research Institute	University of Illinois at Urbana-Champaign (United States)	University of California, Los Angeles (United States)	University of Florida (United States)	University of Oxford (United Kingdom)
Panama	Biological Sciences	1,340	Smithsonian Tropical Research Institute	Universidad de Panamá	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	University of Florida (United States)	Universität Ulm (Germany)
Panama	Agricultural and Veterinary Sciences	448	Smithsonian Tropical Research Institute	Universidad de Panamá	University of Florida (United States)	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	McGill University (United States)
Panama	Information and Computing Sciences	51	Universidad Tecnologica de Panama	Smithsonian Tropical Research Institute	Universidad de Panamá	Universidad de Castilla-La Mancha (Spain)	Universidad Politécnica de Madrid (Spain)
Panama	Engineering	134	Universidad Tecnologica de Panama	Universidad de Panamá	Smithsonian Tropical Research Institute	Consejo Superior de Investigaciones Científicas (Spain)	University of Texas at Austin (United States)
Panama	Technology	33	Smithsonian Tropical Research Institute	University of Illinois at Urbana-Champaign (United States)	University of California, Berkeley (United States)	Universidad Tecnologica de Panama	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP
Panama	Medical and Health Sciences	605	Smithsonian Tropical Research Institute	Universidad de Panamá	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	Universidade de São Paulo (Brazil)	University of Oxford (United Kingdom)
Panama	Built Environment and Design	12	Universidad Tecnologica de Panama	University of Texas at Austin (United States)	Florida International University (United States)	Javeriana University (Colombia)	Simpson Gumpertz and Heger (United States)
Panama	Education	17	Universidad de Panamá	Universidad Tecnologica de Panama	Universitat de les Illes Balears (Spain)	Smithsonian Tropical Research Institute	Hospital Escuela (Honduras)
Panama	Economics	12	Smithsonian Tropical Research Institute	Universidad de Panamá	Ministerio de Salud	Secretary of Environment	SENACYT (Ecuador)
Panama	Commerce, Management, Tourism and Services	18	Fundación Ciudad del Saber	IALE Tecnología (Spain)	Smithsonian Tropical Research Institute	Universidad Nacional Autónoma de México (Mexico)	Universidad Pontificia Bolivariana (Bolivia)
Panama	Studies in Human Society	77	Smithsonian Tropical Research Institute	Universidad de Panamá	Regional Office for Latin America and the Caribbean (Chile)	Universidad Nacional Autónoma de México (Mexico)	Universidad Católica Santa María La Antigua
Panama	Psychology and Cognitive Sciences	22	Instituto De Investigaciones Cientificas Y Servicios De Alta Tecnologia, INDICASAT-AIP	Acharya Nagarjuna University (India)	Ngöbe Culture and Language Education Program	Northwestern University (United States)	Smithsonian Tropical Research Institute
Panama	Law and Legal Studies	2	Rosenstiel School of Marine and Atmospheric Science (United States)	Oregon State University (United States)	University of Miami (United States)	Smithsonian Tropical Research Institute	Universidad Externado de Colombia (Colombia)
Panama	Studies in Creative Arts and Writing	0					
Panama	Language, Communication and Culture	15	Universidad de Panamá	Ngöbe Culture and Language Education Program	Northwestern University (United States)	Smithsonian Tropical Research Institute	Universidad de Los Andes (Colombia)
Panama	History and Archaeology	21	Smithsonian Tropical Research Institute	Smithsonian National Museum of Natural History (United States)	Universidad del Norte, Colombia (Colombia)	Universidad de Panamá	Fundación El Caño
Panama	Philosophy and Religious Studies	1	Defensoría del Pueblo de Panamá	Florida State University (United States)			
Paraguay	Mathematical Sciences	13	Universidad Nacional de Asuncion	Universidade Federal do Rio de Janeiro (Brazil)	University of Zurich (Switzerland)	Fermi National Accelerator Laboratory (United States)	University of Michigan, Ann Arbor (United States)
Paraguay	Physical Sciences	28	Universidad Nacional de Asuncion	Fermi National Accelerator Laboratory (United States)	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	University of Michigan, Ann Arbor (United States)	University of Zurich (Switzerland)

Country	Field of research	Total publications	Top Institutions				
Paraguay	Chemical Sciences	29	Universidad Nacional de Asuncion	Universidad de la República	Universidad Nacional Autónoma de México (Mexico)	Instituto de Investigaciones en Ciencias de la Salud Universidad Nacional de Asuncion	Centro Para El Desarrollo de la Investigación Científica CEDIC
Paraguay	Earth Sciences	26	Universidad Nacional de Asuncion	Universidad Católica Nuestra Señora de la Asunción	Secretaria de Medio Ambiente SEAM	Universidade Federal de Mato Grosso (Brazil)	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)
Paraguay	Environmental Sciences	39	Universidad Nacional de Asuncion	Guyra Paraguay	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidad Católica Nuestra Señora de la Asunción	University of East Anglia (United Kingdom)
Paraguay	Biological Sciences	214	Universidad Nacional de Asuncion	Instituto de Investigación Biológica del Paraguay	Guyra Paraguay	Universidad de Cordoba (Spain)	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)
Paraguay	Agricultural and Veterinary Sciences	102	Universidad Nacional de Asuncion	Universidad de Cordoba (Spain)	Universidade de São Paulo (Brazil)	Universidade Federal de Santa Maria (Brazil)	Empresa Brasileira de Pesquisa Agropecuária - Embrapa (Brazil)
Paraguay	Information and Computing Sciences	27	Universidad Nacional de Asuncion	Universidad Católica Nuestra Señora de la Asunción	University of Seville (Spain)	Centro de Referencia Estatal de Atención al Daño Cerebral CEADAC (Spain)	IHCAI Foundation (Costa Rica)
Paraguay	Engineering	63	Universidad Nacional de Asuncion	Universidad de Buenos Aires (Argentina)	CNRS Centre National de la Recherche Scientifique (France)	Universidad de Valladolid (Spain)	University of Seville (Spain)
Paraguay	Technology	18	Universidad Nacional de Asuncion	University of Seville (Spain)	Universidad Católica Nuestra Señora de la Asunción	Universidad de Buenos Aires (Argentina)	Instituto Nacional de Tecnología Agropecuaria Buenos Aires (Argentina)
Paraguay	Medical and Health Sciences	421	Universidad Nacional de Asuncion	Hospital de Clínicas	The Catholic University of Korea (South Korea)	Universidad Autónoma Del Paraguay	Kyung Hee University (South Korea)
Paraguay	Built Environment and Design	4	Universidad Nacional de Asuncion	Universidade Federal do Rio Grande do Sul (Brazil)	CELEC-Unidad de Negocio Hidropaute (Ecuador)	Itaipu Technological Park (Brazil)	Laboratório de Ensaios e Modelos Estruturais (Brazil)
Paraguay	Education	5	Universidad Nacional de Asuncion	Instituto de Investigaciones en Ciencias de la Salud Universidad Nacional de Asuncion	Universidad Nacional del Este (Argentina)	International Consultant for Conservation Agriculture/No-till	Food and Agriculture Organization FAO of the United Nations (Italy)
Paraguay	Economics	2	AFINES Consultora S.R.L	National Soil Conservation Program of the Ministry of Agriculture	University of Seville (Spain)	Universidad Nacional de Asuncion	
Paraguay	Commerce, Management, Tourism and Services	7	Universidad Nacional de Asuncion	Servicio Departamental de Gestión Social (Panama)	FLACSO (Ecuador)	Universidad Privada de Santa Cruz de la Sierra (Bolivia)	Instituto Nacional de la Mujer (Argentina)
Paraguay	Studies in Human Society	26	Universidad Nacional de Asuncion	University of Florida (United States)	Stanford University (United States)	Universidad Católica Nuestra Señora de la Asunción	World Wildlife Fund (United States)
Paraguay	Psychology and Cognitive Sciences	18	Universidad Nacional de Asuncion	Università degli Studi di Foggia (Italy)	Universidad Católica Nuestra Señora de la Asunción	Leicestershire Partnership NHS Trust (United Kingdom)	Fundação do ABC (Brazil)
Paraguay	Law and Legal Studies	3	University of Seville (Spain)	Universidad Católica Nuestra Señora de la Asunción	Universidad Nacional de Asuncion		
Paraguay	Studies in Creative Arts and Writing	2	Universidad Nacional de Asuncion				
Paraguay	Language, Communication and Culture	10	Universidad Nacional de Asuncion	Università degli Studi di Foggia (Italy)	Leicestershire Partnership NHS Trust (United Kingdom)	Fundação do ABC (Brazil)	Kowloon Hospital (Hong Kong, China)
Paraguay	History and Archaeology	2	Centro de Estudios Rurales Interdisciplinarios CERI	CPCH	Universidad Autónoma de Zacatecas (Mexico)	Saint Mary's University (Canada)	
Paraguay	Philosophy and Religious Studies	1	UNA (Mexico)	Universidade Estadual Paulista (Brazil)			
Peru	Mathematical Sciences	163	Pontificia Universidad Católica del Perú	Universidad Nacional de Trujillo	Universidad del Pacifico, Lima	Universidade Federal do Rio de Janeiro (Brazil)	Universidad Nacional Mayor de San Marcos
Peru	Physical Sciences	496	Pontificia Universidad Católica del Perú	Universidade de São Paulo (Brazil)	University of Houston (United States)	Universidad Nacional Autónoma de México (Mexico)	Universidade Estadual de Campinas (Brazil)
Peru	Chemical Sciences	316	Pontificia Universidad Católica del Perú	Universidad Nacional de Ingeniería	Universidad Nacional Mayor de San Marcos	Universidad Peruana Cayetano Heredia	Universidade de São Paulo (Brazil)
Peru	Earth Sciences	525	Instituto Geofísico del Peru	CNRS Centre National de la Recherche Scientifique (France)	IRD Institut de Recherche pour le Developpement (France)	Instituto del Mar del Peru	Universidad Nacional Mayor de San Marcos
Peru	Environmental Sciences	519	Pontificia Universidad Católica del Perú	Universidad Peruana Cayetano Heredia	Centro Internacional de la Papa, Lima	CNRS Centre National de la Recherche Scientifique (France)	Universidad Nacional Mayor de San Marcos
Peru	Biological Sciences	1,821	Universidad Peruana Cayetano Heredia	Universidad Nacional Mayor de San Marcos	Museo de Historia Natural, Lima	Universidad Nacional San Antonio Abad del Cusco	Centro Internacional de la Papa, Lima
Peru	Agricultural and Veterinary Sciences	1,539	Universidad Nacional Mayor de San Marcos	Universidad Peruana Cayetano Heredia	Centro Internacional de la Papa, Lima	Instituto del Mar del Peru	Universidad Nacional Agraria La Molina, Lima
Peru	Information and Computing Sciences	309	Pontificia Universidad Católica del Perú	Universidad Nacional Mayor de San Marcos	Universidad del Pacifico, Lima	Universidad ESAN	Universidad Peruana de Ciencias Aplicadas
Peru	Engineering	918	Pontificia Universidad Católica del Perú	Universidad Nacional de Ingeniería	Universidad Nacional Mayor de San Marcos	Universidade de São Paulo (Brazil)	Universidad de Ingeniería y Tecnología
Peru	Technology	107	Universidad Nacional Mayor de San Marcos	Universidad Peruana Cayetano Heredia	Pontificia Universidad Católica del Perú	Universidad Nacional Agraria La Molina, Lima	Universidad Nacional de Ingeniería
Peru	Medical and Health Sciences	3,685	Universidad Peruana Cayetano Heredia	Universidad Nacional Mayor de San Marcos	Universidad Peruana de Ciencias Aplicadas	Johns Hopkins Bloomberg School of Public Health (United States)	Johns Hopkins University (United States)
Peru	Built Environment and Design	60	Pontificia Universidad Católica del Perú	Universidad Nacional de Ingeniería	Universidad de Piura	University of Amsterdam (Netherlands)	Arizona State University (United States)

Country	Field of research	Total publications	Top Institutions				
Peru	Education	135	Pontificia Universidad Católica del Perú	Universidad de San Martín de Porres	Universidad Nacional Mayor de San Marcos	Universidad Continental, Huancayo	Universidad Peruana Cayetano Heredia
Peru	Economics	238	Pontificia Universidad Católica del Perú	Universidad del Pacifico, Lima	Universidad ESAN	Universidad de Piura	Group for the Analysis of Development Lima
Peru	Commerce, Management, Tourism and Services	264	Pontificia Universidad Católica del Perú	Universidad ESAN	Universidad del Pacifico, Lima	Universidad de Piura	Universidad Nacional de Ingeniería
Peru	Studies in Human Society	649	Pontificia Universidad Católica del Perú	Universidad Peruana Cayetano Heredia	Universidad del Pacifico, Lima	Universidad Nacional Mayor de San Marcos	Universidad ESAN
Peru	Psychology and Cognitive Sciences	263	Pontificia Universidad Católica del Perú	Universidad Peruana Cayetano Heredia	Universidad de San Martín de Porres	University of California, Los Angeles (United States)	Harvard Medical School (United States)
Peru	Law and Legal Studies	59	Pontificia Universidad Católica del Perú	Universidad del Pacifico, Lima	Universidad Nacional Mayor de San Marcos	Sunway University (Malaysia)	Universidad Complutense de Madrid (Spain)
Peru	Studies in Creative Arts and Writing	30	Pontificia Universidad Católica del Perú	Universidad de Lima	Universidad de Piura	Universidad Nacional Mayor de San Marcos	Universidad Nacional de Trujillo
Peru	Language, Communication and Culture	225	Pontificia Universidad Católica del Perú	Universidad Nacional Mayor de San Marcos	Universidad San Ignacio de Loyola	Universidad del Pacifico, Lima	Universidad de Lima
Peru	History and Archaeology	139	Pontificia Universidad Católica del Perú	Universidad Nacional Mayor de San Marcos	Ministerio de Cultura, Peru	Universidad Nacional de Trujillo	George Mason University, Fairfax Campus (United States)
Peru	Philosophy and Religious Studies	39	Pontificia Universidad Católica del Perú	Universidad Nacional Mayor de San Marcos	Universidad Peruana Cayetano Heredia	Universidad del Pacifico, Lima	Universidad de San Martín de Porres
Uruguay	Mathematical Sciences	320	Universidad de la República	Instituto de Matematica y Estadística Prof. Ing. Rafael Laguardia	Universidad de la República Instituto de Física	CNRS Centre National de la Recherche Scientifique (France)	Universidad de la República, Salto
Uruguay	Physical Sciences	442	Universidad de la República	Universidad de la República Instituto de Física	Universidad de la República Facultad de Química	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	CNRS Centre National de la Recherche Scientifique (France)
Uruguay	Chemical Sciences	520	Universidad de la República	Universidad de la República Facultad de Química	Institut Pasteur de Montevideo	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidad de la República Instituto de Física
Uruguay	Earth Sciences	303	Universidad de la República	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidade de São Paulo (Brazil)	Museo Nacional de Historia Natural Uruguay	Museo Argentino de Ciencias Naturales Bernardino Rivadavia (Argentina)
Uruguay	Environmental Sciences	317	Universidad de la República	Instituto de Investigaciones Biológicas Clemente Estable	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidade de São Paulo (Brazil)	Universidad de Buenos Aires (Argentina)
Uruguay	Biological Sciences	1,851	Universidad de la República	Instituto de Investigaciones Biológicas Clemente Estable	Institut Pasteur de Montevideo	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidad de la República Facultad de Medicina
Uruguay	Agricultural and Veterinary Sciences	945	Universidad de la República	Instituto Nacional de Investigacion Agropecuaria Montevideo	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Instituto de Investigaciones Biológicas Clemente Estable	Universidad de la República Facultad de Química
Uruguay	Information and Computing Sciences	279	Universidad de la República	Universidad ORT Uruguay	Universidad Catolica del Uruguay	Institut Pasteur de Montevideo	Universidad de la República Facultad de Química
Uruguay	Engineering	938	Universidad de la República	Universidad de la República Facultad de Química	Universidad de la República Instituto de Física	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Plant & Food Research, New Zealand (New Zealand)
Uruguay	Technology	191	Universidad de la República	Universidad de la República Facultad de Química	Instituto de Investigaciones Biológicas Clemente Estable	Instituto Nacional de Investigacion Agropecuaria Montevideo	Institut Pasteur de Montevideo
Uruguay	Medical and Health Sciences	1,932	Universidad de la República	Universidad de la República Facultad de Medicina	Hospital de Clinicas Dr. Manuel Quintela	Universidad de la República Facultad de Química	Institut Pasteur de Montevideo
Uruguay	Built Environment and Design	37	Universidad de la República	Universidad de Montevideo	Tecnun University of Navarra (Spain)	Universitat Politècnica de Catalunya (Spain)	Universidad del Bío-Bío
Uruguay	Education	99	Universidad de la República	Universidad ORT Uruguay	Universidad Catolica del Uruguay	Universidad de la República Facultad de Química	Universidad Nacional de San Martin (Argentina)
Uruguay	Economics	161	Universidad de la República	Universidad ORT Uruguay	Universidad de Montevideo	Centro de Investigaciones Económicas CINVE	Universidad Catolica del Uruguay
Uruguay	Commerce, Management, Tourism and Services	136	Universidad de la República	Universidad ORT Uruguay	Universidad Catolica del Uruguay	Universidad de Montevideo	Free University of Bozen-Bolzano (Italy)
Uruguay	Studies in Human Society	354	Universidad de la República	Universidad Catolica del Uruguay	Universidad ORT Uruguay	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)	Universidad de la República Facultad de Medicina
Uruguay	Psychology and Cognitive Sciences	100	Universidad de la República	Universidad Catolica del Uruguay	Universitat Autònoma de Barcelona (Spain)	Universidad de la República Facultad de Química	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)
Uruguay	Law and Legal Studies	28	Universidad de la República	Universidad Catolica del Uruguay	Universidad de Castilla-La Mancha (Spain)	Pontificia Universidad Católica de Chile (Chile)	Centro de Investigaciones Económicas CINVE
Uruguay	Studies in Creative Arts and Writing	8	Universidad de la República	Universidad Catolica del Uruguay	Politics and Society	Compositora e investigadora	Princeton University (United States)
Uruguay	Language, Communication and Culture	102	Universidad de la República	Universidad ORT Uruguay	Universidad de Montevideo	Universidad Catolica del Uruguay	Universidade de São Paulo (Brazil)
Uruguay	History and Archaeology	54	Universidad de la República	Universidad Nacional Mayor de San Marcos (Peru)	Universidad de la República Facultad de Química	Sistema Nacional de Investigadores (Mexico)	Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)
Uruguay	Philosophy and Religious Studies	26	Universidad de la República	Universidade de São Paulo (Brazil)	Universidad Catolica del Uruguay	Universidad de Montevideo	Health Policy Research Unit (United States)
Venezuela	Mathematical Sciences	452	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Universidad de Oriente (Venezuela)	Instituto Venezolano de Investigaciones Científicas

Country	Field of research	Total publications	Top Institutions				
Venezuela	Physical Sciences	643	Instituto Venezolano de Investigaciones Cientificas	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Instituto Venezolano de Investigaciones Cientificas, Centro de Física
Venezuela	Chemical Sciences	555	Instituto Venezolano de Investigaciones Cientificas	Universidad Central de Venezuela	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad Central de Venezuela, Facultad de Ciencias
Venezuela	Earth Sciences	324	Universidad Central de Venezuela	Instituto Venezolano de Investigaciones Cientificas	Universidad De Los Andes, Mérida	Universidad Simón Bolívar	Fundación Venezolana de Investigaciones Sismológicas
Venezuela	Environmental Sciences	199	Instituto Venezolano de Investigaciones Cientificas	Universidad Central de Venezuela	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad De Los Andes Facultad de Ciencias (Colombia)
Venezuela	Biological Sciences	1261	Universidad Central de Venezuela	Instituto Venezolano de Investigaciones Cientificas	Universidad De Los Andes, Mérida	Universidad Del Zulia	Universidad Simón Bolívar
Venezuela	Agricultural and Veterinary Sciences	904	Universidad Central de Venezuela	Universidad Del Zulia	Universidad De Los Andes, Mérida	Universidad de Oriente (Venezuela)	Universidad Centroccidental Lisandro Alvarado
Venezuela	Information and Computing Sciences	340	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Universidad Del Zulia	Universidad Centroccidental Lisandro Alvarado
Venezuela	Engineering	1366	Universidad Simón Bolívar	Universidad Central de Venezuela	Universidad De Los Andes, Mérida	Instituto Venezolano de Investigaciones Cientificas	Universidad Del Zulia
Venezuela	Technology	75	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Instituto Venezolano de Investigaciones Cientificas	Universidad Simón Bolívar	Universitat Politècnica de Catalunya (Spain)
Venezuela	Medical and Health Sciences	2237	Universidad Central de Venezuela	Universidad Del Zulia	Universidad de Carabobo	Universidad De Los Andes, Mérida	Instituto Venezolano de Investigaciones Cientificas
Venezuela	Built Environment and Design	32	Universidad Central de Venezuela	Universidad De Los Andes, Mérida	Universidad Simón Bolívar	Universidad Nacional de Colombia (Colombia)	Universitat Politècnica de Catalunya (Spain)
Venezuela	Education	100	Universidad Central de Venezuela	Universidad De Los Andes, Mérida	Universidad Simón Bolívar	Universidad Pedagógica Experimental Libertador	Universidad de Carabobo
Venezuela	Economics	64	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	IESA (United States)	Universidad Simón Bolívar	Instituto de Estudios Superiores de Administración
Venezuela	Commerce, Management, Tourism and Services	125	Universidad Del Zulia	Universidad de la Costa (Colombia)	Universidad De Los Andes, Mérida	Universidad Simón Bolívar	IESA (United States)
Venezuela	Studies in Human Society	423	Universidad Del Zulia	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Universidad Simón Bolívar	Instituto Venezolano de Investigaciones Cientificas
Venezuela	Psychology and Cognitive Sciences	48	Universidad Central de Venezuela	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Universidad Nacional Autónoma de México (Mexico)	Universidad Complutense de Madrid (Spain)
Venezuela	Law and Legal Studies	21	Universidad Central de Venezuela	Universidad De Los Andes, Mérida	University of Salford (United Kingdom)	Universidad Católica Andrés Bello	Universidad Centroccidental Lisandro Alvarado
Venezuela	Studies in Creative Arts and Writing	8	Universidad Católica Andrés Bello	Universidad Claustro de Sor Juana (Mexico)	CEU Cardenal Herrera University/ Valencian International University (Spain)	Universidad Metropolitana de Ciencias de la Educación (Chile)	Universidad Central de Venezuela
Venezuela	Language, Communication and Culture	206	Universidad Del Zulia	Universidad Central de Venezuela	Universidad De Los Andes, Mérida	Universidad Simón Bolívar	Universidad Católica Andrés Bello
Venezuela	History and Archaeology	41	Universidad Central de Venezuela	Universidad Simón Bolívar	Universidad De Los Andes, Mérida	Instituto Venezolano de Investigaciones Cientificas	Universidad Católica Andrés Bello
Venezuela	Philosophy and Religious Studies	78	Universidad Del Zulia	Universidad De Los Andes, Mérida	Universidad Central de Venezuela	Universidad Católica Andrés Bello	Universidad Simón Bolívar