



Quality Education

2015-2019 Output, Impact, Collaboration

Research supporting SDG4 has grown since 2015, with a compound annual growth rate of 7.6% compared to nearly 3.5% for research in all fields.

The US produces the most research supporting SDG4, followed by the United Kingdom, Australia, Brazil and the Russian Federation. Six of the 10 most prolific locations are high income locations (accounting for more than 13,400 publications) and four are upper-middle income locations (Brazil, Russian Federation, China and South Africa). No low income locations featured in the top 50.

The top five locations for which research on SDG4 represents the largest share of their research portfolio are Kazakhstan, South Africa, New Zealand, Australia and Nigeria.

International collaboration yielded 16% of research on SDG4. High income locations collaborated with low income locations on 3% of their total SDG4 research, while 73% of the related output from low income locations came from collaboration with high income locations.

As a measure of academic impact measured by citation, the field weighted citation impact (FWCI) for SDG4 research was below average for four out of five years, with an average of 0.96 over the period.

RELX
SDG Resource Centre



This analysis builds on Elsevier's *Sustainability Science in a Global Landscape* report, which was released in 2015 to coincide with the launch of the SDGs. See a [2017 update](#) on key findings on the RELX SDG Resource Centre. Help us to provide insight into SDG research. [Click here to review the research](#)

[See the methodology and definitions](#)

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25,550

Publications in period

7.6%

Compound Annual Growth Rate in the period

70.9%

Publications from high-income locations

0.5%

Academic corporate collaboration

0.5%

Publications from low-income locations

0.96

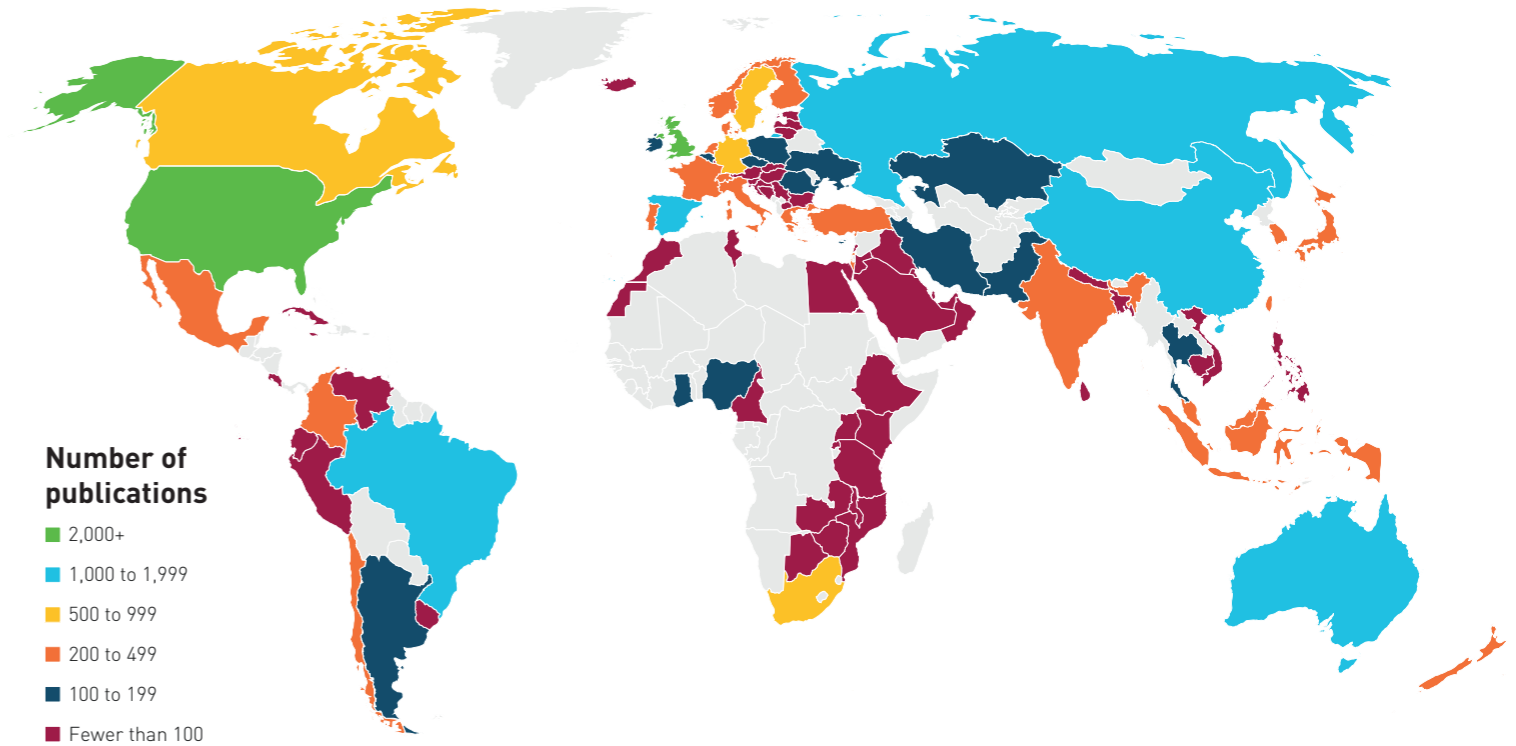
Field-Weighted Citation Impact

15.6%

Publications with international collaboration

What is FWCI?

Field-weighted citation impact is an indicator of scholarly impact based on the number of times the publication was cited in other research. An FWCI of above 1.0 indicates the impact is above the normalised average



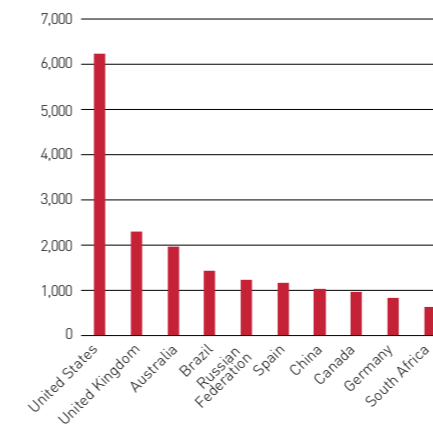
Number of publications

- 2,000+
- 1,000 to 1,999
- 500 to 999
- 200 to 499
- 100 to 199
- Fewer than 100

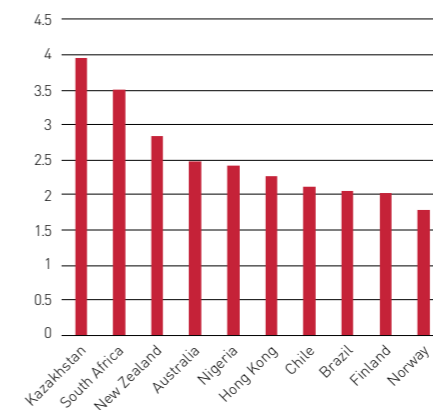
Key themes in SDG4 Research



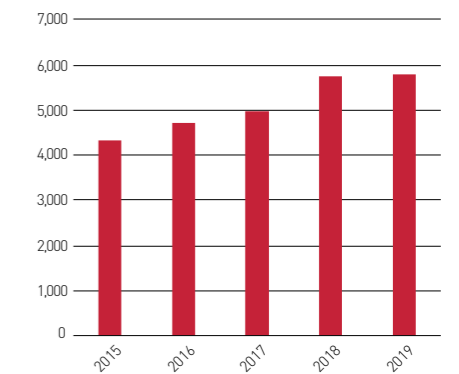
Top 10 locations by publication



Top 10 locations by RAI *(Relative Activity Index)



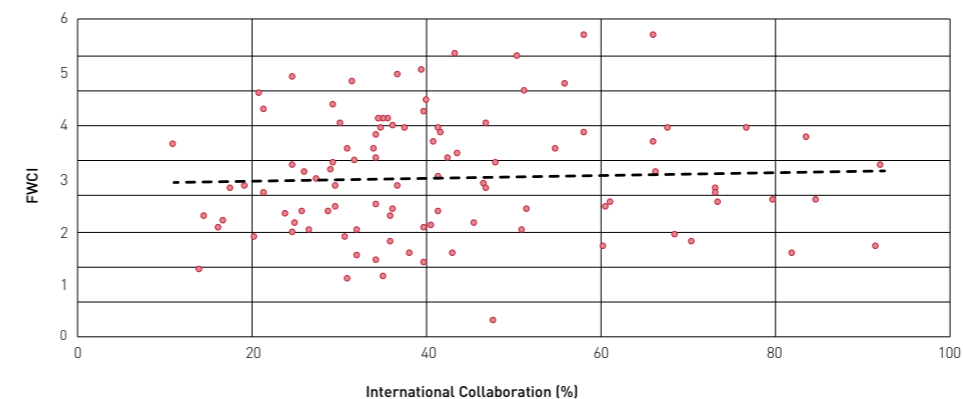
Volume of publications supporting SDG4



International collaboration between income groups by location



International collaboration and research impact



*Relative Activity Index is a measure of the proportion of the country's research output in the subject, relative to the proportion seen globally

Top 10 locations for corporate-academic collaboration

