Research supporting SDG12 has grown since 2015, with a compound annual growth rate of 11.6% compared to nearly 3.5% for research in all fields.

China produces the most research supporting SDG12, followed by the US, United Kingdom, India and Italy. Seven of the 10 most prolific locations are high income locations (accounting for more than 37,400 publications); two are upper-middle income locations (China and Brazil) and one is a lower-middle income location (India). No low income locations featured in the top 50.

The top five locations for which research on SDG12 represents the largest share of their research portfolio are Ghana, Nigeria, Sri Lanka, Latvia and Malaysia.

International collaboration yielded 24% of research on SDG12. High income locations collaborated with low income locations on 1% of their total SDG12 research, while nearly 58% 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 SDG12 research was above average every year, with an average of 1.36 over the period.

```
84,127 Publications in period
61.7% Publications from high-income locations
0.2% Publications from low-income locations
24.2% Publications with international collaboration

11.6% Compound Annual Growth Rate in the period
2.0% Academic corporate collaboration
1.36 Field-Weighted Citation Impact
```

Key themes in SDG12 Research

```
Supply Chain Management  Research on SDG  SDG  SDG  Sustainable Development
Resilience  Biodiversity  Sustainable Consumption & Production
Water Management  Life Cycle Analysis
Greenhouse Gas Emissions  Sustainable Consumption & Production
Sustainable Resources  Sustainable Development
Water Management  Life Cycle Analysis
Life Cycle Assessment
Greenhouse Gas Emissions
Corporate Social Responsibility
```

Top 10 locations by publication

```
China  China  China  China  China
United States  United States  United States  United States  United States
```

Top 10 locations by RAI *(Relative Activity Index)

```
Japan  Japan  Japan  Japan  Japan
United States  United States  United States  United States  United States
```

Volume of publications supporting SDG12

```
84,127  61,798  40,127  28,999  17,999
61.7%  24.2%  10.0%  1.0%  1.0%
0.2%  2.0%  1.36
```

International collaboration between income groups by location

```
High Income Locations  Upper Middle Income Locations  Lower Middle Income Locations  Low Income Locations
```

International collaboration and research impact

```
0.5  1  1.5  2  2.5  3  3.5  4  4.5
0  2  4  6  8  10  12  14  16  18  20
0  1  2  3  4  5  6  7  8  9  10
```

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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