Research supporting SDG11 has grown since 2015, with a compound annual growth rate of 13.1% compared to nearly 3.5% for research in all fields.

China produces the most research supporting SDG11, followed by the US, United Kingdom, India and Italy. Seven of the 10 most prolific locations are high income locations (accounting for more than 62,500 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 SDG11 represents the largest share of their research portfolio are Ghana, Sri Lanka, Philippines, Ecuador and Nepal.

International collaboration yielded 23% of research on SDG11. High income locations collaborated with low-income locations on 1% of their total SDG11 research, while 65% 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 SDG11 research was above average every year, with an average of 1.22 over the period.

Key themes in SDG11 Research

<table>
<thead>
<tr>
<th>Theme</th>
<th>Articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainable Cities</td>
<td>141,331</td>
</tr>
<tr>
<td>Sustainable Communities</td>
<td>13.1%</td>
</tr>
<tr>
<td>Academic corporate collaboration</td>
<td>60.4%</td>
</tr>
<tr>
<td>Field-Weighted Citation Impact</td>
<td>0.3%</td>
</tr>
<tr>
<td>Publications with international collaboration</td>
<td>22.6%</td>
</tr>
</tbody>
</table>

Number of publications

- 10,000 to 19,999
- 5,000 to 9,999
- 1,000 to 4,999
- 500 to 999
- Fewer than 500

Volume of publications supporting SDG11

<table>
<thead>
<tr>
<th>Year</th>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>30,000</td>
</tr>
<tr>
<td>2018</td>
<td>25,000</td>
</tr>
<tr>
<td>2017</td>
<td>20,000</td>
</tr>
<tr>
<td>2016</td>
<td>15,000</td>
</tr>
<tr>
<td>2015</td>
<td>10,000</td>
</tr>
</tbody>
</table>

International collaboration between income groups by location

- High Income Locations: 40%
- Upper Middle Income Locations: 30%
- Lower Middle Income Locations: 20%
- Low Income Locations: 10%

International collaboration and research impact

- High Income: 3.5
- Upper Middle Income: 3.0
- Lower Middle Income: 2.5
- Low Income: 2.0

Top 10 locations for corporate-academic collaboration

1. Ireland
2. Finland
3. Norway
4. Germany
5. Senegal
6. Denmark
7. Luxembourg
8. Costa Rica
9. Sweden
10. Iceland

Top 10 locations by RAI (Relative Activity Index)

1. China
2. United States
3. United Kingdom
4. India
5. Italy
6. Spain
7. Brazil
8. Germany
9. Canada
10. Australia

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 above 1.0 indicates the impact is above the normalised average.