



Figure 2.10: Top SDG-related topics based on specialization and growth in selected regions and countries, 2011–2019

For topics with at least 100 publications over 2011–2019

The growth rate and specialization index are given within brackets



RUSSIAN FEDERATION**Top five topics by growth rate**

- Sustainable transportation (7.31)
- Eco-construction materials (6.95)
- Precision agriculture (6.11)
- Wind turbine technologies (4.95)
- Wastewater treatment, recycling & re-use (4.92)

Top five topics by specialization

- Radioactive waste management (2.58)
- Nuclear fusion (2.11)
- Geothermal energy (1.04)
- Medicines & vaccines for tuberculosis (0.87)
- Hydropower (0.80)

THAILAND**Top five topics by growth rate**

- Eco-construction materials (3.86)
- Eco-industrial waste management (2.51)
- Sustainable transportation (2.44)
- Greater battery efficiency (2.44)
- Help for smallholder food producers (2.39)

Top five topics by specialization

- Eco-alternatives to plastics (9.12)
- Sustainably manage fisheries & aquaculture (4.00)
- Tropical communicable diseases (3.96)
- Biofuels & biomass (3.67)
- Help for smallholder food producers (3.10)

INDIA**Top five topics by growth rate**

- Sustainable transportation (3.96)
- Smart-grid technologies (3.19)
- Greater battery efficiency (2.92)
- Eco-construction materials (2.70)
- Geothermal energy (2.47)

Top five topics by specialization

- Climate-ready crops (3.07)
- Medicines & vaccines for tuberculosis (2.95)
- Traditional knowledge (2.83)
- Water harvesting (2.74)
- Pest-resistant crops (2.12)

INDONESIA**Top five topics by growth rate**

- Eco-alternatives to plastics (25.83)
- Sustainably manage marine tourism (16.83)
- Eco-construction materials (8.52)
- Water harvesting (8.00)
- Traditional knowledge (6.73)

Top five topics by specialization

- Sustainably manage marine tourism (10.50)
- Geothermal energy (6.34)
- Help for smallholder food producers (6.25)
- Eco-alternatives to plastics (5.44)
- Minimize poaching & trafficking of protected species (4.73)

REPUBLIC OF KOREA**Top five topics by growth rate**

- Impact on health of soil, freshwater & air pollution (2.02)
- Agro-ecology (1.84)
- Tackle invasive alien species (1.77)
- National integrated water resource management (1.67)
- Eco-industrial waste management (1.65)

Top five topics by specialization

- Photovoltaics (2.50)
- Greater battery efficiency (2.34)
- Hydrogen energy (1.91)
- Sustainable transportation (1.63)
- Radioactive waste management (1.59)

VIET NAM**Top five topics by growth rate**

- Eco-construction materials (12.00)
- Hydrogen energy (7.09)
- Smart-grid technologies (5.54)
- Biofuels & biomass (5.22)
- Eco-industrial waste management (5.17)

Top five topics by specialization

- Sustainably manage fisheries & aquaculture (4.42)
- Help for smallholder food producers (3.60)
- New or re-emerging viruses that can infect humans (2.17)
- Maintain genetic diversity of food crops (1.93)
- Hydropower (1.91)

MALAYSIA**Top five topics by growth rate**

- Carbon pricing (2.65)
- Sustainable withdrawal & supply of freshwater (2.52)
- Hydropower (2.27)
- Greater battery efficiency (2.24)
- Carbon capture & storage (2.21)

Top five topics by specialization

- Eco-alternatives to plastics (6.11)
- Eco-industrial waste management (3.99)
- Biofuels & biomass (3.71)
- Eco-construction materials (3.24)
- Traditional knowledge (2.99)

NEW ZEALAND**Top five topics by growth rate**

- Greater battery efficiency (3.26)
- Local impact of climate-related hazards & disasters (2.29)
- Hydrogen energy (1.77)
- Human resistance to antibiotics (1.65)
- Agro-ecology (1.63)

Top five topics by specialization

- Tackle invasive alien species (6.52)
- Geothermal energy (6.44)
- Ocean acidification (6.41)
- Status of terrestrial biodiversity (3.04)
- Sustainable use of terrestrial ecosystems (2.78)

CHINA**Top five topics by growth rate**

- Floating plastic debris in the ocean (40.86)
- Transboundary water resource management (2.85)
- Help for smallholder food producers (2.78)
- Water harvesting (2.74)
- Ocean acidification (2.69)

Top five topics by specialization

- Greater battery efficiency (2.12)
- National & urban greenhouse gas emissions (1.73)
- Coastal eutrophication (1.72)
- Hydropower (1.53)
- Cleaner fossil fuel technology (1.52)

JAPAN**Top five topics by growth rate**

- Impact on health of soil, freshwater & air pollution (1.63)
- Eco-industrial waste management (1.60)
- Geothermal energy (1.48)
- National & urban greenhouse gas emissions (1.46)
- Eco-construction materials (1.43)

Top five topics by specialization

- Nuclear fusion (1.88)
- Radioactive waste management (1.60)
- Regenerative medicine (1.31)
- Hydrogen energy (1.21)
- Photovoltaics (1.21)

AUSTRALIA**Top five topics by growth rate**

- Floating plastic debris in the ocean (3.94)
- Minimize poaching & trafficking of protected species (2.18)
- Greater battery efficiency (2.09)
- Help for smallholder food producers (1.98)
- Climate-ready crops (1.94)

Top five topics by specialization

- Ocean acidification (5.63)
- Local disaster risk reduction strategies (5.45)
- Sustainably manage marine tourism (5.38)
- Local impact of climate-related hazards & disasters (4.62)
- Socio-ecological impact of terrestrial protected areas (3.93)

* The topic of ecosystem-based approaches in marine environments covers environments within national exclusive economic zones.

Note: Topics with at least 100 publications were considered, with exceptions for the Caribbean, Indonesia, Malaysia, New Zealand, the Russian Federation, Singapore, Thailand and Viet Nam (50 publications).

Source: Scopus (Elsevier), including Arts, Humanities and Social Sciences; data treatment by Science-Metrix