IIASA produces world class science, which is regularly published in high-impact publications. A selection of articles (co)authored by IIASA researchers and published in Nature and selected other Nature Publishing Group (NPG) journals, Proceedings of the National Academy of Sciences of the United States of America (PNAS), and Science is presented here. Publication statistics are also included to show how much IIASA publishes and how this has increased in recent years.

**Nature**

- **Energy policy: Renewables targeted before Fukushima**
  Cherp A, Jewell J
  Nature 533(7601):36 (2016)

- **Carbon tracking: Limit uncertainties in land emissions**
  Fritz S, Schepaschenko D, See L

- **Paris Agreement climate proposals need a boost to keep warming well below 2°C**

- **Reduced carbon emission estimates from fossil fuel combustion and cement production in China**
  Liu Z, Guan D, Wei W, Davis SJ, et al.

- **Five priorities for the UN Sustainable Development Goals**
  Lu Y, Nakicenovic N, Visbeck M, Stevance A-S

- **Climate modelling: Community initiative tackles urban heat**
  See L, Mills G, Ching J

- **Limited impact on decadal-scale climate change from increased use of natural gas**

- **Satellite data: Beyond sharing Earth observations**
  See L, Fritz S, McCallum I

**Nature Climate Change**

- **Key indicators to track current progress and future ambition of the Paris Agreement**
  Nature Climate Change 7:118-122 (2017)

- **Sensitivity of projected long-term CO₂ emissions across the Shared Socioeconomic Pathways**

- **Greenhouse gas emissions intensity of global croplands**

- **Equitable mitigation to achieve the Paris Agreement goals**

- **Similar estimates of temperature impacts on global wheat yield by three independent methods**
  Nature Climate Change 6 (12):1130-1136 (2016)

- **Regional disparities in the beneficial effects of rising CO₂ concentrations on crop water productivity**

- **Mapping the climate change challenge**
  Nature Climate Change 6(7):663–668 (2016)

- **Greenhouse gas mitigation potentials in the livestock sector**
<table>
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<tr>
<th>Selected Scientific Publications</th>
<th>January 2014 to January 2017</th>
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<td><strong>Science and policy characteristics of the Paris Agreement temperature goal</strong></td>
<td>Schleussner C-F, Rogelj J, Schaeffer M, Lissner T, et al. Nature Climate Change 6(9):827–835 (2016)</td>
</tr>
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**Nature Communications**


Climate analogues suggest limited potential for intensification of production on current croplands under climate change

Uncertainty in soil data can outweigh climate impact signals in crop yield simulations

Nature Energy
Policy trade-offs between climate mitigation and clean cook-stove access in South Asia

Comparison and interactions between the long-term pursuit of energy independence and climate policies

Quantifying uncertainties influencing the long-term impacts of oil prices on energy markets and carbon emissions

Nature Geoscience
Relative contribution of monsoon precipitation and pumping to changes in groundwater storage in India

A scientific critique of the two-degree climate change target

Geosciences after Paris

Biomass production efficiency controlled by management in temperate and boreal ecosystems

Proceedings of the National Academy of Sciences of the United States of America (PNAS)
Siberian Arctic black carbon sources constrained by model and observation

Meeting the Sustainable Development Goals leads to lower world population growth.

Roles of density-dependent growth and life history evolution in accounting for fisheries-induced trait changes.

Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source

Understanding scaling through history-dependent processes with collapsing sample space

Cattle ranching intensification in Brazil can reduce global greenhouse gas emissions by sparing land from deforestation

Constraints and potentials of future irrigation water availability on agricultural production under climate change
Selected Scientific Publications

**Fast running restricts evolutionary change of the vertebral column in mammals**

**Climate change mitigation through livestock system transitions**

**Climate change effects on agriculture: Economic responses to biophysical shocks**

**Multisectoral climate impact hotspots in a warming world**

**Assessing agricultural risks of climate change in the 21st century in a global gridded crop model: intercomparison**

**Global Climate Impacts: A Cross-Sector, Multi-Model Assessment Special Feature**

**The elephant, the blind, and the intersectoral intercomparison of climate impacts**

**Multimodel assessment of water scarcity under climate change**

**The changing face of cognitive gender differences in Europe**

**Identifying the policy space for climate loss and damage.**

**Can Paris pledges avert severe climate change?**

**Transport: A roadblock to climate change mitigation?**

**Boreal forest health and global change**

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