Special Issue

Global Changes and Nitrogen Cycling in Grasslands

Message from the Guest Editor

This Special Issue focuses on the nitrogen cycling of terrestrial ecosystems under the background of climatic changes, including the relationships among plant-soil–microbes across a wide range of spatial scales, from global to urban. We encourage the submission of papers discussing nitrogen processes' features of climate change and variability in different parts of the world, obtained from field observations and cultural experiments in the laboratory. Articles focusing on nitrogen turnover, greenhouse gas fluxes, plant nitrogen use efficiency, and litter decomposition based on the microbial mechanisms in the future are very welcome. Contributions describing the development of techniques and methodologies to mitigate climate risks are of considerable interest. Since nitrogen cycling represents one of the most important biogeochemical cycles for mitigating the effects of global change, articles that examine isotope and molecular biology techniques and their potential applications and uses are of particular interest.

Guest Editor

Prof. Dr. Changhui Wang

College of Grassland Science, Shanxi Agricultural University, Jinzhong, China

Deadline for manuscript submissions

closed (31 October 2022)

Atmosphere

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Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/120219

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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