



Is Sustainable Growth Possible? The Challenge of Reconciling an Increasing Human Population and a Neutral Carbon Balance

Guest Editor:

Dr. Leonardo Montagnani

Faculty of Science and
Technology, Free University of
Bolzano, Piazza Università 1, I-
39100 Bolzano, Italy

Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editor

The current climate crisis, determined by the anthropogenic change of the atmospheric composition, requires rapid and coordinated actions by society. However, from the scientific community, a clear pathway towards its solution has not yet been established.

There are two different perspectives that can be considered for this solution, namely: One is biogeochemical, related to the balance between absorbed and released carbon dioxide, alongside with other GHGs. The second is human-related, involving the dynamics of the human population and its propensity to consume.

This Special Issue aims to collect current knowledge and modeling studies about the carbon-use efficiency in natural and human-managed ecosystems, and new proposals aimed at increasing the long-term capacity of the terrestrial ecosystem to sequester carbon, through practices like biochar or new methods. To reach the expected results, these modeling efforts and new proposals should be contextualized in the perspective of human population dynamics.





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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
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Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
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