



## Soil Carbon and Nitrogen in Agricultural Systems

Guest Editors:

**Dr. Laura Zavattaro**

Department of Veterinary  
Sciences, University of Torino, 2,  
Largo Paolo Braccini, IT10095  
Grugliasco, Torino, Italy

**Dr. José Alfonso Gómez**

Institute for Sustainable  
Agriculture, CSIC, Córdoba, Spain

Deadline for manuscript  
submissions:

**closed (20 April 2022)**

### Message from the Guest Editors

Soil organic matter plays a fundamental role in making the soil what it is: a place where plants, microbes, and animals can live and benefit from each other. The stability and turnover of soil carbon pools and inputs (such as crop residues, green manure, roots, manures, organic fertilizers, and composts) are strongly influenced by their nitrogen contents. Conversely, soil mineral nitrogen availability to plants and micro-organisms depends on the type and amount of carbon to which organic N is associated, leading to mineralization and immobilization processes. The contemporary availability of C and N sources dominates the processes that produce greenhouse gases (GHGs). The complex interconnections between C and N in soil need particular attention in modern agriculture, which is aimed not only at production but also at providing agroecosystem services.

This Special Issue is focused on carbon and nitrogen interaction in soils. Its aim is to provide insights into the complex interconnections between the cycles of the two elements in the soil.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

## Contact Us

---

Agriculture Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
X@AgricultureMdpi