



nitrogen



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Alternatives to Mineral Nitrogen Fertilizers in Agriculture: State of the Art, Challenges and Future Prospects

Guest Editor:

Dr. Germán Tortosa

Department of Soil Microbiology
and Symbiotic Systems, Estación
Experimental del Zaidín (EEZ),
Consejo Superior de
Investigaciones Científicas (CSIC),
18008 Granada, Spain

Deadline for manuscript
submissions:

closed (15 November 2023)

Message from the Guest Editor

Dear Colleagues,

In order to develop an environmentally friendly agriculture, it seems mandatory to investigate alternatives that could result in a reduction in mineral N-fertilizers without compromising yield productivity. In this Special Issue, we invite the scientific community to share their investigations related to the minimization of environmental impacts of nitrogen application in agriculture and the optimization of fertilization. Research articles and reviews including agronomic, chemical, biological or multidisciplinary aspects covering these topics (but not limited to) are also welcome:

- Biological and symbiotic nitrogen fixation;
- Legume crops or Vegetation cover;
- Environmental contamination of nitrogen fertilizers;
- Nitrogen emissions (NH₃, N₂O, NO or N₂);
- Manure and organic fertilisers;
- Enhanced-efficiency nitrogen fertilisers;
- Nitrogen transformation in organic waste treatments: composting, vermicomposting and anaerobic digestion;
- New technologies for nitrogen recovering from organic waste;
- N-cycle in soils: nitrification, denitrification, etc.



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Dr. Germán Tortosa
Guest Editor

Special *Issue*



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Editor-in-Chief

Prof. Dr. Stephen Macko

Department of Environmental
Sciences, University of Virginia,
Charlottesville, VA 22903, USA

Message from the Editor-in-Chief

Nitrogen, the element that is intimately associated with essentially all processes on Earth, is the broad focus of a new online, open access journal. The intention of this publication is to offer a venue for research papers, reviews, short notes, and communications that have as a nexus this critical element.

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Contact Us

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

Tel: +41 61 683 77 34
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