

Special Issue

Iron and Sulfur in Plants, 4th Edition

Message from the Guest Editors

This Special Issue is a continuation of our previous Special Issue on “Iron and Sulfur in Plants 3.0”.

Over the last 50 years, the combined outcomes of significant reductions in S emissions from industrial sources, use of mineral fertilizers without S, decreases in use of organic fertilizers, and changes in cropping systems, including the use of high-yielding commercial fertilizers, coupled with intensive management practices, have led to a widespread S deficiency in soils at the global scale.

On the other hand, Fe exists abundantly in the Earth's crust, and its widespread limited availability is due to its limited solubility. In particular, Fe deficiency is a typical feature of alkaline soils, covering more than 25% of the Earth's surface.

Given the implication of both elements for plants, humans, and other animals, it is of primary importance to understand plant physiological responses to S and Fe nutrition at different physiological, biochemical, and molecular levels. Furthermore, recent evidence highlights the importance of discussing the interactions S has with Fe in the rhizosphere.

Guest Editors

Dr. Stefania Astolfi

Department of Agriculture and Forest Sciences (DAFNE), University of Tuscia, 01100 Viterbo, Italy

Dr. Silvia Celletti

Department of Agricultural, Forest and Food Sciences (DISAFA), University of Turin, Turin, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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