

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.

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Deadline for manuscript submissions

closed (20 February 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/213461

*International Journal of
Molecular Sciences*
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