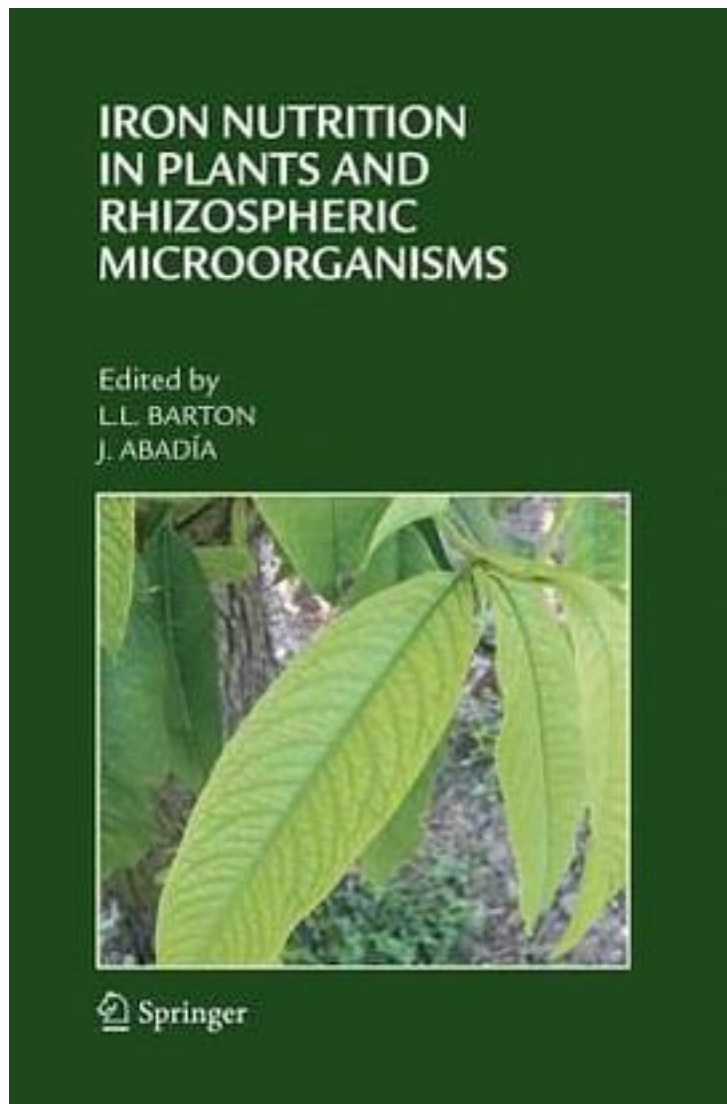


Iron Nutrition in Plants and Rhizospheric Microorganisms



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著者:Barton, Larry L. (EDT)/ Abadia, Javier (EDT)

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Topics covered in this book include: plants as a source of iron for animals and humans, iron translocation in the plants, iron-stimulated activities that influence crop yield and fruit tree productivity, iron uptake by plants as influenced by microorganisms (i.e. free living soil microorganisms, symbiotic nitrogen-fixing and pathogenic bacteria), the role of plant hormones in iron transport, iron-metal competition in phytoremediation, root zone activities involving interactions between minerals and organic matter, the role of microbial siderophores in rhizospheric iron cycling, iron storage as phytoferritin, proteomic and metabolic studies associated with iron stress response, methods for studying iron metabolism including stable isotopes, and the correction of iron deficiency through the use of synthetic or natural chelates. Additionally, chapters summarize the use of Arabidopsis to enhance our understanding of the complex activities associated with iron metabolism in plants. This book should serve to stimulate continued exploration of iron activities in plant biology and rhizospheric environments.

作者介绍:

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