

1. Record Nr.	UNINA9910647226603321
Titolo	Greenhouse Management for Better Vegetable Quality, Higher Nutrient Use Efficiency and Healthier Soil // edited by Xiaohui Hu, Shiwei Song, Xun Li
Pubbl/distr/stampa	[Place of publication not identified] : , : MDPI AG , 2023
ISBN	3-0365-6302-4
Descrizione fisica	1 online resource (196 pages)
Disciplina	635.9823
Soggetti	Greenhouse gardening
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Special Issue Overview -- Author Contributions -- Funding -- Data Availability Statement -- Acknowledgments -- Conflicts of Interest -- References.
Sommario/riassunto	Greenhouse cultivation provides an artificially controlled environment for the year-round production of vegetables, and has played an increasingly important role in agriculture production systems in recent decades. Recent works have shown that improving greenhouse conditions can promote the growth of vegetables and enhance the uptake of nutrients, leading to better vegetable quality. Meanwhile, greenhouse conditions not only directly influence soil nutrient cycling processes and properties, but also indirectly affect them by regulating vegetable root growth and plant-soil interactions. This Special Issue features twelve original research articles that deal with the effects of novel greenhouse practices and strategies on the yield and quality of horticulture crops, as well as greenhouse soil properties. Among these publications, three studied the effects of fertilizers, including organic and macro- and micro-nutrient fertilizers, on the growth and nutrient uptake of vegetables. Two articles described the effects of water and nutrient supply using irrigation or hydroponic supplying systems on the yield and quality of vegetables. Four articles investigated the effects of environmental conditions (mainly light and temperature) on the growth and quality of vegetables. In terms of degenerated greenhouse soil, three articles showed how reductive soil disinfestation decreased soil

salinity, improved soil quality, and inactivated soil-borne pathogens.
