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Role of Vertical Farming in Modern Horticultural Crop Production

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Message from the Guest Editors

Vertical farming is a technology of growing crops in many stacked layers under fully-controlled environments, which can produce high yield and quality crops through the year. Indoor farm and plant factory with artificial light are another terms for describing vertical farm. With a rapid growth of the world population, the stable supply of high-quality, safe, and beneficial foods to humans is becoming import ant. Recently attention has been focused on vertical farms that meet these requirements.Although vertical farming has advantages such as intensive, planned, high quality, clean, and labor-saving crop production, regardless of time and space, it also has disadvantages such as excessive costs for initial investment and maintenance, difficulties in nutrition management, and the need for high value-added crops to improve economics. Therefore we need the knowledge and technologies necessary to establish relevant theories and industrialization. From academic and industrial perspectives, the role of vertical farming is becoming more important as a next-generation plant production system. This is why we are proposing the special issue of vertical farming.

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Message from the Editor-in-Chief

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