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Growth Control of Plants on the Light Environment

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Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editors

Solar radiation is one of the most important environmental factors for plant growth because it drives photosynthesis and other physiological processes such as photomorphogenesis and phototropism. For high light requirement crops such as tomato, paprika, aubergine, cucumber, berries, green beans, etc., sub-optimal levels of photosynthetic photon flux density (PPFD) and/or daily light integral (DLI) and/or photoperiod, easily found during out-of-season greenhouse crop cycles, compromise the yield and the quality of production. To solve these problems, on the first half of the twentieth century, an artificial light technique was introduced to increase horticulture crop performances. Nevertheless, the behavior of the crops upon application of supplemental lighting is influenced by numerous other factors: genotype, phenological stage, growth environment, agricultural technique, fertilization, etc.

Based on this, the aim of this Special Issue is to exchange knowledge on any aspect related to light effects on crop performances, sharing the best practices or the best supplemental or artificial light recipes to improve the development of this technology.

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Message from the Editor-in-Chief

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