Special Issue

Non-thermal Plasma a Powerful Tool in Agrofood Quality Management

Message from the Guest Editors

Cold plasma is a powerful physical method that generates active agents (ions, radicals and photons) originated from the partial ionization of a gas phase. The resulting plasmas have varied properties, such as surface sterilization, air purification, wound cleaning, or the inactivation of microorganisms. The last aspect makes cold plasmas a valuable technology in agrofood area. The cold plasma technology is eco-friendly, without the generation of polluting emissions or waste. In recent years, numerous studies have highlighted the potential of cold plasmas as controllers of microorganisms in seeds, fruits, vegetables and processed foods, as well as the promotion of plant growth. However, to achieve the transfer of this technology to the agricultural-productive sector, more studies are required to achieve regulatory approval and safety consideration. This Issue aims to present different independent developments in cold plasmas with direct application in agriculture and agrofood field. The most recent findings on effects of controlling seed pathogens, promoting germination and early plant growth, or crop yield are highlighted.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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