



Biodegradable Mulching Films: A Valuable Ally for Sustainable Agriculture

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Message from the Guest Editors

Mulching is an agricultural practice spread in farming systems for increasing crop productivity and quality by enhancing soil micro-climate, but also by controlling weeds. For several years, plastic films have been the preferred materials for soil covering, thanks to low cost, long lifetime, and technical properties. However, these films have a major limitation: their disposal at the end of utilization. These plastic materials must be removed from soil and recycled, but this practice is difficult and expensive. Consequently, the plastic is too often not recovered, thereby giving rise to uncontrolled dispersion.

In order to overcome these pollution problems, biodegradable mulching films may be the alternative to plastic films. They are composed of polysaccharides, and at the end of lifetime, can be incorporated into soil or be disposed into a composting system and be biodegraded. For this Special Issue, we encourage the submission regarding the following topics: (1) effect of biodegradable mulching films on crop yield and quality; (2) innovative approaches and materials for soil mulching; (3) economic and environmental evaluation of biodegradable mulching films.





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