Special Issue

Innovative and Effective Weed Management for Sustainable Cropping Systems

Message from the Guest Editor

In order to address the growing demand for agricultural products, weed management strategies in sustainable cropping systems should maintain the high control efficacy that is required to ensure high yields while minimizing environmental impacts. Several concurrent issues, such as the spread of herbicide-resistant biotypes and invasive species or the limited availability of new herbicides, are hindering this challenging task. Smart combinations, tailored to the different cropping systems, of both traditional and innovative control tactics seem the only feasible approach to achieve this ambitious goal. This Special Issue will collect original articles and reviews aimed at evaluating the efficacy and improving the implementation of traditional or innovative weed control tools and tactics. Specific topics could include but are not limited to precision herbicide spraying, weed detection, mechanical and physical control, cover crops, bioherbicides, or harvest weed seed control. Articles describing multi-year experiments for the evaluation or implementation of innovative control tactics under real field conditions are particularly encouraged.

Guest Editor

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