



Application of Allelochemicals in Agriculture

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Message from the Guest Editors

Dear Colleagues,

Population explosion has caused global food insufficiency, which has become an open challenge for the global agricultural community and researchers. In addition, agricultural production has always been threatened by the presence of plant pathogens and weeds. The latter cause severe economic damages in up to 34% of field crops. It has been shown that allelochemical compounds hold promise as an alternative to chemical herbicides and as a new source of biostimulants for enhancing crop production under stress conditions, contributing to sustainable crop management. Furthermore, the allelopathic effect of many allelochemicals has been well confirmed in the literature, but to our knowledge, few studies have been focused on their application in agricultural fields. That is why in this Special Issue, we wish to focus on the application of allelochemicals in agriculture. This may involve allelopathic activity tests under greenhouse conditions and in the field, as well as isolating and identifying allelochemicals suitable for application in agriculture as plant protection products and biostimulants.





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