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Ecological Risk Assessment of Pesticides

Guest Editor:

Dr. Shanshan Di

Institute of Agro-Product Safety and Nutrition, Zhejiang Academy of Agricultural Sciences, Hangzhou 310021, China

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Message from the Guest Editor

The wide use of pesticides brings many uncertainties for the ecological environment. Ecological risk assessment is crucial for evaluating the potential effects of pesticide on ecosystems, including evaluating toxicity, persistence, potential for bioaccumulation, and so on. The potential effects on non-target organisms such as birds, bees, aquatic organisms, and environmental matrices such as soil, water, and air should be considered. Ecological risk assessment also includes the comprehensive understanding on the specific characteristics of pesticides, the target organisms, the potential exposure pathways, the interactions between pesticides and the environment, and the long-term effects for the ecosystem. Chiral pesticides and their combined pollution are also worth a consideration. Ecological risk assessment will provide regulators, policymakers, and stakeholders with the information needed to make informed decisions about the use of pesticides, which plays a critical role in the rational use of pesticides and in minimizing their negative effects.



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Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

Message from the Editor-in-Chief

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Contact Us

Toxics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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