



Occurrence, Fate and Behavior of Pesticides in Soil, Water and Air

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Message from the Guest Editors

Pesticides comprise a powerful tool in agriculture. However, the indiscriminate misuse of these chemicals raises a special concern regarding the levels that occur in the environment and the degree that their occurrence, in total, endangers the safety of our ecosystem. The pesticides' fate and behavior in the environment depends on several parameters. Simulation models are used to predict the environmental concentrations, which are subsequently used for the ecotoxicological risk assessment and eventually for the establishment of safe regulatory limits.

This Special Issue aims to solicit original contributions providing data on the occurrence of pesticides' residues in soil, sediment, groundwater, surface water, air and biota: 1) apply different fate models to the calculations or predict environmental concentrations; 2) the identification and quantification of pesticides and their (bio)transformation products in the relevant environmental compartments with high resolution analytical methods; 3) the use of monitoring data in the environmental risk assessment and the regulatory procedure for pesticides.





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Message from the Editor-in-Chief

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