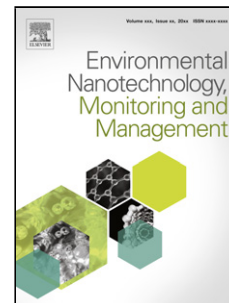


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Organophosphorus pesticides residues in food and their colorimetric detection

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Highlights

- Global consumption and toxicological effects of residual pesticides are reviewed
- Advancements in extraction and cleanup methods and analytical techniques for the residual pesticides are discussed
- Application of nanotechnology in designing simple and fast colorimetric methods are reviewed
- Challenges and future prospects for detection and removal of pesticides from various food matrices are proposed

Abstract

Pesticides are enormously used to control the pests in agriculture, industry and human premises.

Agricultural production has been significantly increased with the help of pesticides but their

uncontrolled and excessive use is polluting the environment, food, water and agricultural

products. Presence of pesticides residues in food products and human milk is the alarming sign to

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