Special Issue

State-of-the-Art Technology for Rapid Detection of Pesticide/Chemical Residues in Foods

Message from the Guest Editor

Due to the excessive use of chemical pollutants in food and agricultural products to meet the global demand for agricultural and animal products, pesticide and veterinary residues pose an increasing threat to ecosystems and human health. Therefore, the demand for the routine detection of these chemical residues in food and agricultural products has increased quickly all over the world. Immunoassay is suitable for rapid detection of a large number of samples, including immunochemical detection, the enzyme inhibition method, fluorescent turn-on probes, nanomaterial biosensors, surface-enhanced Raman spectroscopy, etc. These methods or platforms have become powerful analytical methods for the rapid detection of pesticide residues or chemical pollutants due to their several advantages, including synergy, systematic manufacturing procedures, ease of detection, and significant sensitivity and selectivity. Furthermore, some modern methods, such as portable electrochemical devices and optical smartphone-based sensors, have been fabricated recently for the point-of-care and on-site rapid detection of residues of pesticides and other chemicals.

Guest Editor

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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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