

Special Issue

Detection of Pesticide Residues in Agricultural Products

Message from the Guest Editors

This Special Issue aims to showcase innovations that enhance sensitivity, throughput, and ecological relevance. Suitable contributions will include those focused on (i) the development or validation of rapid multiresidue methods (e.g., LC-MS/MS, LC-QTOF, GC-MS/MS, or portable MS); (ii) the design of targeted high-sensitivity assays for difficult-to-analyze (“challenging”) pesticides, such as highly polar or thermolabile compounds; (iii) the characterization of residue dynamics, drift, and dissipation following conventional or drone spraying; (iv) the establishment/suggestion of the maximum residue level (MRL), pre-harvest interval (PHI), pre-harvest residue limits (PHRLs), or improved dietary risk assessment models; and (v) the integration of non-target screening, metabolomics, or machine learning for holistic exposure assessment. We particularly welcome interdisciplinary studies that link analytical advances with agronomic practices, regulatory frameworks, or toxicological and consumer risk perspectives, spanning crops, agricultural soils, irrigation waters, livestock feed, and edible insects.

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Message from the Editor-in-Chief

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