Special Issue

New Techniques for Extraction and Removal of Pesticide Residues

Message from the Guest Editor

During the last decade, the pervasive contamination of pesticides in agricultural ecosystems and food supply chains poses escalating threats to environmental integrity and public health. Conventional methods for pesticide residue analysis frequently encounter limitations in sensitivity, selectivity, and efficiency, particularly when addressing complex matrices or emerging contaminants. To mitigate these challenges, the development of advanced extraction and removal technologies has become imperative. These innovations aim to enhance detection accuracy, reduce processing time, and minimize secondary pollution while complying with global regulatory standards. This Special Issue focuses on disseminating cutting-edge research in pesticide residue analysis, emphasizing novel methodologies, such as nano-material-based sorbents, green solvent systems, molecularly imprinted polymers, and hybrid purification platforms.

Guest Editor

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