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Chemical Contaminants and Food Quality

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Deadline for manuscript submissions:

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Message from the Guest Editors

Thermal processing may lead to the formation of undesired toxic by-products, named thermal process contaminants. Several different contaminants (e.g., acrylamide, acrolein, furan/methylfurans, heterocyclic amine (HCA), 5-hydroxymethylfurfural (5-HMF), advanced glycation end products (AGEs, mainly CML and CEL) and glycidyl esters (GEs), etc.) have been identified in foods and have drawn great attention in recent years. Some contaminants share common precursor(s) and form concomitantly in foods during thermal processing. Additionally, in some cases, some contaminants can affect the formation of others significantly. Their concomitant formation mechanisms may be very complex and remain unclear. In addition, the synchronous mitigation of contaminants is still a difficult problem and needs to be conquered. Therefore, this field aims to elucidate the relation of concomitant formation and to develop effective methods for the synchronous mitigation of contaminants in future research. The manuscripts on the formation mechanism and (or) synchronous reduction of more than one contaminant are invited for this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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