

Special Issue on Household Chemicals and Indoor Air Quality

CALL FOR PAPERS

Diverse chemical substances are used to provide indoor comfort, and the usage patterns of these products vary greatly depending on regional and cultural characteristics. However, the increasing number of household chemical products has raised questions about their safe uses. As demonstrated in the case of the humidifier disinfectant disaster in South Korea, the unsafe use of household chemical products can result in serious public health problems.

Unlike the classical assessment of chemical exposure and risks, providing safe use guidelines for household chemical products is very challenging because they are usually present as mixtures in products, and diverse chemical reactions leading to harmful secondary products are also expected to occur in the indoor environment. The diverse patterns of usage of household chemicals add further complexity to the assessment of their exposure and health consequences. Recent advances in monitoring, modeling, and assessment methods should be integrated to address these complex issues in diverse exposure scenarios.

This Special Issue aims to provide strategies for the qualitative or quantitative assessment of household chemicals (such as insecticides, disinfectants, etc.) in the indoor air environment; to explore associations of exposure to these airborne chemicals and their health outcomes; and highlight possible interventions that mitigate the risk of these compounds improving indoor air quality. Original and review manuscripts in areas that facilitate the safe use of indoor household chemicals with scientific evidence are welcome.

Potential topics include but are not limited to the following:

- ▶ Emerging chemicals of concerns originating from household products
- ▶ Recent advances in monitoring of household chemicals
- ▶ Recent advances in mathematical modeling of exposure to household chemicals
- ▶ Fate and exposure of chemicals and their transformation products in the indoor environment
- ▶ Assessing exposure and risks of chemical cocktails in the indoor environment
- ▶ Advances in regulatory approaches for chemicals in household products
- ▶ Strategies for qualitative and quantitative assessment of exposure and risks
- ▶ Perfluorinated substances in the indoor environment
- ▶ Safe use of biocidal products
- ▶ Effects of chemical mixtures in household products
- ▶ Transformation products: Identification, exposure, toxicity, and risk
- ▶ Intervention studies to mitigate exposure and risk

Authors can submit their manuscripts through the Manuscript Tracking System at <https://review.wiley.com/submit?specialIssue=587550>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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