Special Issue

Organic Peracids in Novel Environmental and Public Health Applications

Message from the Guest Editors

Organic peracids, such as performic and peracetic acids, are widely used in industrial applications requiring disinfection, sterilization, or a high oxidation potential. Even though both performic acid and peracetic acid were synthesized for the first time over 100 years ago, active research on their properties and potential uses has continued up to this day. An important driver in their use is the low tendency for the formation of disinfection by-products—a property not exhibited by many of the competing disinfectants and oxidizers. The scope of this issue includes all organic peracids and all of their environmental and health-related applications. Potential topics include:

- Research on synthesis or analytical methods of organic peracids;
- Disinfection/sterilization of surfaces (for instance, in healthcare or the food industry);
- Novel uses in water and wastewater treatment (such as advanced oxidation processes, ballast water treatment, and potable water disinfection); and
- Characterization and modeling of reactions of organic peracids.

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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