

Special Issue

Improving Process Safety in the Chemical Industry: Fundamental and Advanced Research

Message from the Guest Editors

This Special Issue aims to present recent progress on the prevention, mitigation and management of process hazards and risks leading to incidents, such as fire, explosion and toxic releases. The scope of this Special Issue is thus concerned with advancements of safety related to the use, storage, manufacture, handling, and transportation of highly hazardous chemicals. The topics include, but are not limited to, the following:

- Process safety management;
- Process safety culture;
- Fundamental issues of safety;
- Incident investigation;
- Design and reliability of protective systems;
- Process alarm management;
- Emergency planning;
- Process fires;
- Gas and dust explosions;
- Dispersion of toxic materials;
- Runaway reactions;
- Safety in decarbonized processes;
- Safety of chemical energy vectors (hydrogen, batteries, etc.);
- Inherently safer design;
- Human error/human factors;
- Risk assessment;
- Process safety education and training;
- Domino effect;
- Cascading events.

Guest Editors

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Deadline for manuscript submissions

closed (20 November 2024)



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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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