



## Risk Assessment and System Safety in the Process Industry

Guest Editors:

### Dr. Xinhong Li

Centre for Pipeline Risk and  
Reliability Engineering (CPRRE),  
Department of Safety  
Engineering, Xi'an University of  
Architecture and Technology,  
Xi'an, China

### Dr. Mingyang Yang

Department of Safety  
Engineering, Xi'an University of  
Architecture and Technology,  
Xi'an, China

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

This Special Issue pays particular attention to safety, risk and reliability in process industries, including theories, methods and engineering applications, to cope with the challenges of harsh environments, major accidents and new energy.

The potential topics include, but are not limited to, the following:

- Structural design method in harsh environments;
- Structural safety assessment of process facilities;
- Accident modeling in process operations;
- Risk identification, analysis, assessment;
- Emergency decision-making and management;
- Technical safety and loss prevention;
- Non-destructive detection technique for process facilities;
- Reliability assessment for process facilities;
- Transportation safety of emerging energy;
- Fault diagnostics and prognostics;
- Risk early warning;
- AI in safety and reliability;
- Resilience engineering.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Giancarlo Cravotto

Department of Drug Science and  
Technology, University of Turin,  
Via P. Giuria 9, 10125 Turin, Italy

## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

## Contact Us

---

*Processes* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)