

Special Issue

Fire Risk Assessment and Management for Ships and Offshore Structures

Message from the Guest Editor

Fire is a major risk for ships and offshore structures, with frequent accidents and severe losses. At present, the transportation industry is undergoing energy transformation, and the marine engineering industry is also conducting research on new energy resources.

These new types of combustibles have never been widely used at sea, making their quantitative assessment and the prevention of fire risk increasingly urgent. This Special Issue aims to explore the mechanisms, evolutionary paths, and isolation methods of fire risk in ships and offshore structures. Research areas may include but are not limited to:

- Enabling technologies for fire detection, such as smart sensors and instruments, communication technologies, and artificial intelligence;
- Fire risk assessment methodology and practice for complex systems, such as PCTC, cruises, etc.;
- Operation and maintenance strategies in terms of fire risk;
- Risk-based design principles for novel offshore systems, such as offshore renewable energy hydrogen production systems;
- Experimental techniques for ship and marine structure fires.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)



Fire

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.1



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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

Dr. Grant Williamson

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