

1. Introduction There have been serious accidents involving the sea transport of containerized dangerous goods in recent years, including a fire that resulted in a fatality and the loss ...

However, there are still few systematic studies on the public evacuation caused by HCLAs in China. Therefore, to explore the characteristics of hazardous chemical leakage accidents ...

The geometry layouts of operation container and storage room are presented in Fig. 4. The hydrogen production container is not included in CFD analysis since in this project, it is a commercial product ...

Consequence analysis and damage modelling of the AN explosion at Beirut port was carried out and analytical inference was generated relative to NASA's categorization of the accident.

A study of fire and explosion accidents in maritime transport found that 31% of fire and explosion accidents at sea were caused by fuel or lubricating oil leaks in the cabin, and looked ...

Accident analysis of the Beijing lithium battery explosion which According to the investigation report, it is determined that the cause of the fire accident of the energy storage system is ...

Analyzing the thermal runaway behavior and explosion characteristics of lithium-ion batteries for energy storage is the key to effectively prevent and control fire accidents in energy storage ...

Fire and explosion accidents occur frequently in tankers because they transport large quantities of dangerous cargo. To prevent fire and explosion accidents, it is necessary to analyze ...

This review explores the types and causes of lithium-ion battery accidents, categorizing them into leakage, fire, and explosion, often resulting from electrical, thermal, and mechanical abuses.

On the night of the explosion, a fire was reported to the fire brigade at the Tianjin Port Public Security Building. Firefighters arrived at the Ruihai warehouse yard within four minutes of the first reports, ...

Domestic and foreign scholars introduced accident analysis and safety evaluation methods for dust explosion to prevent the dangers generated by aluminum powder explosions. These ...

Fire and explosion accidents onboard may pose hazards for human life and the maritime environment. In this context, performing a comprehensive risk assessment is of paramount ...

Analysis of solar container explosion accident

The results show that leakage accident of the 90 MPa hydrogen storage tank cause the greatest harm in hydrogen explosion. The farthest harmful distance caused by explosion is 35.7 ...

The cause of accidents and explosion simulation analyses were used to investigate the sources of steam explosions in a slag yard. The explosion intensity of 4 kg of TNT was measured for ...

This study presents a detailed review and analysis of fire and explosion accidents that occurred in the maritime transportation industry during 1990-2015. The underlying causes of fire and ...

On August 9, 2024, a shocking fire and explosion incident occurred at the Port of Ningbo-Zhoushan in Zhejiang Province, involving the Liberian-flagged container ship M. The accident ...

By combining these findings with the energy storage accident analysis report and related research, the following recommendations and countermeasures have been proposed to ...

Effective measures were taken to reduce the range and intensity of the explosion and thus to mitigate the consequences of the accident. This measure reduced the damage radius of the ...

As a key link in the upstream of the hydrogen energy industry chain, a hydrogen refilling station is critical to ensure the safety and sustainable development of hydrogen energy, to deeply ...



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