Marine anti-corrosion pressure relief port for energy storage container

Can coatings improve the corrosion resistance of materials in marine environments?
Several papers within this issue focus on novel coatings and surface treatments that improve the corrosion resistance of materials in marine environments. For instance, Linder et al. 1 investigate the corrosion resistance of additively manufactured (AM) aluminium alloys, which exhibit significant potential for marine applications.

Can surface treatments improve corrosion resistance in marine environments?
The application of advanced techniques,such as sol-gel treatments,plasma ion nitriding,and additive manufacturing (AM),allows for the development of future corrosion-resistant materials. Several papers within this issue focus on novel coatings and surface treatments that improve the corrosion resistance of materials in marine environments.

What energy storage technologies can a seaport use?
Thanks to the rich energy sources,ports,especially large seaport integrated energy systems,can apply various energy storage technologies such as electric energy storage,thermal energy storage,natural gas storage,and hydrogen storage.

What are the research trends on corrosion prevention in marine environments?
Research trends on corrosion prevention in marine environments: a bibliometric analysis. Among the most cited keywords are "corrosion prevention," "steel corrosion," and "seawater corrosion," reflecting the primary focus of the analyzed research,which deals with preventing steel corrosion in contact with seawater.

Why is corrosion important in the marine environment?
Marine environments present some of the most challenging conditions for structural materials. Continuous innovation and fundamental understanding of corrosion mechanisms are essential in order to mitigate degradation.

Can microbial corrosion be prevented in marine environments?
Microbial corrosion is a crucial challenge for the durability of metallic and concrete structures in coastal areas (X. Sun et al.,2024). Various methods are employed to study ways to prevent corrosion in marine environments.

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