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Title: Corrosion-resistant photovoltaic energy storage container for water plants

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The usage of molten salt in concentrated solar power plants leads to corrosion in energy storage container materials. However, the effect of temperature, duration and environmental conditions ...

In this project, our goal is to demonstrate that castable cements can be used to make flanged pipe sections. This will offer a lower cost alternative to nickel alloys such as Haynes 230, to form a ...

The molten salt thermal energy storage system is the most important composition of concentrating solar power plants, resulting in the corrosion behavior of alloys in molten salts is ...

Fig. 1 Concentrated solar power plants with molten salts as TES and HTF materials (source: US Department of Energy Report: The Year of Concentrating Solar Power, DOE/EE-1101, May ...

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There are more studies on the corrosion of inorganic PCM and this type of corrosion widely exists in many energy storage fields, such as solar thermal storage systems ...

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