

Libreville Photovoltaic Container High Temperature Resistant Type





Overview

Are thermophotovoltaics a viable energy conversion technology?

99. Lee, B. • Lentz, R. • Burger, T. Recently, thermophotovoltaics (TPVs) have emerged as a promising and scalable energy conversion technology. However, the optical materials and structures needed for ultra-high temperature operation ($>1,800^{\circ}\text{C}$) have been lacking.

What is ultra-high temperature Thermophotovoltaics (TPVs)?

In this perspective, we present a new approach to ultra-high temperature thermophotovoltaics (TPVs), which involves bilayer structures that combine the optical and thermal properties of nearly 3,000 coating/substrate pairs.

Are refractory metals a good TPV emitter?

Refractory metals are generally good candidates for TPV emitters because they are thermally stable at ultra-high temperatures in inert atmospheres. 11,49,50 For GaSb-TPV systems, W provides some spectral selectivity due to its wavelength dependence of the refractive index, which is why it is a common emitter in TPV applications.



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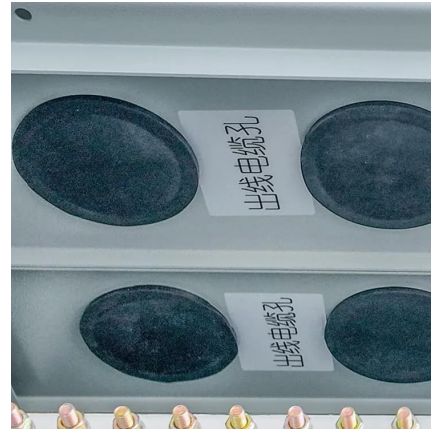
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