

Solar glass hafnium target





Overview

How are thin films of hafnium deposited on Si (100) substrates?

Samples preparation Thin films of hafnium and hafnium carbide were deposited on Si (100) substrates by a balanced reactive magnetron sputtering system using a hafnium (Hf) target with 99.9% purity, dia. of 75 mm and thickness of 6 mm.

What is hafnium carbide?

Thanks to the knowledge of the hafnium carbide film properties, this material can be included in the design and fabrication of optical structures for applications that require high operating temperatures, such as in thermo-photovoltaic and solar thermal devices, as well as in thermal energy grid storage.

How are hafnium carbide thin films prepared?

In the present work, five hafnium carbide thin films were prepared using a Hf cathode in a direct-current (DC) magnetron sputtering apparatus. The depositions were performed in reactive sputtering mode, i.e., by introducing C_2H_2 gas into the process.



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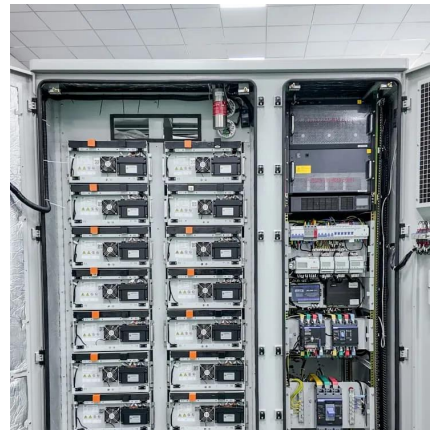


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