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Chromium telluride thin film solar modules

Overview

What is cadmium telluride (CdTe) thin-film solar cell?

Show Author Information Cadmium telluride (CdTe) thin-film solar cell is one of the most promising thin-film solar cells due to its low cost, small temperature coefficient and excellent weak light performance. It is rapidly developed for industrialization, especially in the field of photovoltaic building integration.

What is cadmium telluride (CdTe) photovoltaic (PV)?

The United States is the leader in cadmium telluride (CdTe) photovoltaic (PV) manufacturing, and NREL has been at the forefront of research and development in this area. PV solar cells based on CdTe represent the largest segment of commercial thin-film module production worldwide.

What are cadmium telluride solar cells?

Cadmium telluride solar cells are the world’s leading thin-film photovoltaic technology. As of 2023, global installed capacity has surpassed 30 GWp, with about 40% of that capacity located in the United States. Their architecture can be simplified into several stacked layers, from bottom to top:.

What is CdTe thin-film solar cell?

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