

SolarTech Power Solutions

Perovskite solar cell components



Overview

The name "perovskite solar cell" refers to the ABX_3 of the absorber materials, called , where A and B are and X is an . A cations with radii between 1.60 and 2.50 Å have been found to form perovskite structures. The most commonly studied perovskite absorber is $(CH_3NH_3PbX_3)$, where X is a ion such as

A perovskite solar cell (PSC) is a type of solar cell that includes a perovskite-structured compound, most commonly a hybrid organic-inorganic lead or tin halide-based material as the light-harvesting active layer. [1][2] Perovskite materials, such as methylammonium lead halides and all-inorganic cesium lead halide, are cheap to produce and simple to manufacture.

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