

Metal-organic frameworks (MOFs) are crystalline porous structures formed by strong coordination bonds between inorganic metal ions and organic ligands or linkers that form 1D, 2D and ...

This review summarizes the multifaceted role of metal clusters in advancing solar cell technologies, including the use as electron transport materials, interfacial modifiers, molecular precursors to ...

Stable and efficient full-printable solar cells using inorganic metal oxide framework and inorganic perovskites
Applied Materials Today (IF 6.9) Pub Date : 2020-05-28, DOI: ...

Organic-inorganic metal halide perovskites are demonstrated to be promising materials in a variety of optoelectronic applications including photodetection, energy harvesting, and light-emitting devices. As ...

Solar production of chemical fuels through photoelectrochemical reactions is an emerging and alternative approach to harvesting solar energy in a more green and sustainable way. Recently, ...

Container materials are preferably stainless steel and aluminum for organic and inorganic PCMs to avoid corrosion. PCM container geometry and orientations are practical passive ...

In this paper, we have carried out a simulation and experimental based study of Cs₂SnI₆-based solar cell with all inorganic transport materials, ZnO as the ETL and MoS₂ as the HTL.

The addition of fins increases the melting rate significantly, followed by nanoparticles and the container's orientation. The variation of the container's geometry and its orientation improves ...

Recent technological advances and increasing energy demands have triggered the development and synthesis of novel materials for efficient energy storage and conversion devices in ...

Latent heat energy storage system is one of the promising solutions for efficient way of storing excess thermal energy during low consumption periods. One of the challenges for latent heat ...

All transparent solar cells were achieved by solid-state method. This dry-process ensures the long-term working device stability without any complex packaging processes of wet-type ...

Metal halide perovskites have attracted tremendous interest because of their unique properties. Among these materials, organic-inorganic metal halide perovskite solar cells (PSCs) exhibit a rapid ...

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Inorganic metal solar container materials

materials, organic-inorganic metal halide perovskite solar cells (PSCs) ...

