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Here, we have attempted to deliver an extensive overview of the synthetic methodologies of hybrid nanofluids and their potential in PV/T and solar thermal energy systems.

To address the scalability and cost issues of PbS CQD photovoltaics, we developed a solution chemistry engineering (SCE) ...

Here, we systematically review the design strategies of colloidal soft matter-based energy storage devices, covering the optimization of key components such as electrolytes and ...

Colloidal solar cells, often referred to as perovskite solar cells, utilize unique materials with a perovskite crystal structure, which enables them to convert sunlight into ...

This collection aims to bring together cutting-edge research on the synthesis, characterization, and application of colloidal nanoparticles in energy harvesting and storage.

Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules - Nature Energy. from the generation and storage of energy, to its ...

This review delves into the latest developments in integrated solar cell-energy storage systems, marrying various solar cells with either supercapacitors or batteries. It ...

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In this review, we discuss the chemical synthesis methods and the properties of these QDs and emphasize their applications in solar cells, solar-driven hydrogen production, and luminescent ...

Colloidal solar cells, often referred to as perovskite solar cells, utilize unique materials with a perovskite crystal structure, which enables ...

Stability can be increased by using colloidal PVK nanocrystals (c-PeNCs), which have high surface strains, low defect density, and ...

Here, we have attempted to deliver an extensive overview of the synthetic methodologies of hybrid nanofluids and their potential in ...

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