

In this review, we discuss the studies that focused on improving the permeability and antifouling properties of ceramic membranes by controlling their microstructure and surface characteristics, and ...

Ceramic matrix composites (CMCs) are high-performance materials suited for advanced power electronics. However, their high hardness, brittleness, and anisotropy bring great challenges to ...

The macro-encapsulated capsule concurrently enhances the thermal performance and prevents corrosivity due to high conductive ceramic container. It has been observed that the capsule ...

In recent years, high entropy ceramics have become one of the research hot spots in the ceramic field due to its superior high entropy characteristics, and the use of blast furnace slag as high ...

However, large and complex-shaped ceramic matrix composite parts are greatly influenced by factors such as the molding process, preparation costs, and consistency of quality, which makes the joining ...

The aim of this study is to provide an insight into the development and application of building ceramic materials in modern architecture, and to assess the contribution of material innovation to architectural ...

Looking forward to the development trend of high-temperature stealth technology of ceramic matrix composites, it is proposed that the more attention should be devoted to combination ...

With the arrival of US President Donald Trump, the TPP agreement was canceled during this period, which is also a very rare opportunity for the development of China's ceramic industry. At the same ...

With the emergence of perovskite-based tandem solar cells and the development of advanced large-scale deposition techniques (e.g., screen printing, slot-die coating, and inkjet ...

Solar thermal power generation requires great heat storage devices and systems, and thermal storage materials significantly affect the efficiency of heat storage systems. A ceramic matrix ...

Various types of ceramics and ceramic matrix composites had been assessed for their applicability in solar thermal receivers, such as alumina, zirconia, mullite, silicon carbide, silicon ...

Beyond mechanical properties, system component materials have to exhibit desired CST technology related material proper-ties such as chemical inertness, particle abrasion resistance, ...

Development trend of solar container ceramic materials

Abstract With the increasing demand for sustainable building design, modern building ceramic materials are one of the key factors driving innovation and development in the field of architecture ...

Phase change materials and its applications if discussed generally can include their usage in residential buildings, which came a lot later after its development but growing at a fast rate. ...

The aim of the article is to provide a roadmap for stakeholders such as industry, academia and funding agencies on research and development in additive manufacturing of ceramic ...

Abstract With the increasing demand for sustainable building design, modern building ceramic materials are one of the key factors driving innovation and development in the field of architecture, thanks to ...

However, due to unstable and intermittent nature of solar energy availability, one of the key factors that determine the development of CSP technology is the integration of efficient and cost ...



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