

The lower phase-forming temperature of magnesium titanate,  $\text{MgTiO}_3$ , means that it can be used to replace magnesium ions with cobalt ions at 0.05 mole when a mixture of diverse low melting point ...

This present study produced a red-emitting phosphor (REP) made of magnesium titanate ( $\text{MgTiO}_3$ ) doped with manganese cations ( $\text{Mn}^{4+}$ ) using the sol-gel method. X-ray diffraction ...

Magnesium titanate (MT) is an important dielectric ceramic material. It is necessary to investigate the solar reflectance effect of MT particles in practical application areas.

Abstract Fresnel's law and Maxwell's equation indicate that the greater the dielectric constant of the material, the greater the refractive index of the material, which makes the material present higher ...

Li et al. [23] showed the heat storage performance of magnesium hydroxide doped with cerium nitrate and lithium hydroxide. These two additives can decrease both the activation energy ...

Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/ carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species Zhifeng Jianga,b,1, Bo ...

Tetrabutyl titanate, diethanol amine, magnesium acetate tetrahydrate ( $\text{Mg}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ ) and anhydrous ethanol were purchased from Sinopharm Chemical Reagent Corporation ...

The introduction of silica, together with magnesium oxide or magnesium titanate does not cause significant changes in the temperature of the thermal effect on the DSC curves (Fig. 1a). In ...

Abstract Solar energy is an important renewable source of energy with many advantages: it is unlimited, clean and free. The main objective of this work was to sinter magnesium ...

Fresnel's law and Maxwell's equation indicate that the greater the dielectric constant of the material, the greater the refractive index of the material, which makes the material present higher solar reflectance. ...

Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species Zhifeng ...

The significance of magnesium titanate ( $\text{MgTiO}_3$ ) in electronic applications is discussed, with a focus on its exceptional dielectric properties and the challenges in achieving phase purity and ...

Mentioning: 10 - Magnesium titanate as a new high solar reflectance pigment to fabricate cooling engineering

composites for energy saving areas - Sun, Haoxuan, Tao, Yiyi, Zhang, Jun

The synthesis of magnesium titanate (MgTiO<sub>3</sub>)-based ceramics via high-temperature solid-state reactions between MgO and TiO<sub>2</sub> has unlocked a pathway to achieving desirable ...

Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species Applied Catalysis B: ...

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Abstract Magnesium-ion battery (MIB) is evolving as a promising substitute to lithium-ion battery (LIB), presenting higher energy density, essential safety, longer cycle life, ...

Magnesium titanate particles were used for energy saving areas for the first time. The cooling engineering composites were prepared by combining magnesium titanate particles with ...

The global Magnesium Titanate Market is experiencing steady expansion, driven by its critical role in advanced ceramics and electronic applications. According to recent industry ...

Conclusions In conclusion, undoped magnesium titanate and calcium doped magnesium titanate ceramics are synthesized by Solid State reaction technique. These materials exhibit major ...

Read "Magnesium titanate as a new high solar reflectance pigment to fabricate cooling engineering composites for energy saving areas, Journal of Alloys and Compounds" on DeepDyve, ...

High solar reflectivity inorganic particles magnesium titanate (MT) were adopted to fabricate reflectance coatings. The multilayer composite coatings were fabricated by multiple coating ...

1. Introduction As a kind of microwave dielectric material, magnesium titanate ceramic (MTC) with high quality factors (Qf) and low dielectric loss is widely applied in multilayer capacitors, ...

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