

Down-shifting phosphors on solar cells can increase light reflection due to the emission and scattering by the phosphor particles. This work proposes a packaged structure with gradient ...

We report a deep-trap ultraviolet persistent phosphor with thermoluminescence glow peaks beyond 500 K that exhibits intense and long-lasting ultraviolet luminescence under indoor ...

?????/ Solar Planting Container ???? / Product Description ??? ---- ?????? Planting Tray - Plant Growth Platform ?????PP????,????????????? Made of ...

Many progressive studies have been conducted to expand the family of light-conversion phosphors and exploit their application in sensitized solar cells, bringing emerging opportunities to ...

Based on the plane-wave pseudopotential method of density functional theory, it calculates and compares the electronic structure and optical properties of $\text{NaLi}_3\text{SiO}_4$ before and after ...

Using the many-body perturbation GW theory, we study the quasiparticle conduction-band offsets of phosphorene, a two-dimensional atomic layer of black phosphorus, and transition ...

One of the ways to deal with improving the exhibition of PV systems is to use the solar spectrum in solar cells efficiently. In a few words, we summarize the fundamental principles of two ...

The working principle of the solar photovoltaic lighting system is: during the period of sunlight, the solar cell group converts the collected solar energy into electrical energy; under the control of the control ...

This chapter is an attempt to investigate and develop single-phased white light-emitting phosphors essentially for potential applications in white light-emitting diodes (WLEDs) based on the ...

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