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Photovoltaic Properties of Thermally-Grown Selenium-Doped ...

In this work, the photovoltaic properties of selenium-doped silicon photodiodes were studied. Influence of illumination of the impurity absorption range on the current-voltage and spectral characteristics of the fabricated device were considered. The photoresponse dependencies on the electric intensity, current, and radiation power at the sample were observed.

Photovoltaic properties of thermally-grown selenium-doped ...

The responsivity of the photovoltaic solar cell is enhanced from 0.18A/W to 0.25A/W and/or the conversion efficiency increase from about 9% to about 14% due to irradiation effect. All treatments ...

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Photovoltaic properties of thermally-grown selenium-doped silicon photodiodes for infrared detection applications Oday A. Hammadi. Photonic Sensors, March 2015, Springer Science + Business Media; DOI: 10.1007/s13320-015-0241-4

Photovoltaic properties of thermally-grown selenium-doped ...

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For the design and improvement of such optical devices involving porphyrin layers, exact knowledge of the optical properties is desirable. Here, thermally grown thin films of different meso-tetraphenyl porphyrins (i.e. H₂ TPP, NiTPP, and CoTPP) on silicon are assessed by spectroscopic ellipsometry and atomic force microscopy. Optical constants were determined in the near-IR to near-UV spectral range.

Tunable optical constants of thermally grown thin ...

ZnS thin films were grown by thermal evaporation technique on soda lime glass substrates. Sample 1 and 2 were prepared by setting deposition current upto 25 A and 30 A, respectively.

(PDF) Analysis of the Structural and Optical Properties of ...

Silicon thermal oxide films are regularly grown in an oxygen atmosphere (dry process), which gives excellent interface properties with interface trap densities D_{it} below $4 \times 10^9 \text{ cm}^{-2} \text{ eV}^{-1}$ and surface recombination velocities below 15 cm/s on 1 μ cm floatzone silicon .

Properties of purified direct steam grown silicon thermal ...

Interface properties determined the performance of thermally grown GaN/Si heterojunction solar cells

Interface properties determined the performance of ...

clusters upon thermal annealing of P3HT/PCBM bulk Heterojunction Solar Cell. Solar Energy Materials and Solar Cells. 117, 1-8 O. Oklobia, and T. Sadat-Shafai, (2013). A study of donor/acceptor interfaces in a blend of P3HT/PCBM solar cells: Effects of annealing and PCBM loading on optical and electrical properties.

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Investigations of Thermally Induced Morphology in P3HT ...

The approach to harvesting solar energy is through the use of photovoltaics which directly convert solar energy, specifically solar energy above the band-gap of the solar cell, into electricity. In PV systems incoming solar flux below the band-gap and various loss mechanisms for energy above the bandgap result in heat generation, increasing the temperature of the cell and decreasing the cell efficiency.

Combined photovoltaic solar thermal systems (PVT ...

The effects of a thermal cycle annealing (TCA) process on the defects in GaAs and Al_xGa_{1-x}As solar cells on Si substrates are described in this paper. The defect density is reduced and the solar cell efficiency is improved by TCA. The defect density and the solar cell efficiency are evaluated in detail with respect to TCA temperature and Al composition.

Photovoltaic properties of an Al_xGa_{1-x}As solar cell ...

Production of inexpensive and promising light-absorbing materials is very important in photovoltaic device applications. In this study, we investigate the preparation of good-quality antimony selenide (Sb₂Se₃) thin films via thermal evaporation procedure with different thicknesses (241, 315, 387 and 429 nm). The analysis of the X-ray diffraction examination of the Sb₂Se₃ thin films ...

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Organic solar cells based on P3HT: PCBM bulk heterojunctions show promise for high power conversion efficiencies. The properties of composite donor polymers and acceptor materials play a

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significant role; hence the need for optimised bulk heterojunctions active layer morphologies is critical for efficient devices. To achieve optimised bulk heterojunctions, compositional factors and processing ...

Investigations of Thermally Induced Morphology in P3HT ...

To study the capability of the CdSe thin films to use as an absorber layer in semi-transparent thin film solar cells, the structural, optical, electrical and photovoltaic properties of thermally evaporated CdSe thin films (thickness 300 nm) as a function of silver-doping were investigated.

Effect of Ag-doping on the structural, optical, electrical ...

The morphological, thermal, and rheological properties of potato starch from three cultivars in the State of Sonora, Mexico, are evaluated. Content of starch, moisture, purity, and amylose vary from 11.8% to 14%, 9.2% to 11.2%, 78.2% to 83.0%, and 20.0% to 29.9%, respectively. The size and shape of the starch granules are similar among the ...

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