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Oday A. HAMMADI : Photovoltaic
Properties of Thermally -Grown Selenium-
Doped Silicon Photodiodes for Infrared
Detection Applications 153 . The high

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photosensitivity of the Si p-n structure has been presented in the previous work [9 – 12]. In the present paper, the results of 3 μm 5 μm illumination of -doped silicon pthe selenium -n

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Grown Selenium-Doped ...

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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

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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

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infrared detection applications Oday A.
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10.1007/s13320-015-0241-4

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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

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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

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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

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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 cm floatzone silicon .

Properties of purified direct steam grown silicon thermal ...

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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

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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.

Investigations of Thermally Induced

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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

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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

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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.

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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

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with different thicknesses (241, 315, 387 and 429 nm). The analysis of the X-ray diffraction examination of the Sb_2Se_3 thin films ...

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Organic solar cells based on P3HT: PCBM bulk heterojunctions show promise for high

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power conversion efficiencies. The properties of composite donor polymers and acceptor materials play a 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 ...

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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

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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

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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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