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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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Abstract: In this work, the photovoltaic properties of selenium-doped silicon photodiodes were studied. Influence of illumination of impurity absorption range on current-voltage and spectral characteristics of the fabricated device was considered.

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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 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

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solar cells: Effects of annealing and PCBM loading on optical and electrical properties.

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 significant role; hence the

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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 ...

I have great pleasure in presenting the Proceedings of the 10th European Photovoltaic Solar Energy Conference held in Lisbon from 8 to 12 April 1991. These Proceedings contain all the scientific papers delivered at the Conference. The following is a short summary of the Conference activities. The Conference was opened by the Minister of Industry and Energy of Portugal, Eng. Luis Mira do Amaral. At the opening ceremony the Becquerel Prize, created by the Commission of the European Communities, was awarded to Professor Werner Bloss of the University of Stuttgart, and presented

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by Professor Philippe Bourdeau, Director at the Directorate-General for Science, Research and Development. The Becquerelle lecture delivered by Professor Bloss constituted the scientific opening to the conference. About 760 delegates from 53 countries presented around 350 contributions, 50 of them as plenary lectures; the contributions were selected among the many papers submitted, this time more strictly than ever before. Also a selected group of scientists were invited to deliver 15 review lectures, to provide an adequate context to the contributions to the Conference. A Symposium on Photovoltaics in Developing Countries, which was very well attended, took place as a parallel event. The Symposium provided an opportunity to hear not only experts of the industrialized countries, but also speakers from the countries where photovoltaics provides services of paramount value.

Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-

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up criteria.

A bird's-eye view of the developmental trends and problems of recent photovoltaics is presented. The worldwide effort to develop high-efficiency low-cost PV modules, making use of most efficient solar cells and clever low-cost solar concentrators is described.

The fourth book of the four-volume edition of 'Solar cells' consists chapters that are general in nature and not related specifically to the so-called photovoltaic generations, novel scientific ideas and technical solutions, which has not properly approved. General issues of the efficiency of solar cell and through hydrogen production in photoelectrochemical solar cell are discussed. Considerable attention is paid to the quantum-size effects in solar cells both in general and on specific examples of super-lattices, quantum dots, etc. New materials, such as cuprous oxide as an active material for solar cells, AlSb for use as an absorber layer in p-i-n junction solar cells, InGaAsN as a promising material for multi-junction tandem solar cells, InP in solar cells with MIS structures are discussed. Several chapters are devoted to the analysis of both status and perspective of organic photovoltaics such as polymer/fullerene solar cells, poly(p-phenylene-vinylene) derivatives, photovoltaic textiles, photovoltaic fibers, etc.

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