Turkish Journal of Physics

Turkish Journal

Effect of rf power on the electrical properties of glow-discharge a-Si:H

of

Physics

Hüseyin TOLUNAY
Hacettepe University, Department of Physics Engineering,
06532 Beytepe, Ankara-TURKEY



<u>Abstract:</u> Hydrogenated amorphous silicon films were prepared in an rf glow-discharge system by decomposing undiluted silane at various rf power densities. Dark conductivity and photoconductivity of the films have been measured in the temperature range 420K-100K at four different photon fluxes. It was observed that both dark conductivity and photoconductivity increase with increasing rf power density.

<u>Key Words:</u> A. Dark conductivity; B. Photoconductivity; Rf power density; D. Activation energy; E.Hydrogenated amorphous silicon.



Turk. J. Phys., 26, (2002), 25-28.

Full text: pdf

Other articles published in the same issue: Turk. J. Phys., vol. 26, iss. 1.

Scientific Journals Home
Page

phys@tubitak.gov.tr