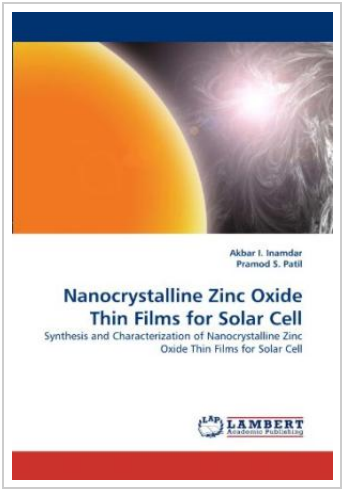

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Nanocrystalline Zinc Oxide Thin Films for Solar Cell

By Inamdar, Akbar I. / Patil, Pramod S.

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Synthesis and Characterization of Nanocrystalline Zinc Oxide Thin Films for Solar Cell | Zinc oxide has attracted considerable attention due to its good optical, electrical, and piezoelectric properties and its potential applications in diverse areas. The novel functions of ZnO nanostructures arrays have been revealed successfully in the solar cells, gas sensors, piezoelectric, photodetectcors, LED, field emitters and so on. Films with well-aligned ZnO nanorods or nanowires may exhibit much larger surface areas than ZnO films prepared from randomly oriented nanoparticles. A plethora of physical and chemical methods have been used for the synthesis of ZnO nanostructures including physical and chemical techniques. Electrodeposition is of particular interest due to low cost, environmental friendly, and feasibility of room temperature growth. The central idea of this work is to test the applicability of simple and inexpensive electrodeposition technique as an update on previously studied methods for the synthesis of nanocrystalline ZnO thin films for solar cell. In this direction the attempts were made to fabricate zinc oxide nanocrystalline thin films by varying various process parameters and by using novel approaches, as well. | Format: Paperback | Language/Sprache: english | 245 gr | 220x150x9 mm...

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