



Effect of solution molarity on the structural, optical, electrical and photo-response properties of SILAR-deposited ZnO films

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ABSTRACT

Cost effective SILAR method was employed to deposit ZnO thin films on glass substrates for thin film UV photodetector applications. The dependence of the film properties such as structure, morphology, optical and electrical properties on the cationic precursor molarity is investigated in detail. When the solution molarity was increased from 0.1 M to 0.2 M, the crystallite size was found to increase by 270%. It was noted that the films had nearly stoichiometric composition. The SEM images revealed the presence of rod or needle-like structures in the films. The optical energy band gap of the films is slightly modified while the PL spectra showed reduced defect states and enhanced UV emission at higher molarities. The samples responded strongly to wavelengths in the near ultraviolet region. A 1400 times increase was observed in the current upon the UV illumination. The films exhibited persistent photocurrent.

1 Introduction

Currently, many wide bandgap thin film photodetectors are being extensively investigated due to their relatively superior spectral response characteristics in the UV region. Among them, Zinc Oxide (ZnO) seems to be one of the most promising candidates as it has the potential to replace other expensive wide bandgap semiconductor photodetectors such as GaN due to its low-cost of synthesis and simpler fabrication technology. The wide band gap of ZnO enables it to operate effectively in the UV region besides having

large transparency in the visible region. [1, 2] Apart from this, it shows several distinctive properties such as large exciton binding energy of 60 meV, which is higher than most other semiconductors. Being very abundant in nature, ZnO is a relatively low-cost material that can be deposited using simple deposition methods. It is a non-toxic and eco-friendly material with high electron mobility and good thermal and chemical stability [1–4].

However, ZnO also exhibits a well-known phenomenon called persistent photoconductivity (PPC). When energy of the incident photons exceeds the

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Solution Methods for Metal Oxide Nanostructures Rajaram S. Mane, Vijaykumar Jadhav, Abdullah M. Al-Enizi, 2023-06-27 Solution Methods for Metal Oxide Nanostructures reviews solution processes that are used for synthesizing 1D 2D and 3D metal oxide nanostructures in either thin film or in powder form for various applications Wet chemical synthesis methods deal with chemical reactions in the solution phase using precursors at proper experimental conditions Wet chemical synthesis routes offer a high degree of controllability and reproducibility for 2D nanomaterial fabrication Solvothermal synthesis template synthesis self assembly oriented attachment hot injection and interface mediated synthesis are the main wet chemical synthesis routes for 2D nanomaterials Solution Methods for Metal Oxide Nanostructures also addresses the thin film deposition metal oxides nanostructures which plays a very important role in many areas of chemistry physics and materials science Each chapter includes information on a key solution method and their application in the design of metal oxide nanostructured materials with optimized properties for important applications The pros and cons of the solution method and their significance and future scope is also discussed in each chapter Readers are provided with the fundamental understanding of the key concepts of solution synthesis methods for fabricating materials and the information needed to help them select the appropriate method for the desired application Reviews the most relevant wet chemical solution methods for metal oxide nanostructures including sol gel solvothermal hydrothermal co precipitation methods and more Addresses thin film deposition techniques for metal oxide nanostructures such as spray pyrolysis electrodeposition spin coating and self assembly Discusses the pros and cons of each solution method and its significance and future opportunities

Advanced Nanomaterials and Nanotechnology P. K. Giri, D. K. Goswami, A. Perumal, 2013-03-17 Nanoscale science and technology have occupied centre stage globally in modern scientific research and discourses in the early twenty first century The enabling nature of the technology makes it important in modern electronics computing materials healthcare energy and the environment This volume contains selected articles presented as Invited Oral Poster presentations at the 2nd international conference on advanced materials and nanotechnology ICANN 2011 held recently at the Indian Institute of Technology Guwahati during Dec 8 10 2011 The list of topics covered in this proceedings include Synthesis and self assembly of nanomaterials Nanoscale characterisation Nanophotonics Nanoelectronics Nanobiotechnology

Nanocomposites F Nanomagnetism Nanomaterials for Energy Computational Nanotechnology Commercialization of Nanotechnology The conference was represented by around 400 participants from several countries including delegates invited from USA Germany Japan UK Taiwan Italy Singapore India etc *Ceramic Abstracts* American Ceramic Society,1997

Engineered Materials Abstracts ,1992-07 [Metals Handbook: Materials characterization](#) ,1978 *Celebrating 20 Years of CICECO - Aveiro Institute of Materials - Current and future perspectives in the use of Material Sciences, Chemistry, and Photonics for a more sustainable future* Rute A. S. Ferreira,Verónica de Zea Bermudez,Vadim G. Kessler,Sidney J. L. Ribeiro,2023-11-22 **Materials Characterization** Ruth E. Whan,ASM International. Handbook Committee,1986

Annotation This volume provides you with an easily understood reference book on modern analytical techniques With over 950 illustrations and 95 tables the emphasis is on the practical rather than theoretical describing the most common applications and limitations of each method **JJAP** ,1993 *Japanese Journal of Applied Physics* ,1993 **Metals**

Handbook American Society for Metals,1986 **Metals Abstracts** ,1999 [International Aerospace Abstracts](#) ,1978 [Physics Briefs](#) ,1987 [Microstructural Characterization of Materials](#) David Brandon,Wayne D. Kaplan,2008-06-03

Microstructural characterization is usually achieved by allowing some form of probe to interact with a carefully prepared specimen The most commonly used probes are visible light X ray radiation a high energy electron beam or a sharp flexible needle These four types of probe form the basis for optical microscopy X ray diffraction electron microscopy and scanning probe microscopy *Microstructural Characterization of Materials* 2nd Edition is an introduction to the expertise involved in assessing the microstructure of engineering materials and to the experimental methods used for this purpose Similar to the first edition this 2nd edition explores the methodology of materials characterization under the three headings of crystal structure microstructural morphology and microanalysis The principal methods of characterization including diffraction analysis optical microscopy electron microscopy and chemical microanalytical techniques are treated both qualitatively and quantitatively An additional chapter has been added to the new edition to cover surface probe microscopy and there are new sections on digital image recording and analysis orientation imaging microscopy focused ion beam instruments atom probe microscopy and 3 D image reconstruction As well as being fully updated this second edition also includes revised and expanded examples and exercises with a solutions manual available at <http://develop.wiley.co.uk/microstructural2e> *Microstructural Characterization of Materials* 2nd Edition will appeal to senior undergraduate and graduate students of material science materials engineering and materials chemistry as well as to qualified engineers and more advanced researchers who will find the book a useful and comprehensive general reference source

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