

Cathodoluminescence Microscopy of Inorganic Solids

B. G. Yacobi and D. B. Holt

Cathodoluminescence Microscopy Of Inorganic Solids

Peter W. Hawkes, John C.H. Spence



Cathodoluminescence Microscopy Of Inorganic Solids:

Cathodoluminescence Microscopy of Inorganic Solids B.G. Yacobi,D.B. Holt,2013-06-29 Microcharacterization of materials is a rapidly advancing field Among the many electron and ion probe techniques the cathodoluminescence mode of an electron probe instrument has reached a certain maturity which is reflected by an increasing number of publications in this field The rapid rate of progress in applications of cathodoluminescence techniques in characterizing inorganic solids has been especially noticeable in recent years The main purpose of the book is to outline the applications of cathodoluminescence techniques in the assessment of optical and electronic properties of inorganic solids such as semiconductors phosphors ceramics and minerals The assessment provides for example information on impurity levels derived from cathodoluminescence spectroscopy analysis of dopant concentrations at a level that in some cases is several orders of magnitude lower than that attainable by x ray microanalysis the mapping of defects and the determination of carrier lifetimes and the charge carrier capture cross sections of impurities In order to make the book self contained some basic concepts of solid state physics as well as various cathodoluminescence techniques and the processes leading to luminescence phenomena in inorganic solids are also described We hope that this book will be useful to both scientists and graduate students interested in microcharacterization of inorganic solids This book however was not intended as a definitive account of cathodoluminescence analysis of inorganic solids In considering the results presented here readers should remember that many materials have properties that vary widely as a function of preparation conditions

Cathodoluminescence Microscopy of Inorganic Solids B. G. Yacobi,D. B. Holt,2014-01-15 Springer Handbook of Microscopy Peter W. Hawkes,John C.H. Spence,2019-11-02 This book features reviews by leading experts on the methods and applications of modern forms of microscopy The recent awards of Nobel Prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies Earlier Nobel Prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology Separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy In addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the Springer Handbook of Microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy Microanalysis of Solids B.G. Yacobi,L.L. Kazmerski,D.B. Holt,2013-06-29 The main

objective of this book is to systematically describe the basic principles of the most widely used techniques for the analysis of physical structural and compositional properties of solids with a spatial resolution of approximately 1 nm or less. Many books and reviews on a wide variety of microanalysis techniques have appeared in recent years and the purpose of this book is not to replace them. Rather the motivation for combining the descriptions of various microanalysis techniques in one comprehensive volume is the need for a reference source to help identify microanalysis techniques and their capabilities for obtaining particular information on solid state materials. In principle there are several possible ways to group the various microanalysis techniques. They can be distinguished by the means of excitation or the emitted species or whether they are surface or bulk sensitive techniques or on the basis of the information obtained. We have chosen to group them according to the means of excitation. Thus the major parts of the book are Electron Beam Techniques, Ion Beam Techniques, Photon Beam Techniques, Acoustic Wave Excitation and Tunneling of Electrons and Scanning Probe Microscopies. We hope that this book will be useful to students, final year undergraduates and graduates and researchers such as physicists, material scientists, electrical engineers and chemists working in a wide variety of fields in solid state sciences.

Luminescence and Related Properties of II-VI Semiconductors D. R. Vij, N. Singh, 1998. This volume provides the readers an in depth yet concise overview of the physico chemical structures, luminescence and related properties of II-VI compounds which are being utilised and exhaustively studied these days for their applications in LEDs, modern optoelectronic devices, flat EL screens and panels, infrared detectors, photovoltaic and thermal solar energy converters etc. The book therefore should be useful to a wide variety of people working in the field of luminescence and related properties of II-VI compounds i.e. advanced graduate students and serve as a review to researchers entering in this field and working on these materials. It should also be useful to solid state spectroscopists, lasers, physicists, electronic and illuminating engineering people and all those professionals using these materials.

Toward the Optimization of Low-temperature Solution-based Synthesis of ZnO Nanostructures for Device Applications Hatim Alnoor, 2017-10-06. One dimensional 1D nanostructures (NSs) of Zinc Oxide (ZnO) such as nanorods (NRs) have recently attracted considerable research attention due to their potential for the development of optoelectronic devices such as ultraviolet (UV) photodetectors and light emitting diodes (LEDs). The potential of ZnO NRs in all these applications however would require synthesis of high crystal quality ZnO NRs with precise control over the optical and electronic properties. It is known that the optical and electronic properties of ZnO NRs are mostly influenced by the presence of native intrinsic and impurities extrinsic defects. Therefore understanding the nature of these intrinsic and extrinsic defects and their spatial distribution is critical for optimizing the optical and electronic properties of ZnO NRs. However identifying the origin of such defects is a complicated matter especially for NSs where the information on anisotropy is usually lost due to the lack of coherent orientation. Thus the aim of this thesis is towards the optimization of the low-temperature solution based synthesis of ZnO NRs for device applications. In this connection we first started with investigating the effect of the precursor solution

stirring durations on the deep level defects concentration and their spatial distribution along the ZnO NRs. Then by choosing the optimal stirring time we studied the influence of ZnO seeding layer precursor's types and its molar ratios on the density of interface defects. The findings of these investigations were used to demonstrate ZnO NRs based heterojunction LEDs. The ability to tune the point defects along the NRs enabled us further to incorporate cobalt (Co) ions into the ZnO NRs crystal lattice where these ions could occupy the vacancies or interstitial defects through substitutional or interstitial doping. Following this high crystal quality vertically well-oriented ZnO NRs have been demonstrated by incorporating a small amount of Co into the ZnO crystal lattice. Finally the influence of Co ions incorporation on the reduction of core defects CDs in ZnO NRs was systematically examined using electron paramagnetic resonance (EPR).

Fluorescent Nanodiamonds

Huan-Cheng Chang, Wesley Wei-Wen Hsiao, Meng-Chih Su, 2018-09-12. The most comprehensive reference on fluorescent nanodiamond physical and chemical properties and contemporary applications. Fluorescent nanodiamonds (FNDs) have drawn a great deal of attention over the past several years and their applications and development potential are proving to be manifold and vast. The first and only book of its kind, *Fluorescent Nanodiamonds* is a comprehensive guide to the basic science and technical information needed to fully understand the fundamentals of FNDs and their potential applications across an array of domains. In demonstrating the importance of FNDs in biological applications, the authors bring together all relevant chemistry, physics, materials science, and biology. Nanodiamonds are produced by powerful cataclysmic events such as explosions, volcanic eruptions, and meteorite impacts. They also can be created in the lab by high pressure, high temperature treatment of graphite or detonating an explosive in a reactor vessel. A single imperfection can give a nanodiamond a specific isolated color center which allows it to function as a single trapped atom. Much smaller than the thickness of a human hair, a nanodiamond can have a huge surface area that allows it to bond with a variety of other materials. Because of their non-toxicity, nanodiamonds may be useful in biomedical applications such as drug delivery and gene therapy. The most comprehensive reference on a topic of rapidly increasing interest among academic and industrial researchers across an array of fields. Includes numerous case studies and practical examples from many areas of research and industrial applications as well as fascinating and instructive historical perspectives. Each chapter addresses in depth a single integral topic including the fundamental properties, synthesis mechanisms, and functionalisation of FNDs. The first book published by the key patent holder with his research group in the field of FNDs. *Fluorescent Nanodiamonds* is an important working resource for a broad range of scientists and engineers in industry and academia. It will also be a welcome reference for instructors in chemistry, physics, materials science, biology, and related fields.

Forensic Analysis on the Cutting

Edge Robert D. Blackledge, 2007-07-31. This title brings forensic scientists and chemists up to date on the latest instrumental methods for analysing trace evidence including mass spectrometry, image analysis, DIO, MS, ELISA, characterization, statistical validation, and others. Illustrates comparative analysis of trace evidence by both old and new methods. Explains why

some newer methods are superior to older established methods Includes chapters on analysis of DNA ink dyes glitter gun powder traces condom trace evidence footwear impressions toolmark impressions surveillance videos glass particles and dirt Discusses applications such as mass spectrometry image analysis desorption ionization on silicon mass spectrometry DIOS MS ELISA characterization and statistical validation *Journal of Computer-assisted Microscopy*, 1991 **Comprehensive Semiconductor Science and Technology**, 2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts **GaN and Related Alloys - 2002: Volume 743** Materials Research Society. Meeting, 2003-06-02 This year s nitride symposium showed the scope of nitride related advances spanning basic materials physics over process technology to high performance devices Progress was reported in bulk growth of GaN and AlN growth on various substrates and substrate orientations optical properties of InN defect and doping analysis of p doped GaN and polarization properties These led to new performance records in visible light emitter technology i e higher efficiency higher brightness UV emitters with shorter wavelength and UV and photo detectors Advances in the development of nitride based electronic devices with new heterostructure FET designs for RF power applications including those on Si substrates and wafer fusion are also reported This book captures the exciting developments in this rapidly progressing field Topics include epitaxy devices and defect reduction defects and characterization epitaxy nonpolar orientations and alloys optical properties UV emitters and detectors visible light emitters electronic devices characterization of defects and transport and contacts processing and p type nitrides *Optical Microstructural Characterization of Semiconductors: Volume 588* M. Selim Ünlü, 2000-04-17 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Japanese Journal**

of Applied Physics ,2004 **Applied Spectroscopy** ,2009 *Microscopy and Analysis* ,2005 **Progress in Semiconductor Materials for Optoelectronic Applications: Volume 692** Eric D. Jones,2002-06-19 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Flat-Panel Displays and Sensors - Principles, Materials, and Processes: Volume 558 Babu R. Chalamala,2000-05 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Nitride Semiconductors: Volume 482 Materials Research Society. Meeting,1998-04-20 This book is on recent experimental and theoretical progress in the rapidly growing field of III V nitrides Issues related to crystal growth bulk and thin films structure and microstructure formation of defects doping alloying formation of heterostructures determination of physical properties and device fabrication and evaluation are addressed Papers show much progress in the growth and understanding of III V nitrides and in the production of optoelectronic devices based on these materials Most exciting is the fact that light emitting diodes and laser diodes have now reached amazing levels of performance which forecasts a revolution in lighting optical storage printing and display technologies Topics include crystal growth bulk growth early stages of epitaxy crystal growth MOCVD growth techniques MBE and HVPE novel substrates and growth techniques structural properties electronic properties luminescence and recombination characterization elemental and stress analysis physical modelling device processing implantation annealing device characterization contacts degradation and injection laser diodes and applications

Calcium Doping of Gallium Nitride Lawrence Frederick Schloss,1997 **Luminescent Materials: Volume 560** Joanna McKittrick,Baldassare Di Bartolo,Kailash Mishra,1999-09-21 Luminescent materials are of interest to members of the spectroscopic basic science engineering and display communities This book presents a wide range of topics from basic research of fluorescence to applications driven research on phosphors and scintillators Papers on various luminescent fluorescent or phosphorescent mechanisms arising in inorganic crystalline and noncrystalline materials as well as in organic materials are featured The use of fluorescence as a sensing technique has emerged as a sensitive and noninvasive way to probe biological activity or measure physical phenomena To that end progress in understanding fluorescence the development of novel applications of fluorescence and novel material structures are addressed Phosphors for the emerging flat panel display industry are also highlighted Topics include inorganic phosphors thin film phosphors synthesis processing and characterization mechanisms and defects organic luminescence and theory and luminescence sensors

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