Wide Band Gap Semiconductor Nanowires For Optical Devices

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presenting the similarities and differences between gan and zno materials this book is devoted to the specific case of wires obtained from a given kind of semiconductors namely the semiconducting materials with a direct and wide band gap wbg

gan and zno nanowires can by grown using a wide variety of methods from physical vapor deposition to wet chemistry for optical devices this book starts by presenting the similarities and differences between gan and zno materials as well as the assets and current limitations of nanowires for their use in optical devices including feasibility and perspectives it then focuses on the nucleation and growth mechanisms of zno and gan nanowires grown by various chemical and physical methods finally it describes the formation of nanowire heterostructures applied to optical devices

this book the second of two volumes describes heterostructures and optoelectronic devices made from gan and zno nanowires over the last decade the number of publications on gan and zno nanowires has grown exponentially in particular for their potential optical applications in leds lasers uv detectors or solar cells so far such applications are still in their infancy which we analyze as being mostly due to a lack of understanding and control of the growth of nanowires and related heterostructures furthermore dealing with two different but related semiconductors such as zno and gan but also with different chemical and physical synthesis methods will bring valuable comparisons in order to gain a general approach for the growth of wide band gap nanowires applied to optical devices

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proceedings of the 2006 powder metallurgy world congress exhibition pm 2006 held in busan exhibition convention center bexco busan korea september 24 28 2006

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nanostructures of semiconductors and metals show novel optical and transport properties and offer the perspective of designing materials properties with unprecedented flexibility and control this has motivated research in the synthesis and characterization of new materials this 2004 book brings together scientists with various levels of expertise in the growth characterization and applications of inorganic nanostructures such as quantum dots nanowires and nanorods to discuss and share developments in the field reports focus on techniques to prepare and characterize novel materials investigations of novel optical and electronic properties and novel applications such as those that are biologically inspired topics include synthesis and characterization of semiconductor quantum dots nanoparticles and nanowires using wet chemistry and molecular beam approaches synthesis characterization and novel properties of metallic nanostructures optical properties of neutral and charged excitons and exciton complexes in self assembled quantum dots nanoscale devices and sensors based on nanostructures and their properties and design and characterization of quantum dot bioconjugates and their use in assay developments

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this book provides a benchmark for the state of the field of thermoelectric materials research and development highlights of the volume include results on superlattices that show a zt 2 4 at room temperature in p type bi2te3 sb2te3 superlattice thermoelectrics in addition preliminary results on p n couple devices from these superlattices indicate fast acting spot cooling in addition to improved performance thermoelectric materials are utilized in a wide variety of applications related to solid state refrigeration or small scale power generation the book focuses on traditional thermoelectric materials new materials as well as developments in device engineering many papers presented here revolve around either maximizing the numerator of z called the power factor or by minimizing l topics include guidance to advanced thermoelectric research skutterudites new materials approaches and measurements clathrates chalcogenides devices thermoelectric materials and devices research and development nanowires and oxides

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