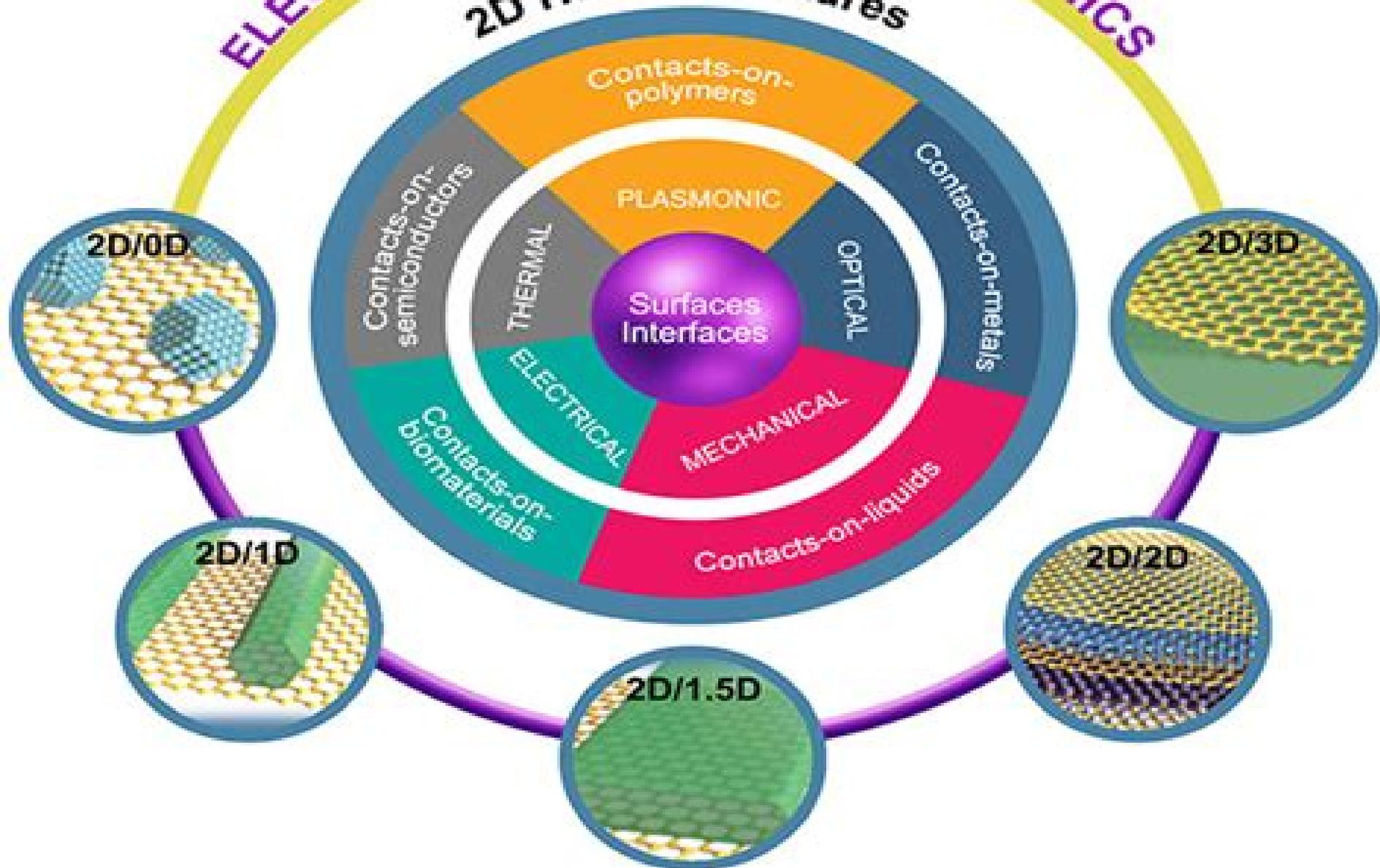


# ELECTRONICS AND OPTOELECTRONICS

## 2D Heterostructures



2D/0D

2D/3D

2D/1D

2D/2D

2D/1.5D

# Crystalline Oxidesilicon Heterostructures And Oxide Optoelectronics Proceedings

**D. G. Schlom**



## **Crystalline Oxide Silicon Heterostructures And Oxide Optoelectronics Proceedings:**

*Crystalline Oxide: Volume 747* D. G. Schlom, 2003-06-23 This book contains the proceedings of two symposia held at the 2002 MRS Fall Meeting in Boston. Papers from Symposium T Crystalline Oxides on Semiconductors bring together experts from different technology areas: high k gate dielectrics, novel memories and ferroelectrics, for example, to examine commonality among the fields. These papers offer an overview of the field, highlight interesting experimental results and device ideas, and feature innovative theoretical approaches to understanding these systems. Symposium V Interfacial Issues for Oxide Based Electronics covers a wide range of topics involving the interfaces between electro-optical oxide layers and other materials. Overall, it is clear that a new generation of materials and heterostructures has been enabled by the increasing control of interfacial phenomena. Topics include epitaxial oxide/silicon heterostructures, ferroelectric thin films on silicon, theory and modeling of crystalline oxides for gate dielectrics, transparent conducting oxides, transparent conducting oxides and oxide growth and properties, field effect devices and gate dielectrics, ferroelectrics, capacitors and sensors, organic devices and interfacial growth issues. *Index of Conference Proceedings* British Library. Document Supply Centre, 2003

**Optoelectronics of Group-IV-based Materials** Materials Research Society. Meeting, 2003. Elemental semiconductors feature fundamental advantages when compared to II-VI and III-V compounds. This is best illustrated by the success of silicon technology and also by the superior purity of germanium and MOCVD diamond. However, in contrast to electronics, the optical properties of these materials are inferior, and therefore their applications remain electronic rather than photonic. Nevertheless, an effort toward optoelectronics continues. In the case of silicon and silicon-based media, this is motivated by the almost unlimited possibilities offered by VLSI technology. Among other methods, quantum confinement in low-dimensional structures, optical doping, development of inhomogeneous media, and applications of microcavities are being vigorously explored as ways to improve emission. When brought to maturity, these approaches could lead to widespread applications ranging from telecommunications to chemical and biological sensing. For silicon, a full on-chip integration of electronic and photonic elements could be realized. This volume brings together researchers from academic, industry, and government laboratories around the world to review progress in the field, identify the most promising targets, point out possible bottlenecks, and assess future perspectives. A cross-fertilization of ideas from the fields of materials science, spectroscopy, solid state physics, and chemistry, as well as device physics, are presented. **Structure-property Relationships of Oxide Surfaces and Interfaces**, 2003. **Structure-Property Relationships of Oxide Surfaces and Interfaces II: Volume 751** Materials Research Society. Meeting, 2003-05-21. Because surfaces and interfaces found in oxide systems are strikingly complex, they can only be fully understood when examined at an atomic level. Yet for the materials scientist, such understanding is of paramount importance since future technological advances require it. This book, the second in a new series from the Materials Research Society, addresses structure-property relationships in these systems. Compared to the first

proceedings here we see a shift towards less well defined materials that often more closely resemble reality and an increasing effort to study these phenomena using in situ techniques Of particular interest are discussions on the dynamical evolution of surface structure and relationships between the structure of surfaces their stoichiometry and the distribution of bulk dislocations which in turn can control the growth and retraction of islands and pits Modeling and characterization of thin intergranular films with a focus on how these films influence the properties of so many ceramic materials are also addressed

**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

CMOS Front-End Materials and Process Technology: Volume 765 Materials Research Society. Meeting,2003-09-12 In the future because fundamental materials and process limits are being approached continued transistor scaling will not be as straightforward Future complementary metal oxide semiconductor MOS transistors will require high permittivity high k gate dielectrics and metal gate electrodes as well as low resistance ultrashallow junctions in order to meet the stringent specifications of the International Technology Roadmap for Semiconductors Techniques to improve transconductance and drive current may also be required Process integration issues must be solved and reliability must be assured before any new material or processing technique can be used in IC manufacture A further complication is that the key challenges will differ according to application This book reports research results from industry government labs and academia covering a wide scope of front end process issues for future CMOS technologies Topics include advanced materials and structures high k dielectrics advanced gate stack materials heterogeneous integration and strained Si technologies ultrashallow junction technology strained Si and source drain technology and laser annealing and silicide processes

Progress in Semiconductors II - Electronic and Optoelectronic Applications: Volume 744 B. D. Weaver,2003-04-16 Recent years have witnessed dramatic success in the development of semiconductor materials and related quantum structures for applications in electronics and optoelectronics Progress has also been made in manufacturable low cost high volume growth and processing of semiconductor materials for such device structures Novel approaches have been proposed to integrate

compound semiconductor devices with conventional silicon processing This book provides a comprehensive overview of the progress on growth properties and processing of semiconductor materials and quantum structures as well to underscore the progress on devices such as transistors light sources detectors and modulators Brought to maturity these devices will likely see widespread application in infrared imaging chemical and biological sensing surveillance short links space based applications solar cells high bandwidth communications and more Topics include electronic devices Si Ge devices and technology zinc oxide and related compounds emitters lasers and photovoltaics nanostructures innovative materials and devices detectors and III nitride materials and devices

*Three-Dimensional Nanoengineered Assemblies: Volume 739* T. M. Orlando, 2003-06-13 Advances in nanoscale materials processing are taking place at a rapid pace via myriad paths including lithography production of nanoparticle assemblies surface manipulation and many others Several of the techniques create structures that are three dimensional or quasi three dimensional Even smaller structures intended to be two dimensional have a more three dimensional geometry as their two dimensional feature size and layer thickness become similar The properties of these denser assemblies are driving different applications in electronics single electron devices optics photonic crystals and switches and elsewhere This 2003 book provides a venue for a productive scientific and technical exchange The result is a compilation of papers which address fundamental studies technological advances and novel approaches to developing and processing three dimensional nanoscale assemblies Topics include nanofabrication via lithographic techniques unconventional fabrication methods of nano structures physics chemistry and modeling of nanostructures fabrication and properties of 1D nanostructures fabrication and properties of 3D nanostructures applications of nanostructures and devices

**Amorphous and Nanocrystalline Silicon-Based Films - 2003: Volume 762** Materials Research Society. Meeting, 2003-11-12 Amorphous silicon technology has been the subject of symposia every year since 1984 This remarkable longevity is due to the continuous emergence of new scientific questions and new technological challenges for silicon thin films Earlier there was a strong emphasis on methods to achieve high deposition rates using plasma or hot wire chemical vapor deposition and on the properties and applications of nanocrystalline silicon films which for example have been incorporated into stacked a Si H nc Si H solar cells The papers appearing in this book are sorted under six chapter headings on the basis of subject matter Chapter I is concerned with amorphous network structures electronic metastability defects and photoluminescence Chapter II focuses on thin film transistors and imager arrays Chapter III covers solar cells Chapter IV addresses growth mechanisms hot filament CVD and nc Si H growth Chapter V contains all remaining topics in film growth especially those related to devices Finally Chapter VI focuses on crystallized film

Magnetoelectronics and Magnetic Materials - Novel Phenomena and Advanced Characterization: Volume 746 Shufeng Zhang, 2003-04 This book combines the proceedings of Symposium Q Magnetoelectronics Novel Magnetic Phenomena in Nanostructures and Symposium R Advanced Characterization of Artificially Structured Magnetic Materials both from the 2002 MRS Fall Meeting

in Boston The common focus is on artificially engineered nanostructured magnetic systems The two symposia address new phenomena in magnetoelectronic applications their preparation and advanced methodology for characterization Interest in nanomagnetism has been catalyzed by advances in two fields of research 1 Advances in materials synthesis of structures whose length scales transcend magnetic length scales and open the possibility for creating materials with new magnetic properties Such structures include interfaces superlattices tunneling devices nanostructures and single molecule magnets 2 Advances in sample characterization techniques for nano magnetism which allow detailed exploration of structure property relationships in nanostructured magnetic systems The volume highlights current trends in both fields and offers an outlook for further advances and new capabilities

**Advanced Optical Processing of Materials** Materials Research Society. Meeting,2003 Since the inauguration of the MRS symposium series on advanced optical processing of materials back in 1990 the number of optical based techniques applied to process materials and the capabilities of optical systems has continued to expand and improve beyond simple pulsed laser deposition of thin films In turn the scope of materials being investigated has also increased from oxide ceramics to include alloys polymers and bio materials Many of the most exciting areas presented in this interdisciplinary forum include current and future applications in engineering materials at the mesoscopic to nanometer scale optoelectronics biomaterials sensors and electronics Advanced optical processing of materials now includes laser interactions with materials that are specially designed to optimize the beneficial qualities of laser modification However femtosecond processing of materials emerged as the dominant theme this year and several papers on this topic are featured Another hot topic is one connected with biomedical applications the controlled delivery of drugs to increase their efficacy by coating a fluidized bed of drug powders with biodegradable polymers was realized by conventional pulsed laser deposition PLD and matrix assisted pulsed laser evaporation MAPLE or by microencapsulation

**Defect Properties and Related Phenomena in Intermetallic Alloys: Volume 753** Materials Research Society. Meeting,2003-06-25 Defects such as dislocations antiphase domains and grain boundaries interstitials substitutionals and vacancies affect many physical and mechanical properties of ordered intermetallics As a result they often play a decisive role in determining the macroscopic behavior of not just structural intermetallics but also functional intermetallics such as shape memory alloys and hydrogen storage materials This book follows in the general tradition of the highly successful series of MRS symposia titled High Temperature Ordered Intermetallic Alloys However it also represents a significant departure from its predecessors it includes papers on functional intermetallics in addition to papers on structural intermetallics and focuses on defects and how they affect various properties of interest in structural and functional intermetallics Roughly 30 percent of the papers in the book are on functional intermetallics including materials for hydrogen storage magnetic and shape memory applications The remaining papers deal with structural intermetallics including the still active areas of nickel iron and titanium aluminides as well as the newer materials for ultrahigh temperature applications

**Solid-State Ionics - 2002: Volume 756** Philippe

Knauth,2003-04-17 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Flexible Electronics--materials and Device Technology* Norbert Fruehauf,2003

**Quantum Confined Semiconductor Nanostructures: Volume 737** Victor I. Klimov,2003-04-16 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book brings together a single comprehensive overview of recent progress and future directions in nanoscale semiconductor research Fields ranging from materials science to physics chemistry electrical and microelectronic engineering circuit design and more are represented Membranes: Volume 752 Materials Research Society. Meeting,2003-04-11 The objective of this 2003 volume from the Materials Research Society is twofold to provide an overview of advances in membrane science and technology and to enhance communication among membrane researchers from a variety of disciplines including chemistry biology biotechnology chemical engineering and materials science Membranes can be used for inert or reactive separations in a variety of fields including gas purification water treatment energy storage and conversion bio technology and biomedicine The book brings together scientists involved in the entire spectrum of modern approaches to membrane science and technology to address synthesis characterization and transport properties and their use in established and emerging applications Topics include membrane synthesis and preparation surface modification and additives hybrid and composite membranes membrane characterization transport phenomena in membranes charged membranes and ion transfer gas permeation and separation pervaporation and vapor permeation dense membranes for hydrogen separation applications in biotechnology and biomedicine and membrane R D for industrial and emerging applications Nanotube-based Devices Patrick Bernier,2003 Touting the strong potential of nanotubes for industrial applications such as electrical leads rectifiers transistors actuators and cold electron sources a team of materials scientists from France South Korea Germany and the U S present the 33 papers from the April 2003 meeting The papers have been organized according to the themes of nanotube devices synthesis structural and electrical characterization functionalization and engineering and composite devices Annotation 2004 Book News Inc Portland OR booknews com **Novel Materials and Processes for Advanced CMOS: Volume 745** Mark I. Gardner,Materials Research Society,2003-03-25 Progress in MOS integrated circuit technology is largely driven by the ability to dimensionally scale the constituent components of individual devices and their associated interconnections Given a set of materials with fixed properties this scaling is finite and its predicted limits are rapidly approaching The International Technology Roadmap for Semiconductors establishes the pace at which this scaling occurs and identifies many of the technological challenges ahead This volume assembles representatives from the fields of materials science physics electrical and chemical engineering to provide an insightful review of current technology and understanding Specifically the intent is to discuss materials issues stemming from device scaling to sub 100nm technology nodes Topics include high k characterization atomic layer deposition gate metal materials and integration contacts and ultrashallow

junction formation theory and modeling and crystalline oxides for gate dielectrics *Solid-State Chemistry of Inorganic Materials IV: Volume 755* M. Á. Alario-Franco, 2003-08-14 Since its inception in the mid twentieth century solid state chemistry has matured within the chemical sciences In the same way that chemistry itself is considered a central science solid state chemistry is central in its many relations to physics in particular to solid state physics and also to materials science and engineering There are few problems in materials science or engineering in which the preparation of the material itself is not a central issue and more often than not this will be a solid state chemical problem For these reasons it is not surprising that in the technological development of the last century solid state chemistry has grown in importance It is not only a synthesis science it is also the science of structures defects stoichiometry and physical chemical properties Most of these are explored in the book Topics include metal to insulator transition porous materials dielectric materials nanomaterials synthesis of materials films and catalytic materials CMR materials thermoelectric materials dielectrics catalysts phosphors films and properties and synthesis and crystal growth

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