

S. Yoshimura
R. P. H. Chang
(Eds.)

Supercarbon

Synthesis, Properties
and Applications



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Supercarbon Synthesis Properties And Applications

Lei Huang



Supercarbon Synthesis Properties And Applications:

Supercarbon Susumu Yoshimura, R.P.H. Chang, 2013-11-11 The information revolution of the twentieth century was brought about by microelectronics based on a simple and common material silicon. Although silicon will continue to be of central importance in the next century, carbon, silicon's upstairs neighbor in the periodic table, will also be of great importance in future technology. Carbon has more flexible bonding and hence has various unique physical, chemical, and biological properties. It has two types of bonding, sp^3 and sp^2 , in diamond and graphite respectively. The existence of the latter 7 π electron bonding is responsible for carbon's versatile talents. Those materials having extended 7 π electron clouds are called 7 π electron materials. They include graphite, carbon nanotubes, fullerenes, and various carbonaceous materials. They may be called supercarbon because of their fabulous multiformity and versatile properties. This volume is a status report on the synthesis, properties, and applications of 7 π electron materials, representing an updated proceedings of the International Workshop on 7 π Electron Materials held at the Northwestern University, Evanston, Illinois, USA, August 13-14, 1996. The Workshop was organized jointly by the Japan Science and Technology Corporation (JST) and the Materials Research Center at the Northwestern University (NWU) in order to provide an opportunity for scientists and engineers to meet and discuss the latest advances in this field and in commemoration of the Yoshimura 7 π Electron Materials Project, one of Japan's national projects in the JST's ERATO Exploratory Research for Advanced Technology program.

Supercarbon Susumu Yoshimura, R.P.H. Chang, 1998-10 This book contains the notes of five short courses delivered at the Centro Internazionale Matematico Estivo session: Integral Geometry, Radon Transforms, and Complex Analysis, held in Venice, Italy, in June 1996. Three of them deal with various aspects of integral geometry with a common emphasis on several kinds of Radon transforms, their properties, and applications; the other two share a stress on CR manifolds and related problems. All lectures are accessible to a wide audience and provide self-contained introductions and short surveys on the subjects as well as detailed expositions of selected results.

The Science and Technology of Carbon Nanotubes T. Yamabe, K. Fukui, Kazuyoshi Tanaka, 1999-08-17 Carbon Nanotubes (CNT) is the material lying between fullerenes and graphite as a new member of carbon allotropes. The study of CNT has gradually become more and more independent from that of fullerenes. As a novel carbon material, CNTs will be far more useful and important than fullerenes from a practical point of view in that they will be directly related to an ample field of nanotechnology. This book presents a timely second-generation monograph covering as far as practical application of CNT as the newest science of these materials. Most updated summaries for preparation, purification, and structural characterization of single-walled CNT and multi-walled CNT are given. Similarly, the most recent developments in the theoretical treatments of electronic structures and vibrational structures are covered. The newest magnetic, optical, and electrical solid-state properties providing a vital base to actual application technologies are described. Explosive research trends towards application of CNTs, including the prospect for large-scale synthesis, are also introduced. It is the most

remarkable feature of this monograph that it devotes more than a half of the whole volume to practical aspects and offers readers the newest developments of the science and technological aspects of CNTs

Wafer Bonding Marin Alexe, Ulrich Gösele, 2013-03-09 During the past decade direct wafer bonding has developed into a mature materials integration technology This book presents state of the art reviews of the most important applications of wafer bonding written by experts from industry and academia The topics include bonding based fabrication methods of silicon on insulator photonic crystals VCSELs SiGe based FETs MEMS together with hybrid integration and laser lift off The non specialist will learn about the basics of wafer bonding and its various application areas while the researcher in the field will find up to date information about this fast moving area including relevant patent information

Disorder and Order in Strongly Nonstoichiometric Compounds A.I. Gusev, A.A. Rempel, A.J. Magerl, 2013-03-09 long to understand that the phenomena associated with the redistribution of interstitial atoms and structural vacancies in non stoichiometric compounds represent an excellent model of analogous phenomena arising in solid state systems with mutual substitution of components Therefore methods of analysis and description proposed and developed for nonstoichiometric compounds are applicable to a number of systems with substitutional disorder In 1980 when we embarked on this work ordering in nonstoichiometric compounds was assumed to be a rare and accidental effect which hardly deserved close attention Now many people understand that ordering represents a general regular phenomenon in all non stoichiometric compounds Ordering effects which were not even mentioned or were referred to as something insignificant and negligible just 20 years ago proved to be numerous and comparable in magnitude with the change of properties in the whole homogeneity interval of non stoichiometric compounds Phase diagrams of binary systems of transition metals with carbon and nitrogen which remained unchanged from the time they were plotted in 1950 60s and containing one or two nonstoichiometric compounds were enriched with many ordered phases Unfortunately the accumulated experimental and theoretical knowledge has not so far been disseminated widely

Materials for Tomorrow Sibylle Gemming, Michael Schreiber, Jens-Boie Suck, 2007-03-07 This book contains six chapters on central topics in materials science Each is written by specialists and gives a state of art presentation of the subject for graduate students and scientists not necessarily working in that field Computer simulations of new materials theory and experimental work are all extensively discussed Most of the topics discussed have a bearing on nanomaterials and nanodevices

Thermoelectrics G.S. Nolas, J. Sharp, J. Goldsmid, 2013-03-09 The field of thermoelectrics has grown dramatically in recent years In particular new and novel materials research has been undertaken and device applications have increased In spite of this resurgence of interest there are very few books available that outline the basic concepts in this field Thus it is necessary that a book be written that encompasses the basic theory and introduces some of the recent research into improved materials for solid state cooling and power generation Therefore the aim of this book is threefold First to present the basic theory of thermoelectricity Both theoretical concepts and experimental aspects of the field of solid state cooling and power generation are discussed Second

to bridge the gap between theory and application To this end the techniques for producing good thermoelectric materials and module design issues are reviewed Third to present some of the research into new and novel materials that has drawn the attention of the scientific community The book is intended as a reference to experimentalists working in the field however it will also prove useful to scientists coming into the field from other areas of research It can also serve as a useful text for graduate students

Predictive Simulation of Semiconductor Processing Jarek Dabrowski,Eicke R. Weber,2013-03-09 Predictive Simulation of Semiconductor Processing enables researchers and developers to extend the scaling range of semiconductor devices beyond the parameter range of empirical research It requires a thorough understanding of the basic mechanisms employed in device fabrication such as diffusion ion implantation epitaxy defect formation and annealing and contamination This book presents an in depth discussion of our current understanding of key processes and identifies areas that require further work in order to achieve the goal of a comprehensive predictive process simulation tool

Chemical-Mechanical Planarization of Semiconductor Materials M.R. Oliver,2013-03-14 Chemical Mechanical Planarization CMP has emerged in the last two decades and grown rapidly as a basic technology widely used in semiconductor device fabrication As a semiconductor processing step it was developed at IBM in the mid 1980s From this beginning the technology has been widely adopted throughout the semiconductor industry As basic CMP technology has been understood and accepted throughout the semiconductor industry its uses in different parts of the semiconductor process have multiplied This includes special steps for some special process ing flows such as for DRAM technology In addition the availability of CMP technology has enabled the implementation of new technologies with the best example being copper interconnect technology Copper could not be practi cally implemented into semiconductor process flows until the advent of CMP Unfortunately the rapid acceptance and implementation of CMP technol ogy in wafer fabrication has occurred without a corresponding rate of advance in the underlying science Progress is being made in understanding the un derlying CMP mechanisms but in general it is slow and uneven The most noteworthy exception to this trend is the science of metal CMP reactions where the scientific understanding is actually driving much of the advance of the technology There has been no corresponding progress in other CMP areas however

Fundamental Aspects of Silicon Oxidation Yves J. Chabal,2012-12-06 The idea for a book dealing specifically with elementary processes in silicon oxidation was formulated after a stimulating symposium that I organized at the American Physical Society meeting in March 1998 The symposium entitled Dynamics of silicon etching and oxidation explored the mechanisms governing silicon oxidation With three experimental talks Hines Weldon and Gibson and two theoretical presentations Pasquarello and Pantelides it provided a good cross section of the recent efforts to characterize the in terfacial region of silicon oxide grown on silicon The novelty of this work comes from the present experimental and theo retical advances that allow the investigation of the formation of ultra thin silicon oxides Although structural characterization of bulk silicon oxides and electrical characterization of thin oxides

and their interfaces with silicon have produced an extensive body of work over more than forty years a mechanis tic understanding of the initial oxidation processes has remained elusive In the past both the experimental and theoretical efforts have been thwarted by the complexity of dealing with the formation of a mostly amorphous oxide on a crystalline substrate In this book we present a survey of the state of the art methods both ex perimental and theoretical specifically dealing with the issue of amorphous dielectric growth Each chapter critically reviews and cross correlates infor mation provided by experimental techniques such as microscopy spectro scopy or scattering with results obtained using theoretical methods such as ab initio electronic structure calculations molecular dynamics and Monte Carlo simulations **Transport**

Processes in Ion-Irradiated Polymers Dietmar Fink,2013-03-14 Presented in two parts this first comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part Fundamentals of Ion Irradiation of Polymers covers the physical chemical and instrumental fundamentals treats the specific irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume Transport Processes in Ion Irradiated Polymers deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes **Impurities Confined in Quantum Structures** Olof

Holtz,Qing Xiang Zhao,2013-04-17 The dramatic impact of low dimensional semiconductor structures on c rent and future device applications cannot be overstated Research over the last decade has highlighted the use of quantum engineering to achieve p viously unknown limits for device performance in research laboratories The modi ed electronic structure of semiconductor quantum structures results in transport and optical properties which di er from those of constituent bulk materials The possibility to tailor properties such as bandgap strain band o set etc of two dimensional 2D semiconductors e g quantum wells for speci c purposes has had an extensive impact on the electronics which has resulted in a dramatic renewal process For instance 2D structures are today used in a large number of high speed electronics and optoelectronic appli tions e g detectors light emitting diodes modulators switches and lasers and in daily life in e g LED based tra c lights CD players cash registers The introduction of impurities also in very small concentrations in a semiconductor can change its optical and electrical properties entirely This attribute of the semiconductor is utilized in the manifoldness of their app cations This fact constitutes the principal driving force for investigation of the properties of the impurities in semiconductors While the impurities in bulk materials have been investigated for a long time and their properties are fairly well established by now the corresponding studies of impurities in quantum wells is a more recent research area *The Atomistic Nature of Crystal*

Growth Boyan Mutaftschiev, 2013-03-09 Crystal growth and nucleation are treated in the specialized literature in different ways depending on the discipline in question physics physical chemistry chemical engineering and on the theoretical approaches atomistic vs continuum approach as regards crystal growth phase vs chemical concept as regards nucleation This book relates the different approaches to one another giving preference to atomistic treatments by the methods of statistical thermodynamics and chemical kinetics This unified approach also facilitates an understanding of some related phenomena of surface physics such as adsorption wetting etc The book allows research novices and graduate students to get an insight into the physics of the phenomena and to interpret some of the experimental results Spirally Anisotropic Composites Garry

Efimovich Freger, V. N. Kestelman, Dmitry Garrievich Freger, 2013-03-09 It is known that composites have insufficient transversal strength and rigidity and low longitudinal shear modulus compression and shear strength This book describes methods to avoid these disadvantages by hybridization and spiral reinforcement of composites at the micro level during the production stage Mathematical models and design methods have been developed for various composites The authors discuss the technology of spiral reinforcement and fillers the structures and properties of spirally reinforced composites binders the manufacture of such composites and the application of new materials and constructions This informative text will be of interest to researchers teachers and students in academia and also to industrial scientists and engineers involved in the development and application of new materials **The Glass Transition** E. Donth, 2013-04-17 The glass transition is well

known to glass makers or from the common experience of drying a used chewing gum A liquid melt or a rubber becomes a solid glass when its temperature is lowered or a solvent is extracted without crystallization There are also dynamic effects The viscosity of a liquid is small at high temperatures but increases dramatically as cooling proceeds down to the glass temperature T_g The increase is continuous and amounts to about fifteen orders of magnitude The technical importance of the glass transition cannot be overestimated A few examples will be presented in the Introduction Most practical knowledge of the glass transition needed for glass or plastic technologies and applications is now readily available Where then is the problem In the last few years glass transition research has enormously intensified We now have several hundred papers a year in expensive top scientific journals In a 1995 Science magazine ranking the glass transition belongs to the six major physical quests along with broken charges physical input for low dimensional geometry measurement philosophy in quantum mechanics coherent X ray radiation for materials research and applications of superconductivity On the other hand interested people outside the glass transition community have difficulty seeing exactly what the glass transition problems are In addition even insiders split into groups over which question could be the most important for slow dynamics in cold liquids

Diffraction Analysis of the Microstructure of Materials Eric J. Mittemeijer, Paolo Scardi, 2013-11-21 Diffraction Analysis of the Microstructure of Materials provides an overview of diffraction methods applied to the analysis of the microstructure of materials Since crystallite size and the presence of lattice defects have a decisive influence on the

properties of many engineering materials information about this microstructure is of vital importance in developing and assessing materials for practical applications The most powerful and usually non destructive evaluation techniques available are X ray and neutron diffraction The book details among other things diffraction line broadening methods for determining crystallite size and atomic scale strain due e g to dislocations and methods for the analysis of residual macroscale stress The book assumes only a basic knowledge of solid state physics and supplies readers sufficient information to apply the methods themselves

Raman Scattering in Materials Science Willes H. Weber, Roberto Merlin, 2013-04-18 Raman scattering is now being applied with increasing success to a wide range of practical problems at the cutting edge of materials science The purpose of this book is to make Raman spectroscopy understandable to the non specialist and thus to bring it into the mainstream of routine materials characterization The book is pedagogical in approach and focuses on technologically important condensed matter systems in which the specific use of Raman spectroscopy yields new and useful information Included are chapters on instrumentation bulk semiconductors and alloys heterostructures high Tc superconductors catalysts carbon based materials wide gap and super hard materials and polymers

Organic Electronic Materials R. Farchioni, G. Grosso, 2013-11-21 Studies on the electronic properties of conjugated polymers and low molecular weight organic solids have been of increasing interest in recent years This book is organized into two parts dedicated to these two classes of materials For each part a general introductory review provides background knowledge of the language and of the main points required for understanding the book s contents The reviews that follow provide a more complete understanding of the underlying physics of the materials through discussion of the interconnected topics Theoretical concepts models and methods are overviewed this is used to support the explanation of the physical and chemical properties of these materials The presentation of selected aspects of experimental research greatly contributes to the basic understanding of organic electronic materials

Fundamentals of Ion-Irradiated Polymers Dietmar Fink, 2013-03-14 Presented in two parts this first comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part Fundamentals of Ion Irradiated Polymers covers the physical chemical and instrumental fundamentals treats the specific irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume Transport Processes in Ion Irradiated Polymers deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes

Multiphased Ceramic Materials Wei-Hsing Tuan, Jin-Kun Guo, 2004-06-14 Summary of the recent progress in ceramics research Several novel

concepts for materials selection and microstructural design are presented as are experimental results that substantiate the ideas

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