



Self-Trapped Exciton In All-Inorganic Perovskites



Selftrapped Excitons

Noriaki Itoh



Selftrapped Excitons:

Self-Trapped Excitons K.S. Song, Richard T. Williams, 2012-12-06 In crystals as diverse as sodium chloride silicon dioxide solid xenon pyrene arsenic triselenide and silver chloride the fundamental electronic excitation exciton is localized within its own lattice distortion field very shortly after its creation This book discusses the structure of the self trapped exciton STE and its evolution along the path of its return to the ground state or to a defect state of crystal A comprehensive review of experiments on STEs in a wide range of materials has been assembled including extensive tables of data Throughout emphasis is given to the basic physics underlying various manifestations of self trapping The role of the spontaneous symmetry breaking or off center relaxation in STE structure is examined thoroughly and leads naturally to the subject of lattice defect formation as a product of STE relaxation The theory of STEs is developed from a localized atomistic perspective using self consistent methods adapted from the theory of defects in solids At this time of rapid progress in STEs researchers will welcome the first monograph dedicated solely to this topic

Materials Modification by Electronic Excitation Noriaki Itoh, Marshall Stoneham, 2001 Electronic excitation is a means to change materials properties This book analyses the important features of the changes induced by electronic excitation identifies what is critical and provides a basis from which materials modification can be developed successfully Electronic excitation by lasers or electron beams can change the properties of materials In the last few years there has been a mix of basic science of new laser and electron beam tools and of new needs from microelectronics photonics and nanotechnology This book extends and synthesises the science addressing ideas like energy localisation and charge localisation with detailed comparisons of experiment and theory It also identifies the ways this understanding links to technological needs like selective removal of material controlled changes altering the balance between process steps and possibilities of quantum control This book will be of particular interest to research workers in physics chemistry electronic engineering and materials science

Defect Processes Induced by Electronic Excitation in Insulators Noriaki Itoh, 1989 <http://www.worldscientific.com/worldscibooks/10/1142/0445>

Excitations in Organic Solids Vladimir M. Agranovich, 2009-02-12 During the last decade our expertise in nanotechnology has advanced considerably The possibility of incorporating in the same nanostructure different organic and inorganic materials has opened up a promising field of research and has greatly increased the interest in the study of properties of excitations in organic materials In this book not only the fundamentals of Frenkel exciton and polariton theory are described but also the electronic excitations and electronic energy transfers in quantum wells quantum wires and quantum dots at surfaces at interfaces in thin films in multilayers and in microcavities Among the new topics in the book are those devoted to the optics of hybrid Frenkel Wannier Mott excitons in nanostructures polaritons in organic microcavities including hybrid organic inorganic microcavities new concepts for organic light emitting devices the mixing of Frenkel and charge transfer excitons in organic quasi one dimensional crystals excitons and polaritons in one and two dimensional

crystals surface electronic excitations optical biphonons and Fermi resonances by polaritons All new phenomena described in the book are illustrated by available experimental observations The book will be useful for scientists working in the field of photophysics and photochemistry of organic solids for example organic light emitting devices and solar cells and for students who are entering this field It is partly based on a book by the author written in 1968 Theory of Excitons in Russian However the new book includes only 5 chapters from this version all of which have been updated The 10 new chapters contain discussions of new phenomena their theory and their experimental observations Ultrafast Spectroscopy of Self Trapped

Excitons in Quasi-one-dimensional Materials Jason Mance, Washington State University. Department of Physics and Astronomy, 2013 The MX materials studied here were Pt en 2 Pt en 2 Cl 2 ClO₄ 4 or PtCl and Pt en 2I₂ Pt CN 4 or PtICN The following experiments were carried out **Laser Ablation and Desorption**, 1997-12-10 This volume introduces the subject

of laser ablation and desorption to scientists and engineers It covers fundamental experimental and theoretical tools models and techniques and introduces the most important applications Clearly written and organized in a straightforward manner Laser Ablation and Desorption lead the reader straight through the fundamentals of laser surface interactions Each chapter is self contained and includes references to other chapters as necessary so that readers may begin with the topic of greatest interest and follow the references to other aspects of the subject contained within the book Key Features Provides up to date information about one of the most active fields in physics today Written and edited by major figures in the field of laser ablation and desorption Represents the most comprehensive treatment of the state of the art available **Annual Report**,

Excitation Energy Transfer Processes in Condensed Matter Jai Singh, 2013-11-11 Applying a unified quantum approach contributors offer fresh insights into the theoretical developments in the excitation energy transfer processes in condensed matter This comprehensive volume examines Frenkel and Wannier excitonic processes rates of excitonic processes theory of laser sputter and polymer ablation and polarons excitonic polarons and self trapping Interfaces Under Laser Irradiation L.D. Laude, D. Bäuerle, M. Wautelet, 2013-03-09 Known and developed over the past twenty five years lasers have been experimented in a variety of processes with an uneven success Apart from fundamental physics experiments in which the various aspects of coherence are systematically exploited applications in the field of Materials Science have been scattered recently over so many situations that it is apparently difficult today to conceive a comprehensive interpretation of all physical processes encountered In some domains of research like photochemistry development has been fast and rather self supporting In others like solid state processing progress has been either very specific or deviated towards marginal applications or else emerged as a joint venture between physicists and chemists This yielded a number of professional meetings where day to day research activities are presented In 1982 the Cargese ASI on Cohesive properties of semiconductors under laser irradiation was one of such meetings at which a prospective of the field was discussed at length in ebullient round table sessions Quoted from the proceedings the Institute helped to discern clearly the limits of existing

theoretical approaches and the directions along which work is urgently needed within the next few years Four years have passed and the field has literally exploded It must be mentioned that some of the most striking developments over the past two years were accurately predicted at the Institute in Cargese

Luminescence Spectroscopy of Semiconductors Ivan Pelant, Jan Valenta, 2012-02-02 Semiconductor luminescence has been a rapidly expanding field over the last 50 years This text reviews the whole subject of semiconductor luminescence in one volume

Correlations, Coherence, and Order Diana V. Shopova, Dimo I. Uzunov, 2012-12-06 This volume contains a collection of review articles that are extended versions of invited lectures given at the First Pamporovo Winter Workshop on Cooperative Phenomena in Condensed Matter held in villa Orlitza 7th-15th March 1998 Pamporovo Ski Resort Bulgaria Selected research works reported at the Workshop have been published in the Journal of Physical Studies a new International Journal for research papers in experimental and theoretical physics Lviv University Lviv Ukraine These reviews are supposed to be status reports and present new insights gained from the rapidly developing research of outstanding problems in condensed matter physics such as structural properties and phase transitions in fullerene crystals superconductivity of strongly interacting electrons in copper oxides spin polarized Fermi liquids chaotic vortex filaments in superfluid turbulent Helium II desorption induced by electronic transitions in ionic compounds fluctuation phenomena in superconductors and quantum critical phenomena in low dimensional magnets and quantum liquids We have set the material according to the alphabetic order of authors names although the high temperature superconductivity seems to be the hard kernel in condensed matter physics The authors have taken care to present the recent advances in their research in a form which is readable and useful not only to experts in the respective field but also to young scientists That is why the lectures include a comprehensive introduction to the matter and also an extended discussion of methodical details

Excitonic Processes in Solids Masayasu Ueta, Hiroshi Kanzaki, Koichi Kobayashi, Yutaka Toyozawa, Eiichi Hanamura, 2012-12-06 An exciton is an electronic excitation wave consisting of an electron hole pair which propagates in a nonmetallic solid Since the pioneering research of Frenkel Wannier and the Pohl group in the 1930s a large number of experimental and theoretical studies have been made Due to these investigations the exciton is now a well established concept and the electronic structure has been clarified in great detail The next subjects for investigation are naturally dynamical processes of excitons such as excitation relaxation annihilation and molecule formation and in fact many interesting phenomena have been disclosed by recent works These excitonic processes have been recognized to be quite important in solid state physics because they involve a number of basic interactions between excitons and other elementary excitations It is the aim of this quasi monograph to describe these excitonic processes from both theoretical and experimental points of view we take a few To discuss and illustrate the excitonic processes in solids important and well investigated insulating crystals as playgrounds for excitons on which they play in a manner characteristic of each material The selection of the materials is made in such a way that they possess some unique properties of excitonic processes

and are adequate to cover important interactions in which excitons are involved In each material excitonic processes are described in detail from the experimental side in order to show the whole story of excitons in a particular material

Primary Photoexcitations In Conjugated Polymers: Molecular Exciton Versus Semiconductor Band Model Niyasi Serdar Sariciftci, 1998-01-02 This volume concentrates on the controversy within the scientific community over how to explain understand and describe the photophysics photochemistry of this class of materials This controversy is of such a fundamental nature that the solution of the problem might be in a unification of the semiconductor and metal physics with the molecular quantum chemistry Thus a wide ranging and comprehensive discussion of this very crucial issue has not been written down yet This volume brings together the most prominent scientists specializing in this controversial topic Each contributor addresses the opponents arguments After short introductory chapters the contributors discuss their own speciality area and compare the results with both models and explain their position on why one of the models is more appropriate Special emphasis is given to comparative discussions with other conjugated molecular systems as well as inorganic semiconductors

The Physics and Technology of Amorphous SiO₂ Roderick A.B. Devine, 2012-12-06 The contents of this volume represent most of the papers presented either orally or as posters at the international conference held in Les rd th Arcs Savoie from June 29 to July 3 1987 The declared objective of the conference was to bring together specialists working in various fields both academic and applied to examine the state of our understanding of the physics of amorphous sio₂ from the point of view of its structure defects both intrinsic and extrinsic its ability to transport current and to trap charges its sensitivity to irradiation etc For this reason the proceedings is divided as was the conference schedule into a number of sections starting from a rather academic viewpoint of the internal structure of idealized SiO₂ and progressing 2 towards subjects of increasing technological importance such as charge transport and trapping and breakdown in thin films The proceedings terminates with a section on novel applications of amorphous SiO₂ and in particular buried oxide layers formed by ion implantation Although every effort was made at the conference to ensure that each presentation occurred in its most obvious session in editing the proceedings we have taken the liberty of changing the order where it seems that a paper was in fact more appropriate to an alternative section In any event because of the natural overlap of subjects many papers could have been suitably placed in several different sections

Luminescence of Solids D.R. Vij, 2012-12-06 Luminescence of Solids gathers together much of the latest work on luminescent inorganic materials and new physical phenomena The volume includes chapters covering the achievements that have led to the establishment of the fundamental laws of luminescence light sources light dispersing elements detectors and other experimental techniques models and mechanisms materials preparation and future trends This international collection of cutting edge luminescence research is complemented by over 170 illustrations that bring to life the text s many vital concepts

Phosphor Handbook Shigeo Shionoya, William M. Yen, Hajime Yamamoto, 2018-10-03 A benchmark publication the first edition of the Phosphor Handbook set the standard for

references in this field Completely revised and updated this second edition explores new and emerging fields such as nanophosphors nanomaterials UV phosphors quantum cutters plasma display phosphors sol gel and other wet phosphor preparation techniques preparation through combustion bioluminescence phosphors and devices and new laser materials such as OLED It also contains new chapters on the applications of phosphors in solid state lighting photoionization of luminescent centers in insulating phosphors and recent developments in halide based scintillators The handbook provides a comprehensive description of phosphors with an emphasis on practical phosphors and their uses in various kinds of technological applications It covers the fundamentals namely the basic principles of luminescence the principle phosphor materials and their optical properties The authors describe phosphors used in lamps cathode ray tubes x ray and ionizing radiation detection They cover common measurement methodology used to characterize phosphor properties discuss a number of related items and conclude with the history of phosphor technology and industry Fundamentals of Phosphors William M. Yen, Shigeo(deceased) Shionoya, Hajime Yamamoto, 2018-10-03 Drawing from the second edition of the best selling Handbook of Phosphors Fundamentals of Phosphors covers the principles and mechanisms of luminescence in detail and surveys the primary phosphor materials as well as their optical properties The book addresses cutting edge developments in phosphor science and technology including oxynitride phosphors and the impact of lanthanide level location on phosphor performance Beginning with an explanation of the physics underlying luminescence mechanisms in solids the book goes on to interpret various luminescence phenomena in inorganic and organic materials This includes the interpretation of the luminescence of recently developed low dimensional systems such as quantum wells and dots The book also discusses the excitation mechanisms by cathode ray and ionizing radiation and by electric fields to produce electroluminescence The book classifies phosphor materials according to the type of luminescence centers employed or the class of host materials used and interprets the optical properties of these materials including their luminescence characteristics and mechanisms Placing a strong emphasis on those materials that are important from a practical point of view the coverage also includes those possessing no possibility for practical use but are important from a theoretical standpoint *Atomic Processes Induced By Electronic Excitation In Non- Metallic Solids - Proceedings Of The Us-japan Seminar* W B Fowler, Itoh Noriaki, 1990-07-23 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered as a fundamental computation

paradigm where computation includes specification programming and implementation Over the last three decades graph grammars have developed at a steady pace into a theoretically attractive and important for applications research field Volume 2 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations considers applications to functional languages visual and object oriented languages software engineering mechanical engineering chemical process engineering and images It also presents implemented specification languages and tools and structuring and modularization concepts for specification languages The contributions have been written in a tutorial survey style by the top experts in the corresponding areas This volume is accompanied by a CD Rom containing implementations of specification environments based on graph transformation systems and tools whose implementation is based on the use of graph transformation systems

Shim 89-Proceedings Of The First International Symposium On Swift Heavy Ions In Matter J. Remillieux,1989

Insulating Films on Semiconductors 1991, Proceedings from the 7th Biennial European Conference. W. Eccleston,M. Uren,1991-09-01 Insulating Films on Semiconductors 1991 covers the fundamental aspects of the properties of dielectrics semiconductor structures the study of high field hot electron radiation induced phenomena and the developments in measurement techniques for looking at interfaces and surfaces on semiconductor materials The volume is written for researchers in physics materials science electronics and electrical engineering

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