



Luminescence Centers In Crystals

D. V. Skobel tsyn



Luminescence Centers In Crystals:

Luminescence Centers in Crystals N. G. Basov, 2012-12-06 This collection of papers describes investigations of luminescence centers in II VI crystal phosphors ruby and molecular crystals These investigations were carried out using spectroscopy in a wide range of wavelengths electron paramagnetic resonance and polarization methods The relationship between the thermal and optical depths of electron traps is considered specifically The articles in this collection should be of interest to all scientists investigating the luminescence of solids

Physical Processes in Inorganic Scintillators Piotr A. Rodnyi, 2020-12-17 During the last ten to fifteen years researchers have made considerable progress in the study of inorganic scintillators New scintillation materials have been investigated novel scintillation mechanisms have been discovered and additional scintillator applications have appeared Demand continues for new and improved scintillation materials for a variety of applications including nuclear and high energy physics astrophysics medical imaging geophysical exploration radiation detection and many other fields However until now there have been no books available that address in detail the complex scintillation processes associated with these new developments Now a world leader in the theory and applications of scintillation processes integrates the latest scientific advances of scintillation into a new work *Physical Processes in Inorganic Scintillators* Written by distinguished researcher Piotr Rodnyi this volume explores this challenging subject explains the complexities of scintillation from a modern point of view and illuminates the way to the development of better scintillation materials This unique work first defines the fundamental physical processes underlying scintillation and governing the primary scintillation characteristics of light output decay time emission spectrum and radiation hardness The book then discusses the complicated mechanisms of energy conversion and transformation in inorganic scintillators The section on the role of defects in energy transfer and scintillation efficiency will be of special interest Throughout the author does not offer complicated derivations of equations but instead presents useful equations with practical results

Luminescence Centers of Rare Earth Ions in Crystal Phosphors M. D. Galanin, 1988

Luminescence and Nonlinear Optics D. V. Skobel'tsyn, 2013-11-11

Cathodoluminescence and Photoluminescence Lyuji Ozawa, 2018-10-03 Written by a senior industry expert with nearly 40 years of hands on experience *Cathodoluminescence and Photoluminescence Theories and Practical Applications* presents a thorough review of advances challenges and recommendations for improving photoluminescent PL and cathodoluminescent CL phosphor display devices in terms of energy efficiency image quality color fidelity operational lifetime and production cost This book traces the development of cathode ray tubes CRTs PL and CL phosphor screens and fluorescent lamps FL into modern phosphor display devices The author relates luminescence phenomena and color to chemical composition excitation mechanisms energy conversion efficiencies and bulk properties of phosphor particles He also addresses image quality issues such as flickering smearing whitening and contrast Subsequent chapters focus on powder deposition techniques and the production of phosphor powders themselves The text describes the

necessary raw materials flux materials and growth conditions for producing ZnS powders It provides a quantitative analysis on optimal processes and parameters for ensuring higher quality color and screen resolution Offering a detailed guide for next generation scientists and engineers in the field Cathodoluminescence and Photoluminescence describes current technologies and promising developments for producing higher quality energy efficient and long lasting phosphor CR and flat CL screen displays

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

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 LED s 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

Silicon Dioxide and the Luminescence of Related Materials Anatoly Trukhin,2021-07-05 This book is devoted to the study of the properties of materials that can be in a crystalline and glassy state Its central focus is the physics of solids whose structure is disordered since the existing theories of solids are based on crystal structures The approach adopted here is based on the comparison of data for crystals and glasses formed by the same atoms paying particular attention to the under explored glass forming crystals The book will be of interest to graduate students solid states researchers glass technologists and young scientists beginning research in the field of experimental physics

Nuclear Science Abstracts ,1971 *Рост Кристаллов / Rost Kristallov / Growth of Crystals* A. A. Chernov,2012-12-06 Volumes 11 and 12 contain the papers read at the Fourth All Union Conference on Crystal Growth in Tsakhkadzor September 17 22 1972 this volume contains papers on crystal growth from melts from low temperature solutions hydrothermal solutions and hot solutions and also from the gas state including processes involving reactions In addition there are papers on crystal perfection in relation to conditions of formation and the effects of electric and mag netic fields on crystallization These papers reflect researches directed to the development and industrial production of perfect crystals required for advanced techniques in solid state physics and chemistry as well as for other purposes such as novel materials There are many different scientific and technical problems in producing large perfect single crystals and

advances in this area made in the USSR and elsewhere are reflected in the papers in both volumes On the one hand any particular defective structure in a crystal originates from some mechanism and growth conditions in particular inclusions are trapped on account of the physicochemical parameters of the melt the surface processes and the stability of the growth front under particular crystallization conditions Further impurity trapping is decisively influenced by the surface kinetics growth front stability composition and structure of the boundary layer any complexes present in the liquid and of course the crystallochemical relationships between the impurity and the crystal

Spectroscopy of Crystals Containing Rare Earth Ions

A.A. Kaplyanskii, R.M. McFarlane, 2012-12-02 Spectroscopy of Crystals Containing Rare Earth Ions contains chapters on some key problems selected from a broad range of spectroscopic studies of RE activated solids including both crystalline and glassy materials Progress in crystal field theory is surveyed an area which is basic to our understanding of the energy levels The treatment of dynamical properties includes studies of coherence phenomena in isolated ions energy transfer between ions and cooperative phenomena associated with ion-ion and ion-lattice interactions In addition the role of electron spins and nuclear spins is studied by light scattering and double resonance techniques The presence of inhomogeneous broadening of spectral lines is observed and studied in many contexts leading to new insights into general problems of the disordered state Considerable attention is devoted to describing new experimental techniques whose development is of prime importance for progress in the spectroscopy of RE activated solids Many of these rely on the development and application of tunable lasers At the moment this is a very active field of spectroscopy with more exciting developments likely to occur in the future

Creation and Accumulation of Radiation Defects in Single Crystals of Magnesium Oxide Anatoly Surzhikov, Elena

Lysenko, 2024-06-04 The range of problems that can be solved with the use of powerful radiation installations is determined generation of nanosecond ultrahigh frequency microwave pulses collective acceleration of charged particles the implementation of a controlled fusion reaction and the creation of high power lasers In this edition the questions posed for the SCM were solved using the example of single crystals of magnesium oxide By the beginning of the authors work the structure of the color centers induced by radiation in magnesium oxide the positions of the maxima of the optical absorption and luminescence bands as well as the values of their half widths and the temperature range of stability were sufficiently established There is practically no information about the location of interstitial ions in magnesium oxide crystals and methods for their registration have not been worked out These data are particularly important since the efficiency of the accumulation of radiation defects depends to a certain extent on the efficiency of fixing displaced ions in the crystal lattice However all studies confirming this point of view were carried out using low and medium levels of irradiation The effect of high absorbed radiation energy capacities on the formation and accumulation of radiation defects in magnesium oxide crystals has not been practically studied

Laser Spectroscopy of Solids W. M. Yen, P. M. Selzer, 2013-03-09

In this volume we have attempted to present a concise survey of the spectroscopic properties of insulators as derived from the application of tunable laser spectro

scopic techniques As has been the case in gaseous atomic spectroscopy the use of tunable lasers has allowed the extension and the refinement of optical measurements in the condensed phases to unprecedented resolutions in the frequency and temporal domains In turn this firmer base of empirical findings has led to a more sophisticated theoretical understanding of the spectroscopy of optically excited states with major modifications being apparent in the area of their dynamic behavior Yet the revivalistic nature of these advances implies that additional advances are to be expected as the techniques and developments outlined in this volume are put to widespread use Regardless it is our hope and that of our distinguished colleagues in this venture that the reviews presented here will be useful to neophytes and veterans to this field alike to the former as a *laissez passer* into solid state spectroscopy to the latter as a useful synopsis and reference of recent developments We have also attempted to expose the reader to the concept that optically active materials be they organic or inorganic as universality would require be have in a like manner and though terminology may vary in detail the outline and general features of all insulators remain constant

Photoluminescence in Gallium Phosphide Crystals Stanford University. Stanford Electronics Laboratories,1964

Bulk Crystal Growth of Electronic, Optical and Optoelectronic Materials Peter Capper,2005-10-31 A valuable timely book for the crystal growth community edited by one of the most respected members in the field Contents cover all the important materials from silicon through the III V and II IV compounds to oxides nitrides fluorides carbides and diamonds International group of contributors from academia and industry provide a balanced treatment Includes global interest with particular relevance to USA Canada UK France Germany Netherlands Belgium Italy Spain Switzerland Japan Korea Taiwan China Australia and South Africa

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[Luminescence of Inorganic Solids](#) Paul G. Goldberg,1966

Handbook of Radioactivity Analysis Michael F. L'Annunziata,2012-08-16 Authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity

Luminescence and Anisotropy of Zinc Sulfide Crystals M. D. Galanin,1988

Scientific and Technical Aerospace Reports ,1968

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