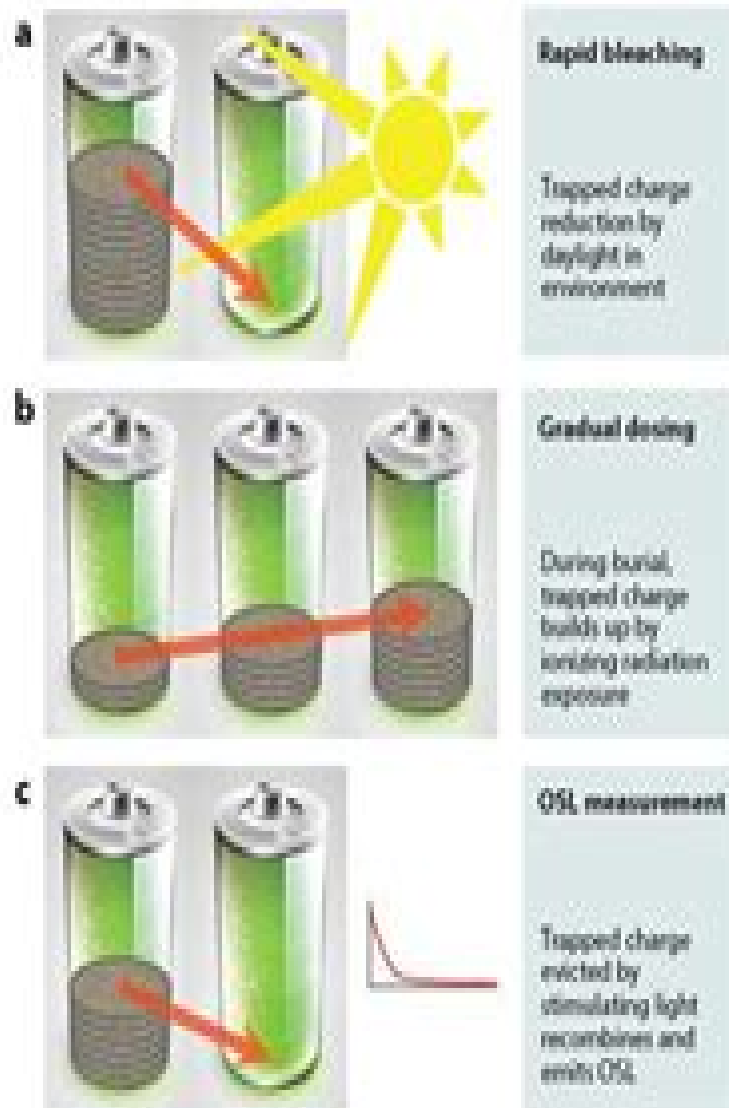


# Luminescence in solids

- Luminescence is a property of solids where light is produced from electrons “trapped” in crystal lattice defects.
- These electrons become trapped with exposure to background radiation and escape these traps when given energy through sunlight.



# Luminescence Of Solids

**F. A. Kröger**



## **Luminescence Of Solids:**

**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 An Introduction to Luminescence of Solids Humboldt W. Leverenz, 1950 Some Aspects of the Luminescence of Solids Ferdinand Anne Kröger, 1948 Table of contents I A general consideration of the phenomena of luminescence II Manganese as an activator III Tungstates and molybdates IV Uranium as an activator V Titanium as an activator VI The dependence of the efficiency of luminescence on the temperature Appendices Tables Indexes This book is based on experimental work carried out in the physical laboratory of the N V Philips Gloeilampenfabrieken Eindhoven Netherlands during the last five years *Luminescence of Solids* D. R. Vij, 1998-06-01 Some Aspects of the Luminescence of Solids F. A. Kröger, 1948 *INTRODUCTION TO LUMINESCENCE OF SOLIDS* NEW YORK , 1950 **Luminescence of Solids** Humboldt W. Leverenz, 1950 **Theory of Thermoluminescence and Related Phenomena** Reuven Chen, S. W. S. McKeever, 1997 In this book the authors give an up to date account of thermoluminescence TL and other thermally stimulated phenomena Although most recent experimental results of TL in different materials are described in some detail the main emphasis in the present book is on general processes and the approach is more theoretical Thus the details of the possible processes which can take place during the excitation of the sample and during its heating are carefully analysed The methods for analysing TL glow curves are critically discussed and recommendations as to their application are made Also discussed is the expected behavior of these phenomena as functions of the experimental parameters for example dose of excitation The consequences of the main applications of TL for example radiation dosimetry are also discussed in detail as are the similarities and dissimilarities of other thermally stimulated phenomena and the simultaneous measurements of the latter and TL **Luminescence and the Solid State** Richard C. Ropp, 2004-05-06 Since the first date of publication of this book in 1991 the subject of phosphors and luminescence has assumed even more importance in the overall scheme of technological development Many new types of displays have appeared which depend upon phosphors in their operation Some of these were pure conjecture in 1991 but are a reality in 2004 Descriptions have been included of the newer as well as the older types of displays in this edition along with an annotated portrait of the phosphors used in each category Many of these new light sources promise to displace and make obsolete our current light sources such as incandescent lamps fluorescent lamps and the ubiquitous colour Cathode Ray Tube now used in TV and computer monitors The importance of solid state science are summarized in the introductory chapters of this edition and many of the chapters have been completely rewritten

or revised Each chapter has a special contribution to make in the overall understanding of the solid state science of phosphors and luminescence Introduces the reader to the science and art of preparing inorganic luminescent materials Describes how and why luminescent materials exhibit such specific intrinsic properties Describes the science of the solid state and presents the exact formulas and conditions required to make all of the phosphors known at that time **Some New Experimental Results and Theoretical Interpretations in the Luminescence of Solids** Ferd Elton Williams,1947

Luminescence Thermometry Miroslav Dramićanin,2018-04-21 Luminescence Thermometry Methods Materials and Applications presents the state of the art applications of luminescence thermometry giving a detailed explanation of luminescence spectroscopic schemes for the read out of temperature while also describing the diverse materials that are capable of sensing temperature via luminescence Chapters cover the fundamentals of temperature traditional thermometers and their figures of merit a concise description of optical thermometry methods luminescence and instrumentation and an explanation of the ways in which increases in temperature quench luminescence Additional sections focus on materials utilized for luminescence thermometry and the broad range of applications for luminescence thermometry including temperature measurement at the nanoscale and the application of multifunctional luminescent materials Provides an overview of luminescence thermometry applications including high temperature biomedical nanoscale and multifunctional Delves into luminescence thermometry by materials group including Rare earth and transition Metal Ion Doped Semiconductors Quantum Dots and Organic materials Gives a concise introduction of the latest methods of temperature measurement including luminescence spectroscopic schemes and methods of analysis Luminescence of Solids Produced by Surface Recombination of Atoms KENNETH M. SANCIER,WILLIAM J. FREDERICKS,HENRY. WISE,STANFORD RESEARCH INST MENLO PARK CALIF.,1961 Solid State Luminescence A.H. Kitai,2012-12-06 Historically black body radiation in the tungsten filament lamp was our primary industrial means for producing artificial light as it replaced gas lamps Solid state luminescent devices for applications ranging from lamps to displays have proliferated since then particularly owing to the development of semiconductors and phosphors Our lighting products are now mostly phosphor based and this cold light is replacing an increasing fraction of tungsten filament lamps Even light emitting diodes now challenge such lamps for automotive brake lights In the area of information displays cathode ray tube phosphors have proved themselves to be outstandingly efficient light emitters with excellent colour capability The current push for flat panel displays is quite intense and much confusion exists as to where development and commercialization will occur most rapidly but with the need for colour it is now apparent that solid state luminescence will play a primary role as gas phase plasma displays do not conveniently permit colour at the high resolution needed today The long term challenge to develop electroluminescent displays continues and high performance fluorescent lamps currently illuminate liquid crystal monochrome and colour displays The development of tri component rare earth phosphors is of particular importance **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

*Thermoluminescence of Solids* S. W. S. McKeever, 1985 McKeever gives us a comprehensive survey of thermoluminescence an important versatile and widely used experimental technique Bringing together previously isolated specialized approaches he stresses the importance of the solid state aspects of the phenomenon The book contains chapters on analysis and special properties on instrumentation and on the variety of defect reaction using the alkali halides and SiO<sub>2</sub> as examples that can take place within a material to yield thermoluminescence Three chapters concerning applications discuss the features of the solid state reactions to explain some of the properties observed in practice

The Role of Point Defects in the Luminescence Processes in Inorganic Solids and Phosphor Development Arunachalam Lakshmanan, 2025-01-10 Specialists in lighting such as those working with medical imaging devices or scintillators in particle accelerators are keen on understanding and developing luminescence processes for applications such as 3D x ray imaging high energy particle detection and electronic data storage Developing sensitive phosphors requires knowledge of material development and the role of point defects in solids information often lacking in literature While doping impurities in inorganic solids can achieve bright fluorescence creating suitable electron hole traps is crucial for stimulated luminescence a fact not commonly emphasized This book aims to bridge this gap and enlighten readers on phosphor development and luminescence phenomena It explores the stimulated luminescence properties of three materials focusing on electron hole trapping defects in BaFBr Eu x ray storage phosphor electron hole and interstitial vacancy trapping mechanisms in LiF under irradiation and unresolved issues in undoped and rare earth doped CaSO<sub>4</sub> and BaSO<sub>4</sub>

Luminescence of Liquids and Solids and Its Practical Applications Peter Pringsheim, Marcel Vogel, 1946

*Solid-State Spectroscopy* Hans Kuzmany, 2013-03-09 Spectroscopic methods have opened up a new horizon in our knowledge of solid state materials Numerous techniques using electromagnetic radiation or charged and neutral particles have been invented and worked out to a high level in order to provide more detailed information on the solids In this text new radiation sources like lasers and synchrotrons are discussed It provides a description of the linear response together with the basic principles and the technical background for various scattering experiments Fourier transform spectroscopy pulsed and magnetic NMR techniques photo emission and light and electron scattering are elucidated Each chapter includes problems The concept of this textbook is designed for graduate

students     ELEMENTS OF SOLID STATE PHYSICS J.P. SRIVASATAVA, 2014-12-11 This revised and updated Fourth Edition of the text builds on the strength of previous edition and gives a systematic and clear exposition of the fundamental principles of solid state physics The text covers the topics such as crystal structures and chemical bonds semiconductors dielectrics magnetic materials superconductors and nanomaterials What distinguishes this text is the clarity and precision with which the author discusses the principles of physics their relations as well as their applications With the introduction of new sections and additional information the fourth edition should prove highly useful for the students This book is designed for the courses in solid state physics for B Sc Hons and M Sc students of physics Besides the book would also be useful to the students of chemistry material science electrical electronic and allied engineering disciplines New to the Fourth Edition Solved examples have been introduced to explain the fundamental principles of physics Matrix representation for symmetry operations has been introduced in Chapter 1 to enable the use of Group Theory for treating crystallography A section entitled Other Contributions to Heat Capacity has been introduced in Chapter 5 A statement on Kondo effect minimum has been added in Chapter 14 A section on Graphenes has been introduced in Chapter 16 The section on Carbon Nanotubes in Chapter 16 has been revised A Lesson on Group Theory has been added as Appendix     **Photochemistry and Photophysics** Jan F. Rabek, 1991-04-23 Photochemistry and Photophysics is a multi volume set that presents a critical review of new developments that have occurred in the inorganic organic atmospheric environmental material bio and polymer fields of photochemistry and photophysics over the last decade Specific topics covered in Volume III include photochemical processes at semiconductors photoluminescence probes of porous solids photoluminescence probes of polymer structures and photomodification of cell membranes Topics covered in Volume IV include magnetic fields in photochemistry heterogenous photocatalysis by semiconductor powders hydrophobic and hydrophilic effects on photochemical and photophysical processes and photoinitiators for free radical polymerization The book provides essential information for students and researchers in photochemistry and photophysics

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