

Guokai Liu
Bernard Jacquier (Eds.)

Spectroscopic Properties of Rare Earths in Optical Materials



 Springer

Spectroscopic Properties Of Rare Earths In Optical Materials

**Guokui Liu, Bernard Jacquier
(physicien).)**



Spectroscopic Properties Of Rare Earths In Optical Materials:

Spectroscopic Properties of Rare Earths in Optical Materials Guokui Liu, Bernard Jacquier, 2005-06-29 Aimed at researchers and graduate students this book provides up to date information for understanding electronic interactions that impact the optical properties of rare earth ions in solids Its goal is to establish a connection between fundamental principles and the materials properties of rare earth activated luminescent and laser optical materials The theoretical survey and introduction to spectroscopic properties include electronic energy level structure intensities of optical transitions ion phonon interactions line broadening and energy transfer and up conversion An important aspect of the book lies in its deep and detailed discussions on materials properties and the potential of new applications such as optical storage information processing nanophotonics and molecular probes that have been identified in recent experimental studies This volume will be a valuable reference book on advanced topics of rare earth spectroscopy and materials science **Spectroscopic**

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Handbook on the Physics and Chemistry of Rare Earths Including Actinides is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics The book s main emphasis is on rare earth elements Sc Y and the lanthanides La through Lu but whenever relevant information is also included on the closely related actinide elements Individual chapters are comprehensive broad up to date critical reviews written by highly experienced invited experts The series which was started in 1978 by Professor Karl A Gschneidner Jr combines and integrates both the fundamentals and applications of these elements with two published volumes each year Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad with critical reviews Provides contributions from highly experienced invited experts *Frontiers Developments in Optics and Spectroscopy* , This book is based on the Proceedings of the Institute Frontier Developments in Optics and Spectroscopy held in Erice Sicily Italy from the 17th of June to the 2nd of July

2007 The meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Center for Scientific Culture Other Institutes organized by this School are listed on pp vi vii The book can be downloaded for free through the Buy this book link on the right side of this page *Collective Plasmon-Modes in Gain Media* V.A.G.

Rivera, O.B. Silva, Y. Ledemi, Y. Messaddeq, E. Marega Jr., 2014-09-03 This book represents the first detailed description including both theoretical aspects and experimental methods of the interaction of rare earth ions with surface plasmon polariton from the point of view of collective plasmon photon interactions via resonance modes metal nanoparticles or nanostructure arrays with quantum emitters rare earth ions These interactions are of particular interest for applications to optical telecommunications optical displays and laser solid state technologies Thus our main goal is to give a more precise overview of the rapidly emerging field of nanophotonics by means of the study of the quantum properties of light interaction with matter at the nanoscale In this way collective plasmon modes in a gain medium result from the interaction coupling between a quantum emitter created by rare earth ions with a metallic surface inducing different effects such as the polarization of the metal electrons so called surface plasmon polariton SPP a field enhancement sustained by resonance coupling or transfer of energy due to non resonant coupling between the metallic nanostructure and the optically active surrounding medium These effects counteract the absorption losses in the metal to enhance luminescence properties or even to control the polarization and phase of quantum emitters The engineering of plasmons SPP in gain media constitutes a new field in nanophotonics science with a tremendous technological potential in integrated optics photonics at the nanoscale based on the control of quantum effects This book will be an essential tool for scientists engineers and graduate and undergraduate students interested not only in a new frontier of fundamental physics but also in the realization of nanophotonic devices for optical telecommunication **Lanthanide Luminescence** Pekka Hänninen, Harri Härmä, 2011-06-21

Lanthanides have fascinated scientists for more than two centuries now and since efficient separation techniques were established roughly 50 years ago they have increasingly found their way into industrial exploitation and our everyday lives Numerous applications are based on their unique luminescent properties which are highlighted in this volume It presents established knowledge about the photophysical basics relevant lanthanide probes or materials and describes instrumentation related aspects including chemical and physical sensors The uses of lanthanides in bioanalysis and medicine are outlined such as assays for in vitro diagnostics and research All chapters were compiled by renowned scientists with a broad audience in mind providing both beginners in the field and advanced researchers with comprehensive information on the given subject *Phosphors for Energy Saving and Conversion Technology* Vijay B. Pawade, Sanjay J.

Dhoble, 2018-09-03 This text deals with the advantages of rare earth activated phosphors for the development of solid state lighting technology and in enhancing the light conversion efficiency of Si solar cells The book initiates with a short overview of the atomic and semiconductor theory followed by introduction to phosphor its working mechanism role of rare earth ions

in the lighting and PV devices and host materials being used Further it introduces the applications of inorganic phosphor for the development of green energy and technology including advantages of UP DC conversion phosphor layers in the enhancing the cell response of PV devices Key Features Focuses on discussion of phosphors for both solid state lighting and photovoltaics applications Provides introduction for practical applications including synthesis and characterization of phosphor materials Includes broad in depth introduction of semiconductors and related theory Enhances the basic understanding of optical properties for rare earth phosphors Covers up conversion and down conversion phosphor for energy harvesting applications

Advances in Ceramics Costas Sikalidis, 2011-08-09 The current book contains twenty two chapters and is divided into three sections Section I consists of nine chapters which discuss synthesis through innovative as well as modified conventional techniques of certain advanced ceramics e g target materials high strength porous ceramics optical and thermo luminescent ceramics ceramic powders and fibers and their characterization using a combination of well known and advanced techniques Section II is also composed of nine chapters which are dealing with the aqueous processing of nitride ceramics the shape and size optimization of ceramic components through design methodologies and manufacturing technologies the sinterability and properties of ZnNb oxide ceramics the grinding optimization the redox behaviour of ceria based and related materials the alloy reinforcement by ceramic particles addition the sintering study through dihedral surface angle using AFM and the surface modification and properties induced by a laser beam in pressings of ceramic powders Section III includes four chapters which are dealing with the deposition of ceramic powders for oxide fuel cells preparation the perovskite type ceramics for solid fuel cells the ceramics for laser applications and fabrication and the characterization and modeling of protonic ceramics

Nanomaterials and Nanoarchitectures M. Bardosova, T. Wagner, 2015-08-31 The current work consists of nine contributions describing recent progress in the interdisciplinary of Nanoscience which involves physics chemistry engineering biology and medicine and one essay outlining some important historical and socioeconomic factors pertaining to recent developments in nanoscale science and technology All 10 chapters have been written by eminent experts in their respective fields The authors employ the terms nanomaterials as building blocks of a range of materials nanoarchitecture represents the design and nanotechnology the means to produce a particular device or functionality Two of the chapters are devoted to novel materials and two others focus on analyzing techniques which can be used to enable molecular control of the film architecture Additionally the reader will find material devoted to photonic and hybrid plasmonic photonic crystals as well as sections which address their applications such as the use of plasmonic particles and nanostructures for new sensing concepts and ultrasensitive detection techniques This work will be of interest to graduate students researchers and practitioners alike

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