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Organic Light-Emitting Devices Organic Light Emitting Devices Organic Light-emitting Devices Organic Light Emitting Devices Organic Light-emitting Materials and Devices OLED Fundamentals Polymers for Light-emitting Devices and Displays Micro Light Emitting Diode: Fabrication and Devices Organic Light Emitting Diode Light-Emitting Diodes Light-Emitting Diode Organic Light Emitting Diode General Lighting. Light Emitting Diode (LED) Products and Related Equipment. Terms and Definitions Solution-Processed Organic Light-Emitting Devices Proceedings of the Symposium on Light Emitting Devices for Optoelectronic Applications and the Twenty-Eighth State-of-the-Art Program on Compound Semiconductors Organic Light Emitting Devices Handbook of Organic Light Emitting Devices General Lighting. Organic Light Emitting Diode (OLED) Products and Related Equipment. Terms and Definitions Organic Light Emitting Diode (OLED) Toward Smart Lighting and Displays Technologies Organic Light-emitting Materials and Devices VIII Organic Light-emitting Materials and Devices IV Device Architecture and Materials for Organic Light-Emitting Devices Handbook of Luminescence, Display Materials, and Devices: Organic light-emitting diodes Optimization of Multilayer Organic Light-emitting Devices Light-Emitting Diodes Reliability Investigation of LED Devices for Public Light Applications Colloidal Quantum Dot Light Emitting Diodes Silicon Light-Emitting Diodes and Lasers Recent Advances in Flexible Organic Light-Emitting Devices Light-Emitting Diodes Nonclassical Light from Semiconductor Lasers and LEDs Wide Bandgap Light Emitting Materials And Devices Organic Light Emitting Diode Displays. Terminology and Letter Symbols Advances in Organic Light-emitting Devices Polyfluorene Light-emitting Devices and A-SI:H TFT Pixel Circuits for Active-matrix Organic Light-emitting Displays Materials for Solid State Lighting and Displays Light-emitting Diodes Perovskite Light Emitting Diodes Organic Light-Emitting Materials and Devices, Second Edition Handbook of Solid-State Lighting and LEDs

Organic Light-Emitting Devices 2013-03-20

although it has long been possible to make organic materials emit light it has only recently become possible to do so at the level and with the efficiency and control necessary to make the materials a useful basis for illumination in any but the most specialized uses this book surveys the current status of the field

Organic Light Emitting Devices 2006-05-12

this high class book reflects a decade of intense research culminating in excellent successes over the last few years the contributions from both academia as well as the industry leaders combine the fundamentals and latest research results with application know how and examples of functioning displays as a result all the four important aspects of oleds are covered syntheses of the organic materials physical theory of electroluminescence and device efficiency device conception and construction characterization of both materials and devices the whole is naturally rounded off with a look at what the future holds in store the editor klaus muellen is director of the highly prestigious mpi for polymer research in mainz germany while the authors include nobel laureate alan heeger one of the most notable founders of the field richard friend as well as ching tang eastman kodak s number one oled researcher known throughout the entire community for his key publications

Organic Light-emitting Devices 2002

this book describes the state of the art advancement in the field of organic electroluminescence contributed by many researchers with internationally established expertise in the field it includes original contributions on the synthesis of suitable organic materials fabrication of organic light emitting devices oleds and organic white light emitting devices woleds characterization of these devices and some designs for optimal performance all chapters are self sufficient in presenting their contents the cost effective chemical technology offers many exciting possibilities for oleds and organic solar cells oscs to be futuristic solutions for lighting and power generation a common flexible substrate can be used to fabricate oleds on one side facing a room and oscs on the other side facing the sun the device thus fabricated can generate power in the day time and light a room house at night the book covers developments on oleds woleds and briefly on oscs as well

Organic Light Emitting Devices 2012-11-14

a comprehensive source for taking on the next stage of oled r d oled fundamentals materials devices and processing of organic light emitting diodes brings together key topics across the field of organic light emitting diodes oleds from fundamental chemistry and physics to practical materials science and engineering aspects to design and manufacturing factors experts from top academic institutions industry and national laboratories provide thorough up to date coverage on the most useful materials devices and design and fabrication methods for high efficiency lighting the first part of the book covers all the construction materials of oled devices from substrate to encapsulation for the first time in book form the second part addresses challenges in devices and processing including architectures and methods for new oled lighting and display technologies the book is suitable for a broad audience including materials scientists device physicists synthetic chemists and electrical engineers it can also serve as an introduction for graduate students interested in applied aspects of photophysics and electrochemistry in organic thin films

Organic Light-emitting Materials and Devices 1998

polymers for light emitting devices and displays provides an in depth overview of fabrication methods and unique properties of polymeric semiconductors and their potential applications for leds including organic electronics displays and optoelectronics some of the chapter subjects include the newest polymeric materials and processes beyond the classical structure of pld conjugated polymers and their application in the light emitting diodes oleds plds as optoelectronic devices the novel work carried out on electrospun nanofibers used for leds the roles of diversified architectures layers components and their structural modifications in determining efficiencies and parameters of plds as high performance devices polymer liquid crystal devices plcs their synthesis and applications in various liquid crystal devices lcs and displays reviews the state of art of materials and technologies to manufacture hybrid white light emitting diodes based on inorganic light sources and organic wavelength converters

OLED Fundamentals 2015-05-15

this book focuses on basic fundamental and applied aspects of micro led ranging from chip fabrication to transfer technology panel integration and various applications in fields ranging from optics to electronics to and biomedicine the focus includes the most recent developments including the uses in large large area display vr ar display and biomedical applications the book is intended as a reference for advanced students and researchers with backgrounds in optoelectronics and display technology micro leds are thin light emitting diodes which have attracted considerable research interest in the last few years they exhibit a set of exceptional properties and unique optical electrical and mechanical behaviors of fundamental interest with the capability to support a range of important exciting applications that cannot be easily addressed with other technologies the content is divided into two parts to make the book approachable to readers of various backgrounds and interests the first provides a detailed description with fundamental materials and production approaches and assembly manufacturing strategies designed to target readers who seek an understanding of essential materials and production approaches and assembly manufacturing strategies designed to target readers who want to understand the foundational aspects the second provides detailed comprehensive coverage of the wide range of device applications that have been achieved this second part targets readers who seek a detailed account of the various applications that are enabled by micro leds

Polymers for Light-emitting Devices and Displays 2020-05-19

this book contains a collection of latest research developments on organic light emitting diodes oled it is a promising new research area that has received a lot of attention in recent years here you will find interesting reports on cutting edge science and technology related to materials fabrication processes and real device applications of oleds i hope that the book will lead to systematization of oled study creation of new research field and further promotion of oled technology for the bright future of our society

Micro Light Emitting Diode: Fabrication and Devices 2022-01-04

comprehensive in scope this book covers the latest progresses of theories technologies and applications of leds based on iii v semiconductor materials such as basic material physics key device issues homoepitaxy and heteroepitaxy of the materials on different substrates quantum efficiency and novel structures and more packaging and system integration the authors describe the latest developments of leds with spectra coverage from ultra violet uv to the entire visible light wavelength the major aspects of leds such as material growth chip structure packaging and

reliability are covered as well as emerging and novel applications beyond the general and conventional lightings this book written by leading authorities in the field is indispensable reading for researchers and students working with semiconductors optoelectronics and optics addresses novel led applications such as leds for healthcare and wellbeing horticulture and animal breeding editor and chapter authors are global leading experts from the scientific and industry communities and their latest research findings and achievements are included foreword by hiroshi amano one of the 2014 winners of the nobel prize in physics for his work on light emitting diodes

Organic Light Emitting Diode 2011-07-27

the broad vision of this book is to offer book lovers a comprehensive appraisal of topics in the global advancements of experimental facts instrumentation and practical applications of led and oled materials and their applications the prime feature of this book is connected with led and oled materials approaches of fabrication optimization limits and their extensive technical applications this book is comprised of seven chapters encompassing the importance of leds and oleds the history of leds and oleds with necessary examples the phototoxic cum bactericidal effect due to the usage of blue led irradiation dc network indoor and outdoor led lighting wleds with thermally activated delayed fluorescence emitters tetradentate cyclometalated platinum ii complex based efficient organic leds the impact of the use of large led lighting loads in low voltage networks highly efficient oleds using thermally activated delayed fluorescent materials and algan deep ultraviolet leds individual chapters provide a base for the wide range of common bibliophiles in diversified fields students and researchers who may conduct research pertinent to this book and will find simply explained basics as well as advanced principles of designated subjects related to these phenomena the book was created from seven contributions from experts in the diversified fields of led and oled fabrication and technology from over 15 research institutes across the globe

Light-Emitting Diodes 2019-01-07

organic light emitting diodes oleds have attracted enormous attention in the recent years because of their potential for flat panel displays and solid state lighting this potential lies in the amazing flexibility offered by the synthesis of new organic compounds and by low cost fabrication techniques making these devices very promising for the market the idea that flexible devices will replace standard objects such as television screens and lighting sources opens indeed a new scenario where the research is very exciting and multidisciplinary the aim of the present book is to give a comprehensive and up to date collection of contributions from leading experts in oleds the subjects cover fields ranging from molecular and nanomaterials used to increase the efficiency of the devices to new technological perspectives in the realization of structures for high contrast organic displays and low cost organic white light sources the volume therefore presents a wide survey on the status and relevant trends in oleds research thus being of interest to anyone active in this field in addition the present volume could also be used as a state of the art introduction for young scientists

Light-Emitting Diode 2018-09-19

vocabulary optical properties of materials lighting equipment light emitting diodes luminaires modules terminology light emitting devices electric lamps

Organic Light Emitting Diode *2010-08-18*

solution processed organic light emitting devices provides a comprehensive reference on the principles and advances in materials design device structures and processing technologies of organic light emitting diodes oleds most importantly the book analyses the dynamics of thin film growth from solutions such as solvent orthogonalization coffee ring effects and interfacial adhesion exciton generation and utilization host guest energy transfer and interfacial interaction in the solution processed films are considered with the material and device design to maximize the electroluminescent performance of oleds the book reviews the materials devices and technologies dedicated to solution processed thin film devices which are not only applicable to oleds but may be adapted to other emerging semiconducting devices due to the similarity in methods for instance quantum dot leds and solar cells and perovskite based leds photovoltaics detectors this book is suitable for researchers in academia and industry working in the materials science and engineering chemistry and physics disciplines discusses the most relevant and emerging solution processable materials for oled applications reviews device engineering to address defects charge transport and exciton generation in fabricated solution processable thin films provides the methods to grow multilayered thin films from solutions with organic semiconductors with particular attention to new technologies to overcome interfacial mixing effects

General Lighting. Light Emitting Diode (LED) Products and Related Equipment. Terms and Definitions *1914-10-31*

this book describes the state of the art advancement in the field of organic electroluminescence contributed by many researchers with internationally established expertise in the field it includes original contributions on the synthesis of suitable organic materials fabrication of organic light emitting devices oleds and organic white light emitting devices woleds characterization of these devices and some designs for optimal performance all chapters are self sufficient in presenting their contents the cost effective chemical technology offers many exciting possibilities for oleds and organic solar cells oscs to be futuristic solutions for lighting and power generation a common flexible substrate can be used to fabricate oleds on one side facing a room and oscs on the other side facing the sun the device thus fabricated can generate power in the day time and light a room house at night the book covers developments on oleds woleds and briefly on oscs as well

Solution-Processed Organic Light-Emitting Devices 2023-09-15

this book discusses modern developments in the field of organic electroluminescence with contributions from several researchers with internationally established expertise in the field novel developments give way to flexible low cost fabrication techniques for light emitting materials primarily in display technologies the book includes unique contributions on the synthesis of appropriate organic materials fabrication of natural light emitting devices and natural white light emitting devices classification of these devices and a few designs for most favorable performance the cost effective chemical technology offers many exciting possibilities for organic solar cells oscs and oleds to be futuristic solutions for lighting and power generation an ordinary flexible substrate can be used to produce oleds on one surface in front of a room and oscs on the other surface in front of the sun thus such a device can be used to generate power in the day and light rooms in the night time this book discusses all such aspects of such oleds woleds and oscs as well

Proceedings of the Symposium on Light Emitting Devices for Optoelectronic Applications and the Twenty-Eighth State-of-the-Art Program on Compound Semiconductors 1998

light emitting diodes diodes light emitting devices organic chemistry polymers optoelectronic devices electronic equipment and components semiconductor devices visual inspection testing performance testing quality control colour

Organic Light Emitting Devices 2012

the book organic light emitting diode oled toward smart lighting and displays technologies edited by laxman singh rituraj dubey and prof r n rai strives to address the multiple aspects of oleds and their applications in developing smart lightings and displays oleds have been used in almost all kinds of digital displays like those of mobile phones laptops tablets phablets tvs etc due to their outstanding features including superior color quality low cost wide viewing angle easy fabrication mercury free manufacture tenability stretchability flexibility etc investigations related to the synthesis of new organic materials and fabrication techniques have inspired us to write this book which will fulfil the desire and thirst of oleds based researchers features nanolithographic techniques used and the challenges involved printing technology for fabrication designing of hybrid perovskites stretchable and flexible materials used metal dielectric composites and efficiency of organic semiconductor via molecular doping for oleds applications organic small molecule materials and display technologies involved new generation of organic materials with respect to photophysical approach mixed valence π conjugated coordination polymers used electroluminescent polymer used blue fluorescent and phosphorescent organic materials used in comparison to other books available related to similar topics this book aims at those audiences who are looking for a single source for a comprehensive understanding of strategies and their challenges with respect to material fabrication of oleds this book covers the pace and productivity at a uniform level in each chapter with respect to the audiences from doctoral student to postdoctoral researchers or from postdoctoral researchers to multidisciplinary field researchers with a background in physics chemistry materials science and engineering who are already working with organic materials and their applications

Handbook of Organic Light Emitting Devices 2015-03-23

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

General Lighting. Organic Light Emitting Diode (OLED) Products and Related Equipment. Terms and Definitions 1916-08-31

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

Organic Light Emitting Diode (OLED) Toward Smart Lighting and Displays Technologies

2023-09-29

device architecture and materials for organic light emitting devices focuses on the design of new device and material concepts for organic light emitting devices thereby targeting high current densities and an improved control of the triplet concentration a new light emitting device architecture the oled with field effect electron transport is demonstrated this device is a hybrid between a diode and a field effect transistor compared to conventional oleds the metallic cathode is displaced by one to several micrometers from the light emitting zone reducing optical absorption losses the electrons injected by the cathode accumulate at an organic heterojunction and are transported to the light emission zone by field effect high mobilities for charge carriers are achieved in this way enabling a high current density and a reduced number of charge carriers in the device pulsed excitation experiments show that pulses down to 1 μ s can be applied to this structure without affecting the light intensity suggesting that pulsed excitation might be useful to reduce the accumulation of triplets in the device the combination of all these properties makes the oled with field effect electron transport particularly interesting for waveguide devices and future electrically pumped lasers in addition triplet emitter doped organic materials as well as the use of triplet scavengers in conjugated polymers are investigated

Organic Light-emitting Materials and Devices VIII 2004

reliability investigation of led devices for public light applications focuses on state of the art gan based led technology through the study of typical failure mechanisms in public lighting applications across the different chapters the reader will explore the tools and analyses involved in the study and application of a number of different led devices the authors review gan based led technology by focusing on the main failure mechanisms targeting polymer based packaging thanks to electrical and spectral models the proposed technology and methodologies will help those interested in the topic to further their knowledge of failure mechanisms exploring the physical and chemical analyses involved based on the work of two main phd results in 2011 and 2014 describes gan technology in the state of the art focusing on the specific electrical and spectral model proposes the technology and methodologies to understand failure mechanisms

Organic Light-emitting Materials and Devices IV 2001

explore all the core components for the commercialization of quantum dot light emitting diodes quantum dot light emitting diodes qdleds are a technology with the potential to revolutionize solid state lighting and displays due to the many applications of semiconductor nanocrystals of which qdleds are an example they also hold the potential to be adapted into other emerging semiconducting technologies as a result it is critical that the next generation of engineers and materials scientists understand these diodes and their latest developments colloidal quantum dot light emitting diodes materials and devices offers a comprehensive introduction to this subject and its most recent research advancements beginning with a summary of the theoretical foundations and the basic methods for chemically synthesizing colloidal semiconductor quantum dots it identifies existing and future applications for these groundbreaking technologies the result is tailored to produce a thorough understanding of this area of research colloidal quantum dot light emitting diodes readers will also find an author with decades of experience in the field of organic electronics detailed discussion of topics including advanced display technologies the patent portfolio and commercial considerations and more strategies and design techniques for improving device performance colloidal quantum dot light emitting diodes is ideal for material scientists electronics

engineers inorganic and solid state chemists solid state and semiconductor physicists photochemists and surface chemists as well as the libraries that support these professionals

Device Architecture and Materials for Organic Light-Emitting Devices 2011-05-10

this book focuses on a novel phenomenon named photon breeding it is applied to realizing light emitting diodes and lasers made of indirect transition type silicon bulk crystals in which the light emission principle is based on dressed photons after presenting physical pictures of dressed photons and dressed photon phonons the principle of light emission by using dressed photon phonons is reviewed a novel phenomenon named photon breeding is also reviewed next the fabrication and operation of light emitting diodes and lasers are described the role of coherent phonons in these devices is discussed finally light emitting diodes using other relevant crystals are described and other relevant devices are also reviewed

Handbook of Luminescence, Display Materials, and Devices: Organic light-emitting diodes 2003

white organic light emitting devices would be of considerable interest owing to their attractive characteristics and potential application to flat panel display and solid state lighting source currently would be the new increasing point in the area of organic optoelectronics due to their high power efficiency after a brief overview of the would be operating principles and basic emitting structure this book presents a review of recent progress in would be structure and materials

Optimization of Multilayer Organic Light-emitting Devices 2003

supplies readers with the basic knowledge and guidance for the application of new lasers and light emitting devices the first part of the book discusses the generation of sub shot noise light in macroscopic pn junction light emitting devices the second part is on the application of squeezed light in high precision measurement the third part concerns the coulomb blockade effect in a mesoscopic pn junction and generation of single photon states and the last part is on the detection of single photons using a visible light photon counter

Light-Emitting Diodes 2012

wide bandgap light emitters include laser diodes and light emitting diodes led the most modern diodes widely used in current technologies as microelectronics and optoelectronics rapid advances have been made during the last few years with the result that more research is devoted to applications in line with the expanding market for optoelectronics this volume deals with recent research results on wide bandgap light emitting materials introducing new concepts for devices based on these materials the editors scientists with the best reputations have invited authors from different institutions who are acknowledged researchers in the field as well as being involved in industrial applications they represent several lines of research iii nitride compounds zno and znse the most promising materials for device applications

Reliability Investigation of LED Devices for Public Light Applications 2017-03-09

light emitting diodes diodes light emitting devices organic chemistry polymers optoelectronic devices electronic equipment and components semiconductor devices terminology symbols

Colloidal Quantum Dot Light Emitting Diodes 2024-02-20

organic electroluminescence oel is the phenomenon of electrically driven emission of light from organic materials including both fluorescent and phosphorescent organic solids the organic light emitting device oled which exploits oel emission from organic semiconducting thin films with thicknesses of less than a few hundred nanometers sandwiched between electrodes has attracted keen interest in its application to flat panel displays due to its high luminous efficiency low driving voltage tunable colors as well as a convenient device structure design and low fabrication costs when compared with every other known display device

Silicon Light-Emitting Diodes and Lasers 2016-07-28

leds are in the midst of revolutionizing the lighting industry up to date and comprehensive coverage of light emitting materials and devices used in solid state lighting and displays presents the fundamental principles underlying luminescence includes inorganic and organic materials and devices leds offer high efficiency long life and mercury free lighting solutions

Recent Advances in Flexible Organic Light-Emitting Devices 2010

includes proceedings vol 7821

Light-Emitting Diodes 2016

perovskite light emitting diodes an introduction to revolutionary display technology perovskite light emitting diodes commonly referred to as pe leds leverage a perovskite nanocrystal core to engender a luminous and efficient diode holding the potential to bring about a paradigm shift in the realm of display technology in recent times pe leds have garnered substantial industrial interest due to their intrinsic capability to exhibit a diverse array of colors with exceptional fidelity their operation at low voltage thresholds and their straightforward structural composition the prospective implications for enabling cost effective heightened performance flat panel displays as well as flexible display solutions remain notably profound perovskite light emitting diodes materials and devices presents a comprehensive and insightful overview of these diodes and their multifaceted applications commencing with an incisive exploration of the historical trajectory of this technology alongside a delineation of its foundational materials and intricate device architectures this compendium provides a gateway into both contemporaneous state of the art deployments and the vanguard of ongoing research endeavors directed towards charting future advancements perovskite light emitting diodes readers will also find stability analysis for different pe led devices a key aspect of creating physical displays authorship by an established expert in organic electronics detailed discussion of perovskite preparation methods including ultrasonic solvent heat thermal injection and many more perovskite light emitting

diodes is ideal for materials scientists electrical engineers solid state chemists solid state physicists inorganic chemists and any researchers or engineers working with display technology

Nonclassical Light from Semiconductor Lasers and LEDs 2007-10-01

organic light emitting materials and devices provides a single source of information covering all aspects of oleds including the systematic investigation of organic light emitting materials device physics and engineering and manufacturing and performance measurement techniques this second edition is a compilation of the advances made in recent years and of the challenges facing the future development of oled technology featuring chapters authored by internationally recognized academic and industrial experts this authoritative text introduces the history fundamental physics and potential applications of oleds reviews the synthesis properties and device performance of electroluminescent materials used in oleds reflects the current state of molecular design exemplifying more than 600 light emitting polymers and highlighting the most efficient materials and devices explores small molecules based oleds detailing hole and electron injection and electron transport materials electron and hole blocking materials sensitizers and fluorescent and phosphorescent light emitting materials describes solution processable phosphorescent polymer leds energy transfer processes polarized oleds anode materials and vapor deposition manufacturing techniques employed in oled fabrication discusses flexible display the backplane circuit technology for organic light emitting displays and the latest microstructural characterization and performance measurement techniques contains abundant diagrams device configurations and molecular structures clearly illustrating the presented ideas organic light emitting materials and devices second edition offers a comprehensive overview of the oled field and can serve as a primary reference for those needing additional information in any particular subarea of organic electroluminescence this book should attract the attention of materials scientists synthetic chemists solid state physicists and electronic device engineers as well as industrial managers and patent lawyers engaged in oled related business areas

Wide Bandgap Light Emitting Materials And Devices 1910-02-28

this handbook addresses the development of energy efficient environmentally friendly solid state light sources in particular semiconductor light emitting diodes leds and other solid state lighting devices it reflects the vast growth of this field and impacts in diverse industries from lighting to communications biotechnology imaging and medicine the chapters include coverage of nanoscale processing fabrication of leds light diodes photodetectors and nanodevices characterization techniques application and recent advances readers will obtain an understanding of the key properties of solid state lighting and led devices an overview of current technologies and appreciation for the challenges remaining the handbook will be useful to material growers and evaluators device design and processing engineers newcomers students and professionals in the field

Organic Light Emitting Diode Displays. Terminology and Letter Symbols 2008

Advances in Organic Light-emitting Devices 2000

Polyfluorene Light-emitting Devices and A-Si:H TFT Pixel Circuits for Active-matrix Organic Light-emitting Displays 2017-03-06

Materials for Solid State Lighting and Displays 2012-01-01

Light-emitting Diodes 2024-01-03

Perovskite Light Emitting Diodes 2015-06-24

Organic Light-Emitting Materials and Devices, Second Edition 2017-06-12

Handbook of Solid-State Lighting and LEDs

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