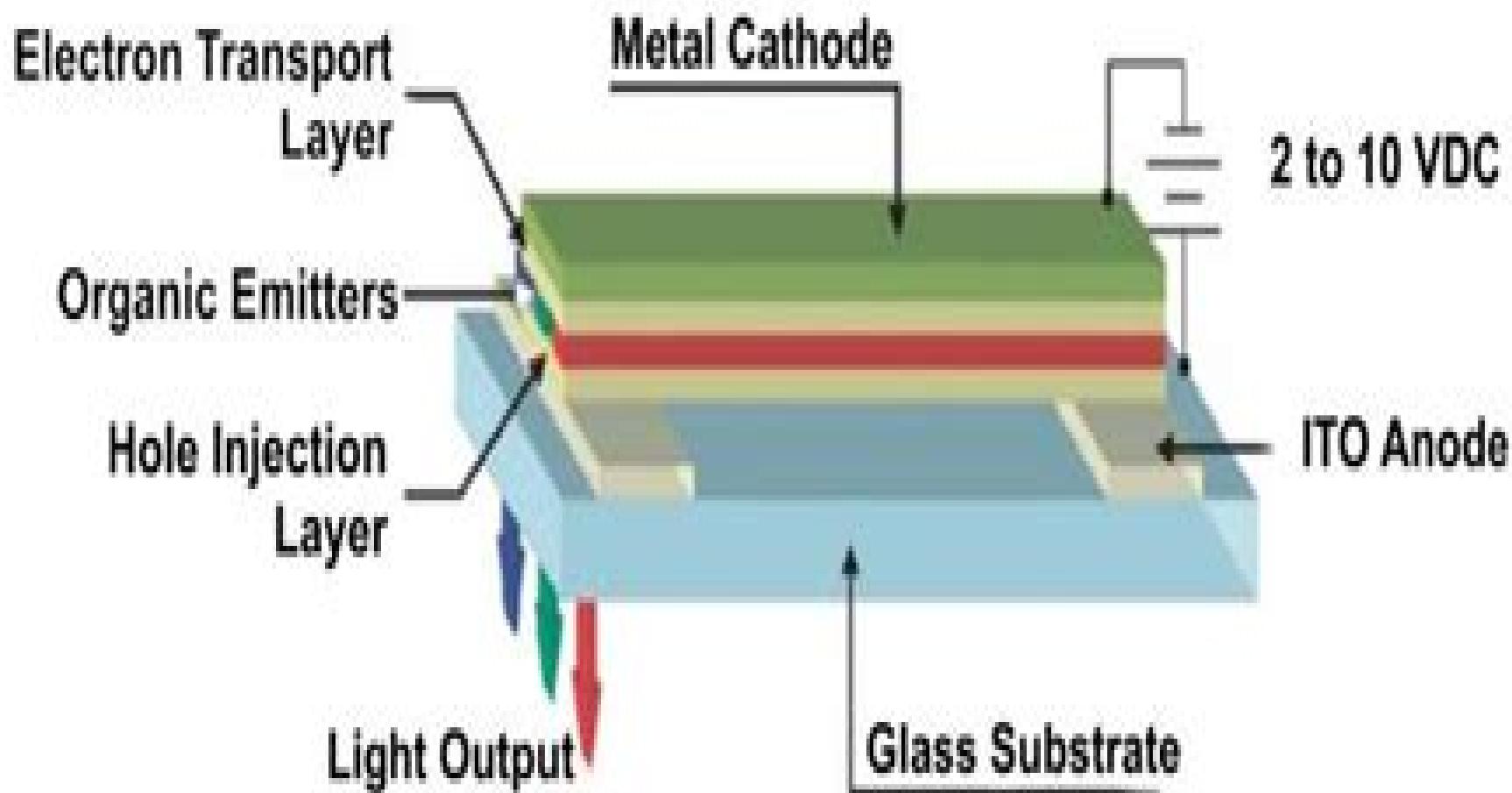


## OLED Working Principle



# Organic Light Emitting Diodes

**Klaus Müllen, Ullrich Scherf**

## Organic Light Emitting Diodes:

**Efficient Organic Light Emitting-Diodes (OLEDs)** Yi-Lu Chang, 2015-08-03 Following two decades of intense research globally the organic light emitting diode OLED has steadily emerged as the ultimate display technology of choice for the coming decades Portable active matrix OLED displays have already become prevalent and even large sized ultra high definition 4K TVs are being mass produced More exotic applications [Organic Light-Emitting Diodes \(OLEDs\)](#) Alastair Buckley, 2013-08-31 Organic light emitting diodes OLEDs are opening up exciting new applications in the area of lighting and displays OLEDs are self emissive and by careful materials and device design can generate colours across the visible spectrum Together with simple monolithic fabrication on a range of different substrates these diverse material properties give OLEDs key advantages over existing display and lighting technology This important book summarises key research on materials engineering and the range of applications of these versatile materials Part one covers materials for OLEDs Chapters review conjugated polymers transparent conducting thin films iridium complexes and phosphorescent materials Part two discusses the operation and engineering of OLED devices Chapters discuss topics such as highly efficient pin type OLEDs amorphous organic semiconductors nanostructuring techniques light extraction colour tuning printing techniques fluorenone defects and disruptive characteristics as well as durability issues Part three explores the applications of OLEDs in displays and solid state lighting Applications discussed include displays microdisplays and transparent OLEDs sensors and large area OLED lighting panels Organic light emitting diodes OLEDs is a standard reference for engineers working in lighting display technology and the consumer electronics sectors as well as those researching OLEDs Summarises key research on the materials engineering and applications of OLEDs Reviews conjugated polymers transparent conducting thin films Considers nanostructuring OLEDs for increasing levels of efficiency

**OLED Fundamentals** Daniel J. Gaspar, Evgeni Polikarpov, 2015-05-15 A Comprehensive Source for Taking on the Next Stage of OLED R DOLED 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 ma [Organic Light-emitting Diodes \(OLED\)](#) Douglas Rivera, 2016 Organic light emitting diodes OLEDs are considered as the most promising technology for next generation display and solid state lighting for their advantages such as surface emitting ease for large area manufacturing viability for flexible and transparent applications low energy consumption and potential to be low cost Chapter one of this book discusses tandem OLEDs which are technologically interesting because not only can the luminance and current efficiency be improved linearly with the number of electroluminescent EL units in the tandem OLED but also leakage current and breakdown of the electric field can be avoided due to the higher luminance at a low current density and the thicker organic films resulting in a long lifetime Chapter two mainly deals with the low cost synthesis and characterization of amino amino chloro dichloro and trichloro substituted derivatives of diphenyl quinoline DPQ Chapter

three aims at reporting the last strategies that have been developed to address the issue of roll off

## Principles and

**Applications of Organic Light Emitting Diodes (OLEDs)** N. Thejo Kalyani, Hendrik C. Swart, Sanjay J. Dhoble, 2017-05-15 Principles and Applications of Organic Light Emitting Diodes OLEDs explores the ways in which the development of organic semiconductor materials is opening up new applications in electronic and optoelectronic luminescent devices. The book begins by covering the principles of luminescence and the luminescent properties of organic semiconductors. It then covers the development of luminescent materials for OLEDs, discussing the advantages and disadvantages of organic versus inorganic luminescent materials. The fabrication and characterization of OLEDs is also covered in detail, including information on and comparisons of vacuum deposition and solution techniques. Finally, applications of OLEDs are explored, including OLEDs in solid state lighting, colored lighting displays, and potential future applications such as ultra-thin and flexible technologies. This book is an excellent resource both for experts and newcomers to the field of organic optoelectronics and OLEDs. It is ideal for scientists working on optical devices, lighting display and imaging technologies, and for all those engaged in research in photonics, luminescence and optical materials. Provides a one-stop guide to OLED technology for the benefit of newcomers to the field of organic optoelectronics. Comprehensively covers the luminescent properties of organic semiconductors and their development into OLED materials. Offers practical information on OLED fabrication and their applications in solid state lighting and displays, making this essential reading for optoelectronics engineers and materials scientists.

*Organic Light Emitting Diode (OLED) Toward Smart Lighting and Displays Technologies* Laxman Singh, Rituraj Dubey, R. N. Rai, 2023-09-29 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 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 **OLED Displays and Lighting** Mitsuhiro Koden,2016-11-15 Explains the fundamentals and practical applications of flat and flexible OLEDs for displays and lighting Organic light emitting diodes OLEDs have emerged as the leading technology for the new display and lighting market OLEDs are solid state devices composed of thin films of organic molecules that create light with the application of electricity OLEDs can provide brighter crisper displays on electronic devices and use less power than conventional light emitting diodes LEDs or liquid crystal displays LCDs used today This book covers both the fundamentals and practical applications of flat and flexible OLEDs Key features Covers all of the aspects necessary to the design and manufacturing of OLED displays and lighting Explains the fundamental basic technologies and also related technologies which might contribute to the next innovation in the industry Provides several indications for future innovation in the OLED industry Includes coverage of OLED vacuum deposition type and solution type materials The book is essential reading for early career engineers developing OLED devices and OLED related technologies in industrial companies such as OLED device fabrication companies **Organic Light Emitting Diode** Seung Hwan Ko,2011-07-27 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 **Organic Light Emitting Diode** Marco Mazzeo,2010 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 **Organic Light Emitting Diodes** Luiz F. R. Pereira,2012-05-29 This book addresses the development of OLEDs based on rare earth and transition metal complexes especially focusing on europium terbium ruthenium and rhenium The idea is to explain how these organic

materials can be used to build OLEDs Taking into account the actual state of the art and the expected pathways the book proposes further develop **Highly Flexible Top-emitting Phosphorescent Organic Light Emitting Diodes (OLEDs)**. Yan Wang,2014 **Organic Light-Emitting Diodes** Jan Kalinowski,2018-10-03 Organic Light Emitting Diodes Principles Characteristics and Processes presents recent developments in organic electroluminescence and their application to light emitting diodes In six chapters and complete with an extensive set of references it describes and illustrates the physical principles of organic LEDs and their electrical and optical characteristics with a wide range of examples and practical studies The author presents a unified approach to the description and functioning of organic LEDs based on a comprehensive background of relevant physical processes and provides a clear foundation for the prediction and design of new improved electroluminescent devices **Organic Light Emitting Diode** Seung Hwan Ko,2011-07-27 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

**Organic Light Emitting Diodes with Structured Electrodes** ,2012 A cathode that contain nanostructures that extend into the organic layer of an OLED has been described The cathode can have an array of nanotubes or a layer of nanoclusters extending out from its surface In another arrangement the cathode is patterned and etched to form protruding nanostructures using a standard lithographic process Various methods for fabricating these structures are provided all of which are compatible with large scale manufacturing OLEDs made with these novel electrodes have greatly enhanced electron injection have good environmental stability **Organic Electroluminescence** Zakya H. Kafafi,2018-10-03 Organic light emitting diode OLED technology has achieved significant penetration in the commercial market for small low voltage and inexpensive displays Present and future novel technologies based on OLEDs involve rigid and flexible flat panel displays solid state lighting and lasers Display applications may range from hand held devices to large flat panel screens that can be rolled up or hung flat on a wall or a ceiling Organic Electroluminescence gives an overview of the on going research in the field of organic light emitting materials and devices covering the principles of electroluminescence in organic thin films as well as recent trends current applications and future potential uses The book begins by giving a background of organic electroluminescence in terms of history and basic principles It offers details on the mechanism s of electroluminescence in thin organic films It presentsin depth discussions of the parameters that control the external electroluminescence quantum efficiency including the photoluminescence quantum yield the light output coupling factor carrier charge injection and transport and electron and hole recombination processes in organic semiconductors The authors address the design and the characterization of amorphous charge transport materials with high glass transition temperatures light emitting small

molecules and conjugated polymers The book covers state of the art concepts and technologies such as fluorescent and phosphorescent OLEDs various approaches for patterning organics and active matrix organic emissive displays including their back panel thin film transistors and pixel electronics It concludes by summarizing future directions for OLEDs in organic light emitting displays large area distributed solid state light sources and lasers using organic thin films nanostructures and photonic crystals Organic Electroluminescence is an excellent resource and reference for stu

**Air-stable Inverted Organic Light-emitting Diodes** Katsuyuki Morii,2020 This concise volume provides an introduction to the working principles design and construction of air stable inverted organic light emitting diodes OLEDs leading to the realization of practical flexible organic optoelectronics for displays and lighting The first part of the book considers the requirements for air stability of OLED devices the challenges involved in achieving air stability and the history of approaches to the problem It goes on to describe hybrid organic inorganic LEDs and their carrier injection mechanism and summarises the early phase of inverted OLED development The third part focuses on the electron injection layer and interfacial engineering and finally the book describes the inverted OLED and the carrier injection mechanism in recently developed devices The book will be of interest to students and researchers working on practical organic optoelectronics

**Organic Light-emitting Diodes** Jan Kalinowski,2005      **Organic Light Emitting Devices** Klaus Müllen, Ullrich Scherf,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 Diode (OLED) Displays. Measuring Methods of Transparent Properties* British Standards Institute Staff,1917-09 Optoelectronic devices Diodes Measurement Light emitting diodes Light emitting devices Semiconductor devices Electronic equipment and components      *Organic Light Emitting Diode (OLED) Displays. Measuring Methods of Image Quality* British Standards Institute Staff,1912-10-31 Light emitting diodes Diodes Semiconductor diodes Semiconductor devices Light emitting devices Electronic equipment and components Quality assurance systems Specification approval Assessed quality Approval testing

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