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Organic Light Emitting  
Diodes (OLEDs)

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OLED - Organic Light  
Emitting Diodes - Part 1 **LEDs**

**and OLEDs - How it Works,  
Inventors OLED- Organic  
Light Emitting Diode**

~~Introduction to OLED~~  
~~displays~~ Preparation Of An  
Organic Light Emitting Diode

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Revolutionized Displays:

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LED Vs OLED TV's - EXPLAINED SIMPLY *Organic Light-Emitting Diodes (OLEDs) OLED TV, Organic Light Emitting Diode Television*

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Basics of Organic Light Emitting Displays (OLED)

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Organic Light Emitting Diodes (OLEDs) | Science and Technology | Prelims 3 Minutes Series **Organic Light**

**Emitting Diode (OLED)** And

Organic Light Emitting Diode (OLED)

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Dr Alexander Romanov: Novel materials for Organic Light Emitting Diodes technology  
*H2020 HyperOLED project*  
*video* ~~Organic Light Emitting Diodes Oleds~~

An organic light-emitting diode (OLED or organic LED), also known as organic electroluminescent (organic EL) diode, is a light-emitting diode (LED) in which the emissive electroluminescent layer is a film of organic compound

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that emits light in response to an electric current. This organic layer is situated between two electrodes; typically, at least one of these electrodes is transparent.

~~OLED — Wikipedia~~

Organic light emitting diodes (devices) or OLEDs are monolithic, solid-state devices that typically consist of a series of organic thin films sandwiched between two thin-film conductive electrodes. When electricity is applied to an OLED, under the influence of an electrical field, charge carriers (holes and electrons)

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migrate from the electrodes into the organic thin films until they recombine in the emissive zone forming excitons.

## Organic Light Emitting Diodes (OLEDs) — Universal Display ...

Organic Light Emitting Diodes (OLEDs) — Universal Display ...

5.2.10 Organic light emitting diodes (OLED) OLEDs are based on certain organic small molecules or polymers that behave as diode semiconductors with an applied current. The organic materials derive their semiconducting properties from their highly conjugated pi-bond molecular structures that allow electrons to flow within or across the

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molecular bonds. Devices

## And Applications

~~Organic Light Emitting Diode  
an overview |~~

~~ScienceDirect ...~~

In contrast to conventional light-emitting diodes (LEDs) - which generate photons using perfectly assembled semiconductor crystals—OLEDs emit light through the use of organic molecules composed ...

~~Invisible organic light-emitting diodes reach new world record~~

In the past three decades, organic light-emitting diodes (OLEDs) have made a huge breakthrough in both research and industry. At



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present, OLED technology is used in commercial applications such as displays for mobile phones and portable digital media players, car radios and digital cameras.

~~Organic Light Emitting Diodes (OLEDs) | ScienceDirect~~

There are two different types of OLED. Traditional OLEDs use small organic molecules deposited on glass to produce light. The other type of OLED uses large plastic molecules called polymers. Those OLEDs are called light-emitting polymers (LEPs) or, sometimes, polymer LEDs

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(PLEDs). Materials Devices

And Applications

~~How OLEDs (organic LEDs)  
work — Explain that Stuff~~

~~Series in Electronic And  
Optical Materials~~

OLED (Organic Light Emitting  
Diodes) is a flat light

emitting technology, made by  
placing a series of organic  
thin films between two  
conductors. When electrical  
current is applied, a bright  
light is emitted.

~~OLED introduction and basic  
OLED information | OLED Info~~

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

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electronic devices and use less power than conventional light-emitting diodes (LEDs) or liquid crystal displays (LCDs) used today.

## Optical Materials

~~How OLEDs Work |~~

~~How Stuff Works~~

Organic light-emitting diodes (OLEDs) In an organic light-emitting diode , the electroluminescent material composing the emissive layer of the diode is an organic compound. The organic material is electrically conductive due ...

~~Light emitting diode -~~

~~Wikipedia~~

OLED panels are made from organic materials that emit

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light when electricity is applied through them. Since OLEDs do not require a backlight and filters (like LCD displays do), they are more efficient, simpler to make, and much thinner - and in fact can be made flexible and even rollable.

~~OLED technology:~~

~~introduction and basics +~~

~~OLED Info~~

Organic light-emitting diodes (OLEDs) produced from metal complexes play an important role in modern electroluminescent devices. While OLEDs are being used in display various applications such as TVs, smartphones and wearables

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already, a drastic increase in the production volume in the next years is being expected as soon as OLED lighting applications and printed OLEDs hit the market.

~~Sustainable metal complexes for organic light emitting~~  
~~...~~

Organic light-emitting diodes (OLEDs) are established as a mainstream light source for display applications and can now be found in a plethora of consumer electronic devices used daily.

~~Organic Light-Emitting Diodes: Pushing Toward the~~

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~~Limits . . .~~

An OLED (Organic Light-Emitting Diode) is similar to an LED; however, an OLED has an emissive electroluminescent layer of film made up of organic molecules. Light is emitted when electrical current travels through the organic molecules. So, why would you choose an OLED over a LCD (liquid crystal display) or VFD (vacuum fluorescent display)?

~~How Organic Light Emitting Diodes Work~~

Photograph of the Polytechnique Montréal crest taken using visible and infrared illumination.

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Credit: Pr Sébastien Kéna-Cohen You can't see it with the naked eye, but a new fluorescent organic light-emitting diode (OLED) could shed light on the development of innovative applications in devices such as smartphone and television displays using near-infrared light.

~~Invisible organic light-emitting diodes reach new world ...~~

Solution? processable thermally activated delayed fluorescence (TADF) emitters show great potential in reducing the cost of organic light-emitting diodes (OLEDs) for commercial

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Applications. Devices

And Applications

~~Organic Light Emitting  
Diodes: Advanced Optical~~

~~Materials~~

Energy-efficient organic  
light-emitting diodes

(OLEDs) are considered one of the most competitive candidates for next-generation smart displays and particularly for future energy-saving lighting sources. Recently, much effort has been devoted to attempts to generate white OLEDs comprising both fluorescent and phosphorescent materials.

~~Recent development of  
phenanthroimidazole-based~~



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## ~~...~~

In an organic light-emitting diode (OLED), electrons and holes are injected from the cathode and anode, respectively, into multiple organic layers with thicknesses of  $\approx 100$  nm and transported in these layers.

~~The Leap from Organic Light-Emitting Diodes to Organic~~

~~...~~

Thermally activated delayed fluorescence (TADF) materials have become a promising class of photo-functional materials with potential practical applications most exemplified in the field of organic light-emitting

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diodes (OLEDs).  
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