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In the absence of doping, interface dipoles and other interfacial effects and assuming vacuum level alignment the energy barrier for charge carrier injection is in first approximation given by the energetic offset between the work functions of the used metals and the energy levels of the organic material.

Device physics of organic light-emitting diodes based on

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Organic Electronics - Journal - Elsevier

An organic solar cell or plastic solar cell is a type of photovoltaic that uses organic electronics, a branch of electronics that deals with conductive organic polymers or small organic molecules, for light absorption and charge transport to produce electricity from sunlight by the photovoltaic effect. Most organic photovoltaic cells are polymer solar cells.

Organic solar cell - Wikipedia

A dye laser uses a gain medium consisting of an organic dye, which is a carbon-based, soluble stain that is often fluorescent, such as the dye in a highlighter pen. The dye is mixed with a compatible solvent, allowing the molecules to diffuse evenly throughout the liquid. The dye solution may be circulated through a dye cell, or streamed through open air using a dye jet.

Dye laser - Wikipedia

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American Journal of Physics and Applications :: Science

469 Semiconductor Electronics: Materials, Devices and Simple Circuits semiconductors. However, after 1990, a few semiconductor devices using organic semiconductors and semiconducting polymers have been

Chapter Fourteen SEMICONDUCTOR ELECTRONICS: MATERIALS

where n is the refractive index of OLED material and Γ is a constant that depends on the dipole alignment and the geometry of the OLED device. For most of the organic materials n is about 1.7 and taking the value of 2 for Γ , the internal coupling efficiency is only about 20%. According to classical ray optics theory about 80% of generated light is lost in wave-guided modes due to glass ...

A review on the light extraction techniques in organic

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This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry, 3e. Organic Chemistry, 3rd Edition is not merely a compilation of principles, but rather, it is a disciplined method of thought and analysis. Success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems.

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