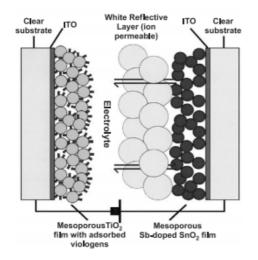
Electrochromic displays

M.Triantafillou

Material science and technology, University of Crete, Heraklion, Vasilika Vouton, Greece

Abstract

Electrochromism can be defined as the property of a material to undergo color change upon oxidation or reduction.



on electrochromic displays based on nanostructured films, that have comparable optical qualities to paper-like displays. This is due to their excellent ink-on-paper optical qualities, fast response time. and low power consumption. The nanostructured are composed nanoparticles of a semiconductor,

There is a significant development

Fig. 1. Device cross-section of a NanoChromics ™ display device.

for example TiO₂ as shown in Fig. 1 and the extremely high surface area that is formed induces the amplification of the color change.

References

[1] P. Bonho^te*, E. Gogniat, F. Campus, L. Walder1 , M. Gra¨tzel. 20 January 1999. Nanocrystalline electrochromic displays. Displays 20 (1999) 137–144.