



Electrode for application in liquid form

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> **Description** This technology consists of a transparent thin film with electrical and optical properties, that can potentially be used as an electrode in electronic and optoelectronic devices. The film also presents high chemical stability, good conductivity and insolubility.

> **Problem** The development of optoelectronic components currently focuses on the manufacture of ultrathin devices processed from soluble materials. However, a large proportion of electrodes are produced from metals and transparent conductive oxides, which must be deposited using techniques that require sophisticated instruments. This new technology produces thin films for use in optoelectronic devices using a water based ink made of organic materials with electronic properties.

> **Benefits** This new technology can be processed from solutions using graphic printing techniques, resulting in significantly higher scales of production and lower costs of optoelectronic devices. It can also be widely applied in the electrical and electronics industry in various components such as cell phones, solar cells, in the automotive industry, in lighting and visual communication devices, among others.