

Researcher

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<u>Transparent</u> <u>Conductive Gold Films</u>

Research

New technology for spontaneous deposition and patterning of thin gold layers upon surfaces. The technology is based on crystallization/ reduction of a gold complex upon polar surfaces. Conductive and transparent films can be generated on planar, non-planar, and flexible surfaces.

Advantages

- Simple synthesis scheme using cheap and readily-available reagents.
- Generic technology that can be implemented on varied surfaces, as well as microwires, fibers, sponges, etc.
- Technology can be easily scaled to larger surface areas.

Applications & Products

- Transparent conductive electrodes
- Smart displays
- Piezo-resistive pressure sensors
- Physiological pressure sensors

Patent Status

A patent application has been submitted and more than 10 papers published in leading journals.