

A comb-shaped surface electrode has been designed by the micromachining technique (Fig. 1). The comb-shaped pattern has been selected for the following reasons: to make orientation of cells, to make oriented stimulation of electric pulses, and to measure oriented signal from cells. The indium tin oxide (ITO) film was used for the surface ...

The poor optical transmittance of common electrodes based on thin metal films in three-terminal parallel tandem solar cells poses a major hindrance to attaining high power conversion efficiency (PCE). High optical transmittance and electrical conductivity of the common electrodes are crucial to achieving high PCE. We report a parallel polymer tandem solar cell ...

We report a parallel polymer tandem solar cell that contains interlayer electrodes with high optical transmittance and low electrical resistance using comb-shaped electrodes ...

This behavior promotes oxidation-reduction reactions which enhances the sensitivity of the electrodes. We developed gold-coated nickel electrodes by electroless gold ...

A piezoelectric actuator includes comb teeth-shaped piezoelectric actuators, each comprising plural piezoelectric layers. A side surface of each tooth is fired. Actuators are made by (1) preparing a plurality of piezoelectric material green sheets on which electrode films are formed and forming slits on a first green sheet using a punch and a die, (2) pulling up the ...

Solar cells made with the electrode comb-teeth structure show good semitransparency and flexibility, as demonstrated by being wrapped around a 9-mm-diameter ...

A pair of comb-teeth electrodes are made from a material substrate including a first conduction layer, a second conduction layer and an intervening insulation layer. The paired electrodes includes first and second comb-teeth electrodes. The first comb-teeth electrode is composed of a first conductor derived from the first conduction layer, a second conductor derived from the ...

Each tooth in the comb has a hexagonal cross-section, ... In the process, a 2D electrode array with a comb-like structure can be assembled on a platform. This method can control the spaces between rows of electrodes more meticulously than the array based on metal wire. As a result of the excellent elasticity of silicon and wet etching, the ...

A 150-um-wide miniature electrode with a 100-um gap between its teeth was fabricated using photolithography. In the experiment, the electrode was contacted onto a tissue phantom consisting of fibroblasts cultured in agarose gel three-dimensionally. ... In this study, we aim to examine the feasibility of a

comb-shaped miniature electrode for ...

The comb-teeth electrode arrangement is specially designed to ensure uniform heat distribution. The coating is realized with a composite material based on aqueous latex dispersed with carbon black ...

The comb-teeth composing the first comb-teeth part and the comb-teeth composing the second comb-teeth part are arranged alternately, and the comb-teeth composing the third comb-teeth part and the comb-teeth composing the fourth comb-teeth part are arranged alternately. ??????.
?1????????????2????????????3???? ...

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