Electric Power Microfilm Electric Second

Here, we show that the polar skyrmions, a topological phase spontaneously formed in PbTiO 3 /SrTiO 3 ferroelectric superlattices, exhibit a high comprehensive electric field-induced ...

SiO x films of varying stoichiometry were deposited by plasma-enhanced chemical vapor deposition (PECVD). Applying an annealing process at 1100°C, silicon nanocrystals formed within ...

The origin of this second-order nonlinearity is the large third-order nonlinear susceptibility of silicon combined with large electric fields generated within reverse-biased p-i-n junctions ...

Here, we report a large tunability of an EFISH signal from a subwavelength-thick polymer film sandwiched between a transparent electrode and a metallic mirror.

Here, we demonstrate that it is possible to engineer microbial biofilms as a cohesive, flexible material for long-term continuous electricity production from evaporating water.

We employ in situ second harmonic generation (SHG) spectroscopy to investigate the built-in electric field in p-type GaAs semiconductor photoelectrodes. Here, the SHG signal increases ...

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Another object of the inventionis to provide a new microfilm article of manufacture which can be thought of as being disposable, but which may be reused over and over again in that the...

Electricity is both a basic part of nature and one of the most widely used forms of energy. The electricity that we use is a secondary energy source because it is produced by converting primary sources of ...

In this work, we have investigated SiO2 as a potential EFISH material for such applications using DC-electric

fields. We were able to observe significant second harmonic generation (SHG) in comparison ...

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