

Abstract Silicon nano-pillars (SiNPs) array can be fabricated by top-down approach on silicon wafer by combining nano-sphere lithography (NSL) with metal assisted chemical etching ...

A review of how nanotechnology is transforming solar cells and improving photovoltaic efficiency. The article explores the role of nanoparticles, nanofluids, and phase change materials in photovoltaic and ...

In this study, a solar air heater was proposed to suit the atmosphere of the city of Baghdad in winter. In this heater, aluminum chip and tubes filled with nano-silicon carbide (SiC) ...

These advantages of silicon nanophotonics have been leveraged by academia and industry to design the alternative for electrical interconnects, i.e., Optical Network-on-Chip (ONoC). ...

In this Special Issue, we aim to bring together up-to-date views of past and current developments in the field, with a particular focus on the most recent theoretical and experimental ...

For this reason, the ultra-thin chips from silicon is gaining interest. This review provides an in-depth analysis of various approaches for obtaining ultra-thin chips from rigid silicon wafer.

We are studying defects that are produced during growth and processing of n-type and p-type Cz and novel silicon (kerfless). The goal is to mitigate the deleterious impact of these defects ...

The stable on-chip optical information transmission capability of the monolithically integrated photonic chips confirms the great potential for application in large-scale on-chip optical communication in the ...

The functionalities of micro-nano optical devices are dependent not only on their structural factors but also on the optical and structural properties of the materials. Here, we will ...

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