ىنوان مقالە:	c
--------------	---

Novel Drain Recessed Oxide SOI-MOSFET For Reduction of Short-Channel-Effects

## محل انتشار:

دوفصلنامه علوم محاسباتی و مهندسی, دوره 2, شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 6

## نویسنده:

Mohammad Kazem Anvarifard - Department of Engineering Sciences, Faculty of Technology and Engineering, East of Guilan, University of Guilan,

.Rudsar-Vajargah, Iran

## خلاصه مقاله:

Since the device performance is degraded with the elapsed time, it is essential to develop the novel device for enhancing the reliability. Hence, a modification inside the drain region of the SOI-MOSFET structure has been performed. A region oxide has been recessed in the drain in order to modify the electric field owing to dielectric permittivity change. The simulation results obtained by SILVACO showed the improvement of the short-channel effects in the terms of drain-induced barrier lowering, hot-carrier effects and threshold voltage fluctuation as compared to the conventional structure

## كلمات كليدى:

SOI-MOSFET, Short channel effect, Threshold voltage, Recessed oxide

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1921651

