

## عنوان مقاله:

Amorphous Silicon Flat Panel Imagers for Medical Application

## محل انتشار:

ماهنامه بین المللی مهندسی، دوره 12، شماره 1 (سال: 1378)

تعداد صفحات اصل مقاله: 9

## نویسنده:

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## خلاصه مقاله:

A new gamma camera based on hydrogenated amorphous silicon (a-Si:H) pixel arrays to be used in nuclear medicine is introduced. Various performance characteristics of a-Si:H imagers are reviewed and compared with those of currently used equipment. An important component in the a-Si:H imager is the scintillator screen. A new approach for fabrication of high resolution CsI(Tl) scintillator layers, appropriate for coupling with a-Si:H arrays, are presented. Using Monte Carlo Simulation, the performance of the new a-Si:H based gamma camera is evaluated.

## کلمات کلیدی:

Amorphous Silicon, Flat Panel Imagers, Medical Imaging, Monte Carlo simulation, Gamma Camera

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1415435>

