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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5651** |
| Title of the Manuscript: | **Hydrogenated Amorphous Silicon Charge-Selective Contact Devices on a Polyimide Flexible Substrate for Dosimetry and Beam Flux****Measurements** |
| Type of the Article | **Book Chapter** |

**Special note:**

# A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal. Sensors, 25(4), 1263, 2025.**

**Available:** [**https://doi.org/10.3390/s25041263**](https://doi.org/10.3390/s25041263)

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| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The subject is related to medical physics and radiation dose measurement such as X-rays. This field is vital and in demand.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **yas** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **yas** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **yas** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **yas** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | yas |  |
| **Optional/General** comments | 1. Inappropriate Keywords: ( hydrogenated amorphous silicon detectors; radiation hardness;)
2. Performance results (e.g., sensitivity, linearity, leakage current) are not compared with similar devices currently in use (e.g., MOSFETs or EPIDs), which reduces the robustness of the manuscript.
3. Although linearity coefficients (R) are indicated, no further statistical treatment (such as standard deviation or comparison of measurements) is performed. The addition of such results gives strength to the manuscript.
4. The tests were conducted on a single sample, which reduces the generalizability of the results.
5. The researcher did not discuss the possible measurement errors of the manufactured device.
6. The researcher used some long and complex sentences.
7. The researcher mentioned :(The response to protons have also been tested in the Trento Hospital proton accelerator, giving good results in terms of sensitivities at bias values ranging from 0.5 to 3 V, where we have a sensitivity ranging from 6.2× 10−10 to 3.4 × 10−9nC/p) Is nC/p a unit of sensitivity? It is known that the unit of measurement of sensitivity(pC/cGy).

It would be better to add a comparison table between the results of the manufactured device and other devices used in the medical field. |  |

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|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

PART 2:

**Reviewer details:**

**Kawther Ali Khalaph, Ibn Sina University of Medical and Pharmaceutical Sciences, Iraq**