SUBMISSION: 186  
TITLE: Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters  
  
  
----------------------- REVIEW 1 ---------------------  
SUBMISSION: 186  
TITLE: Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters  
AUTHORS: Oleg Olikh, Svitlana Gapochenko, Oleksii Zavhorodnii, Olena Lyubchenko and Yaroslav Olikh  
  
----------- Overall evaluation -----------  
SCORE: 2 (accept)  
----- TEXT:  
The work is devoted to the estimation of iron concentration in silicon solar cells using photovoltaic parameters based on deep learning methods. The concentration of recombination-active impurities in semiconductor are important from an applied point and can be determined in accordance with the proposed method on the base of current-voltage characteristics and standard photovoltaic parameters. The paper is well structured and clear, containing sufficient experimental results. The paper is very deep in point of view of mathematical accuracy and correctness. Text and graphic material are made carefully, with observance of rules of spelling and punctuation.  
However, the following remarks should be taken into account to be accepted:  
  
1. Add full stop at the end of Abstract  
2. What hardware was used to train the neural network?  
3. Has performance analysis been performed? For which computing stations?  
4. The domain analysis section should be supplemented with a consideration of alternative mathematical tools (except for neural networks) that are used to solve the problem of determining the concentration of impurities in semiconductors.  
  
The paper can be accepted after its improvement.  
1. Добавьте полную точку в конце аннотации

2. Какое оборудование использовалось для обучения нейронной сети?

3. Проводился ли анализ производительности? Для каких вычислительных станций?

4. Раздел предметного анализа должен быть дополнен рассмотрением альтернативных математических инструментов (кроме нейронных сетей), которые используются для решения задачи определения концентрации примесей в полупроводниках.

Статья может быть принята после ее доработки.  
  
  
----------------------- REVIEW 2 ---------------------  
SUBMISSION: 186  
TITLE: Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters  
AUTHORS: Oleg Olikh, Svitlana Gapochenko, Oleksii Zavhorodnii, Olena Lyubchenko and Yaroslav Olikh  
  
----------- Overall evaluation -----------  
SCORE: 2 (accept)  
----- TEXT:  
the work is presented consistently and logically. there are typos and incorrect translation in the text, but the work is recommended for publication  
  
  
  
----------------------- REVIEW 3 ---------------------  
SUBMISSION: 186  
TITLE: Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters  
AUTHORS Oleg Olikh, Svitlana Gapochenko, Oleksii Zavhorodnii, Olena Lyubchenko and Yaroslav Olikh  
  
----------- Overall evaluation -----------  
SCORE: 2 (accept)  
----- TEXT:  
The article is of scientific interest and is recommended for publication.