

Curriculum vitae

PERSONAL INFORMATION

First Name, Surname Oleksii Zavhorodnii
Date of Birth 1998-12-07
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EDUCATION

2022 - Present Post-graduate course at the general physics department in Taras Shevchenko National University of Kyiv
2020-2022 Physics faculty of Taras Shevchenko University of Kyiv, master in physics of nanosystems (diploma with honours M22 №034028, 31.05.2022)
2016-2020 Physics faculty of Taras Shevchenko University of Kyiv, bachelor in speciality "Physics and Astronomy" (diploma B20 №142087, 30.06.2020)
Ukrainian - C2, English – B2.

LANGUAGES

SCIENTIFIC ACTIVITY

Number of Scientific Papers 5

Main Stream of Research Field of knowledge "Nature Sciences"
- defect engineering in semiconductor structures;
- machine learning for defect characterization.

Papers in Q1 and Q2 Journals 1. Olikh O., Lozitsky O., Zavhorodnii O. «Estimation for iron contamination in Si solar cell by ideality factor: Deep neural network approach», Progress in Photovoltaics: Research and Applications, 2022, vol.30, is.6, p. 648-660; <https://doi.org/10.1002/pip.3539>
2. Olikh, O., Zavhorodnii O. «Modeling of ideality factor value in structure», Journal of Physical Studies, 2020, vol. 24, is.4, p. 4701-1-4701-8; <https://doi.org/10.30970/jps.24.4701>

International Conferences 1. Olikh, O., Zavhorodnii O. «Modeling of ideality factor value in silicon solar cells», XXII International Seminar on Physics and Chemistry of Solids, Lviv, Ukraine, Book of Abstracts, 2020. p. 77
2. Olikh O., Lozitsky O., Zavhorodnii O. «Deep-learning approach to the iron concentration evaluation in silicon solar cell», 9 European conference on renewable energy systems, Istanbul, Turkey, 2021, p. 22; ISBN: 978-605-86911-9-3
3. Olikh, O., Zavhorodnii O., Olikh Ya., Gapochenko S., Lyubchenko O., «Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters», IEEE 3rd KhPI Week on Advanced Technology (KhPIWeek), 2022