

UNIWERSYTET JANA DŁUGOSZA W CZĘSTOCHOWIE

Wydział Nauk Ścisłych, Przyrodniczych i Technicznych

ul. Armii Krajowej 13/15 • 42-200 Częstochowa

tel.: 034 361 21 79 • fax:034 366 54 15 • e-mail: wnspt@ujd.edu.pl • http://www.wnspt.ujd.edu.pl

Katedra Fizyki Teoretycznej, Instytut Chemii

Czestochowa, 01 June 2023

CERTIFICATE № 04-2023

of the completing scientific and didactic internship by

Associate Professor Oleksandr Kokhan

Inorganic Chemistry Department
Uzhhorod National University, Uzhhorod , Ukraine

This certifies that Associate Professor Oleksandr Kokhan has successfully completed the 180 hours (6 ECTS credits) scientific and didactic internship (six weeks from 22 April 2023 to 31 May 2023) at Department of Theoretical Physics and Institute of Chemistry, Faculty of Science and Technology, Jan Dlugosz University in Czestochowa, Silesia, Poland.

The topic of the scientific internship:

"Technology of the preparation and investigations various properties of the new functional materials based on quaternary chalcogenides and halogenchalcogenides".

Associate Professor Oleksandr Kokhan fulfilled the internship requirements both in the didactic part since he participated in the lectures (on-line) and in the scientific part - one manuscript has been prepared and is ready to send to the journal with a high impact factor. Therefore, the envisaged outcome of the scientific internship as well as development of professional competencies has been fully accomplished.

Due to war time at Ukraine, to accomplish all research objectives, scientific internship was performed on an online cooperative basis (distance form).

During the research internship, Associate Professor Oleksandr Kokhan, together with the scientists from the Department of Theoretical Physics, Faculty of Science and Technology, Jan Dlugosz University in Czestochowa improved skill regarding investigations influence of the crystal structure of ternary and quaternary compounds, as the modern method of predicting their thermoelectric and optical properties.

DZIEKAN
Wydział Nauk Ścisłych, Przyrodniczych
i Technicznych
Jana Długosza w Częstochowie
dr hab. inz. Marcin Sosnowski, prof. UJD