Name	Serhii Sulyma
Position, Department/Faculty	Teaching Assistant, Department of Physics, Faculty of Radioelectronics, Computer Systems and Information Communications
Academic Degree, Academic Title	N/A
Email:	s.v.sulyma@student.khai.edu
Scopus Author ID:	8404643600
Web of Science ResearcherID:	OBO-9270-2025
ORCID iD:	0009-0001-4032-9455
Google Scholar:	https://scholar.google.com/citations?hl=uk&user=K_YpdjUAAAAJ
ResearchGate:	https://www.researchgate.net/profile/Serhii-Sulyma

EDUCATION:

Basic education (university, major, year of graduation):
National Aerospace University – Kharkiv Aviation Institute, Biotechnical And Medical Devices And Systems, 1999

Postgraduate/Doctoral studies:
Postgraduate study at the Institute for Single Crystals of NAS of Ukraine, specializing in "Physics of Semiconductors And Dielectrics", from 1999 to 2002

Additional training, certification programs:
"Requirements of ISO 9001. Quality Management System Audit According to ISO 19011" — 2017

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):
Institute for Single Crystals of NAS of Ukraine, from 2002 to 2020, First Category Engineer, then Senior Engineer

Teaching Experience:
2024 to date — Teaching Assistant

Experience in International or National Projects:
2002–2005: STCU Grant #1787 — "New approaches to the growth of CdZnTe and the creation of radiation sensors for environmental monitoring"
2007–2009: STCU Grant #4144 — "New approaches to the growth of ZnSe:Cr crystals and the creation of efficient mid-IR lasers for medical applications"
2013–2015: STCU Grant #P406 — "Improving the quality of (Cd,Zn)Te single crystals for the purposes of gamma radiation detection at room temperature"

RESEARCH ACTIVITIES:

Main Research Areas:
Solid State Physics, Medical Physics, Materials Science

Number of Publications (Scopus, WoS, others):
80+

Monographs, Textbooks:
Діелектричні, оптичні та фотоелектричні властивості кристалів $A^{II}B^{VI}$, вирощених з розплаву [Текст] : монографія / О.М. Чугай, С.В. Олійник, В.П. Колесник, О.О. Полубояров, Д.В. Слюсар, С.В. Сулима, О.О. Волошин. – Харків : Нац. аерокосм. ун-т ім. М.Є. Жуковського «Харків. авіац. ін-т», 2021. – 191 с (*in Ukrainian*).

Participation in Scientific Conferences:
From 2000 to 2025, a total of 41 papers were presented at local and international scientific conferences, including 2008 IEEE NSS/MIC, Dresden, Germany; ICCG-16, Beijing, China (2010); 2011 IEEE NSS/MIC/RTSD, Valencia, Spain; E-MRS 2013 Fall Meeting, Warsaw, Poland.

TEACHING ACTIVITIES:

Courses Taught:
Laboratory classes in physics

GRANTS AND PROJECTS:

Participation in International and National Projects:
2002–2005: STCU Grant #1787 — "New approaches to the growth of CdZnTe and the creation of radiation sensors for environmental monitoring"
2007–2009: STCU Grant #4144 — "New approaches to the growth of ZnSe:Cr crystals and the creation of efficient mid-IR lasers for medical applications"
2013–2015: STCU Grant #P406 — "Improving the quality of (Cd,Zn)Te single crystals for the purposes of gamma radiation detection at room temperature"

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):
V.K. Komar, O.N. Chugai, S.L. Abashin, D.P. Nalivaiko, V.M. Puzikov, S.V. Sulima. A method to study uniformity of electrophysical properties of high-resistance CdZnTe crystals // IEEE Trans. Nucl. Sci. – 2005. – Vol. 52, No. 5. – P. 1945-1950.
Yu. Naseka, O. Strilchuk, V. Komar, I. Terzin, S. Sulima, K. Bryleva. Photoluminescence evaluation of the quality of $Cd_{0.9}Zn_{0.1}Te$ detectors doped with different indium concentrations // Physica Status Solidi (b). – 2012. – Vol. 249, No. 1. – P. 142-145.
L. Davydov, P. Fochuk, A. Zakharchenko, V. Kutny, A. Rybka, N. Kovalenko, S. Sulima, I. Terzin, A. Gerasimenko, M. Kosmyna, V. Sklyarchuk, O. Kopach, O. Panchuk, A. Pudov, A.E. Bolotnikov, R.B. James. Improving and Characterizing (Cd,Zn)Te Crystals for Detecting Gamma-Ray Radiation // IEEE Trans. Nucl. Sci. – 2015. – Vol. 62, No. 4. – P. 1779-1784.
Degoda, V. Y., Alizadeh, M., Kogut, Y. P., Pavlova, N. Y., & Sulima, S. V. The influence of UV excitation

intensity on photoconductivity and photoluminescence in ZnSe monocrystals // Journal of Luminescence. – 2019. – Vol. 205. – P. 540-547.
Chugai, O., Poluboiarov, O., Oleynick, S., Sulima, S., Voloshin, O., Zaitsev, R., Kirichenko, M. Scanning photodielectric spectroscopy of CdZnTe crystals under additional non-monochromatic illumination // Sensors and Actuators A: Physical. – 2021. – Vol. 328. – P. 112772.

Books, Chapters in Collective Monographs:
Діелектричні, оптичні та фотоелектричні властивості кристалів $A^{II}B^{VI}$, вирощених з розплаву [Текст] : монографія / О.М. Чугай, С.В. Олійник, В.П. Колесник, О.О. Полубояров, Д.В. Слюсар, С.В. Сулима, О.О. Волошин. – Харків : Нац. аерокосм. ун-т ім. М.Є. Жуковського «Харків. авіац. ін-т», 2021. – 191 с (*in Ukrainian*).
O. Chugai, O. Poluboiarov, S. Oliinyk, S. Sulima. Scanning Photodielectric Spectroscopy of CdZnTe Crystals. In: Advances in Fabrication and Investigation of Nanomaterials for Industrial Applications. Cham: Springer International Publishing. – 2024. – P. 111-132.

Links to Citation Database Profiles:
https://www.scopus.com/authid/detail.uri?authorId=8404643600
https://scholar.google.com/citations?hl=uk&user=K_YpdjUAAAAJ
https://www.webofscience.com/wos/author/record/OBO-9270-2025
https://orcid.org/0009-0001-4032-9455
https://www.researchgate.net/profile/Serhii-Sulyma

ADDITIONAL INFORMATION:

Language Proficiency:
Fluent in English

IT Skills:
Advanced PC user